

City of Lexington

Stormwater Management Plan

Revised March 2006

Introduction

The Stormwater Management Plan (SWMP) for the City of Lexington was developed to reduce pollutants discharged through the municipal separate storm sewer system (MS4) to downstream receiving waters. The plan consists of best management practices (BMPs) to address the six minimum control measures as outlined in NPDES General Permit No. NER300000, including public education and outreach, public involvement, illicit discharge detection and elimination, construction site runoff control, post-construction runoff control, and pollution prevention/good housekeeping for municipal operations. The BMPs identified in the plan are designed to reduce pollutant discharges from the MS4 in the following ways:

- 1) Educating the public about the ways in which pollutants enter the stormwater system, the effects to downstream receiving waters, and ways in which they can prevent these pollutants from entering the stormwater system.
- 2) Informing and encouraging the public in ways to prevent stormwater pollution, report suspected problems, and take an active role in preserving the quality of downstream receiving waters.
- 3) Implementing a program to detect discharges through the MS4 that are not due to stormwater runoff, and addressing those discharges that are significant contributors to pollutants.
- 4) Enacting regulations, review procedures, and inspection procedures to control stormwater runoff from construction sites, thereby reducing the pollutants, particularly sediment, from entering the MS4 and downstream receiving waters.
- 5) Enacting regulations and inspection procedures to control runoff from construction sites after construction has been completed to ensure that the site is stabilized.
- 6) Evaluating municipal operations and implementing measures to insure that employees are adequately trained, materials are properly stored, and other measures are taken to reduce the likelihood of pollutants entering the stormwater system due to the work of the City.

The SWMP will be fully developed and implemented over the next 5 years. As work on the plan progresses over this time frame, more specific procedures and personnel will be identified.

Proposed Wet Weather Monitoring Plan

The City of Lexington intends to perform wet weather monitoring as required in the General Permit in year-2 and year 4 of the permit. This will include monitoring 3 locations 3 times in each of the 2 years. In accordance with the permit, one monitoring location shall represent residential areas, one shall represent commercial areas, and one shall represent industrial areas. The City proposes to use the following locations (as shown on the Storm Sewer Map) for monitoring:

Residential Areas: Outfall #6 at 20th Street
Commercial Areas: Outfall #4 on East Highway 30
Industrial Areas: Outfall #3 on South Railroad Street

These locations are subject to verification and approval of NDEQ. As NDEQ evaluates these proposed locations, work will be beginning on updating the MS4 map. This process may reveal other locations that are more representative of the types of runoff desired for sampling. If so, these alternative sites would be used if approved by NDEQ.

The wet weather monitoring will be completed in accordance with the requirements outlined in the permit.


No other wet weather monitoring is planned at this time. Should any additional monitoring be completed, records will be maintained in accordance with the permit. This SWMP includes BMPs to address the 6 minimum control measures discussed above, with the purpose of reducing pollutants discharged through the MS4 system to the maximum extent practicable. These BMPs have measurable goals associated with them. Annual reports will be submitted to NDEQ noting the progress towards the measurable goals. Meeting the goals should preclude any requirement for additional wet weather monitoring.

No...
Did it in year two.
No test facilities in area.
As a group, petition to get that part
of plan thrown out.

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Requirement No. 1: Public Education and Outreach

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
1.1	<p>Develop brochures regarding stormwater issues and methods to prevent contamination. Make available at various locations throughout the community. Include brochure in utility bill mailing once to each household. Include specific information regarding impairments to the Platte River receiving waters, and possible contributing sources and information for residents to help reduce the potential sources.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Year 1: Develop educational brochures on storm water issues.</p> <p>Years 2 through 5: Print a minimum of 3000 brochures for distribution. Mail brochures to residential utility customers. Make brochures available at other local outlets, including the Dawson County Extension Office, City Hall, and other areas as determined to be beneficial.</p> <p>Year 5: Review brochure and determine if changes are necessary.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: a sample brochure, number of brochures printed, approximate number of brochures distributed, and list the distribution outlets</p>
1.2 	<p>Update the City's existing website to include information regarding stormwater issues. Include a "Frequently Asked Questions" portion, as well as a way for citizens to submit questions electronically. Include specific information regarding impairments to the Platte River receiving waters, and possible contributing sources and information for residents to help reduce the potential sources.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 1 and 2: Develop educational materials to be placed on website. Have web page designed and implemented by end of Year 2.</p> <p>Years 3 through 5: Monitor and respond to questions generated from website. Review and update information as necessary.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Number of visitors to the website, number of questions received</p>
1.3	<p>Cooperate with local community organizations, such as the Chamber of Commerce, local civic organizations, and other groups to provide education regarding stormwater issues.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Year 1: Identify potential target groups. Contact identified groups to offer speakers or presentations on stormwater issues.</p> <p>Years 2 through 5: Conduct presentations for interested groups on stormwater pollutions prevention. Set a goal of conducting a minimum of 5 presentations</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Number of presentations made, outline of typical presentation</p>

*NE H2O
Keep Lexington
Beautiful*

*Facebook Page
- Pics of event*

*Runs (SK)
Water Bottle
Walky the
Walley
Clean up day
w/ Football
Team
at local
lake*

1.4	Develop press releases and/or public service announcements with stormwater related educational material to be issued twice annually through local media sources. Responsible Department/Individual: Administrative Support/Bill Brecks	Ongoing all years Reporting Requirements: In the Annual Activity Report, note the following: Summarize activities in this area with sample press releases/public service announcements.
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Requirement No. 2: Public Participation and Involvement

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
2.1	<p>Develop and Implement a system to address and respond to stormwater related concerns and complaints from telephone, mail, or email.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Year 1: Identify responsible parties to respond to complaints and concerns, develop a protocol to ensure timely response.</p> <p>Years 2 through 5: Implement complaint response protocol; inform public of ways to have concerns heard.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Number of complaints received, summary of actions taken.</p>
2.2	<p>Update the existing City website to include information on stormwater, with links to other useful sites. Include a section for visitors to submit complaints, comments, or questions. Include specific information regarding impairments to the Platte River receiving waters, and possible contributing sources and information for residents to help reduce the potential sources.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 1 and 2: Develop educational materials to be placed on website. Develop visitor interaction components, including question/comment/complaint form to be submitted electronically. Develop procedures to respond to visitors. Have web page designed and implemented by end of Year 2.</p> <p>Years 3 through 5: Monitor and respond to questions generated from website. Review and update information as necessary.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Number of visitors to the website, number of contacts received. Summarize updates to the website.</p>
2.3	<p>Organize and hold public meetings and attend meetings with affected groups (i.e. home builders association, etc.) to discuss the stormwater program and solicit feedback.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 1 through 5: Organize and hold meetings a minimum of once per year.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Summary of meetings and feedback received at each meeting.</p>

*Bldg Dept.
Phone #*

ok

2.4	<p>Sponsor a community wide clean-up day and encourage individual and group participation. Emphasize contaminants contributing to impairment of the Platte River.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 1 through 5: Organize and promote clean-up days, stressing the benefits to the stormwater system. Encourage participation by individuals and groups (boy scouts, girl scouts, home owner's associates, etc.) Evaluate the possibility of implementing an "Adopt-a-Stream" or "Adopt-a-Park" program.</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: Summary of clean-up day activities and promotional effort.</p>
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Requirement No. 3: Illicit Discharge Detection and Elimination

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
3.1	<p>Develop ordinances to prohibit illicit non-stormwater discharges, including appropriate penalties and enforcement procedures. Outline non-prohibited discharges as well (i.e. private car washing, lawn watering, etc.)</p> <p>Responsible Department/Individual: City Council, Administration, and Attorney</p>	<p>Year 1: Draft proposed ordinances for consideration by City Council Year 2: Enact effective ordinances Years 3 through 5: Implement and enforce ordinances</p> <p>Reporting Requirements: In the Annual Activity Report, note the following: List new ordinances adopted and summarize the intent.</p>
3.2	<p>Evaluate the accuracy and completeness of the existing storm sewer system map. Identify all outfalls and the names of the receiving streams.</p> <p>Responsible Department/Individual: To be determined in 1st year, anticipate street department and/or consultant to be responsible.</p>	<p>Years 1 and 2: Complete evaluation of existing map in comparison to actual field conditions for accuracy. Make corrections and additions as necessary. Years 3 through 5: Maintain map for incremental new construction through use of "as-recorded" drawings.</p> <p>Reporting Requirements: Include updated maps in the Annual Activity Report</p>
3.3	<p>Conduct dry weather inspections of all known major outfalls (30" diameter and larger) in conjunction with map evaluation noted above. For any observed flow, estimate flow rate and complete a physical characteristics examination of the flow. Inspect outfalls (including smaller outfalls) in response to complaints.</p> <p>Responsible Department/Individual: Anticipate street department or utility department to be responsible party, to be determined in year 1.</p>	<p>Years 1 and 2: Initially inspect known major outfalls Years 3 through 5: On-going inspection of major outfalls. Inspect major outfalls a minimum of once every 2 years. Years 1 through 5: Follow-up investigation of any illicit discharges discovered to determine the source and eliminate the discharge, if prohibited. Attempt to determine if illicit discharges are a significant contributor to impairments in the Platte River.</p> <p>Reporting Requirements: In the Annual Activity Report, include reports of non-stormwater discharges discovered, results of physical characteristics examinations, and any follow-up activities.</p>

OK

Yes...
615

Asist
sw software
Ask Bill.

Procedures
(S.O.P.'s)
Frequency
Tracking System

<p>3.4</p>	<p>Stencil storm sewer inlets with "No Dumping" or fish symbols to reduce illegal dumping. Solicit volunteer help from local groups</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks to coordinate with volunteers</p>	<p>Years 1 through 5: Stencil 10% of inlets within the permitted area each year.</p> <p>Reporting Requirements: Include a summary of the number of inlets stenciled, including the name of the groups performing the work in the Annual Activity Report.</p>
<p>3.5</p>	<p>Use educational materials described in "Public Education and Outreach" to educate the public about illegal dumping and illicit discharges</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Ongoing all years: Develop and distribute educational materials as noted in Part 1 above</p>

2015

Yes.

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Requirement No. 4: Construction Site Runoff Control

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
4.1	<p>Develop stormwater management and erosion control ordinances for construction sites. Include criteria for design and review, as well as for enforcement and penalties for non-compliance. Design standards shall be consistent with the requirements of the NDEQ NPDES general permit for construction site runoff.</p> <p>Responsible Department/Individual: Administration/Consultant/City Council</p>	<p>Year 1: Draft proposed ordinances for consideration by City Council. Conduct a public hearing to solicit input.</p> <p>Year 2: Complete enactment of ordinances</p> <p>Years 3 through 5: Implement ordinances</p> <p>Reporting Requirements: Include a summary of the ordinances adopted along with pertinent public input.</p>
4.2	<p>Develop or adopt design standards, minimum controls, and other construction site requirements to minimize the potential for pollutants to runoff into the MS4 system.</p> <p>Responsible Department/Individual: City Council, Building Department, Administration</p>	<p>Years 1 through 2: Research other communities and develop/adopt design standards and contractor requirements</p> <p>Years 3 through 5: Implement minimum standards and inform developers and contractors of these requirements (See item No. 2, and below)</p> <p>Year 5: Evaluate standards to determine if any changes are necessary.</p> <p>Reporting Requirements: Include a summary of standard criteria developed in the Annual Activity Report.</p>
4.3	<p>Develop a plan review and site inspection program including <u>procedures</u> for reporting and correcting deficiencies, procedures for referral to NDEQ for non-complying sites that do not respond to local enforcement actions. Identify priority sites for plan review and inspection based upon the size of the construction project, location, terrain, and receiving water. Consider past history of the contractor/developer in compliance when targeting site inspections.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 1 and 2: Develop procedures and identify responsible individuals for plan review and site inspections. Provide adequate training to those individuals with responsibilities in this area.</p> <p>Years 3 through 5: Begin plan review and inspection procedures within one year after ordinances are enacted.</p> <p>Reporting Requirements: In the Annual Activity Report, include the number of inspections completed and the size of the respective construction site, number of sites receiving non-compliance notices, and a summary of any enforcement action taken. Identify developers or contractors with re-occurring compliance problems</p>

OK

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Yes

Verbal
Red Tag for
ShutDown

4.4	Educate developers and contractors as to the requirements of the City's program by distribution of standards or criteria information sheets. Responsible Department/Individual: Administrative Support/Bill Brecks	Years 3 through 5: Distribute information sheets to contractors. Make sheets available at the City offices, and distribute to any contractor seeking a building permit.
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*As
made to
come.*

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Requirement No. 5: Post-Construction Runoff Control

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
5.1	<p>Develop and implement ordinances addressing post-construction runoff control. These ordinances will be developed as part of the construction site runoff control ordinances. Include requirements for Best Management Practices and inspection and maintenance for post-construction runoff control.</p> <p>Responsible Department/Individual: Administration, City Council</p>	<p>Year 2: Draft proposed ordinances for consideration by City Council. Conduct a public hearing to solicit input.</p> <p>Year 3: Complete enactment of ordinances</p> <p>Years 4 through 5: Implement ordinances</p> <p>Reporting Requirements: Include a summary of the ordinances adopted along with pertinent public input.</p>
5.2	<p>Develop and implement procedures for post-construction site inspections (follow-up inspections within one year of completion of construction). Identify priority sites based on construction site size, topography, nature of construction, and receiving waters.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Year 3: Develop procedures and identify responsible individuals for post-construction site inspections. Provide adequate training to those individuals with responsibilities in this area. Develop a recording keeping and tracking system to ensure inspections are completed within one year of construction completion</p> <p>Years 4 through 5: Begin plan inspection procedures within one year after ordinances are enacted.</p> <p>Reporting Requirements: In the Annual Activity Report, include the number of inspections completed and the size of the respective construction site, number of sites receiving non-compliance notices, and a summary of any enforcement action taken, and identify any developer or contractor that had re-occurring compliance problems.</p>
5.3	<p>Educate contractors and developers of the requirements for post-construction runoff control</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks</p>	<p>Years 3 and 4: Develop standards or criteria sheets incorporating requirements of the stormwater post-construction runoff control program.</p> <p>Years 4 through 5: Distribute information sheets to contractors. Make sheets available at the City offices, and distribute to any contractor seeking a building permit.</p>

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Requirement No. 6: Pollution Prevention/Good Housekeeping for Municipal Operations

Municipal Operations impacted by this program:

- Park and Recreation operation and maintenance
- Street maintenance and construction
- Utility maintenance and construction (water, sewer, storm sewer, electrical)
- Vehicle and equipment maintenance
- Service Facility (bulk material storage, equipment maintenance)
- Waste Water Treatment Facility

I.D. #	SWMP Element Description	Measurable Commitments and Implementation Schedule
6.1	<p>Evaluate all Municipal operations to determine ways to minimize impacts to stormwater runoff. Where feasible, operations shall comply with "No Exposure" status. Where not feasible, develop best management practices to limit potential pollutant runoff</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks, Department Heads</p>	<p>Years 1 and 2: Evaluate each separate municipal operation to determine if "No Exposure" certification is feasible. Identify operations to certify as "No Exposure"</p> <p>Years 3 through 5: For operations not certified as "No Exposure", develop best management practices to reduce pollutant runoff potential.</p> <p>Years 3 through 5: Submit "No Exposure" certifications as applicable. Implement BMPs where "No Exposure" certification is not feasible.</p> <p>Reporting Requirements: In the Annual Activity Report, include summary of BMPs and compliance with "No Exposure" status.</p>
6.2	<p>Provide adequate training to City employees identified as jobs with potential impacts to receiving waters. Training to include ways they can prevent pollutant runoff from municipal operations. Include training for activities, inspections, controls on discharge of pollutants from streets, proper maintenance of salt/sand storage areas, waste cleanup, etc. Identify responsible departments and personnel for employee training.</p> <p>Responsible Department/Individual: Administrative Support/Bill Brecks, Department Heads</p>	<p>Year 1: Develop training materials and program.</p> <p>Years 2 through 5: Conduct training annually for identified employees.</p> <p>Reporting Requirements: In the Annual Activity Report, include summary of training materials and program, and summary of those employees receiving training</p>

*2013
SW video
?
Sign-in
sheets
for attend.*

6.3	Conduct inspections and maintenance of the storm drainage system to remove sediment and debris (in conjunction with illicit discharge detection) Responsible Department/Individual: Street Department	Ongoing all years Reporting Requirements: In the Annual Activity Report, include summary of maintenance activities
6.4	Conduct street cleaning to remove potential pollutants before they enter the storm sewer system. Responsible Department/Individual: Street Department	Ongoing all years: Clean a minimum of 50% of all paved streets each year. Reporting Requirements: In the Annual Activity Report, include an estimate of the number of miles of streets cleaned.