

Phase II Stormwater Management Program

for

City of The Village, Oklahoma



Effective Date:
May 8, 2005

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

SIGNATURES OF RESPONSIBLE OFFICIALS

for the City of The Village, Oklahoma

The statements made in this Stormwater Management Plan document, and the programs described herein, are hereby declared to be accurate and fulfill the intent of the City of The Village to comply with the requirements of the State of Oklahoma's Phase II Stormwater General Permit for municipalities (OKRO4).

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 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.

Mayor Date

City Manager Date

Public Works Director Date

City Engineer Date

ATTEST:

City Clerk Date

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EXECUTIVE SUMMARY

The City of The Village has prepared this Stormwater Management Program (SWMP) document which provides descriptions of all activities that will be conducted on behalf of The Village to meet its obligations under the Oklahoma Department of Environmental Quality (ODEQ) General Permit for Phase II Small Municipal Separate Storm Sewer System Discharges Within the State of Oklahoma (OKRO4) dated February 8, 2005.

This SWMP is being submitted along with the Notice of Intent (NOI) that together constitute the application for coverage under the OKRO4 General Permit. Alternatively, portions of the SWMP document will be attached to the NOI as the application submittal as requested by ODEQ. In either case, copies of this SWMP will be kept in-house for review by ODEQ upon request.

All six Minimum Control Measures (MCMs) have been addressed in this SWMP. In addition, the City of The Village has not elected to incorporate the “Optional Permit Requirements for Municipal Construction Activities (OKRO4 Part VIII)” into the SWMP.

Each MCM has a number of Best Management Practices (BMPs) that constitute the core activities pertaining to each MCM. Appendices summarize the BMPs and provide Measurable Goals for each BMP, along with activity descriptions and implementation schedules. In addition, the SWMP text includes a BMP summary table for each MCM.

Every reasonable effort has been made to comply with all requirements in the State’s OKRO4 General Permit for Small Municipal Separate Storm Sewer Systems (SMS4s). To this end, relevant passages of the OKRO4 text were copied verbatim into this SWMP as an appendix.

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I. INTRODUCTION

In 1990 the U.S. Environmental Protection Agency (EPA) promulgated regulations for establishing water quality based municipal stormwater programs to address stormwater runoff from certain industrial and construction activities and from medium and large municipal separate storm sewer systems (MS4s) serving populations of 100,000 or greater. These “Phase I” regulations were incorporated into the existing National Pollutant Discharge Elimination System (NPDES) permit rules that address point source dischargers. As a result, urban non-point source runoff became regulated as a point source. On December 8, 1999, EPA published final regulations that address urban stormwater runoff from cities under 100,000 population and counties that lie within the Urbanized Area as defined by the latest US Bureau of Census designation or otherwise designated by the Oklahoma Department of Environmental Quality (ODEQ) as being required to obtain coverage under the State’s Phase II Stormwater program.

These “Phase II” cities and counties must develop a comprehensive Stormwater Management Program (SWMP) that addresses six “Minimum Control Measures” (MCMs). These are:

- 1. Public Education and Outreach*
- 2. Public Participation and Involvement*
- 3. Illicit Discharge Detection and Elimination*
- 4. Construction Site Stormwater Runoff Control*
- 5. Post Construction Management in New Development and Re-Development*
- 6. Pollution Prevention and Good Housekeeping*

The ODEQ has primary jurisdiction over permitting and enforcement of the Phase II Stormwater Program for Oklahoma. On February 8, 2005, the ODEQ finalized their General Permit (OKR04) for Phase II Small Municipal Separate Storm Sewer System Discharges Within the State of Oklahoma.

The Phase II regulations require that the regulated community submit a Notice of Intent (NOI) to apply for coverage under the Oklahoma Stormwater General Permit (OKR04) along with a Stormwater Management Program document (SWMP) that specifies, for each MCM, what activities will be performed (Best Management Practices – BMPs), along with schedules and measurable goals for each BMP.

This SWMP document fulfills the OKR04 General Permit requirement to prepare a detailed plan of how the City of The Village will address non-stormwater discharges within its city limits and urbanized Area.

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II. SWMP PROGRAM OVERVIEW

Regulatory Authority

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq.) as required under Section 122.34(d)(2) of the Storm Water Phase II Rule, and with the provisions under the Oklahoma Pollutant Discharge Elimination System, OAC 252:606-1-3(b)(3) incorporating by reference 40 CFR §122.26 and 122.30 through 122.35, operators of Small Municipal Separate Storm Sewer Systems (SMS4s) are authorized to discharge in accordance with the conditions and requirements set forth in their permit. The Phase II regulations issued by the EPA can be found in FR Vol. 64 No. 235, December 8, 1999, beginning on page 68722, and became effective on February 7, 2000.

The ODEQ's OKR04 General Permit is a new issue with an effective date of February 8, 2005. The general permit and the authorization to discharge shall expire at midnight February 7, 2010. As provided in the permit, operators of SMS4s who submit a Notice of Intent and a Storm Water Management Program (SWMP) in accordance with PART IV of the general permit are authorized to discharge pollutants to waters of the State in accordance with the conditions and requirements set forth in the permit.

The OKR04 permit authorizes discharges of storm water and certain non-storm water discharges from SMS4s, as defined in OAC 252:606-1-3(b)(3) incorporating by reference 40 CFR §122.26(b)(16). This includes MS4s designated under 40 CFR §122.32(a)(1) and 40 CFR §122.32(a)(2) that describes the referenced area with a population of at least 10,000 but not exceeding 100,000, and SMS4s located in urbanized areas (UA). A number of other operators of SMS4s located outside of a UA have also been designated as a regulated MS4.

This SWMP document specifies all of the actions that the City of The Village will take to comply with the stormwater regulations and address the six "Minimum Control Measures" required by EPA for a successful stormwater program.

All information contained in this SWMP represents a good faith effort on the part of the City of The Village to comply with all requirements of the ODEQ's Phase II General Permit for Small MS4s (OKR04). This SWMP will be reviewed periodically by local administrative staff and amended, as needed, to provide greater efficiency or meet additional requirements that may be forthcoming under OKR04 or other regulatory changes.

SWMP Organization

This SWMP addresses all elements of the ODEQ's General Permit for MS4s (OKR04). The six Minimum Control Measures are written in the same sequence as the OKR04 text, and supporting tables and summary forms are included as SWMP appendices. Appendix A is verbatim text taken from OKR04 on essential program requirements. Appendix B is a summary table of all BMPs to be used in The Village's program. Appendix C is an annual schedule of implementation and measurable goals. Appendix D is a flow chart for conduction inspections. Appendix E has one page summaries of each BMP. Appendix F documents the Endangered Species determination of The Village, and includes the 303(d) list certification.

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III. MINIMUM CONTROL MEASURES

For each of the following Minimum Control Measures (MCMs), the City of The Village will implement Best Management Practices (BMPs), develop implementation schedules, and establish Measurable Goals for each BMP. An Annual Report will be submitted to the ODEQ that documents implementation and BMP effectiveness under each of the six MCMs.

This SWMP provides information on the BMPs and other activities that will be implemented to address each of the MCMs. A verbatim copy of the OKRO4 General Permit text is provided in Appendix A. These OKRO4 passages drive development of the SWMP plan content and individual program elements and BMPs.

A. MCM 1: PUBLIC EDUCATION AND OUTREACH:

OKRO4 requires Phase II cities to develop and implement a public education program to distribute education materials and to develop and document a stormwater public outreach program that addresses BMPs and measurable goals of the education program.

A.1 Best Management Practices for Public Education

The City of The Village will use a number of public education Best Management Practices (BMPs) to inform individuals and groups about the steps they can take to reduce stormwater pollution and become involved in the stormwater program. Appendix B summarizes all BMPs that will be used for this MCM. Appendix E provides a one-page description of each BMP, along with Measurable Goals and schedule of implementation. The BMPs are summarized in Table 1 below:

TABLE 1: BMP's FOR PUBLIC EDUCATION PROGRAM

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Brochure: <i>Water quality impacts from urban stormwater</i>	General public – adults	Distribute at local events and public buildings
Brochure: <i>Household chemical disposal options</i>	General public - adults	Distribute at local events and public buildings
Brochure: <i>Proper on-site sewage disposal system maintenance</i>	Homeowners with on-site sewage disposal systems	Distribute at local events and public buildings
Brochure: <i>Chemical storage and disposal at businesses</i>	Business owners	Distribute at local events and public buildings; mail
Brochure: <i>Recycling and re-use benefits</i>	General public – adults Schools (5 th – 12 th)	Distribute at local events and public buildings; schools
Brochure: <i>How to become involved in stormwater program</i>	General Public – adults Schools (5 th – 12 th)	Distribute at local events and public buildings; schools
Training: <i>water quality and regulations</i>	City staff and crews	Annual – in conjunction with MCM #6 requirement
Seminar: <i>Support regional agency-hosted seminar</i>	Municipal public works staff, public	At least once during permit cycle
Meeting: <i>discuss Phase II program in public city council meeting</i>	General public	At least once during permit cycle
Website: <i>Support regional/city stormwater website</i>	General public	Continuous access

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BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Clean-up Events: <i>sponsor / participate</i>	General public, city staff and crews	Annual
Display Board: <i>create and set up at local events</i>	General public	Annual and at City Hall during stormwater meetings
Signs: <i>Public awareness signs at streams and public facilities</i>	General public, city staff and crews	Continuous posting
School Programs: <i>Blue Thumb grade school stormwater education program</i>	Schools (3 rd – 9 th)	Annual in each school
Monitoring: <i>Blue Thumb volunteer stream monitoring program</i>	General public – adults Schools (10 th – 12 th)	Monthly monitoring
Marking: <i>Blue Thumb storm drain marking program</i>	General public, schools, non-profits	Ongoing, periodic
Pollutant Collection: <i>promote use of and support regional household pollutant collection events</i>	General public	Semi-annual regional events
Recycling: <i>promote use of and support regional recycling centers</i>	General public	Continuous use of centers
Free Logo Items: <i>purchase and distribute free items with water quality messages and logos</i>	General public, schools, non-profit groups	At all public events when brochures are distributed

A.2 Target Audience

The following target audiences were selected because the City of The Village considers them to be most likely to have significant stormwater impacts: For residential chemical use and disposal, the City of The Village will target education programs to individual homeowners, renters and multi-family residents. For commercial chemical use and disposal, the City of The Village will target education programs to commercial retailers and those businesses that store and use chemicals, including construction sites. Secondary schools will also have education programs using Blue Thumb volunteer instruction that focus on basic water quality impacts and options for pollutant disposal (e.g. recycling and collection events).

A.3 Target Pollutant Sources

The Village’s Public Education program will primarily address household pollutants by educating individual homeowners on the proper use and disposal of:

- pesticides
- fertilizers
- detergents
- solvents
- motor oil
- antifreeze
- other motor and engine fluids
- household trash
- rubbish (“floatable” materials)
- yard waste (grass clippings, leaves)

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By encouraging the public about and supporting regional recycling centers and household pollutant collection events, additional household pollutants can be addressed such as heavy metals, solvents, acids and discardable poisons. Proper storage, use and disposal of the same chemicals by local businesses will also be addressed in the education program.

A.4 Outreach Strategy

Table 1 (above) and Appendices B, C and E list all BMPs that will be used to address this MCM. Each BMP summary in Appendix E lists the activity description, schedule of implementation, and annual Measurable Goals for the BMP.

The City of The Village's public education program will target several different areas:

- Homeowners will be educated on how to properly use and disposal of fertilizers and other household chemicals as well as proper septic system maintenance.
- The public education program will also provide information on how to get involved in stream cleanups, restoration activities and other local conservation efforts that may periodically be conducted in the City of The Village.
- The City of The Village will promote citizen participation in area-wide stream and city cleanup events, use of recycling centers in the vicinity, and participation in pollutant collection events.
- The City of The Village stormwater web site will provide to the general public timely information about local and regional water quality and program issues as well as numerous web links to water quality resources.
- Secondary education grades will learn about water quality and urban sources of pollution through the Blue Thumb's "Storm Sewer In a Suitcase" classroom program for school children.
- The Blue Thumb volunteer stream monitoring program will emphasize student and adult education through practical hands-on experience with water quality sampling as well as provide formal training in water quality, pollution effects and ecosystem health.
- The City of The Village's education program will develop written materials that target commercial enterprises that have business activities that may negatively impact the stormwater quality of the MS4.

The City of The Village's Public Education program has a goal of providing stormwater education material to at least half of the homeowners in The Village by the end of the first five-year permit cycle.

A.5 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements.

A.6 Evaluating Program Effectiveness

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Measurable Goals have been established for each Public Education BMP. These are summarized in Appendix C and include implementation schedules and milestones for each BMP. The Measurable Goals and target dates for the BMPs in Appendix C were selected by the City of The Village to accommodate local resources with the intent of establishing as many BMPs as possible within the first few years of the permit cycle so that corrective actions can be taken to improve the program by the end of the permit cycle.

BMP effectiveness will be demonstrated by keeping records of contacts from individuals and stakeholders. Contacts from the public (email, phone call, fax, letter or personal visit) will be recorded as to the nature of the request and any follow-up action taken by The Village staff to address problems or concerns. If pollution sources are abated as a result of the contact, then the abatement action will be logged as a BMP success for public education as well as reduction of pollution. Changes in types of issues reported by the public over a few years of BMP implementation should demonstrate improvements in water quality.

B. MCM 2: PUBLIC PARTICIPATION AND INVOLVEMENT:

Some of the activities under the Public Education MCM also apply to the Public Participation and Involvement MCM. These include the Blue Thumb stream monitoring, use of recycling centers, participation in household pollutant collection events, stormdrain marking, and community cleanup events such as Adopt-A-Street. Appendix B lists each SWMP activity and the associated MCMs each addresses. Appendix C summarizes each Public Participation BMP, including implementation schedules and Measurable Goals for each BMP.

The Public Participation MCM is different from the Public Education MCM in that the citizens of The Village will actively participate in a program component such as stream cleanups or stormdrain marking. By participating, citizens not only learn about the urban stormwater quality issues but contribute towards improving water quality in their community.

B.1 Best Management Practices for Public Participation

The City of The Village will use several public participation Best Management Practices (BMPs) to involve individuals and groups in activities and programs to reduce stormwater pollution and become involved in the stormwater program. Appendix B summarizes all BMPs that will be used for this MCM. Appendix C provides a one-page description of each BMP, along with Measurable Goals and schedule of implementation. The BMPs are summarized in Table 2 below:

TABLE 2: BMP's FOR PUBLIC PARTICIPATION PROGRAM

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Public Meetings: Comply with State and local public notice requirements	General public	All public meetings
Brochure: <i>Water quality impacts from urban stormwater</i>	General public - adults	Distribute at local events and public buildings
Brochure: <i>Household chemical disposal options</i>	General public - adults	Distribute at local events and public buildings
Brochure: <i>How to become involved in stormwater program</i>	General public - adults	Distribute at local events and public buildings
Brochure: <i>Recycling and re-use benefits</i>	General public – adults Schools (5 th – 12 th)	Distribute at local events and public buildings; schools

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BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Seminar: <i>Support regional agency-hosted seminar</i>	Municipal public works staff, public	At least once during permit cycle
Meeting: <i>discuss Phase II program in public city council meeting</i>	General public	At least once during 5-year permit cycle
Website: <i>Support stormwater website</i>	General public	Continuous access
Clean-up Events: <i>sponsor / participate</i>	General public, city staff and crews	Twice during 5-year permit cycle
School Programs: <i>Blue Thumb grade school stormwater education program</i>	Schools (3 rd – 5 th)	Annual in each school
Monitoring: <i>Blue Thumb volunteer stream monitoring program</i>	General public – adults Schools (10 th – 12 th)	Monthly monitoring
Marking: <i>Blue Thumb storm drain marking program</i>	General public, schools, non-profits	Ongoing, periodic
Pollutant Collection: <i>promote use of and support regional household pollutant collection events</i>	General public	Semi-annual regional events
Recycling: <i>promote use of and support recycling</i>	General public	Continue curbside program

B.2 Public Involvement in Program Development

The City of The Village has taken several steps to inform and include the public in understanding and providing input in the development of the Phase II program. These include:

- The City of The Village has presented staff and budget information about the Phase II program in City Council public meetings.
- The City of The Village SWMP has been made available through the city’s web site.
- City staff has responded to questions from the public, and the city has distributed information to the community upon request.
- The ODEQ hosted two public meetings and had a formal 30 day public period in December 2004 on the draft OKR04 General Permit, and responded to all comments in writing.
- The ODEQ has placed all relevant information about the Phase II program, including cities affected and activities required under Phase II, on their public website with links to various types of technical information for the public.
- The ODEQ will place a copy of the Notice of Intent (NOI) on the ODEQ web site, and provide a 30 day public comment period for any organization or individual to make formal comments or inquiries. The City of The Village will make available to any group or individual, upon request, a copy of the NOI and SWMP.

B.3 Public Involvement in Program Implementation

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Throughout the first five year permit cycle, the City of The Village will use several methods to educate the public about the Phase II program and opportunities for participation. These include:

- The City of The Village will include in its Public Education brochures information on how individuals and organizations can become more fully informed and participate in water quality improvement efforts under the Phase II program.
- The City of The Village stormwater web site will have information about local and regional activities for citizens.
- City Council agenda items dealing with aspects of the program (e.g. budget approvals, approval of program activities) will be open to the public and receive public comment.

B.4 Target Audience

The public participation program will primarily target homeowners, adult residents, public and private school classes and organizations, non-profit organizations (e.g. Boy Scouts), and civic organizations. For school-age children, the participation program will focus on stormdrain marking using Blue Thumb resources. Regional waste collection events and community / stream cleanups will target individual residents in the city by encouraging their participation, and providing event information. All ethnic and socio-economic groups will be encouraged to participate. The Phase II program for the City of The Village will benefit all city residents and local enterprises.

B.5 Public Involvement Activities

The City of The Village will use the following types of activities for Public Participation:

- Distribute brochures to encourage proper use and disposal of household chemicals;
- Comply with all State and local public notice requirements during program implementation;
- Provide information on the city's stormwater web site and cable TV about local events;
- Encourage citizens to participate in Blue Thumb school education programs;
- Encourage citizens to participate in Blue Thumb stream monitoring;
- Sponsor the Blue Thumb stormdrain marking program;
- Establish a process to receive and review comments on the SWMP from the public and document responses to issues raised;
- Promote and help fund area-wide household pollutant collection events; and
- Encourage citizens to use curbside recycling.

The City of The Village's public participation program will rely upon the City's effort to promote and educate its citizens about opportunities to play an active role in water quality improvement efforts. The City will provide a household pollutant collection event and will make Oklahoma City's household hazardous waste disposal center available to residents of The Village.

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The City of The Village will financially support local stormdrain marking and other activities listed above to inform citizens about upcoming events.

The City of The Village will encourage citizen participation in area wide stream and city cleanup events and the use of curbside recycling. The City will financially support and promote regional education efforts as organized and conducted by regional agencies.

The City of The Village will financially support and promote the Blue Thumb's "Storm Sewer In a Suitcase" classroom program for school children as well as the Blue Thumb volunteer stream monitoring program. The City's education program will compliment the public participation efforts by providing timely information about upcoming events.

B.6 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements.

B.7 Evaluating Program Effectiveness

Measurable Goals will be established for each Public Participation BMP. These are summarized in Appendix C. BMP effectiveness will be demonstrated by keeping records of contacts from individuals and stakeholders. Contact from the public (email, phone call, fax, letter or personal visit) will be recorded as to the nature of the request and any follow-up action taken by The Village staff to address problems or concerns. If pollution sources are abated as a result of the contact, then the abatement action will be logged as a BMP success for public participation as well as reduction of pollution. Changes in types of issues reported by the public over a few years of BMP implementation should demonstrate improvements in water quality.

C. MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION:

The City of The Village will implement a comprehensive program to detect and eliminate illicit discharges following the requirements in the OKR04 General Permit. The program will rely upon a number of methods of pollutant detection. There are two categories of pollutants that will be addressed in different ways: 1) episodic incident with no determinable source, and 2) chronic or frequent incident with a potentially determinable source.

The first category is pollutants introduced into the MS4 from individuals in a one-time episode at a discrete point of entry in which the responsible party or source is not traceable. Examples of these are dumping of yard waste, motor oil, antifreeze or trash into a creek or stormdrain. These types of pollutants, when discovered in the MS4 or local streams, cannot be effectively investigated as to the source (i.e. the individual causing the pollution). Discovery of this type of pollutant will be from incident reports from citizens, city crews, police and fire workers, businesses, and State and Federal agency field crews. Prevention of future episodic pollution incidents will rely upon implementation of the Public Education and Public Participation programs presented above.

The second category is pollutants from sources that are frequently occurring or otherwise traceable through stream channels and the MS4 system using one or more methods of visual inspections, use of simple chemical field test kits and/or formal chemical sampling via laboratory

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analysis. Pollutants from these sources will be dispersed downstream as a detectable odor, visual color, increased turbidity, excessive algae growth, or changes in water chemistry (e.g. pH or conductivity) when compared to uncontaminated water in the stream or MS4. These potentially traceable pollutants are amenable to “source tracking” inspections, and the sources are more likely to be found and remediated. Appendix D illustrates a decision flow chart that the City of The Village will use to address each pollutant incident report.

C.1 Best Management Practices for Illicit Discharge Detection and Elimination

The City of The Village will use a number of Best Management Practices (BMPs) to implement an effective detection and elimination program for illicit discharges. Several of the brochure BMPs from the Public Education program will be useful for this MCM as well and are listed accordingly. Likewise, several Public Participation BMPs will also apply to this MCM. Appendices B and C summarize all BMPs that will be used for this MCM. Appendix E provides a one-page description of each BMP, along with Measurable Goals and schedule of implementation. The BMPs are summarized in Table 3 below:

TABLE 3: BMP’s FOR ILLICIT DISCHARGE PROGRAM

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Brochure: <i>Household chemical disposal options</i>	General public - adults	Distribute at local events and public buildings
Brochure: <i>Chemical storage and disposal at businesses</i>	Business owners	Distribute at local events and public buildings; mail
Brochure: <i>Proper on-site sewage disposal system maintenance</i>	Homeowners with on-site sewage disposal systems	Distribute at local events and public buildings
Brochure: <i>Recycling and re-use benefits</i>	General public – adults, Schools (5 th – 12 th)	Distribute at local events and public buildings; schools
Training: <i>data quality and data management</i>	City staff and crews	Annual
Training: <i>how to conduct inspections and monitor effectively</i>	City staff and crews	Annual
Mapping: <i>regional and local MS4 system maps</i>	City technical staff	Within first two years of permit
Mapping: <i>regional and local data / designate priority areas</i>	City technical staff	Within first two years of permit
Ordinance: <i>Adopt ordinance prohibiting illicit discharges</i>	City administration	Within first two years of permit
Seminar: <i>Support regional agency-hosted stormwater seminar</i>	Municipal public works staff, public	At least once during permit cycle
Meeting: <i>discuss Phase II program in public city council meeting</i>	General public	At least once during permit cycle
Website: <i>Support regional and/or city stormwater website</i>	General public	Continuous access
Existing Data: <i>Collect local and regional pollution data / discharger data</i>	Municipal technical and public works staff	Continuous, regional data coordinated by INCOG
Inspections: <i>conduct MS4 inspections to trace sources</i>	City-wide	As necessary using city crews and/or contractors
Enforcement: <i>take appropriate action to abate source</i>	City wide, all sources	Continuous, as necessary

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BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Clean-up Events: <i>sponsor / participate in city-wide event</i>	General public, city staff and crews	Twice during 5-year permit period
Monitoring: <i>Blue Thumb volunteer stream monitoring program</i>	General public – adults, Schools (10 th – 12 th)	Monthly monitoring
Marking: <i>Blue Thumb storm drain marking program</i>	General public, schools, non-profits	Ongoing, periodic
Pollutant Collection: <i>promote use of and support regional household pollutant collection events</i>	General public	Semi-annual regional events
Recycling: <i>promote recycling</i>	General public	Encourage participation in curbside recycling

C.2 Allowable and Occasional Incidental Discharges

The following non-storm water sources are allowed and which the City of The Village has determined to not be substantial contributors of pollutants to the MS4:

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Residential building wash water without detergents
- f. Uncontaminated pumped ground water
- g. Uncontaminated ground water infiltration
- h. Discharges from potable water sources
- i. Foundation drains
- j. Air conditioning condensate
- k. Irrigation water
- l. Springs
- m. Water from crawl space pumps
- n. Footing drains
- o. Lawn watering
- p. Individual residential car washing
- q. De-chlorinated swimming pool discharges
- r. Street wash water
- s. Fire hydrant flushings
- t. Non-commercial or charity car washes
- u. Discharges from riparian areas and wetlands
- v. Discharges in compliance with a separate Oklahoma Pollutant Discharge Elimination System (OPDES) or National Pollutant Discharge Elimination System (NPDES) NPDES permit.
- w. Discharges or flows from emergency fire fighting activities provided that the Incident Commander, Fire Chief or other on-scene fire fighting official in charge makes an evaluation regarding potential releases of pollutants from the scene. Measures will be taken to reduce any such pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. Discharges or flows from fire fighting training activities are not authorized by OKRO4 as allowable discharges.

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The local incident commander of the fire-fighting scene will report to The Village stormwater coordinator any observed releases of chemicals into the MS4 and/or water bodies. Local remediation will be implemented and consist of deploying absorbents, chemical neutralizers and/or booms and water skimmers to contain, neutralize and/or remove the chemicals. If the release is beyond the capability of local resources to safely and effectively remediate, then The Village will contract with a qualified company for large-scale hazardous waste remediation.

Occasional incidental non-stormwater discharges (e.g. non-commercial or charity car washes, etc.) may periodically be identified by the City of The Village. The list of all allowable non-stormwater discharges will be maintained by The Village administrative staff. Any local controls required by the City of The Village on these incidental discharges will be placed in the SWMP by written amendment.

C.3 Map Development and Update

The City of The Village will develop a map of The Village MS4 system showing basic system features, major outfalls and prominent receiving streams. Map data from substate planning agencies and State and Federal agencies will be used along with The Village maps. Over the course of the first few years, it is expected that the map features will be amended, particularly regarding outfalls as The Village determines the usefulness of the initial outfall designations. As more system inspections are performed, outfall locations and descriptions will be compiled by city staff and the system map will be updated accordingly. The mapping process will involve:

- Initially collecting all existing records at public offices to determine the extent of available map data;
- Collecting field data during inspections by city crews to verify locations and descriptions of MS4 attributes;
- Periodic review of MS4 system map data by the City Engineer and other city and outside professional staff, and updating maps as needed;
- Global Positioning System (GPS) will be used when needed to provide coordinate data for the MS4 system, facility locations and sampling sites, while other coordinate data will be collected using aerials and GIS map layers that show structures and sites;
- Digital and paper aerial photography and USGS 7.5 Minute Quadrangle maps will be used to assist with development of the outfall locations.

The City of The Village will keep records of map deficiencies and errors, and technical staff will periodically update maps as necessary.

C.4 Ordinance

The City of The Village will adopt an effective ordinance prohibiting illicit discharges to the MS4 and periodically evaluate the need for modifications. This will involve:

- During the first six months of the permit, compare model stormwater pollution ordinances to existing City ordinances and make modifications to local codes, if needed;

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- During the first year of the permit, evaluate staffing needs and acquire additional resources, if needed, to ensure that the City will be able to comply with all provisions and perform all required responsibilities in the ordinance;
- Adopt a local ordinance addressing illicit discharge detection and elimination;
- Delegate management authority to a key City staff person to manage all inspection and enforcement activities; and
- Periodically evaluate program effectiveness and make changes, as appropriate to the ordinance and/or City resources and manpower.

C.5 Plan to Detect and Address Illicit Discharges

The City of The Village will ensure the implementation of an effective illicit discharge detection and elimination program through the following procedures (also presented in Appendix D):

- Ensure that maps are effective by collecting map feature data during inspections to verify accuracy;
- Evaluate existing and near-future land uses in the City, and delineate high priority areas that have the greatest potential to discharge pollutants;
- Collect illicit discharge and pollution information from citizens, police and fire units, city public works crews, local businesses, other municipalities, non-profit organizations, volunteer stream monitors, students and educational institutions, construction contractors and workers, local building officials, floodplain administrator, and State and Federal agencies;
- Investigate, as necessary, and take follow-up action, as appropriate, for different types of pollutants and discharges, including those from on-site sewage disposal systems (see procedures below and in Appendix D);
- If source tracking is necessary for frequently occurring or otherwise traceable sources, conduct field monitoring of streams and the MS4 system to locate the pollutant source, relying upon visual inspections and simple field test kits (e.g. chlorine residual, pH, dissolved oxygen, temperature, conductivity, etc.) whenever possible, or using contract professionals when necessary;
- Ensure that field and facility data are compiled in a manner that facilitates the inspection process (e.g. information about possible pollutants and/or sources are provided to MS4 inspectors in a timely fashion);
- Ensure that inspection results and field and laboratory data are properly documented with a level of quality assurance appropriate to the use of the data;
- For sources of known origin and having a designated responsible party, take appropriate remediation / enforcement action to abate the pollutant source;
- The Village stormwater coordinator will evaluate program effectiveness and ensure data quality;

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- Implement procedures for enforcement, including how to approach owners of potential sources for on-sight inspections, how to present field data to owners that confirms the source, and what procedures the owner must take to remove the discharge; and
- Periodically evaluate, using the City’s management and field staff, the inspection and enforcement program, and make modifications as necessary to improve program effectiveness.

The source tracking inspections for potentially traceable sources will consist of a visual inspection program performed by City crews, and may include one or more field test kits for parameters that monitor the most likely type of stormwater pollution that is indicated (e.g. chlorine residual, pH, dissolved oxygen, conductivity, etc.). The visual inspection will describe and/or quantify the extent of pollution (e.g. floatables, excess algae growth, dead or stressed stream vegetation and organisms, color of water, odors, sediments, etc.).

If source tracking requires scientifically defensible data for possible litigation and/or enforcement action, then the City of The Village will use either its properly trained field collection crews or contract professionals to conduct appropriate sampling and information gathering to locate sources and characterize pollution events. Outside agencies will be contacted, if necessary, to report potentially illegal discharges or to protect health, safety or the environment. All samples collected for transport to laboratories for analysis shall be collected under written Quality Assurance (QA) protocols, including use of Chain of Custody forms, appropriate sample bottles with labels, field forms describing sample collection sites and conditions, and proper sample preservation.

Standard paper field forms and/or electronic field data recording devices (e.g. laptops, PDAs, GPS or Tablet PCs) will be used to make data collection systematic. Data will be entered and/or downloaded into computer databases for analysis, sharing and reporting. As needed, field data will be linked to the City’s MS4 map attributes. If requested to do so by ODEQ, certain monitoring data will be reported to ODEQ on ODEQ’s Discharge Monitoring Report (DMR) forms.

C.6 Administrative Procedures for Source Control

When episodic incidental pollution is reported to the City (e.g. motor oil dumped into a stormdrain), the city’s stormwater staff will record the date, location, information source, and description of the event. If necessary, a public works crewman will be sent to investigate to determine if the site should be cleaned (e.g. removal of yard waste, containment of oil, etc.). After inspection and/or cleanup, the city will keep a record of all actions taken regarding the pollution incident. These data will be included in the City’s Annual Report and used to evaluate program effectiveness.

When potentially traceable pollution is reported, the same incident information will be recorded, and a public works crewman will be sent to investigate. If the source is not immediately obvious, the City will initiate the visual inspection and/or hire professional investigation of the site and attempt to track the source upstream from the pollutant incident. If the source is located, the City will contact the owner / responsible party to request that the source be abated within a reasonable time in accordance with local ordinance.

The City will perform a follow-up inspection to confirm that the source of pollution has been abated. If not, then the City will take increasingly more strict action leading up to assessment of penalties by the City, and possibly to include ODEQ and EPA enforcement as well. Throughout the

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administrative and investigative process, the City will document all major actions in writing to permanent City files. Data from all such incidents will be included in the City's Annual Report and used to evaluate program effectiveness.

C.7 Inform Employees and the Public

The City of The Village will use the following types of activities for informing the public and City employees about the hazards associated with illegal discharges and improper disposal of waste:

- Distribute brochures to encourage proper use and disposal of household chemicals, maintenance of on-site sewage disposal systems, and recycling;
- Support a regional seminar dealing with one or more Phase II stormwater issues;
- Discuss the Phase II program in a city council meeting open to the public;
- Provide information on the city's stormwater web site about pollutant reduction;
- Support local stream clean-up events conducted by non-profits, organizations or State / Federal agencies and programs;
- Support local Blue Thumb volunteer monitoring and public education programs;
- Support local Blue Thumb stormdrain marking program;
- Support regional household pollutant collection events and programs; and
- Support local and regional recycling of wastes.

C.8 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements. .

C.9 Evaluating Program Effectiveness

Measurable Goals will be established for each Illicit Discharge BMP. These are summarized in Appendices C and E. BMP effectiveness will be demonstrated by keeping records of contacts from individuals and stakeholders. Each contact from the public (email, phone call, fax, letter or personal visit) will be recorded as to the nature of the request and any follow-up action taken by The Village staff to address problems or concerns. If pollution sources are abated as a result of the contact, then the abatement action will be logged as a BMP success for public education as well as reduction of pollution. These incident reports will be summarized in the Annual Report to ODEQ.

D. MCM 4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL:

The City of The Village will implement a comprehensive inspection and enforcement program to address the pollution of stormwater runoff from active construction sites. The City will develop an ordinance prohibiting the discharge of pollutants and sediment from construction sites, and require the deployment of adequate erosion control measures. The City's building inspector will perform periodic inspections of compliance with local stormwater codes while on site for other construction inspections.

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D.1 Best Management Practices for Construction Site Runoff Control

The City of The Village will use a number of Best Management Practices (BMPs) to implement an effective erosion and pollutant control program for active construction sites. Appendix E provides a one-page description of each BMP, along with Measurable Goals and schedule of implementation. The BMPs are summarized in Table 4 below:

TABLE 4: BMP's FOR CONSTRUCTION SITE RUNOFF PROGRAM

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Brochure: <i>Construction / erosion control BMPs</i>	Contractors, city public works crews	Distribute to contractors with Building Permit issuance
Inspections: <i>City inspection of active construction sites</i>	Site inspections during construction activities	At least once per month during construction
Ordinance: <i>Adopt ordinance requiring construction BMPs</i>	City administration	Completed.
Seminar: <i>Support regional agency-hosted seminar</i>	City public works staff, contractors, builders	At least once during permit cycle
Site Plan Review: <i>incorporate water quality into pre-construction review of site plans</i>	Developers, builders	All site plans will be reviewed if disturbance is over 1 acre
Public Information receipt: <i>create a program to receive and consider information from the public</i>	General public, developers	Continuous program

The City of The Village will develop a program to control construction site runoff by taking the following measures:

- Develop an ordinance to require erosion and sediment controls, as well as sanctions to ensure compliance;
- Require construction site operators to implement appropriate erosion and sediment control BMPs;
- Require construction site operators to control waste such as discarded building materials, sanitary waste and chemicals;
- Implement procedures for site plan review that incorporate consideration of potential water quality impacts;
- Implement a program to receive and consider information submitted from the public; and
- Implement a construction site inspection and enforcement program.
- The City of The Village will mirror in its own local ordinance the requirements provided in the ODEQ's construction general permit (OKR10). In this way, the local program will compliment and strengthen the statewide program. The Village will exchange information with the ODEQ concerning inspections and actions taken during the year if local actions warrant ODEQ involvement.

D.2 Ordinance

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The City of The Village will adopt an effective ordinance prohibiting construction related discharges to the MS4 and periodically evaluate the need for modifications. The ordinance will mirror requirements contained in ODEQ's statewide stormwater permit for construction activities (OKR10). Local ordinance adoption will involve:

- During the first six months of the permit, compare sample construction ordinances to existing City ordinances and make modifications to local codes, if needed;
- During the first year of the permit, evaluate staffing needs and acquire additional resources, if needed, to ensure that the City will be able to implement all provisions in the ordinance;
- Adopt a local ordinance controlling stormwater discharges from construction sites;
- Delegate management authority to a key City staff person to manage all inspection and enforcement activities; and
- Periodically evaluate program effectiveness and make changes, as appropriate to the ordinance and/or City resources and manpower.

D.3 Plan to Ensure Compliance

The City of The Village will implement a comprehensive program to address construction related activities to ensure compliance with erosion and sediment control measures at construction sites. These will include:

- Construction sites will be required through ordinance to establish erosion and sediment controls;
- The ordinance will have enforcement provisions to ensure that the necessary controls are implemented. This may include non-monetary penalties, fines, bonding requirements, and permit denial;
- The MS4 will establish guidelines and requirements for erosion and sediment control Best Management Practices (BMPs) and methods to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste; and
- Sanctions will be used in an increasing severity when corrective action has been ignored or not fully achieved, with the most drastic penalties being reserved for the worst offenses.

D.4 Procedures for Site Plan Review

The City of The Village will require all new development and redevelopment construction to consider potential impacts on water quality from construction activities. Requirements will include sediment and erosion control and control of other on-site wastes that can impact water quality. The City of The Village will:

- Implement administrative procedures for site plan review to ensure consistency with local erosion and sediment control requirements; and
- Ensure that construction activities are in compliance with local floodplain ordinances.

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D.5 Procedures for Public Input

The City of The Village will establish an administrative process for taking input from the public. This will include:

- Educating administrative staff on how to document public input from email, letters, faxes, phone calls and personal contacts;
- Documenting response actions tied to each request for assistance; and
- Evaluating success and taking follow-up action on unresolved problems.

D.6 Construction Site Inspections

The City of The Village will develop a program for inspection of construction activities. Stormwater control inspections will be performed by The Village building inspectors and performed when a complaint is received from the public and periodically during the other City construction inspection activities.

- A separate stormwater inspection form will be created to document inspection results of each site visit;
- A stormwater inspection will be conducted whenever a complaint is received, and periodically during the routine construction inspections by The Village inspector;
- The stormwater inspection form will document the adequacy of the erosion and sediment control measures being used and note any remedial action needed;
- Inspection data from the forms will be entered into a computer database or otherwise stored in City paper files;
- Enforcement will rely upon initially encouraging remediation by the construction owner / operator, followed by a warning to remediate within a reasonable time, followed by issuance of a fine under authority of the local ordinance; and
- Any immediate and significant threat to health, safety or the environment will be enforced immediately using best professional judgment of the city inspector and/or The Village administrative / public works staff, including police and fire personnel, as the situation merits, including reporting the violation to ODEQ for OKR10 enforcement.

D.7 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements.

D.8 Evaluating Program Effectiveness

Measurable Goals will be established for each Construction Site Runoff Control BMP. These are summarized in Appendix C. BMP effectiveness will be demonstrated by compiling and evaluating data from inspection forms. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Data from the

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stormwater inspections will be used to verify successful implementation of on-site construction BMPs.

D.9 Optional Permit Requirements for City Construction

The City of The Village elects to comply with the alternative provided in Part VIII of OKR04 relating to construction activities on land owned by the City and to activities that are directly controlled by the City. By selecting this option, all municipal construction discharges are herein authorized so long as the City meets all terms and requirements under OKR04. The City of The Village will develop, for each City construction project of one acre or greater in size, a Stormwater Pollution Prevention Plan (SWP3) that meets all requirements of OKR04 and applies to all municipal construction activities within The Village city limits. This option applies to all City construction activities where the City meets the definition of “construction site operator” as defined in OKR04.

The City of The Village will have potentially several types of construction activities in the future: 1) new buildings 2) cleared and/or paved areas such as parking lots or park ball fields, and 3) utility line entrenchment. The Village will either hire a contractor to perform the work or use city crews and equipment. Standard construction practices will be used on all projects. Local conditions include construction in accessible areas with sufficient easement and/or city ownership of property. Appendix G shows a map of the City of The Village boundaries within which this option applies.

The City of The Village’s Project Manager will ensure that the project-specific SWP3 is developed and a copy kept at the construction site for review. When the City hires a contractor to perform the work, the City will require the contractor to prepare and maintain access to the SWP3, and this will be verified by the City construction inspector or other City official. The City will inspect the project site as with any other construction project within the City’s jurisdiction. Part of this inspection process will be to ensure that all SWP3 requirements are being met. The City’s SWP3 contents will meet all requirements of OKR04.

E. MCM 5: POST-CONSTRUCTION RUNOFF CONTROL:

Post-construction stormwater management in new development and redevelopment focuses on implementation of controls and practices that will try to maintain good water quality conditions after an area has been developed and after construction activities have been completed. This Minimum Control Measure includes three parts. First, the City of The Village will require through local ordinance all operators of construction activities that disturb one acre or more to develop and implement structural and/or non-structural BMPs. The BMPs should be appropriate for the local site conditions and should be selected to minimize water quality impacts. Second, the City of The Village will adopt an ordinance to control runoff from new development and redevelopment projects. Third, the City will develop a mechanism to ensure that there is long-term operation and maintenance of the BMPs.

E.1 Best Management Practices for Post Construction Runoff Control

Appendix B lists the BMPs that will be used by the City of The Village to address the Post-Construction MCM. The individual BMPs are summarized in Appendices B and C and include the Measurable Goals for each as well as an implementation schedule for each BMP. The City of The Village will perform the following activities:

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TABLE 5: BMP’s FOR POST-CONSTRUCTION MANAGEMENT PROGRAM

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Brochure: <i>Construction / erosion control BMPs</i>	Contractors, city public works crews	Distribute to contractors with Building Permit issuance
Brochure: <i>Post-Construction / erosion control BMPs</i>	Contractors, city public works crews	Distribute to contractors with Building Permit issuance
Inspections: <i>City inspection of construction sites after completion</i>	Site inspections after completion of construction	At least once after construction is completed
Ordinance: <i>Adopt ordinance requiring post-construction BMPs</i>	City administration	Completed
Seminar: <i>Support regional agency-hosted seminar</i>	City public works staff, contractors, builders	At least once during permit cycle

E.2 Priority Areas

The City of The Village has determined that certain construction activities under some circumstances have a greater potential to cause water quality problems. The following areas are hereby designated as high priority:

- Post-construction sites that have had greater than one (1) acres disturbed at the time of active construction;
- Construction sites of any size that have not had any post-construction BMPs or other effective controls implemented to control post-construction runoff; and
- Construction sites that are within a watershed of an impaired stream listed on the State’s 303(d) list and have the potential to discharge pollutants that would most probably cause violations of the State water quality standards.

E.3 Locally Tailored Program

The post-construction program will be developed to address local conditions within the City of The Village. Factors that may be considered in developing the local post-construction program are:

- Proximity of the site to impaired water bodies on the State’s 303(d) list;
- Erodibility of soils (e.g. slope, soil type, vegetative cover, etc.);
- Size of construction activities and site disturbance;
- Locations of point source and any significant non-point source dischargers; and
- Receiving water characteristics (flows, depths, riparian cover, etc.)

The post-construction ordinance will require contractors to implement best management practices to prevent erosion and non-stormwater runoff from sites after active construction has ceased. The ordinance will provide several options for ensuring long term operation and maintenance of the

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site. The City will employ and require all contractors to employ a combination of structural and non-structural BMPs.

The City’s existing floodplain management strategy requires that post-runoff flow rates not exceed pre-development runoff flow rates. All public comments concerning water quality issues will be considered during amending of zoning codes and floodplain management codes. As part of the administrative review of plans, the City will encourage protection of sensitive water quality areas (e.g. wetlands, riparian areas, etc.) and encourage use of buffers along sensitive water bodies. At the time of local building permit issuance, the City will provide education materials to developers on post-construction requirements and options.

E.4 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements.

E.5 Evaluating Program Effectiveness

Measurable Goals will be established for each Post-Construction Runoff Control BMP. These are summarized in Appendix C. BMP effectiveness will be demonstrated by compiling and evaluating information from city administrative staff. If pollution sources are abated as a result of the post-construction program, then the abatement action will be logged as a BMP success. Data from the post-construction program will be used to verify successful implementation of on-site post-construction BMPs.

F. MCM 6: POLLUTION PREVENTION / GOOD HOUSEKEEPING:

Pollution prevention/good housekeeping for municipal operations is a minimum control measure designed to emphasize the operation and maintenance (O&M) of the MS4 and proper training of municipal employees. Performing municipal activities in a careful and proper manner prevents or reduces pollutant runoff. Municipal operations include parks and open space maintenance, vehicle fleet and building maintenance, new construction and land disturbances, building oversight, and stormwater system maintenance.

F.1 Best Management Practices for Good Housekeeping

During the first two years of the permit, the City of The Village will develop and implement strategies that address the following Pollution Prevention and Good Housekeeping requirements:

BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Brochure: <i>Chemical storage and disposal at city operations</i>	City public works crews, city staff	Distribute at local training for city crews and staff
Brochure: <i>City good housekeeping options</i>	City public works crews, city staff	Distribute at local training for city crews and staff
Training: <i>storage and disposal of chemicals at municipal operations</i>	City staff and crews	Annual
Training: <i>water quality impacts and regulations</i>	City staff and crews	Annual
Training: <i>stormwater and city activities</i>	City staff and crews	Annual

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BMP ACTIVITY	TARGET AUDIENCE	FREQUENCY
Inspections: <i>conduct MS4 inspections to track chronic sources</i>	City-wide	As necessary using city crews and/or contractors
Enforcement: <i>take appropriate action to abate source</i>	City wide, all sources	Continuous, as necessary
MS4 O&M Program: <i>inspect and maintain MS4 system</i>	Throughout MS4 system and at City facilities	Continuous, as necessary
Clean-up Events: <i>sponsor / participate</i>	General public, city staff and crews	Twice during 5-year permit cycle

F.2 List of Operation and Maintenance (O&M) Activities and Facilities

The following operations and facilities are owned by the City of The Village and are subject to the requirements of this MCM:

- Maintenance garage located at 1701 N.W. 115th Street, Oklahoma City. OK 73120
- Vehicle fueling area located at 1701 N.W. 115th Street, Oklahoma City. OK 73120
- Public Works outside storage area located at 1701 N.W. 115th Street, Oklahoma City. OK 73120
- Vehicle parking lot located at 2304 Manchester Drive
- Vehicle parking lot located at 1701 N.W. 115th Street, Oklahoma City. OK 73120
- Vehicle parking lot located at 2201 W. Britton Road, The Village, OK 73120
- Operation: Winter salt / sand spreading
- Operation: Sewer line repairs / replacements
- Operation: City park maintenance

F.3 List of Municipal Permitted Facilities

The following facilities are owned / operated by the City of The Village and subject to the ODEQ Multi-Sector General Permit or individual OPDES or NPDES permits for discharges of stormwater associated with industrial activity that ultimately discharge to the MS4:

None.

F.4 Employee Training Program

The City of The Village will participate in the regional training programs as may be developed by regional agencies for City employees that address MS4 maintenance and reduction and prevention of stormwater pollution from city activities. In the absence of regional training options, the city will conduct its own training program. Areas to be addressed by the training programs include:

- Park and open space maintenance;
- Fleet and building maintenance;

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- Proper use, storage and disposal of chemicals;
- New construction and land disturbance; and
- Stormwater system maintenance.

F.5 MS4 Inspection, Maintenance and Pollutant Control Program

The City of The Village will implement a program to control and reduce floatables and other pollutants to the MS4, including maintenance activities and schedules as well as long term inspection procedures. The following areas will be addressed:

- City streets and roads;
- Municipal parking lots;
- City maintenance and storage yards;
- City fleet maintenance shops with outdoor storage areas;
- Municipal salt/sand storage locations; and

City Facilities: During the second year of the permit, the City will perform an initial inspection of its facilities to determine potential pollutant sources via stormwater into the MS4 and, where possible, move all such materials under cover or inside to prevent contact with stormwater runoff. For those materials that cannot be sheltered, such as salt piles for snow removal, the City will implement structural BMPs where appropriate to control contaminated runoff from the storage areas. These will include straw bales, silt fencing, grassy swales, sediment ponds and/or other measures as deemed appropriate. At least once a year, the City will inventory these areas to ensure that the BMPs and storage controls are deployed properly and working.

MS4 System: The City will rely upon public education to reduce the amount of trash and chemical pollutants placed on city streets. This program will include educating citizens about not disposing of chemicals and yard waste into the streets and drop inlets. The City will also use misdemeanor labor assigned from local courts and/or city crews for trash pickups along city streets when necessary and continue its Adopt-A-Street program.

City Public Works crews will be instructed to report observed pollution problems and/or trash buildup on city streets or in the City's stormwater collection system. When reported, City Public Works crews will remove debris and trash from streets and the MS4 system as necessary.

The City will store sand and salt in areas that have sufficient berms and other flow control structures to prevent excess runoff of salt into local streams. The City will dispose of removed materials in a local landfill (East Oak Landfill). The material to be disposed of includes dredge spoil, accumulated sediments, floatables, and other debris.

F.6 Flood Management Projects

The City of The Village will ensure that new flood management projects are assessed for impacts on water quality and existing projects are assessed for incorporation of water quality protection devices or practices. The City's Floodplain Administrator and Public Works technical staff will

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ensure that potential water quality impacts of new construction and new development projects are considered during administrative review of the project plans. New projects will be evaluated during the site plan review process, while existing structures will be evaluated on a case-by-case basis when a water quality problem is documented and the structure is suspected of being a contributor.

F.7 Management Responsibility

The City of The Village has overall project management responsibility. The city manager will coordinate all local activities and implementation of all program elements.

F.8 Evaluating Program Effectiveness

Measurable Goals will be established for each Good Housekeeping BMP. These are summarized in Appendix C. BMP effectiveness will be demonstrated by compiling and evaluating information from city administrative staff. If pollution sources are abated as a result of the Good Housekeeping program, then the abatement action will be logged as a BMP success. Data from the Good Housekeeping program will be used to verify successful implementation of the BMPs.

G. 303(D) IMPAIRED WATERBODIES:

The OKR04 general permit requires that water bodies listed as Category 5 impaired on the State’s latest EPA approved Integrated Water Quality Assessment Report receive special consideration to ensure that water quality standards are not caused to be exceeded by discharges from the MS4. A Category 5 listing is equivalent to a 303(d) listing for designating impaired water bodies. Using the checklist evaluation form in Appendix F for water bodies to which the City of The Village’s MS4 has the potential to discharge, it has been determined that:

It has been determined that the stormwater discharge from The Village MS4 has the potential to contribute one or more pollutants of concern for which the water body has been listed. The following segments meet this condition:

Water body ID	Name	Pollutant(s) that may potentially come from the MS4
OK620910040100_00	CHISHOLM CREEK	PATHOGENS, TMDL

H. AQUATIC RESOURCES OF CONCERN:

The OKR04 general permit requires that if any portion of the City’s MS4 lies within the Aquatic Resources of Concern area designated in Exhibit 1 of OKR04, then the segment should receive special consideration to ensure that the MS4 discharges do not negatively impact any protected species and/or habitat to which the designation applies. Using Exhibit 1, it has been determined that:

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There are no Aquatic Resources of Concern to which The Village MS4 has the potential to discharge. (North Canadian Watershed)

x

I. SPECIAL CONSIDERATION FOR WATERBODIES OF CONCERN:

For the water bodies listed in the table above, the City of The Village's stormwater program will take the following special measures to ensure protection of water quality standards and/or ensure protection of protected species and their habitat:

- 1) Designate a high priority area within that portion of the MS4's watershed that has the potential to impact the designated water body;
- 2) Focus additional education efforts within the high priority area(s) targeting citizens and businesses;
- 3) Increase MS4 inspections and observations within the high priority area(s);
- 4) Coordinate City efforts with any water quality monitoring or other scientific studies being conducted by State agencies; and
- 5) Request that the Blue Thumb BMPs be implemented as a priority within the designated area.

IV. DEFINITIONS

All definitions contained in Section 502 of the Act and 40 CFR §122 shall apply to this permit and are incorporated herein by reference. For convenience, simplified explanations of some regulatory/statutory definitions have been provided, but in the even of a conflict, the definition found in the Statute or Regulation takes precedence.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the 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.

Construction Site Operator means the party or parties that meet one or more of the following descriptions:

- (1) Has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications or;
- (2) Has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a Storm Water Pollution Prevention Plan for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).

Control Measure as used in this permit refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the State.

CWA or The Act means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L.

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92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

Director means the Executive Director or chief administrator of the Department of Environmental Quality or an authorized representative.

Discharge, when used without a qualifier, refers to “discharge of a pollutant” as defined at 40 CFR §122.2.

Illicit Connection means any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge is defined at 40 CFR §122.26(b)(2) and refers to any discharge to a municipal separate storm sewer that is not entirely composed of storm water, except discharges authorized under an OPDES or NPDES permit (other than the OPDES permit for discharges from the MS4) and discharges resulting from fire fighting activities.

MEP is an acronym for "Maximum Extent Practicable," the technology-based discharge standard for Municipal Separate Storm Sewer Systems to reduce pollutants in storm water discharges that was established by CWA §402(p). A discussion of MEP as it applies to MS4s is found at 40 CFR § 122.34.

MS4 is an acronym for "Municipal Separate Storm Sewer System" and is used to refer to either a Large, Medium, 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 (e.g., the Oklahoma City MS4 includes MS4s operated by Oklahoma City, the Oklahoma Department of Transportation, and others).

Municipal Separate Storm Sewer System is defined at 40 CFR § 122.26(b)(8) and means 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, city, 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) as defined at 40 CFR §122.2.

NOI is 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.

Small Municipal Separate Storm Sewer System is defined at 40 CFR §122.26(b)(16) and refers to all separate storm sewers that are owned or operated by the United States, a state, city, town, county, 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 a designated and approved management agency under section 208 of the CWA that discharges to waters of the State, but is not defined as “large” or “medium” municipal separate storm sewer system. This term includes systems similar to separate storm sewer systems in municipalities, such as systems

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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.

Storm Water is defined at 40 CFR §122.26(b)(13) and means storm water runoff, snow melt runoff, and surface runoff and drainage.

Storm Water Management Program (SWMP) refers to a comprehensive program to manage the quality of storm water discharged from the municipal separate storm sewer system.

SWMP is an acronym for “Storm Water Management Program.”

**APPENDIX A
Verbatim Text Excerpts of OKR04
(February 8, 2005)**

PART I.B TYPES OF AUTHORIZED DISCHARGES

1. Storm Water Discharges

This permit authorizes discharges from small MS4s to waters of the State except as listed in PART I.C.

2. Authorized Non-Storm Water Discharges

You are authorized to discharge the following non-storm water sources provided you have not determined these sources to be substantial contributors of pollutants to your SMS4. Your list of allowable non-storm water discharges and determination documentation must be included in your SWMP.

- x. Water line flushing
- y. Landscape irrigation
- z. Diverted stream flows
- aa. Rising ground waters
- bb. Residential building wash water without detergents
- cc. Uncontaminated pumped ground water
- dd. Uncontaminated ground water infiltration
- ee. Discharges from potable water sources

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- ff. Foundation drains
 - gg. Air conditioning condensate
 - hh. Irrigation water
 - ii. Springs
 - jj. Water from crawl space pumps
 - kk. Footing drains
 - ll. Lawn watering
 - mm. Individual residential car washing
 - nn. De-chlorinated swimming pool discharges
 - oo. Street wash water
 - pp. Fire hydrant flushings
 - qq. Non-commercial or charity car washes
 - rr. Discharges from riparian areas and wetlands
 - ss. Discharges in compliance with a separate Oklahoma Pollutant Discharge Elimination System (OPDES) or National Pollutant Discharge Elimination System (NPDES) NPDES permit.
 - tt. Discharges or flows from emergency fire fighting activities provided procedures are in place for the Incident Commander, Fire Chief or other on-scene fire fighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. Measures must be taken to reduce any such pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. These procedures must be documented in your SWMP. Discharges or flows from fire fighting training activities are not authorized by this permit.
-

PART I.C LIMITATIONS ON COVERAGE

This permit does not authorize:

1. Discharges Mixed with Non-Storm Water

Unless such discharges are:

- a. In compliance with a separate OPDES or NPDES permit, or
- b. Determined not to be a substantial contributor of pollutants to waters of the State in accordance with PART I.B.2. of this permit.

2. Storm Water Discharges Associated with Industrial Activity

As defined in OAC 252.606-1-3 (b)(3) adopting and incorporating by reference 40 CFR §122.26(b)(14)(i)-(ix) and (xi).

3. Storm Water Discharges Associated with Construction Activity

As defined in OAC 252.606- 1-3 (b)(3) adopting and incorporating by reference 40 CFR §122.26(b)(14)(x) or 40 CFR §122.26(b)(15), except as provided by PART VIII.

4. Storm Water Discharges Currently Covered under Another Permit

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5. Discharges Exceeding Water Quality Standards

Your storm water management program must include a description of the Best Management Practices (BMPs) and other measures that you will be using to ensure that discharges that would cause or contribute to any water quality standards exceedence will not occur. The DEQ may require corrective action or an application for an individual permit or alternative general permit if an SMS4 is determined to cause or contribute to an exceedence of water quality standards.

6. Discharges not consistent with a Total Maximum Daily Load (TMDL)

Discharge of a pollutant into any water for which a Total Maximum Daily Load (TMDL) for that pollutant has been either established or approved by the DEQ or EPA is prohibited, unless your discharge is consistent with that TMDL. You must incorporate into your SWMP any conditions necessary to ensure discharges are consistent with the assumptions and requirements of any such TMDL. This eligibility condition applies at the time you submit a Notice of Intent for coverage.

If conditions change after you have permit coverage, you may remain covered by the permit provided you comply with the applicable requirements of PART III. For discharges not eligible for coverage under this permit, you must apply for and receive an individual or other applicable general OPDES permit.

PART III. SPECIAL CONDITIONS

Part III.A COMPLIANCE WITH WATER QUALITY STANDARDS

1. Operators seeking coverage under this permit shall not be causing or have the reasonable potential to cause or contribute to a violation of a water quality standard. If you have discharges to receiving waters included on the latest CWA § 303(d) list of impaired waters, you must document in your SWMP how you will comply with this requirement.
2. Where a discharge is already authorized under this general permit and is later determined to cause or contribute to the in-stream exceedence of an applicable water quality standard, DEQ will notify you. You must take all necessary actions to ensure that future discharges do not cause or contribute to in-stream exceedence of a water quality standard and must document these actions in the SWMP. If an exceedence remains or recurs, the coverage under this general permit may be terminated by the DEQ and the DEQ may require an application for coverage under an alternative general permit or an individual permit.
3. Compliance with this requirement does not preclude any enforcement activity as provided by the Clean Water Act for the underlying violation.

PART III.B ESTABLISHED TOTAL MAXIMUM DAILY LOAD ALLOCATIONS

1. If a TMDL is established for any water body into which you discharge prior to the date that you submit a NOI, and if that TMDL includes a waste load allocation or load allocation for a parameter likely to be discharged by the MS4, your discharges must meet the requirements of the TMDL and/or its associated implementation plan within any timeframes established in the TMDL. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL.
2. If a TMDL is approved for any water body into which you discharge after the date that you submit a NOI, you must incorporate any limitations, conditions, and

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requirements applicable to your discharges into your SWMP to ensure that the waste load allocation, load allocation and/or the TMDL's associated implementation plan will be met within any timeframes established in the TMDL. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL.

PART IV. STORM WATER MANAGEMENT PROGRAM

PART IV.A REQUIREMENTS

You must develop, implement, and enforce a storm water management program designed to reduce the discharge of pollutants from your MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. The storm water management program should include management practices; control techniques and system, design, and engineering methods; and such other provisions as the Director determines appropriate for the control of such pollutants. You must fully implement your SWMP, including its measurable goals, no later than five years from the effective date of this permit unless the director specifies a different deadline. Your storm water management program must include the following information for each of the six minimum control measures described in PART IV.C.

1. Best Management Practices (BMPs)

List and define the BMPs that you or another entity will implement for each of the storm water minimum control measures listed in PART IV.C.

2. Measurable Goals For Each BMP

Include, as appropriate, the months and years in which you will undertake required actions, including interim milestones and the frequency of the action. Program development and implementation schedules must provide for full implementation of the complete SWMP as soon as practicable, but no later than five years from the effective date of the permit unless the director specifies a different deadline. Credible interim progress in developing and implementing program elements must be made over the term of the permit.

3. Responsible Person or Persons

Identify who will be responsible for implementing or coordinating the BMPs for your storm water management program.

4. Rationale

Provide a rationale for how and why you selected each of the BMPs and measurable goals for your storm water management program. The information required for such a rationale is given in PART IV.C. for each minimum measure.

5. Sharing Responsibility

Implementation of one or more of your storm water minimum control measures may be shared with another government entity or may be fully implemented by another government entity. You may rely on another government entity only if:

- a. The other government entity implements the control measure;
- b. The particular control measure, or component of that measure, is at least as stringent as the corresponding permit requirement;

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- c. The other government entity agrees to implement the control measure on your behalf. Written acceptance of this obligation is required. This obligation must be maintained as part of the description of your storm water management program. If the other government entity agrees to report on the minimum measure, you must supply the other government entity with the reporting requirements contained in PART V.C. If the other government entity fails to implement the control measure on your behalf, then you remain responsible for compliance with permit obligations.

PART IV.B REQUIRED STORM WATER MANAGEMENT PROGRAM UPDATES

DEQ may notify you that changes to your SWMP are necessary:

1. To address impacts on receiving water quality caused, or contributed to, by discharges from the Municipal Separate Storm Sewer System;
2. To include more stringent requirements necessary to comply with new Federal statutory or regulatory requirements;
3. To include such other conditions deemed necessary by the Director to comply with the goals and requirements of the Clean Water Act; or
4. If at any time the director determines that your SWMP does not meet permit requirements.

Changes requested by the Director must be made in writing, set forth the time schedule for you to develop the changes, and offer you the opportunity to propose alternative program changes to meet the objective of the requested modification. Within the time schedule provided, you must submit a copy of the revisions made to the SWMP.

PART IV.C MINIMUM CONTROL MEASURES

The six minimum control measures that must be included in your storm water management program are listed below. A seventh optional control measure is described in PART VIII.

1. Public Education and Outreach Program

a. Permit Requirements

You must develop and implement a public education and outreach program to distribute information and educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

- (1) Traditional municipalities such as cities, counties, etc. must address the general public being served by the MS4.
- (2) Non-traditional municipalities such as universities, hospital complexes, prisons, special districts, etc. and federal facilities must address the community served by the MS4. For example, at a university it would be the faculty, other staff, students, and visitors, while at a military base, it would include military personnel (and dependents) contractors, employees, tenants, visitors, etc.
- (3) Departments of transportation must address the community working on or served by the transportation network within the MS4 including employees, contractors, and the general public.

b. Rationale

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You must develop and document a storm water public education and outreach program to address both your overall public education program and the individual BMPs and measurable goals, identifying the responsible people for your program. The rationale must include the following information, at a minimum:

- (1) How you plan to inform individuals and households about the steps they can take to reduce storm water pollution;
- (2) How you plan to inform individuals and groups on how to become involved in the storm water program with activities such as local stream and beach restoration activities;
- (3) The target audiences for your education program that are likely to have significant storm water impacts (including commercial, industrial and institutional entities) and why those target audiences were selected;
- (4) The target pollutant sources your public education program is designed to address;
- (5) Your outreach strategy, including the mechanisms (e.g., printed brochures, newspapers, media, workshops, etc.) you will use to reach your target audiences, and how many people you expect to reach by your outreach strategy over the permit term;
- (6) Identify who is responsible for overall management and implementation of your storm water public education and outreach program and, if different, who is responsible for each of the BMPs identified for this program;
- (7) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

2. Public Participation and Involvement

a. Permit requirement

- (1) Develop and implement a plan to encourage public involvement and participation in the development and implementation of the SWMP.
- (2) Develop and implement a process by which public comments on the SWMP are received and reviewed by the person(s) responsible for the SWMP.
- (3) Make the SWMP and NOI available to the public.
- (4) You must comply with State and local public notice requirements when implementing your public involvement/participation program.

b. Rationale

You must document your decision process for the development of a storm water public involvement and participation program. Your rationale must address your overall public participation and involvement program, and the individual BMPs and measurable goals. List the names of the responsible persons for your program. The rationale must include the following information, at a minimum:

- (1) How you will receive and review public comments on your SWMP and document responses to issues raised;
- (2) How you will involve the public in the development and submittal of your NOI and storm water management program. How the public can access your NOI and SWMP;

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- (3) Your plan to actively involve the public in the development and implementation of your program;
- (4) The target audiences for your public involvement program, including a description of the types of ethnic and economic groups engaged. You are encouraged to actively involve all potentially affected stakeholder groups, including commercial and industrial businesses, trade associations, environmental groups, homeowners associations, and educational organizations, among others, to ensure a balanced consideration all viewpoints;
- (5) The types of public involvement activities included in your program. Where appropriate, consider the following types of public involvement activities:
 - (a) Citizen representatives on a storm water management panel
 - (b) Public hearings and public meetings
 - (c) Working with citizen volunteers willing to educate others about the program
 - (d) Volunteer monitoring or stream clean-up activities
- (6) Identify who is responsible for the overall management and implementation of your storm water public involvement/participation program and, if different, who is responsible for each of the BMPs identified for this program;
- (7) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

3. Illicit Discharge Detection and Elimination

a. Permit Requirements

- (1) Develop, implement and enforce a program to detect and eliminate illicit discharges into your SMS4, including a dry weather field screening program to identify non-storm water flows.
- (2) Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the state that receive discharges from those outfalls.
- (3) To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into your storm sewer system and implement appropriate enforcement procedures and actions. Where the permittee lacks legal authority for direct enforcement action, the program must include procedures to notify the DEQ when a party fails to comply with procedures or policies established by the permittee. The permittee may rely on the DEQ for assistance in enforcement of this provision of the permit in these cases.
- (4) Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to your system;
- (5) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste;
- (6) Develop a list of occasional incidental non-storm water discharges or flows as allowed in PART I.B.2. that will not be addressed as illicit discharges. These non-storm water discharges must not be reasonably expected (based on information available to the permittee) to be significant sources of pollutants to the SMS4,

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because of either the nature of the discharges or conditions you have established for allowing these discharges to your SMS4 (e.g., a charity car wash with appropriate controls on frequency, proximity to sensitive water bodies, BMPs on the wash water, etc.). You must document in your SWMP any local controls or conditions placed on the discharges. You must include a provision prohibiting any individual non-storm water discharge that is determined to be contributing significant amounts of pollutants to your MS4.

b. Rationale

You must document your decision process for the development of a storm water illicit discharge detection and elimination program. Your rationale must address your overall illicit discharge detection and elimination program and the individual BMPs, measurable goals, and responsible persons for your program. The rationale must include the following information, at a minimum:

- (1) How you will develop a storm sewer map showing the location of all outfalls and the names and location of all receiving waters. Describe the sources of information you will use for the maps and how you plan to verify the outfall locations with field surveys. If already completed, describe how you developed this map. Describe how your map will be regularly updated.
- (2) Describe the mechanism (ordinance or other regulatory mechanism) you will use to effectively prohibit illicit discharges into the SMS4 and why you chose that mechanism. If you need to develop this mechanism, describe your plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your program.
- (3) Describe your plan to ensure through appropriate enforcement procedures and actions that your illicit discharge ordinance (or other regulatory mechanism) is implemented.
- (4) Describe your plan to detect and address illicit discharges to your system, including discharges from illegal dumping and spills. Your dry weather field screening plan to detect illicit discharges can rely on visual indicators and simple field test kits for most work where you are looking for indications of a problem. Laboratory methods could be reserved for situations where you have identified a problem and need to prove that you have traced the problem to a particular illicit discharger. Your description must address the following, at a minimum:
 - (a) Procedures for locating priority areas which includes areas with higher likelihood of illicit connections (e.g., areas with older sanitary sewer lines, for example) or ambient sampling to locate impacted reaches.
 - (b) Procedures to address on-site sewage disposal systems that flow into your storm drainage system.
 - (c) Procedures for tracing the source of an illicit discharge, including the specific techniques you will use to detect the location of the source.
 - (d) Procedures for removing the source of the illicit discharge.
 - (e) Procedures for program evaluation and assessment.
- (5) Describe how you plan to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste. Include in your description how this plan will coordinate with your public education minimum measure and your pollution prevention/good

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housekeeping minimum measure programs.

- (6) Identify who is responsible for overall management and implementation of your storm water illicit discharge detection and elimination program and, if different, who is responsible for each of the BMPs identified for this program.
- (7) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

4. Construction Site Storm Water Runoff Control

a. Permit Requirements

You must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to your MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of storm water discharges from construction activity disturbing less than one acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. Your program must include the development and implementation of, at a minimum:

- (1) An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law;
- (2) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;
- (3) Requirements for construction site operators to control waste at the construction site that may cause adverse impacts to water quality such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste;
- (4) Procedures for site plan review which incorporate consideration of potential water quality impacts including erosion and sediment control, control of other wastes, and any other impacts that must be examined according to the requirements of the local ordinance or other regulatory mechanism;
- (5) Procedures for receipt and consideration of information submitted by the public;
- (6) Procedures for site inspection and enforcement of control measures including enforcement escalation procedures for recalcitrant or repeat offenders. Where the permittee lacks legal authority for direct enforcement action, the program must include procedures to notify the DEQ if a construction site operator fails to comply with procedures or policies established by the permittee. The permittee may rely on DEQ for assistance in enforcement of this provision of the permit in these cases.

b. Rationale

You must document your decision process for the development of a construction site storm water control program. Your rationale must address your overall construction site storm water control program and the individual BMPs, measurable goals, and responsible persons for your program. The rationale must include the following information, at a minimum:

- (1) Describe the mechanism (ordinance or other regulatory mechanism) you will use to require erosion and sediment controls at construction sites and why you chose that mechanism. If you need to develop this mechanism, describe your

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plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your storm water management program description.

- (2) Your plan to ensure compliance with your erosion and sediment control regulatory mechanism, including the sanctions and enforcement mechanisms you will use to ensure compliance. Describe your procedures for when you will use certain sanctions. Possible sanctions include non-monetary penalties (such as stop work orders), fines, bonding requirements, legal action, and/or permit denials for non-compliance.
- (3) Your requirements for construction site operators to implement appropriate erosion and sediment control BMPs and control waste at construction sites that may cause adverse impacts to water quality. Such waste includes discarded building materials, concrete truck washouts, chemicals, litter, and sanitary waste.
- (4) Your procedures for site plan review, including the review of pre-construction site plans, which incorporate consideration of potential water quality impacts.
- (5) Your procedures for receipt and consideration of information submitted by the public. Consider coordinating this requirement with your public education and public participation programs.
- (6) Your procedures for site inspection and enforcement of control measures, including notification of DEQ if you lack legal authority for direct enforcement.
- (7) Identify who is responsible for overall management and implementation of your construction site storm water control program and, if different, who is responsible for each of the BMPs identified for this program.
- (8) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

5. Post-Construction Management in New Development and Redevelopment

a. Permit Requirements

- (1) Develop, implement, and enforce a program to address storm water 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, that discharge into your SMS4. Your program must ensure that controls are in place that would prevent or minimize water quality impacts;
- (2) Develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for your community;
- (3) 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) Ensure adequate long-term operation and maintenance of BMPs.

b. Rationale

You must document your decision process for the development of a post-construction storm water management program. Your rationale must address your

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overall post-construction storm water management program and the individual BMPs, measurable goals, and responsible persons for your program. The rationale must include the following information, at a minimum:

- (1) A description of your program to address storm water runoff from new development and redevelopment projects. Include in this description any specific priority areas for this program.
- (2) How your program will be specifically tailored for your local community, minimize water quality impacts, and attempt to maintain pre-development runoff conditions?
- (3) Any non-structural BMPs in your program, including, as appropriate:
 - (a) Policies and ordinances that provide requirements and standards to direct growth to identified areas, protect sensitive areas such as wetlands and riparian areas, maintain and/or increase open space (including a dedicated funding source for open space acquisition), provide buffers along sensitive water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation;
 - (b) Policies or ordinances that encourage infill development in higher density urban areas, and areas with existing storm sewer infrastructure;
 - (c) Education programs for developers and the public about project designs that minimize water quality impacts; and
 - (d) Other measures such as minimization of the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, and source control measures often thought of as good housekeeping, preventive maintenance and spill prevention.
- (4) Any structural BMPs in your program, including, as appropriate:
 - (a) Storage practices such as wet ponds and extended-detention outlet structures;
 - (b) Filtration practices such as grassed swales, bioretention cells, sand filters and filter strips;
 - (c) Infiltration practices such as infiltration basins and infiltration trenches
- (5) Describe the mechanisms (ordinance or other regulatory mechanism) you will use to address post-construction runoff from new developments and redevelopments and why you chose that mechanism. If you need to develop a mechanism, describe your plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your program.
- (6) How you will ensure the long-term operation and maintenance (O&M) of your selected BMPs. Options to help ensure that future O&M responsibilities are clearly identified include any agreement between you and another party such as the post-development landowners or regional authorities.
- (7) Identify who is responsible for overall management and implementation of your post-construction storm water management program and, if different, who is responsible for each of the BMPs identified for this program.

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- (8) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

6. Pollution Prevention/Good Housekeeping For MS4 Operations

a. Permit Requirements

- (1) 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 MS4 operations;
- (2) Using training materials that you develop or that are available from EPA, the DEQ, or other organizations, your program must include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

b. Rationale

You must document your decision process for the development of a pollution prevention/good housekeeping program for MS4 operations. Your rationale must address your overall pollution prevention/good housekeeping program and the individual BMPs, measurable goals, and responsible persons for your program. The rationale must include the following information, at a minimum:

- (1) Describe your operation and maintenance program to prevent or reduce pollutant runoff from your MS4 operations. You must specifically list the MS4 operations that are impacted by this program.
- (2) Provide a list of industrial facilities you own or operate that are subject to the DEQ Multi-Sector General Permit or individual OPDES or NPDES permits for discharges of storm water associated with industrial activity that ultimately discharge to your SMS4. Include the authorization number or a copy of the Industrial NOI form for each facility.
- (3) Describe the employee training program you will use to prevent and reduce storm water pollution from MS4 activities. Describe any existing, available materials you plan to use. Describe how this training program will be coordinated with the outreach programs developed for the public information minimum measure and the illicit discharge minimum measure.
- (4) Your program description must specifically address the following areas:
 - (a) Maintenance activities, maintenance schedules, and long-term inspection procedures for controls to reduce floatables and other pollutants to your SMS4.
 - (b) Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, and salt/sand storage locations and snow disposal areas you operate.
 - (c) Procedures for the proper disposal of waste removed from your MS4 and your MS4 operations, including dredge spoil, accumulated sediments, floatables, and other debris.

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- (d) Procedures to ensure that new flood management projects are assessed for impacts on water quality and existing projects are assessed for incorporation of additional water quality protection devices or practices.
- (5) Identify who is responsible for overall management and implementation of your pollution prevention/good housekeeping program and, if different, who is responsible for each of the BMPs identified for this program.
- (6) How you will evaluate the success of this minimum measure, including how you selected the measurable goals and target dates for each of the BMPs.

PART IV.D REVIEWING AND UPDATING THE STORM WATER MANAGEMENT PROGRAM

1. Storm Water Management Program Review

You must conduct an annual review of your Storm Water Management Program in conjunction with preparation of the annual report required under PART V.C.

2. Storm Water Management Program Update

You may change your Storm Water Management Program during the life of the permit in accordance with the following procedures:

- a. Changes adding (but not subtracting or replacing) components, controls, or requirements to the Storm Water Management Program may be made at any time upon written notification to the Director.
- b. Changes replacing an ineffective or unfeasible BMP specifically identified in the Storm Water Management Program with one or more alternate BMP(s) may be requested at any time. Unless denied by the Director, changes proposed in accordance with the criteria below shall be deemed approved and may be implemented 60 days from submittal of the request. If your request is denied, the Director will send you a written response giving a reason for the decision. Your modification requests must include the following:
 - (1) An analysis of why the BMP is ineffective or infeasible (including cost prohibitive)
 - (2) Expectations on the effectiveness of the replacement BMP
 - (3) An analysis of why the replacement BMP is expected to achieve the goals of the BMP to be replaced.
- c. Change requests or notifications must be made in writing and signed in accordance with PART VI.H.

PART V. MONITORING, RECORD KEEPING, AND REPORTING

PART V.A MONITORING

1. Designing Your Monitoring Program

You must evaluate program compliance, the appropriateness of identified best management practices, and progress toward achieving identified measurable goals. If you discharge to a water of the state for which a TMDL has been approved, you may have additional monitoring requirements under PART III of this permit.

2. Conducting Monitoring

If you plan to conduct monitoring, you are required to comply with the following:

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a. Representative monitoring

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

b. Laboratory Methods

If laboratory analysis is conducted it must be conducted according to test procedures approved under 40 CFR part 136.

3. Records of Monitoring information

Monitoring records must include:

- a. The date, exact place, and time of sampling or measurements;
- b. The name(s) of the individual(s) who performed the sampling or measurements;
- c. The date(s) analysis were performed;
- d. The names of the individuals who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results or observations of such analyses.

4. Discharge Monitoring Report

The reporting of monitoring results may be required, by the Executive Director, to be submitted on a Discharge Monitoring Report (DMR).

PART V.B RECORD KEEPING

1. Retain Records of All Monitoring Information

Include all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, copies of Discharge Monitoring Reports (DMRs), a copy of the OPDES permit, and records of all data used to complete the NOI for this permit, for a period of at least three years from the date of the sample, measurement, report or application, or for the term of this permit, whichever is longer. This period may be extended by request of the Director at any time.

2. Submit Your Records

Mail your completed DMR reports, if required, to the DEQ along with your annual report. You must retain a description of the Storm Water Management Program required by this permit (including a copy of the permit language) at a location accessible to the Director. You must make your records, including the NOI and the description of the storm water management program, available to the public.

PART V.C ANNUAL REPORTS

1. You must submit an annual report for each permit year to the Director of the DEQ. Mail your report to the address specified in PART II.C. Your annual report must be received within (60) days after the anniversary date of your permit. The anniversary date of your permit is the effective date of the authorization to discharge, which you receive from DEQ. Each report must contain information regarding activities of the previous permit year. Each report must include:

- a. The status of your compliance with permit conditions, an assessment of the appropriateness of the identified best management practices, progress towards achieving the statutory goal of reducing the discharge of pollutants to the Maximum

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- Extent Practicable (MEP), and progress toward achieving the measurable goals for each of the minimum control measures;
- b. Results of information collected and analyzed, if any, during the reporting period, including monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP;
 - c. A summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule);
 - d. Proposed changes to your storm water management program, including changes to any BMPs or any identified measurable goals that apply to the program elements;
 - e. Description and schedule for implementation of any additional BMPs or monitoring that may be necessary to ensure compliance with any applicable TMDL;
 - f. Notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable) and a copy of the written agreement with that entity.
2. If the optional permit requirement is elected you must also include in your Annual Report a progress report concerning the elected optional permit requirements. At a minimum this must include:
- a. The number of your active construction sites that are currently covered under the elected optional permit requirement;
 - b. The number of construction projects that were started during the reporting period;
 - c. The number of construction projects that were completed during the reporting period;
 - d. The number of construction sites that were covered under the elected optional permit requirement that have reached final stabilization.

PART VIII. OPTIONAL PERMIT REQUIREMENTS FOR MUNICIPAL CONSTRUCTION ACTIVITIES

PART VIII.A OPTIONAL FOR SMALL MS4s SEEKING COVERAGE FOR MUNICIPAL CONSTRUCTION ACTIVITIES UNDER THIS PERMIT

The development of this optional permit requirement for municipal construction activities is an alternative for the SMS4 operator seeking coverage under this permit. Additionally, contractors working for the SMS4 operator are not required to obtain separate authorization as long as the contractor does not meet the definition of “construction site operator”, but does remain compliant with the conditions of this permit. Permittees that choose to develop this option will be authorized by this permit to discharge storm water and certain non-storm water from construction activities where the permittee can meet the definition of “construction site operator”. For permittees that choose to develop this measure, it shall be part of the SWMP submitted with the initial NOI. You must comply with the requirements in PART VIII.B.

If you choose not to develop this optional measure, then you must submit a NOI and seek coverage under the DEQ general permit for storm water discharges from construction activities, which require permit coverage.

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1. Electing the Optional Permit Requirements

If this optional permit requirement is elected you must include in your SWMP:

- a. Description of how construction activities will generally be conducted by the permittee. Local conditions and other site specific considerations must be included in the description;
- b. Map or description of the geographical boundaries where the construction activities will take place and be covered under this optional permit requirement. Local government entities are allowed use of PART VIII of this permit for storm water discharges related to construction activities within the boundaries of your legal authority;
- c. Description of how the permittee will ensure that the SWP3 requirements are properly implemented and maintained at the construction site; or how the permittee will ensure that the contractors obtain a separate authorization for storm water discharges from the DEQ for each project;
- d. General SWP3 conditions and a procedure to include site specific BMPs to account for local considerations.

APPENDIX B: SUMMARY OF BEST MANAGEMENT PRACTICES

The Village / Oklahoma County:

BEST MANAGEMENT PRACTICES	PUB. ED.	PUB. PAR.	IL. DSCH.	CNST.	POST CNST.	GOOD HSKP.	PERSON RESPONSIBLE FOR BMP IF DIFFERENT THAN DESIGNATEE
Education Materials							
Water quality impacts from urban stormwater	X	X	X				
Household chemical disposal options	X	X	X				
Proper on-site sewage disposal system maintenance	X	X	X				
Chemical storage and disposal at businesses	X	X	X				
Construction / erosion control BMPs				X	X		
Post-construction / erosion control BMPs					X		
City good house-keeping options						X	
How to become involved in stormwater program	X	X	X				
Recycling and re-use benefits	X	X	X				
Chemical storage and disposal at city facilities						X	
Training Topics for City Staff							
Storage and disposal of chemicals at city facilities			X			X	
Water quality impacts and regulations	X					X	
Data quality and data management			X				
How to conduct inspections effectively			X	X	X	X	
Stormwater and city activities						X	
MS4 Mapping							
Develop MS4 map with outfalls and streams			X				
Collect map data and set priority areas			X				

The City of The Village has designated Bruce K. Stone , City Manager, as the primary staff person responsible for making supervisory decisions over implementing all Phase II stormwater BMPs and activities.

In the event the primary official is not available, alternates are hereby designated:
 Eric Knight, Building Inspector
 Larry Walton, Public Works Director

TABLE 1 - BMPs and Minimum Control Measures (Continued):

The Village / Oklahoma County

BEST MANAGEMENT PRACTICES	PUB. ED.	PUB. PAR.	IL. DSCH	CNST.	POST CNST.	GOOD HSKP.	PERSON RESPONSIBLE FOR BMP IF DIFFERENT THAN DESIGNATEE
Administrative							
Adopt illicit discharge ordinance			X				
Adopt construction ordinance				X			
Adopt post-construction ordinance					X		
Comply with state and local public notification	X	X					
Program to receive information from the public	X	X	X				
Site Plan review to include water quality				X	X		
Support regional agency-sponsored seminars	X	X	X	X	X	X	
Discuss Phase II in city council meetings	X	X	X	X	X		
Collect local and regional pollution data			X				
Develop stormwater web site	X	X	X	X	X	X	
Community Involvement							
Create signs for community education	X						
Create signs for city work areas						X	
Blue Thumb school presentations	X	X					
Blue Thumb volunteer stream monitoring	X	X	X				
Blue Thumb stormdrain marking	X	X	X			X	
Blue Thumb stream cleanup events	X	X	X				
Promote household pollutant collection event and HHW disposal services	X	X	X				
Promote recycling	X	X	X				
Distribute items with water quality logos	X						
Inspections							
Complaint investigations for MS4 system			X			X	
Source tracking of pollutants in MS4 system			X			X	
Inspection of construction sites and activities			X	X	X		
Good housekeeping inspections of city property			X			X	

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APPENDIX C: SCHEDULE OF BMP IMPLEMENTATION AND MEASURABLE GOALS

City / County: The Village / Oklahoma			
BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
First Year of Program (2005)			
1	Develop printed <u>education materials</u> ; begin distribution at city hall, city maintenance areas, local businesses, local festival.	Dec-05 begin printing and distribution, continue next year.	50 of each brochure type distributed.
2	Attend regional <u>training seminars</u> of appropriate city staff and public works crews, 20% attendance goal first year.	Dec-05 regional training modules completed, attend first seminar 2006.	20% of eligible staff and crew attend.
3	Begin initial <u>map</u> of system, receiving streams and outfalls.	Draft map in progress through first year.	Draft map in progress.
4	Prepare <u>ordinances</u> for illicit discharge, construction and post-construction.	Dec-05 complete adoption of ordinances	Ordinances adopted
5	Develop program to <u>receive information from the public</u> on MS4 and stormwater, including forms and city communication.	Dec-05 have rough draft of process outlined and draft forms in progress.	Draft strategy and draft forms in progress.
6	Develop strategy for implementing water quality consideration in <u>site plan reviews</u> .	Sep-05 have strategy in draft concept.	Draft strategy in progress.
7	Promote and attend a <u>regional seminar</u> or conference on phase II stormwater or urban water quality issues.	No action.	No activity.
8	Discuss Phase II stormwater and stormwater quality topics in <u>public meetings</u> .	Nov-05 present information to the public in a public meeting.	Staff report to city council.
9	Collect local <u>pollution data</u> from various resources.	Jul-05 begin to define data needs data.	List of data needs.
10	Develop stormwater <u>website</u> .	Oct-05 initial development of website completed.	Basic information for public posted.
11	Post <u>signs</u> at city buildings about water quality and proper handling and disposal of chemicals.	Dec-05 purchase / create signs.	Materials obtained and ready for use.
12	<u>Blue Thumb school education</u> program: promote and coordinate data.	Dec-05 negotiate with Conservation District on activities	Define Blue Thumb scope.
13	<u>Blue Thumb volunteer stream monitoring</u> program: promote and coordinate data.	Dec-05 negotiate with Conservation District on activities and site(s)	Define Blue Thumb scope.
14	<u>Blue Thumb stormdrain marking</u> program using citizens and local organizations.	Dec-05 negotiate with Conservation District on activities and site(s)	Define Blue Thumb scope.
15	<u>Blue Thumb stream clean-up event</u> : sponsor, city crews participate in local stream or roadside clean-up event.	Dec-05 negotiate with Conservation District on activities and site(s)	Define Blue Thumb scope.

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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
16	Household <u>Pollutant Collection Event</u> : promote and fund city event. Provide household hazardous waste collection services (Oklahoma City Center)	<u>Oct-05</u> promote and fund local event	One local event held.
17	Provide household hazardous waste collection services (Oklahoma City Center, COMEA)	<u>Dec-05</u> enter contracts for service.	Contracts for service in effect.
18	<u>Recycling</u> : funding and promotion of local curbside AND/OR DROP OFF CENTER recycling in city.	<u>Dec-05</u> put program in place.	Recycling program operational
19	<u>Give-away items</u> with water quality logos: distribute at public events and meetings.	<u>Dec-05</u> develop logo messages and purchase items.	Completed purchases.
20	Conduct <u>MS4 inspections</u> based upon incident reports and observations made by city crews.	<u>Dec-05</u> prepare inspection forms and procedures.	Draft forms and procedures.
21	Conduct <u>construction site inspections</u> based upon incident reports and observations made by city crews.	<u>Dec-05</u> prepare inspection forms and procedures.	Draft forms and procedures.
22	Conduct <u>inspections of city facilities</u> and maintenance yards for control of chemicals.	<u>Dec-05</u> prepare inspection forms and procedures.	Draft forms and procedures.
Second Year of Program (2006)			
1	Continue distribution of <u>education materials</u>	Throughout second year.	50 of each brochure type distributed.
2	Continue attending regional <u>training</u> , another 20% of staff	<u>Apr-06</u> and <u>Oct-06</u> attend 2 training seminars.	20% of eligible staff and crew attend.
3	Complete first draft of system <u>map</u>	<u>Jul-06</u> complete first draft.	Completed first draft of map.
4	City council adoption of <u>ordinances</u>	Completed	3 ordinances adopted.
5	Implement process for including water quality consideration in <u>site plan reviews</u>	<u>Jul-06</u> begin implementation.	Strategy in place.
6	Promote and attend a <u>regional seminar</u> or conference on phase II stormwater or urban water quality	<u>Mar-06</u> attend regional seminar.	At least 4 city crew/staff attend.
7	Discuss Phase II stormwater and stormwater quality topics in <u>public meetings</u>	<u>Nov-06</u> present information to the public in a public meeting.	Outside agency report to city council.
8	Collect local <u>pollution data</u> from various resources	Throughout second year.	Obtain half of data needed.
9	Develop stormwater website	<u>Oct-06</u> modify and update website, as needed.	Updates completed.

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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
10	Post <u>signs</u> at city buildings about water quality and proper handling and disposal of chemicals	Dec-06 place signs on city buildings.	3 city building signs.
13	<u>Blue Thumb school education</u> program: promote and coordinate data.	Jun-06 Blue Thumb conducts school education program.	One classroom activity done.
14	<u>Blue Thumb volunteer stream monitoring</u> program: promote and coordinate data.	Monthly - Blue Thumb trains and conducts volunteer monitoring.	12 monitoring events.
15	<u>Blue Thumb stormdrain marking</u> program using citizens and local organizations.	Monthly - Blue Thumb coordinates stormdrain marking activities.	30 stormdrains marked.
16	<u>Household Pollutant Collection Event</u> : promote and help fund city portion of event	Apr-06 promote and fund local event	One local event held.
17	Provide household hazardous waste collection services (Oklahoma City Center, COMEA)	Continue current program	Continue disposal service
18	<u>Curbside Recycling</u> : funding and promotion of local curbside and/or drop off center recycling in city.	Monthly operate monthly collection program and promote	Materials recycled and brochures used.
19	<u>Give-away items</u> with water quality logos: distribute at public events and meetings.	Daily distribute logo items at events, in public meetings and at city hall.	Distribute 100 items during year.
20	Conduct <u>MS4 inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Compile first year's number of incidents
21	Conduct <u>construction site inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Compile first year's number of incidents
22	Conduct <u>inspections of city facilities</u> and maintenance yards for control of chemicals.	Semi-annually conduct inspections and correct problems.	Compile first year's corrections.
23	Develop dry weather field screening program to identify non-storm water flows.	Dec 06. Conduct field survey to identify sources of non-storm water flows	Complete survey and record results
Third Year of Program (2007)			
1	Continue distribution of <u>education materials</u>	Throughout third year.	50 of each brochure type distributed.
2	Continue attending regional <u>training</u> , another 20% of staff	Apr-07 and Oct-07 attend 2 training seminars.	20% of eligible staff and crew attend.
3	Review and update draft of system <u>map</u>	Jul-07 update first draft.	Amendments to map, if needed.
4	Review usefulness of <u>ordinances</u> and make changes as needed	Aug-07 have council adopt amendments, if needed.	Review and update ordinances.

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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
5	Review usefulness of <u>public information process</u> and update, if needed	Oct-07 implement changes to process.	Amend process, if needed.
6	Review and amend process for including water quality consideration in <u>site plan reviews</u>	Jul-07 amend process, if needed.	Amendments, if needed.
7	Promote and attend a <u>regional seminar</u> or conference on phase II stormwater or urban water quality issues	No action.	No activity.
8	Discuss Phase II stormwater and stormwater quality topics in <u>public meetings</u>	Nov-07 present information to the public in a public meeting.	Staff report to city council.
9	Collect local <u>pollution data</u> from various resources	Throughout third year.	Obtain rest of data needed.
10	Develop stormwater website	Oct-07 modify and update website, as needed.	Updates completed.
12	Post <u>signs</u> at city buildings about water quality and proper handling and disposal of chemicals	Dec-07 place signs on city buildings.	3 city building signs.
13	<u>Blue Thumb school education</u> program: promote and coordinate data.	Dec-07 Blue Thumb conducts school education program.	Two classroom activities done.
14	<u>Blue Thumb volunteer stream monitoring</u> program: promote and coordinate data.	Monthly - Blue Thumb trains and conducts volunteer monitoring.	12 monitoring events.
15	<u>Blue Thumb stormdrain marking</u> program using citizens and local organizations.	Monthly - Blue Thumb coordinates stormdrain marking activities.	30 stormdrains marked.
16	<u>Blue Thumb stream clean-up event</u> : sponsor, city crews participate in local stream or roadside clean-up event.	Sep-07 host / participate in local clean-up event.	Event held.
17	Household <u>Pollutant Collection Event</u> : promote and fund city event	Apr-07 promote and fund local event	One local event held.
18	Provide household hazardous waste collection services (Oklahoma City Center, COMEA)	Continue current program	Continue disposal services
19	<u>Recycling</u> : funding and promotion of local curbside recycling in city.	Continue current program	Monthly curbside collection of recyclables
20	<u>Give-away items</u> with water quality logos: distribute at public events and meetings.	Daily distribute logo items at events, in public meetings and at city hall.	Distribute 200 items during year.
21	Conduct <u>MS4 inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents
22	Conduct <u>construction site inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents

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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
23	Conduct <u>inspections of city facilities</u> and maintenance yards for control of chemicals.	Semi-annually conduct inspections and correct problems.	Reduced number of problems
Fourth Year of Program (2008)			
1	Continue distribution of <u>education materials</u>	Throughout fourth year.	50 of each brochure type distributed.
2	Continue attending regional <u>training</u> , another 20% of staff	Apr-08 and Oct-08 attend 2 training seminars.	20% of eligible staff and crew attend.
3	Review and update revised system <u>map</u>	Jul-08 update map.	Amendments to map, if needed.
4	Review usefulness of <u>ordinances</u> and make changes as needed	Aug-08 have council adopt amendments, if needed.	Review and update ordinances.
5	Review usefulness of <u>public information process</u> and update, if needed	Oct-08 implement changes to process.	Amend process, if needed.
6	Review and amend process for including water quality consideration in <u>site plan reviews</u>	Jul-08 amend process, if needed.	Amendments, if needed.
7	Promote and attend a <u>regional seminar</u> or conference on phase II stormwater or urban water quality issues	Mar-08 attend regional seminar.	At least 4 city crew/staff attend.
8	Discuss Phase II stormwater and stormwater quality topics in <u>public meetings</u>	Nov-08 present information to the public in a public meeting.	Staff report to city council.
9	Collect local <u>pollution data</u> from various resources	Throughout fourth year.	Update data as needed.
10	Develop stormwater website	Oct-08 modify and update website, as needed.	Updates completed.
11	Post <u>signs</u> for watersheds and city buildings about water quality and proper handling and disposal of chemicals	Dec-08 place signs at key watersheds and post on city buildings.	2 watershed signs, 3 city building signs.
13	<u>Blue Thumb school education</u> program: promote and coordinate data.	Dec-07 Blue Thumb conducts school education program.	Two classroom activities done.
14	<u>Blue Thumb volunteer stream monitoring</u> program: promote and coordinate data.	Monthly - Blue Thumb trains and conducts volunteer monitoring.	12 monitoring events.
15	<u>Blue Thumb stormdrain marking</u> program using citizens and local organizations.	Monthly - Blue Thumb coordinates stormdrain marking activities.	30 stormdrains marked.
16	<u>Blue Thumb stream clean-up event</u> : sponsor, city crews participate in local stream or roadside clean-up event.	Sep-08 promote benefits of local clean-up event.	Public education material.
17	Household <u>Pollutant Collection Event</u> : promote and help fund city portion of regional	Apr-08 promote and fund local event	One local event held.

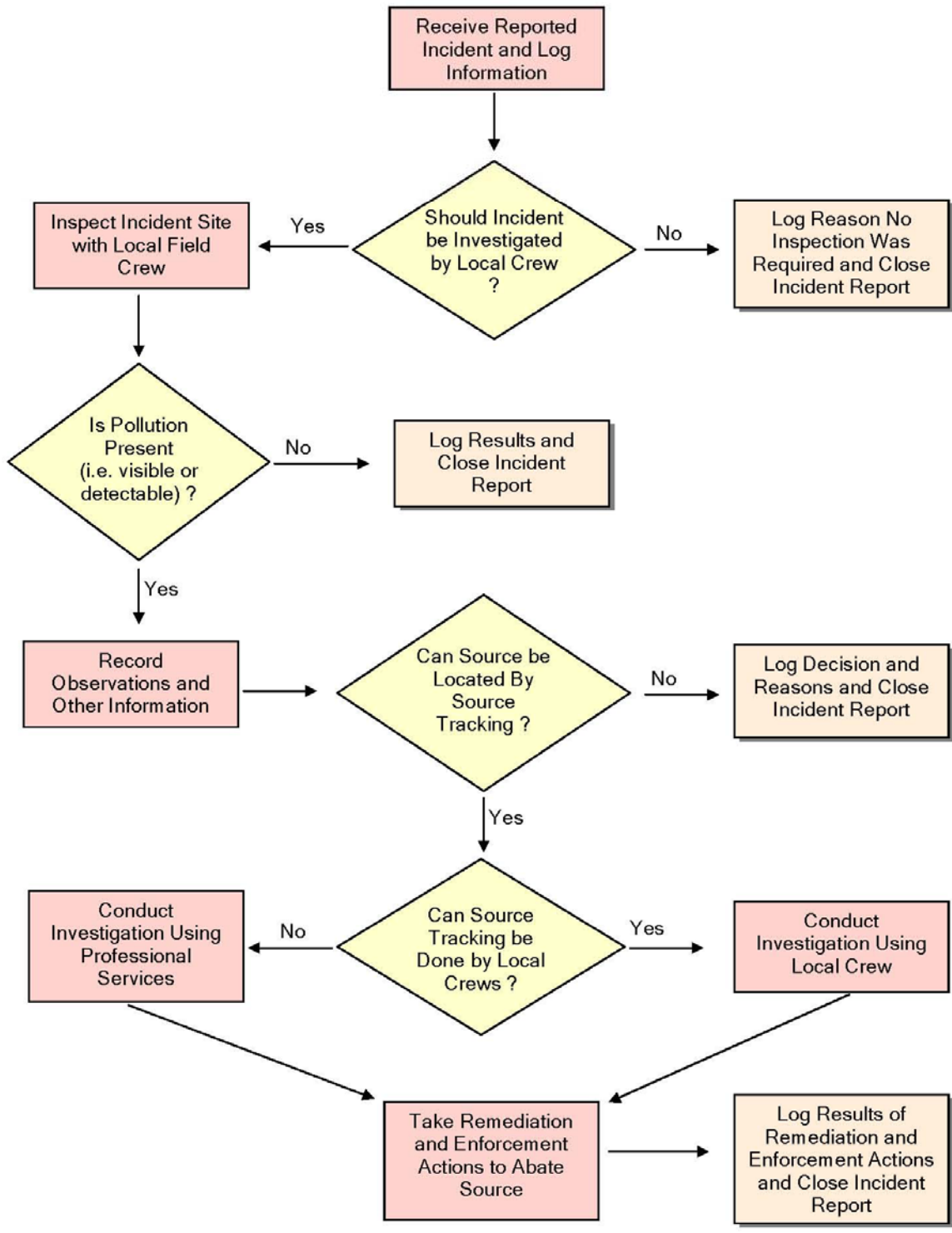
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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
18	Provide household hazardous waste collection services (Oklahoma City Center, COMEA)	Continue current program	Continue disposal services
19	<u>Recycling</u> : funding and promotion of local curbside recycling in city.	Continue current program	Monthly curbside collection of recyclables
20	<u>Give-away items</u> with water quality logos: distribute at public events and meetings.	Daily distribute logo items at events, in public meetings and at city hall.	Distribute 200 items during year.
21	Conduct <u>MS4 inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents
22	Conduct <u>construction site inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents
23	Conduct <u>inspections of city facilities</u> and maintenance yards for control of chemicals.	Semi-annually conduct inspections and correct problems.	Reduced number of problems
Fifth Year of Program (2009)			
1	Continue distribution of <u>education materials</u>	Throughout fifth year.	50 of each brochure type distributed.
2	Continue attending regional <u>training</u> , another 20% of staff	Apr-09 and Oct-09 attend 2 training seminars.	20% of eligible staff and crew attend.
3	Review and update revised system <u>map</u>	Jul-09 update map.	Amendments to map, if needed.
4	Review usefulness of <u>ordinances</u> and make changes as needed	Aug-09 have council adopt amendments, if needed.	Review and update ordinances.
5	Review usefulness of <u>public information process</u> and update, if needed	Oct-09 implement changes to process.	Amend process, if needed.
6	Review and amend process for including water quality consideration in <u>site plan reviews</u>	Jul-09 amend process, if needed.	Amendments, if needed.
7	Promote and attend a <u>regional seminar</u> or conference on phase II stormwater or urban water quality issues	No action.	No activity.
8	Discuss Phase II stormwater and stormwater quality topics in <u>public meetings</u>	Nov-09 present information to the public in a public meeting.	Outside agency report to city council.
9	Collect local <u>pollution data</u> from various resources	Throughout fifth year.	Update data as needed.
10	Help develop / participate in regional stormwater website	Oct-09 modify and update website, as needed.	Updates completed.
11	Post <u>signs</u> on city buildings about water quality and proper handling and disposal of chemicals	Dec-09 update / replace signs, as needed.	Sign maintenance performed.

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BMP ACTIVITY		SCHEDULE	MEASURABLE GOAL
12	<u>Blue Thumb school education</u> program: promote and coordinate data.	Dec-07 Blue Thumb conducts school education program.	Two classroom activities done.
13	<u>Blue Thumb volunteer stream monitoring</u> program: promote and coordinate data.	Monthly - Blue Thumb trains and conducts volunteer monitoring.	12 monitoring events.
14	<u>Blue Thumb stormdrain marking</u> program using citizens and local organizations.	Monthly - Blue Thumb coordinates stormdrain marking activities.	30 stormdrains marked.
15	<u>Blue Thumb stream clean-up</u> event: sponsor, city crews participate in local stream or roadside clean-up event.	Sep-09 host / participate in local clean-up event.	Event held.
16	<u>Household Pollutant Collection Event</u> : promote and help fund city portion of regional	Apr-09 and Oct-09 promote and fund regional events	Two regional events held.
17	Provide household hazardous waste collection services (Oklahoma City Center, COMEA)	Continue current program	Continue disposal services
18	<u>Recycling</u> : funding and promotion of local curbside recycling in city.	Continue current program	Monthly curbside collection of recyclables
19	<u>Give-away items</u> with water quality logos: distribute at public events and meetings.	Daily distribute logo items at events, in public meetings and at city hall.	Distribute 200 items during year.
20	Conduct <u>MS4 inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents
21	Conduct <u>construction site inspections</u> based upon incident reports and observations made by city crews.	Daily or as needed, conduct inspections and correct sources.	Reduced number of incidents
22	Conduct <u>inspections of city facilities</u> and maintenance yards for control of chemicals.	Semi-annually conduct inspections and correct problems.	Reduced number of problems

**APPENDIX D
FLOW CHART FOR INVESTIGATIONS OF STORMWATER POLLUTION INCIDENTS**



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APPENDIX E

One Page Summaries of each BMP

BMP Title:	Brochures / Flyers					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X	X	X	X
BMP Description:	<p>Develop or obtain brochures or flyers for the following and distribute: Water quality impacts from urban stormwater, household chemical disposal options, proper on-site sewage disposal system maintenance, proper use of fertilizers and pesticides, recycling and re-use benefits, how to become involved in the stormwater program, benefits of trees, motor oil pollution prevention, responsible pet ownership, chemical storage and disposal at businesses, construction / erosion / sediment control BMPs, post-construction stormwater management BMPs, chemical storage and disposal at City facilities, City good housekeeping options, and various other program-related topics.</p> <p>Details: Will be distributed continuously at City building Will be distributed to City schools once per permit year Every permit year one selected brochure / flyer will be mailed as a utility bill stuffer “Construction / erosion / sediment control BMPs” also will be distributed with building permit issuance “Chemical storage and disposal at City facilities” and “City good housekeeping options” also will be distributed at City staff training events offered various times during the permit cycle.</p>					
Target Audience:	General public – adults, schools (5 th -12 th), business owners, contractors, developers, builders, consulting engineers, City staff					
Measurable Goals:	2005: Develop, print and begin distribution by end of year, 50 each. 2006: Minimum 50 of each type. 2007: Minimum 50 of each type. 2008: Minimum 50 of each type. 2009: Minimum 50 of each type.					
Implementation Schedule:	2005: Develop, print and begin distribution by end of year. 2006: Modify and update, distribute during year. 2007: Modify and update, distribute during year. 2008: Modify and update, distribute during year. 2009: Modify and update, distribute during year.					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Training Modules					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X	X	X
BMP Description:	<p>Develop or obtain training modules for the following by the end of the second permit year:</p> <ul style="list-style-type: none"> Data quality and data management How to conduct inspections effectively Water quality impacts and regulations Storage and disposal of chemicals at City facilities Stormwater and City activities <p>Annual regional training will be offered by regional agencies with a goal of 100% of relevant city staff and crew attending at least once during the permit cycle.</p> <p>Details: Regional will develop each of these training modules and conduct regional training. Training modules will include brochures, videos, CD-ROM disks, copies of forms, PowerPoint presentations, and/or written materials and handouts Existing training materials from State and/or Federal sources will be used and other materials will be created by regional agencies and presenters.</p>					
Suitable For:	City staff and field crew					
Measurable Goals:	<p>Number of training modules developed or obtained per permit year Five training modules developed or obtained by the end of the second permit year Number of times each training module was offered each permit year to City staff Number of City staff receiving training in each module each permit year Data quality and data management training offered once during the permit cycle Training with the remaining modules offered twice during the permit cycle Number of contacts made by training attendees resulting from receiving training module per permit year</p>					
Implementation Schedule*:	<p>Year 2 - Develop / obtain all five training modules; begin offering training Year 3, 4 & 5 - Offer training</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	MS4 Mapping					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X	X	
BMP Description:	<p>The City of The Village will develop a GIS-based storm sewer system map that shows the location of all outfalls and the names and locations of all waters of the United States that receive discharges from those outfalls. Priority areas for the above-referenced MCMs will be determined utilizing this GIS database.</p> <p>Details: This map will be created by utilizing existing records at the City, public-domain GIS data, contract-acquired GIS data such as aerial photographs and radar-generated topography, USGS 7.5 Minute Quadrangles, and FEMA Flood Insurance Rate Maps (used as a reference for labeling USGS unnamed tributaries), and spot field verifications using Global Positioning System (GPS)</p> <p>MS4 storm sewer map will be revised once every permit year to incorporate all corrections and updates from compiled data</p>					
Suitable For:	City staff					
Measurable Goals:	<p>Revised map with corrections and updates from compiled data once every permit year</p> <p>Priority areas for MCM #4 located within the first year of the permit</p> <p>Priority areas for MCM #3 located within the first two years of the permit</p> <p>Priority areas for MCM #5 located within the first four years of the permit</p>					
Implementation Schedule*: <i>* Permit Year</i>	<p>Year 1 - Compile corrections and updates; revise map; locate priority areas for MCM #4</p> <p>Year 2 - Compile corrections and updates; revise map; locate priority areas for MCM #3</p> <p>Year 3 - Compile corrections and updates; revise map</p> <p>Year 4 - Compile corrections and updates; revise map; locate priority areas for MCM #5</p> <p>Year 5 - Compile corrections and updates; revise map</p>					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Public Meetings					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X				
BMP Description:	<p>Discuss the Phase II Program once every permit year at the City Council Meeting and twice every permit year.</p> <p>Details: These are public meetings that comply with State and local public notice requirements</p>					
Suitable For:	General public					
Measurable Goals:	<p>Number of times Phase II Program was discussed at City Council Meeting per permit year</p> <p>Number of contacts made by the public due to the public meetings per permit year.</p>					
Implementation Schedule*:	None					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Ordinance					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X	X	
BMP Description:	<p>The City of The Village has already adopted ordinances for illicit discharges, and construction and post-construction sedimentation and erosion control and will review and modify existing ordinances for the above-referenced MCMs</p> <p>Details: Ordinance effectiveness will be periodically reviewed and changes made as appropriate</p>					
Suitable For:	City staff and administration					
Measurable Goals:	<p>Existing ordinances for MCM #4 reviewed and modified within the first year of the permit</p> <p>Existing ordinances for MCM #3 reviewed and modified within the first two years of the permit</p> <p>Existing ordinances for MCM #5 reviewed and modified within the first four years of the permit</p> <p>Effectiveness of the above ordinances evaluated during the fifth year of the permit; administrative process to make any needed modifications begun</p>					
Implementation Schedule*: <i>* Permit Year</i>	<p>Year 1 - Review and modify existing ordinances for MCM #4</p> <p>Year 2 - Review and modify existing ordinances for MCM #3</p> <p>Year 4 - Review and modify existing ordinances for MCM #5</p> <p>Year 5 - Evaluate effectiveness of the above ordinances; begin administrative process to make any needed modifications</p>					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Policies and Procedures Program					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X		
BMP Description:	<p>Due to the complicated natures of the two above-referenced MCMs, the City will develop policies and procedures to ensure these MCMs' effective administration.</p> <p>Details: Programs will set out policies and procedures for City staff to follow in order to avoid confusion and to ensure proper data collection and enforcement Programs will be evaluated and modified if needed</p>					
Suitable For:	City staff					
Measurable Goals:	<p>Program for MCM #4 developed within the first year of the permit Program for MCM #3 developed within the first two years of the permit Effectiveness of the above programs evaluated during the fifth year of the permit and modified if needed</p>					
Implementation Schedule*:	<p>Year 1 - Develop program for MCM #4 Year 2 - Develop program for MCM #3 Year 5 - Evaluate effectiveness of the above programs; make needed modifications</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Site Plan Review					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
				X	X	
BMP Description:	<p>Modification of the current pre-construction site plan review process to incorporate the review of erosion and sediment control BMPs and post-construction BMPs that address water quality</p> <p>Details: Current site plan review process will be reviewed Modifications to the process will be implemented to ensure required elements pertaining to the above MCMs are present on the plans and/or addressed in some other manner</p>					
Suitable For:	City staff					
Measurable Goals:	<p>Site plan review process reviewed and modified to address MCM # 4 within the first year of the permit</p> <p>Site plan review process reviewed and modified to address MCM #5 within the first four years of the permit</p> <p>Number of site plans reviewed per permit year</p> <p>Number and type of BMPs for MCM #4 and #5 shown on the final approved plans and/or addressed in some other manner per permit year</p> <p>Effectiveness of the site plan review process evaluated during the fifth year of the permit and modified if needed</p>					
Implementation Schedule*: <i>* Permit Year</i>	<p>Year 1 - Review and modification of site plan review process for MCM #4</p> <p>Year 4 - Review and modification of site plan review process for MCM #5</p> <p>Year 5 - Evaluate effectiveness of the site plan review process; make needed modifications</p>					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Public Information Receipt					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X	X	X	X
BMP Description:	<p>Development and implementation of procedures in the first year of the permit to receive, record, and consider information / input from the public.</p> <p>Details:</p> <p>Procedures needed due to the anticipated volume of public contact Staff will be educated on how to document public input from email, letters, faxes, phone calls, and personal contacts. Response actions tied to each request will be documented Response actions will be evaluated as to whether they were successful or not Follow-up action on unresolved problems will be ensured. Success of these procedures will be evaluated and the procedures modified as needed</p>					
Suitable For:	City staff					
Measurable Goals:	<p>Development of procedures and their implementation in the first permit year.</p> <p>Total number of contacts made by the public, method of contact, and associated data such as MCM every permit year.</p>					
Implementation Schedule*:	<p>Year 1 - Develop and implement procedures Year 2, 3, 4 & 5 - Continue program</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Enforcement					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X	X	X
BMP Description:	<p>Conduct enforcement specific to appropriate MCM Detail: The Policies and Procedures Program BMP developed for MCMs #3 and #4 will state enforcement steps to be taken in various situations. Increasingly more strict enforcement actions will be used with continued noncompliance at a site, including referral to the ODEQ and EPA in situations where the City's series of enforcement actions have failed to abate the pollutant source.</p>					
Suitable For:	City-wide, all sources					
Measurable Goals:	<p>Total number of sites requiring enforcement action every permit year and per MCM every permit year Total number of enforcement actions and type every permit year and per MCM every year Total number of sites requiring enforcement action beyond the first contact every permit year and per MCM every permit year Total number of sites referred to the ODEQ / EPA due to noncompliance every permit year and per MCM every permit year Number of pollution sources abated due to enforcement action every permit year and per MCM every permit year</p>					
Implementation Schedule*:	Year 1, 2, 3, 4 & 5 - Conduct enforcement as necessary; record data					
* <i>Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Stormwater Website					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			
BMP Description:	<p>Establish and maintain a stormwater website by the end of the second permit year. Details: ACOG is proposing to establish and maintain this website; if that does not happen, the City will establish its own For MCM #2, information about programs and events will be available For MCM #3, information about the hazards associated with illegal discharges and improper waste disposal will be available</p>					
Suitable For:	General public					
Measurable Goals:	<p>Establish a stormwater website by the end of the second permit year Number of times the website was updated every permit year Number of contacts made by the public due to accessing the website every permit year</p>					
Implementation Schedule*:	<p>Year 2 - Establish website Year 3, 4 & 5 – Update</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	TV Public Service Announcement					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X					
BMP Description:	<p>Create a TV public service announcement on water quality impacts from urban stormwater by the end of the second permit year.</p> <p>Details: ACOG is proposing to create this; if that does not happen, the City will create its own The public service announcement will be run on local cable at least once every permit year</p>					
Suitable For:	General public					
Measurable Goals:	<p>Create TV public service announcement by the end of the second permit year</p> <p>Number of times or length of time announcement ran on local cable per permit year</p> <p>Number of contacts made by the public due to viewing announcement per permit year</p>					
Implementation Schedule*:	<p>Year 2 - Create announcement</p> <p>Year 3, 4 & 5- Run on cable</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Newsletter (Utility Bill)					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X					
BMP Description:	Place one article about stormwater quality and/or public participation events in this publication once every permit year. Details: This is a City-generated newsletter sent at least annually to all utility customers in The Village					
Suitable For:	General public					
Measurable Goals:	Place one article about stormwater quality and/or public participation events once every permit year in this publication Number of contacts made by the public due to reading this article every permit year					
Implementation Schedule*:	Year 1 - Create article and place in newsletter Year 2, 3, 4 & 5 - Repeat					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Trash Collection Program					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
						X
BMP Description:	<p>Utilize lidded trash carts and City-volume waste tags.</p> <p>Details:</p> <p>Program already in place</p> <p>Additional carts available on a short-term or long-term basis at a reasonable cost</p> <p>City-volume waste tags required for trash in excess of 4 curbside bags; available at a nominal cost</p> <p>Reduces the amount of windblown floatable trash in the MS4 and waterways</p> <p>Lidded cart and plastic bags prevent precipitation from coming in contact with discarded materials and becoming contaminated</p> <p>Reasonable cost encourages utilization of the program and helps deter illegal dumping of lawn clippings, leaves, etc. in waterways</p>					
Suitable For:	General public, City staff					
Measurable Goals:	<p>Number of carts in use every permit year</p> <p>Number of carts in excess of one cart per site in use every permit year</p> <p>Number of sites using more than one cart every permit year</p> <p>Number City-coded trash bags distributed to local merchants every permit year</p>					
Implementation Schedule*:	None					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Bulk Trash Pick-Up and Drop-Off Program					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
						X
BMP Description:	<p>Offer bulk trash pick-up service and a local drop-off site for large items to help deter illegal dumping</p> <p>Details: Program already in place Bulk trash pick-up can be scheduled through the City’s Sanitation Department for a reasonable cost Residents can elect to haul their bulk trash to the city-operated bulk waste disposal site at 1701 NW 115th street. Reasonable cost encourages utilization of the program and helps deter illegal dumping of bulk items in waterways</p>					
Suitable For:	General public, City staff					
Measurable Goals:	Number of bulk trash pick-ups every permit year					
Implementation Schedule*:	None					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Posters					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X					X
BMP Description:	Develop or obtain posters for public awareness about stormwater. Details: It will be continuously posted at City buildings					
Suitable For:	General public, City staff					
Measurable Goals:	Number of posters posted at City buildings per permit year Number of contacts made by the public attributable to viewing the poster per permit year					
Implementation Schedule*:	Year 1 - Develop / obtain poster and post at City buildings Year 2, 3, 4 &5 - Repeat					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	School Program					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X				
BMP Description:	<p>Obtain / provide a stormwater education program for the schools. Details: Blue Thumb has an excellent school education program, but the cost of it to the City has yet to be decided upon by Blue Thumb. If the cost is prohibitive, the City will create its own program and make the information and props available to schoolteachers to teach in their classrooms.</p>					
Suitable For:	Schools (3 rd – 9 th graders)					
Measurable Goals:	<p>Develop / obtain stormwater education program the second permit year of permit Number of children every permit year receiving this instruction</p>					
Implementation Schedule*:	<p>Year 2 - Develop / obtain stormwater education program Year 3, 4 & 5 - Continuously available</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Clean-Up Events / Programs					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			X
BMP Description:	Sponsor Adopt A Street program events every year. Details: This is a ongoing program currently sponsored by the City. “Adopt-a-Street” Program is continuously available; “Adopt-a-Street” Program requires clean-ups at least annually					
Suitable For:	General public, City staff					
Measurable Goals:	Miles of streets under adoption every permit year Number of clean-up events every permit year Number of participants in each particular event Miles of streets cleaned every permit year by these events Number of bags of trash collected or other quantifiable data on what was colleted to demonstrate the success of the particular event					
Implementation Schedule*: <i>* Permit Year</i>	None					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Household Pollutant Collection Event					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			X
BMP Description:	Sponsor a household pollutant collection event once a permit year. and provide a Household Hazardous Waste Collection facility by contracts with Oklahoma City and COMEA, Details: This will be held with the cooperation of COMEA’s Household Hazardous Waste Mobile Disposal Unit.					
Suitable For:	General public, City staff					
Measurable Goals:	Hold one household pollution collection event every permit year and provide permanent disposal sites. Types of pollutants collected and associated quantifiable data such as pounds, containers, gallons, etc. to demonstrate the success of the event.					
Implementation Schedule*: <i>* Permit Year</i>	None					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Recycling Opportunities					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			X
BMP Description:	<p>Offer recycling opportunities. Details: These are opportunities currently offered by the City Curbside recycling - available in conjunction with the weekly trash collection; no separate fee to participate Glass and metal recycling drop-off center provided M-F 8-5.</p>					
Suitable For:	General public, City staff					
Measurable Goals:	Number or percentage of households participating in curbside recycling every permit year					
Implementation Schedule*: <i>* Permit Year</i>	None					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Volunteer Stream Monitoring					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			
BMP Description:	<p>Encourage participation in Blue Thumb educational training events and volunteer stream monitoring.</p> <p>Details: Blue Thumb has an excellent program. Volunteers receive training on watersheds, water quality impacts, ecosystem health, and the mechanics of stream monitoring including visual inspections and field test kit procedures and chemical analyses. Volunteers are provided with test kits and assigned a stream site to monitor monthly. Continual refresher training is required.</p> <p>The training sessions are offered periodically throughout Oklahoma. Announcements of upcoming metro training events will be posted in City buildings and distributed to City high schools and non-profits to encourage volunteers.</p>					
Suitable For:	General public – adults, schools (10 th – 12 th graders)					
Measurable Goals:	<p>Number of announcements posted in City buildings per permit year</p> <p>Number of announcements distributed to City high schools and non-profits per permit year</p> <p>Number of people from The Village attending a Blue Thumb training event per permit year</p> <p>Number of stream sites being monitored in The Village by Blue Thumb volunteers per permit year</p> <p>Number of times streams in The Village were monitored by Blue Thumb volunteers per permit year</p>					
Implementation Schedule*: <i>* Permit Year</i>	<p>Year 1 - Notify Blue Thumb of this BMP; distribute announcements when received</p> <p>Year 2, 3, 4 & 5 - Distribute announcements</p>					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Stormdrain Marking					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X	X	X			
BMP Description:	<p>Stormdrain marking kits will be obtained / created the first permit year and offered continuously thereafter.</p> <p>Details: Blue Thumb has an excellent stormdrain marking program, but the cost of it to the City has yet to be decided upon by Blue Thumb. If the cost is prohibitive, the City will create its own kits.</p>					
Suitable For:	General public, schools, non-profits					
Measurable Goals:	<p>Obtain / create stormdrain marking kits the first year of permit</p> <p>Number of stormdrains marked every permit year</p>					
Implementation Schedule*:	<p>Year 1 - Obtain / create stormdrain marking kits</p> <p>Year 2, 3, 4 & 5 - Continuously available</p>					
<i>* Permit Year</i>						

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Free Promotional Items					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
	X					
BMP Description:	Purchase and distribute items with water quality message to promote the stormwater program. Details: To be distributed free at public events when brochures are distributed					
Suitable For:	General public, schools, non-profits					
Measurable Goals:	Select one item type and purchase by the end of the second permit year Number of items distributed every permit year Number of contacts made by the public due to item every permit year					
Implementation Schedule*: <i>* Permit Year</i>	Year 2 - Select item type and acquire Year 3, 4 & 5 – Distribute					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Inspections					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X	X	X	X
BMP Description:	<p>Conduct inspections specific to appropriate MCM Detail: Investigations under MCMs #3 and #6 of the MS4 and waterways primarily will be complaint-driven Investigations under #4 and #5 will be both regularly scheduled as well as complaint-driven Good Housekeeping investigations under #6 of the City-owned facilities will be regularly scheduled Trigger mechanism, pertinent data, and applicable MCM for every investigation will be recorded Inspection training will be provided to City staff (refer to Training Module BMP)</p>					
Suitable For:	City-wide					
Measurable Goals:	<p>Total number of sites inspected every permit year and per MCM every permit year Total number of investigations conducted every permit year and per MCM every permit year Routine inspections for MCM #4 begun by the end of the first permit year Good Housekeeping inspections for MCM #6 begun by the end of the third permit year Number of investigations conducted for pollutant source tracking every permit year with breakdown of number by City staff and number by contract professionals Total number of inspections requiring follow-up action(s) and type(s) of follow-up action(s) every permit year and per MCM every permit year Total number of pollution sources abated due to an inspection every permit year and per MCM every permit year</p>					
Implementation Schedule*: <i>* Permit Year</i>	Year 1, 2, 3, 4 & 5 – Conduct inspections; record data					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Brochure for Erosion Control for Construction Industry					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
				X	X	
BMP Description:	Develop guidance brochure for construction industry that addresses proper use, storage and disposal of on-site chemicals and proper erosion and sediment control measures. This is completed.					
Suitable For:	All construction activities within the city-wide MS4 system. Coordinate data attributes for regional consistency.					
Supplies, Equipment, Personnel Needed:	Brochures and/or pamphlets.					
INCOG Regional Stormwater Program Involvement:	Design/purchase brochures, store, inventory, distribute, evaluate, modify, re-order, keep records, assess measurable goals, report status to city, assist with Annual Report.					
Source for More Information:	Contact Person Bruce K. Stone, City of The Village Address 2304 Manchester Drive, The Village, OK 73120 Phone # 405-751-8861 x259 Email bruce_stone@thevillageok.org					
Suggested Measurable Goals*: <i>* by Fiscal Year</i>	2004 - Develop artwork and text, purchase quantity 2005 - Distribute brochures to all active construction sites 2006 - Distribute brochures to all active construction sites 2007 - Distribute brochures to all active construction sites 2008 - Distribute brochures to all active construction sites					
Implementation Schedule*: <i>* by Fiscal Year</i>	2004 - Select artwork and purchase initial set of brochures 2005 - Distribute to construction sites and during building permitting 2006 - Distribute to construction sites and during building permitting 2007 - Evaluate effectiveness and modify brochures if necessary 2008 - Continue to distribute brochures and expand distribution					
Estimated Annual Operational Cost*: <i>* by Fiscal Year - does not include city staff or crew time</i>	2004 - \$ 500 2005 - \$ 500 2006 - \$ 200 2007 - \$ 200 2008 - \$ 200					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Training Module for Chemical Storage and Disposal					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Housekeep.
						X
BMP Description:	Develop written material, brochures, videos and /or CD-ROMs that address proper use, storage and disposal of on-site chemicals at city facilities. Conduct training sessions with city crews.					
Suitable For:	City public works crews and supervisors. Coordinate program elements for regional consistency.					
Supplies, Equipment, Personnel Needed:	Create / purchase brochures, videos, CD-ROM disks, forms, PowerPoint presentations and written handouts.					
Source for More Information:	Contact Person Bruce K. Stone, City of The Village 2304 Manchester Drive, The Village, OK 73120 Phone # 405-751-8861 x259 Email bruce_stone@thevillageok.org					
Suggested Measurable Goals*: <i>* by Fiscal Year</i>	2004 - Develop all training supplies, purchase quantity 2005 - Conduct annual city training for 50% of target city staff. 2006 - Conduct annual city training for 50% of target city staff. 2007 - Conduct annual city training for 50% of target city staff. 2008 - Conduct annual city training for 50% of target city staff.					
Implementation Schedule*: <i>* by Fiscal Year</i>	2004 - Select artwork and purchase initial sets of training supplies. 2005 - Conduct annual city training. 2006 - Conduct annual city training; evaluate effectiveness. 2007 - Conduct annual city training; modify program as necessary. 2008 - Conduct annual city training.					
Estimated Annual Operational Cost*: <i>* by Fiscal Year - does not include city staff or crew time</i>	2004 - \$ 500 2005 - \$ 500 2006 - \$ 500 2007 - \$ 500 2008 - \$ 500					

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

BMP Title:	Develop Regional MS4 and Outfall Maps					
Minimum Control Measure Addressed:	Public Ed.	Public Part.	Illicit Det.	Constr.	Post Const.	Houskeep.
			X			
BMP Description:	Map MS4 outfalls and streams channels, delineate watersheds, map main portions of the MS4 system, and locate high priority areas. Obtain data and map information through INCOG Regional Stormwater Program for all Phase II MS4s to use.					
Suitable For:	Entire city-wide MS4 system. Coordinate data attributes for regional consistency.					
Supplies, Equipment, Personnel Needed:	GIS software, regional GIS data, computers, Global Positioning System, city crews and INCOG staff.					
INCOG Regional Stormwater Program Involvement:	Obtain GIS and other regional map data; assist city crews with using GPS and performing visual inspections to locate outfalls and potential sources; compile regional map data and create regional GIS-based maps of combined MS4s; update as needed.					
Source for More Information:	Contact Person Bruce K. Stone, City of The Village 2304 Manchester Drive, The Village, OK 73120 Phone # 405-751-8861 x259 Email bruce_stone@thevillageok.org					
Suggested Measurable Goals*: <i>* by Fiscal Year</i>	2004	Obtain GIS data, computers, GPS and other resources.				
	2005	Final maps completed.				
	2006	Revise maps from new data.				
	2007	Revise maps from new data.				
	2008	Revise maps from new data.				
Implementation Schedule*: <i>* by Fiscal Year</i>	2004	Obtain GIS data, computers, and GPS. Begin data collection.				
	2005	Complete final regional maps and locating priority areas.				
	2006	Update map data and resources.				
	2007	Update map data and resources.				
	2008	Update map data and resources.				
Estimated Annual Operational Cost*: <i>* by Fiscal Year - does not include city staff or crew time</i>	2004	\$ 3,000				
	2005	\$ 2,000				
	2006	\$ 2,000				
	2007	\$ 1,000				
	2008	\$ 1,000				

**CITY OF THE VILLAGE
STORMWATER MANAGEMENT PLAN – MAY 2005**

APPENDIX F

**303(d) LIST REASONABLE POTENTIAL CERTIFICATION
EVALUATION FORM**

The following water bodies in The Village area are on the State’s latest (2002) EPA approved Category 5 list (“303(d) List”) of impaired water bodies in the *State of Oklahoma 2002 Water Quality Assessment Integrated Report* (IR). Use this form to determine if discharges from your MS4 “have the reasonable potential to cause or contribute to a violation of a water quality standard” in any of the 303(d) listed water bodies regarding the “pollutants of concern” for which the water body is listed as impaired.

Water body Name	WBID	Question #1 Does MS4 discharge to the listed segment?	Question #2 Is the segment still most probably impaired (i.e. in 2004 IR)?	Question #3 Does MS4 have potential sources of pollutants of concern?	Question #4 Does pollutant of concern have a significant potential to enter segment?	RESULT (1): Does MS4 have the reasonable potential to be considered a contributor of one or more pollutants of concern to the 303(d) segment (all 4 questions must be “yes”)
OK620910040100 CHISHOLM CREEK		Yes	Yes	Yes	Yes	Yes
<p>The City’s SWMP and implementation of BMPs will attempt to minimize the chance that pollutants will discharge to the impaired water body.</p> <p>In addition, the City is currently working with Oklahoma City to identify sources of groundwater infiltration into the city’s sewerage system in an effort to prevent sewerage by-pass situations that have on occasion resulted in the discharge of pollutants to the impaired water body. As sources of infiltration are located, the City will develop and implement plans to make the necessary improvements.</p>						

Appendix G:
Map of City Limits of City of The Village

