

STORMWATER MANAGEMENT PROGRAM ADDENDUM NO. 2

CITY OF WESLACO



Developed in accordance with the requirements of
TEXAS COMMISSION ON ENVIRONMENTAL
QUALITY - TEXAS POLLUTANT DISCHARGE
ELIMINATION SYSTEM - TPDES GENERAL
PERMIT TXR040000

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www.stei.org



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5.0 STORMWATER MANAGEMENT PROGRAM

The City of Weslaco SWMP has been developed to meet the following regulatory requirements from the TCEQ TPDES General Permit TXR40000:

To the extent allowable under state and local law, a SWMP must be developed and implemented according to the requirements of Part III of this general permit, for storm water discharges that reach waters of the United States, regardless of whether the discharge is conveyed through a separately operated storm sewer. The SWMP must be developed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and the Texas Water Code. Existing programs or best management practices (BMPs) may be used to fulfill the requirements of this general permit. The MS4 operator must develop the SWMP to include the six minimum control measures described in Part III.A.1. through 6, and the operator may develop and include the optional seventh minimum control measure in Part III.A.7. Small MS4s have five years from the date of issuance of this general permit to fully implement their SWMP. A discharger's compliance with its approved SWMP will be deemed compliance with Part III of this permit.

This Section describes the City of Weslaco's SWMP and the Best Management Practices (BMPs) selected to comply with the TPDES program's six (6) Minimum Control Measures (MCMs) and is organized in the following outlined format:

- Section 5.1 - Public Education and Outreach
- Section 5.2 - Public Involvement in Storm Water Management Program Development
- Section 5.3 - Illicit Discharge Detection and Elimination
- Section 5.4 - Construction Site Storm Water Controls
- Section 5.5 - Post Construction Storm Water Management for New Development/
Redevelopment
- Section 5.6 - Pollution Prevention/Good Housekeeping for Municipal Operations
- Section 5.7 - Authorization for Municipal Construction Activities

Each of these sections includes a brief description of the BMPs selected for each MCM, a proposed implementation schedule for each BMP, performance measures for the programs, and identifies the municipal departments assigned to each BMP.

5.1 Public Education and Outreach BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement (Minimum Control Measure #1):

Public Education and Outreach on Storm Water Impacts
(a) A public education program must be developed and implemented to distribute educational materials to the community or conduct equivalent outreach activities that will be used to inform the public. The MS4 operator may determine the most appropriate sections of the population at which to direct the program. The MS4 operator must consider the following groups and the SWMP shall provide justification for any listed group that is not included in the program:

- (1) residents;**
- (2) visitors;**
- (3) public service employees;**
- (4) businesses;**
- (5) commercial and industrial facilities; and**
- (6) construction site personnel.**

The outreach must inform the public about the impacts that storm water run-off can have on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps that they can take to reduce pollutants in storm water runoff.

The following table lists BMPs that meet the requirements of MCM 1.

Table 1: Public Education and Outreach BMPs

Section	Description of BMP	BMP* Type	IMPLEMENTATION SCHEDULE (YEAR)				
			1	2	3	4	5
5.1.1	Utility Bill Inserts/Mass Mail-out	I	X	X	X	X	X
5.1.2	Web Site	S	X	X	X	X	X
5.1.3	Classroom Presentations	I, S	X	X	X	X	X
5.1.4	Stenciling	C, S	X	X	X	X	X
5.1.5	Videos	S	X	X	X	X	X
5.1.6	Signage	C	X	X	X	X	X
5.1.7	Community outreach	C, S	X	X	X	X	X
5.1.8	Education - ACWPP	S	X	X	X	X	X

I - INDIVIDUAL BMP

C - COMMON BMP

S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type*

X – notes activity, see Section for details

5.1.1 Utility Inserts/Mass Mail-out

Inserts in the forms of small brochures, informative handouts or fact sheets will be distributed with municipal water utility bills or mass-mailout. Brochures equivalent to the number of households within the City’s permitted area will be produced. Inserts shall include information on various topics like waste oil disposal, use of pesticides and fertilizers on landscaping, household hazardous waste, water quality, and the SWMP in general. The mail-out brochures and utility inserts will also be available at public viewing areas in the lobbies of city hall, the public library, and other city-owned facilities. The topics of these brochures, mail-outs and/or utility inserts will target various audiences: residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

The City of will develop a utility insert or a mass mail out program using existing outreach materials developed by the TCEQ, EPA and other organizations. Brochures, utility inserts and mass mail-outs are inexpensive tools that can be used for effective outreach to residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

Table 2: Implementation Schedule – Utility Inserts/Mass Mail-out

Permit Period	Measurable Goal
Year 1	City will develop an annual budget and assign city departments to oversee this BMP.
Year 2	Delegated department will develop a comprehensive program to include acquiring existing outreach materials, and developing a consistent and regular schedule of disbursement.
Years 3-5	Full implementation and annual review conducted

Table 3: BMP Responsibility – Utility Inserts/Mass Mail-out

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Valley Development Council (LRGVDC) Arroyo Colorado Watershed Partnership (ACWP) City Engineering Department City Planning Department

5.1.2 Web Site

Background and other information on the SWMP, including the seven (7) MCMs along with specific information promoting the stormwater education program, storm drain stenciling program, meetings, and other general information will be developed and provided on a web site www.stormwater.stei.org. This web site will be updated frequently. The website is currently under construction.

The City’s objective is to provide real time SWMP information to the public, including data, updates, policy and meeting schedules via a website. The website will provide outreach materials, training schedules, downloadable information and an email address for feedback. Ultimately, a list server may be developed to engage professionals, educators and regulators. The website will specifically target the TPDES Phase II program and topics that will outreach residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

Table 4: Implementation Schedule – Web Site

Permit Period	Measurable Goal
Year 1	City will develop an annual budget and assign city webmaster to oversee this BMP.
Year 2	Delegated department will develop a comprehensive program to acquire existing outreach materials, develop a consistent and regular schedule for updating the website, coordinate links between stakeholders and support groups, and develop and implement the final website design.
Years 3-5	Develop an on-line feedback mechanism and a possible list server.

Table 5: BMP Responsibility – Web Site

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP) City Engineering Department City Management Information System Department (MIS)

5.1.3 Classroom Presentations

A watershed information curriculum with associated materials and training will be made available and advertised to all elementary classroom teachers in the City’s school district. Program materials will include a curriculum on water quality and water conservation, stormwater pollution prevention, and promotion of the SWMP. Post-cards promoting the stormwater education program will be mailed to all school district teachers, and a comprehensive brochure listing K-12 programs will also be printed and distributed.

The City will also promote the Arroyo Colorado Watershed Protection Plan (ACWPP) and work with the ACWP to promote mutually beneficial goals. A watershed model developed by the ACWP will be made available to the City and the school district.

Table 6: Implementation Schedule – Classroom Presentations

Permit Period	Measurable Goal
Year 1	City will meet with school district officials to coordinate and agree on curriculum.
Year 2	City will develop a schedule. City will perform two (2) pilot classroom presentations to solicit feedback from teachers and students. Feedback data will be used to evaluate effectiveness and to adjust curriculum. Cost of classroom presentations BMP will be determined.
Year 3	Refined curriculum will be tested on four (4) additional schools.
Years 4-5	Budget developed for full implementation. Perform four (4) presentations per year.

Table 7: BMP Responsibility – Classroom Presentations

Primary Department	Support Groups
City Public Facilities Dept.	Local School District Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP) City Engineering Department Region 1 Education Service Center

5.1.4 Stenciling

A Storm Drain Stenciling Program will be initiated and incorporated into the MCM #1 Public Education Program. A minimum number of storm drains will be stenciled per year in the City. This criterion will be used to evaluate the program. Municipal staff will provide stormwater education programs and facilitate storm drain stenciling activities with youth and citizens’ organizations. The City program will evaluate and attempt to develop partnerships with businesses and industrial facilities. Stenciling of existing storm drains at parking lots of businesses and industrial facilities will be evaluated and implemented.

The City will facilitate the development of partnerships with local youth service groups to perform a significant portion of the storm drain stenciling work. These groups may include the Boys & Girls Clubs, Boy Scouts of America, and local environmental groups. Records of stenciled storm drains, including locations, types of storm drain, and volunteer group information, will be maintained. The stencil will include the logo of the LRGV TPDES Task Force, the ACWP, and the City.

The City will evaluate and implement storm drain stenciling in new construction within its jurisdiction. Contractors will be provided with specifications and instructions on how to stencil storm drains. This program will be implemented on public and private new construction.

Table 8: Implementation Schedule – Stenciling

Permit Period	Measurable Goal
Year 1	Develop budget and program.
Years 2-5	Inventory manhole covers, inlets and other structures. Establish partnerships, seek grants, and develop final stencil design. Establish goals and policies. Attempt to stencil 25% of existing inventory each year and stencil all new installations. Attempt to stencil 25% of partnering businesses and industrial facilities.

Table 9: BMP Responsibility – Stenciling

Primary Department	Support Groups
City Public Facilities Dept.	Local Environmental Groups Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Development Council (LRGVDC) Arroyo Colorado Watershed Partnership (ACWP) City Engineering Department Local Youth Organizations

5.1.5 Brochures and Videos

The *After the Storm* brochure created by the EPA (<http://www.epa.gov/weatherchannel/>) was developed, produced and made available for distribution to both residential and commercial audiences in certain cities by the LTSTF in 2005. This program will continue to be expanded by the City. A new brochure will be developed that will include additional information on the impacts of illicit discharges and other water quality issues. In addition, the *No La Riegues* campaign developed by Texas Sea Grant and adopted by the LTSTF in 2005 (www.nolariegues.com) will be revitalized and promoted. The websites to these materials will be linked to the City’s website. In addition, the *Chucho Salva el Dia* video campaign initiated by the EPA will also be adopted by the LTSTF in 2008 (http://epa.gov/region6/6xa/childrens_health_video.htm#jump). The City will facilitate the development and distribution of these materials. The City will also identify other videos readily available and use local public air time, libraries, and other outreach tools to promote this BMP. The topics of these brochures and videos will target various audiences: residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

Table 10: Implementation Schedule – Videos

Permit Period	Measurable Goal
Year 1	City will identify stormwater videos. Develop partnerships with local cable access entities. Identify environmental groups that can assist.
Years 2-5	Broadcast three (3) videos to public access channels within the City’s viewing area and/or provide copies of videos to local school and public libraries. Develop a video program, budget allowances, and a schedule of production.

Table 11: BMP Responsibility – Videos

Primary Department	Support Groups
City Public Facilities Dept.	Local School District Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Development Council (LRGVDC) Public Access Cable Entity Neighboring city with public access channel capability Arroyo Colorado Watershed Partnership (ACWP) Local Cable Network Public Library Local Environmental Groups

5.1.6 Signage

Stormwater pollution prevention signs will be designed, produced and installed along major intersections within the City. The signs will bear the logos from the LTSTF, the ACWP and the City. The City will place signs at locations where pedestrians and vehicle drivers will recognize the sign as an indicator of a local water body that should be protected, the importance of water quality, and the potential effects of stormwater pollution. Attractive graphics and brief messages or captions along roadsides can be very effective. Messages can be conveyed in English and Spanish. The sign campaign will primarily target visitors and public service employees. The installation of these signs will be privatized or completed by city staff.

Table 12: Implementation Schedule – Signage

Permit Period	Measurable Goal
Year 1	City will identify design of signs and locations for posting. Develop an installation program, budget allowances, and a schedule. Develop partnerships with local entities; identify environmental groups that can help. Review pet walking ordinances and other related policies and ordinances.
Years 2-5	Install 25% of total locations identified each year. Promote new installations. Implement any ordinances during the second year. Develop a signage program for new construction, development and greenspace areas.

Table 13: BMP Responsibility – Signage

Primary Department	Support Groups
City Public Facilities Dept.	City Parks and Recreation Department City Engineering Department City Planning Department South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.1.7 Community Outreach

City will provide educational and outreach materials to the community, including brochures, fact sheets and handouts. The topics of this outreach will target various audiences: residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel. These materials will be made available at City Hall and throughout municipal facilities. Materials will also be made available to developers, businesses, and contractors during the planning and permitting processes. The City will include a stormwater pollution prevention outreach program in various annual community events. Booths, brochures, children- friendly materials, and other similar approaches shall be used. The City shall consider designating a day or a week for stormwater pollution prevention awareness. The City will also develop a partnership with various regional entities and help coordinate an annual conference that promotes the SWMP of the City and various SWMPs in the region.

Table 14: Implementation Schedule – Community Outreach

Permit Period	Measurable Goal
Year 1	Develop a program and budget.
Years 2-5	Provide educational materials to the public. Establish locations for self service distribution. Help organize an annual conference in the region. Contribute and participate at various annual events. Promote outreach to businesses, engineers, contractors, developers, and the general public at least once a year.

Table 15: BMP Responsibility – Community Outreach

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) City Engineering Department City Chamber of Commerce Professional organizations South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.1.8 Education - Arroyo Colorado Watershed Protection Plan

A watershed information curriculum with associated materials and training will be made available and advertised to residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel. Program materials will promote the ACWP. The City will work closely with the ACWP to implement this BMP.

Table 16: BMP Responsibility – Education, Arroyo Colorado Watershed Protection Plan

Permit Period	Measurable Goal
Year 1	City will develop an annual budget and assign a city department to oversee this BMP.
Year 2	Delegated department will develop a comprehensive program to include acquiring existing outreach materials, and developing a consistent and regular schedule.
Years 3-5	Full implementation and annual review conducted.

Table 17: BMP Responsibility – Education, Arroyo Colorado Watershed Protection Plan

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.2 Public Involvement and Participation BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement:

The MS4 operator must, at a minimum, comply with any state and local public notice requirements when implementing a public involvement/participation program. It is recommended that the program include provisions to allow all members of the public within the small MS4 the opportunity to participate in SWMP development and implementation.

The following table lists BMPs that meet the requirements of MCM 2.

Table 18: Public Involvement and Participation BMPs

Section	Description of BMP	BMP Type	IMPLEMENTATION SCHEDULE (YEAR)				
			1	2	3	4	5
5.2.1	Public Meetings	I	X	X	X	X	X
5.2.2	Stenciling	C, S	X	X	X	X	X
5.2.3	Citizen Advisory Committee	I	X	X	X	X	X
5.2.4	Hotline	I	X	X	X	X	X

I - INDIVIDUAL BMP

C - COMMON BMP

S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type
X – notes activity, see Section for details*

5.2.1 Public Meetings

Annual public meetings will be conducted to provide citizens with the opportunity to discuss various viewpoints and provide input concerning stormwater quality issues. Meetings will be publicized in accordance with public notification requirements in each jurisdiction, such as a local newspaper or appropriate publication of wide circulation. Records of the meetings will be tabulated as shown in Table 19 and maintained by the City.

Table 19. Example Tabulation of Public Meetings.

Location	Date of meeting	Public Notice Method	Attendees
Museum	Month/Day/Year	Brochures, Public Ad	12
Chamber of Commerce	Month/Day/Year	Newspaper, Agency Flyer	15
City Hall	Month/Day/Year	City Council Agenda Posting	100

Table 20: Implementation Schedule – Public Meetings

Permit Period	Measurable Goal
Year 1	City will develop an annual budget and assign a city department to oversee this BMP.
Years 2-5	Conduct an annual public meeting. Full implementation.

Table 21: BMP Responsibility – Public Meetings

Primary Department	Support Groups
City Public Facilities Dept.	City Webmaster Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Development Council (LRGVDC) Arroyo Colorado Watershed Partnership (ACWP)

5.2.2 Stenciling

The City’s Storm Drain Stenciling Program will be incorporated into the MCM #2 Public Participation BMP by promoting volunteer groups to assist with not only stenciling, but also by simultaneously conducting a cleanup campaign near the target inlets, and by having the groups note maintenance-deprived areas. These activities will help educate the public about the synergy between water quality and stormwater runoff. Additionally, stenciling projects can provide a lead-in to volunteer monitoring projects and increase community participation in a variety of stormwater related activities.

Table 22: Implementation Schedule – Stenciling

Permit Period	Measurable Goal
Year 1	Establish partnerships, seek grants, and develop final design. Develop budget and program.
Years 2-5	Establish goals and policy. Inventory manhole covers, inlets and other structures. Attempt to stencil 25% of existing inventory each year and stencil all new installations.

Table 23: BMP Responsibility – Stenciling

Primary Department	Support Groups
City Public Facilities Dept.	Local Environmental Groups Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Valley Development Council (LRGVDC) City Engineering Department Local Youth Organizations Arroyo Colorado Watershed Partnership (ACWP)

5.2.3 Citizen Advisory Committee

One of the first tasks required under this SWMP is for the City to select representatives from its communities to form a steering committee comprised of a cross-section of the regulated community. The steering committee shall include, but will not be necessarily limited to, representation from the following sectors: home building, engineering, academia, general contracting, developers, non-profit organizations, elected officials, municipal staff, environmental groups, regulators, industrial, residential and commercial. The role of the steering committee will be to provide input in the development and implementation of the SWMP.

Table 24: Implementation Schedule – Citizen Advisory Committee

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Conduct meetings as needed. Organize the committee by contacting various organizations and individuals of the regulated community. Develop a selection policy and a meeting schedule.
Years 3-5	Conduct at least two (2) meetings per year.

Table 25: BMP Responsibility – Citizen Advisory Committee

Primary Department	Support Groups
City Public Facilities Dept.	City Webmaster Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Valley Development Council (LRGVDC) City Engineering Department Local regulated community (i.e. ASCE, AGC, AHBA) *

* American Society of Civil Engineers, Associated General Contractors, and American Homebuilders Association

5.2.4 Hotline

A Stormwater Hotline will be developed and implemented to promote outreach, enforce policy and to facilitate public involvement. The hotline will be used for reporting illicit and illegal connections and discharges, illegal dumping, emergency and non-emergency incidents and other stormwater related activities. The hotline operator will provide readily-available information and direction for further communication if warranted, direct notifications to the proper authorities, and record feedback, comments and recommendations.

Table 26: Implementation Schedule – Hotline

Permit Period	Measurable Goal
Year 1	No Activity
Years 2-5	Conduct evaluations to obtain data and statistics, and develop reporting formats. Develop a hotline capability and/or provide resources to an existing service. Advertise the hotline. Establish policy for response to calls.

Table 27: BMP Responsibility – Hotline

Primary Department	Support Groups
City Public Facilities Dept.	City Health Department Planning Department, Code Enforcement Division City Police Department Fire Department and Emergency Services

5.3 Illicit Discharge Detection and Elimination BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement:

Illicit Discharge Detection and Elimination

(a) Illicit Discharges

A section within the SWMP must be developed to establish a program to detect and eliminate illicit discharges to the small MS4. The SWMP must include the manner and process to be used to effectively prohibit illicit discharges. To the extent allowable under state and local law, an ordinance or other regulatory mechanism must be utilized to prohibit and eliminate illicit discharges. Elements must include:

(1) Detection

The SWMP must list the techniques used for detecting illicit discharges; and

(2) Elimination

The SWMP must include appropriate actions and, to the extent allowable under state and local law, establish enforcement procedures for removing the source of an illicit discharge.

(b) Allowable Non-Storm Water Discharges

Non-storm water flows listed in Part II.B and Part VI.B. do not need to be considered by the MS4 operator as an illicit discharge requiring elimination unless the operator of the small MS4 or the executive director identifies the flow as a significant source of pollutants to the small MS4. In lieu of considering non-storm water sources on a case-by-case basis, the MS4 operator may develop a list of common and incidental non-storm water discharges that will not be addressed as illicit discharges requiring elimination. If developed, the listed sources must not be reasonably expected to be significant sources of pollutants either because of the nature of the discharge or the conditions that are established by the MS4 operator prior to accepting the discharge to the small MS4. If this list is developed, then all local controls and conditions established for these listed discharges must be described in the SWMP and any changes to the SWMP must be included in the annual report described in Part IV.B.2. of this general permit, and must meet the requirements of Part II.D.3. of the general permit.

(c) Storm Sewer Map

(1) A map of the storm sewer system must be developed and must include the following:

(i) the location of all outfalls;

(ii) the names and locations of all waters of the U.S. that receive discharges from the outfalls; and

(iii) any additional information needed by the permittee to implement its SWMP.

(2) The SWMP must include the source of information used to develop the storm sewer map, including how the outfalls are verified and how the map will be regularly updated.

The following table lists BMPs that meet the requirements of MCM 3.

Table 28: Illicit Discharge Detection and Elimination BMPs

Section	MCM #3: Illicit Discharge Detection and Elimination Description of BMP	BMP* Type	YEAR SCHEDULE (YEAR)				
			1	2	3	4	5
5.3.1	Sewer Map	I	X	X	X	X	X
5.3.2	Illicit Discharge Elimination Ordinance	C	X	X	X	X	X
5.3.3	Business Education	C, S	X	X	X	X	X
5.3.4	General Ordinances	C	X	X	X	X	X
5.3.5	LID and Smart Growth Planning	C	X	X	X	X	X
5.3.6	Illicit Discharge Inspections	I	X	X	X	X	X
5.3.7	Business Site Inspections	I	X	X	X	X	X
5.3.8	Household Hazardous Waste	I	X	X	X	X	X

I - INDIVIDUAL BMP C - COMMON BMP S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type
X – notes activity, see Section for details*

5.3.1 Sewer Map

The City will develop or enhance existing storm sewer maps, which will show the locations of municipal storm sewer outfalls, the conveyance system as warranted, and the names and locations of state waters that receive discharges from those outfalls, to assure compliance with the TPDES requirements. During the first year, city staff will decide the level of precision, the degree of detail, and the software that will be used to map the City’s Municipal Separate Storm Sewer System (MS4). At this time, the City is contemplating using Arcview GIS software to map its MS4. After analysis of resources, funding, and staffing, the City will determine its final course of action.

Table 29: Implementation Schedule – Sewer Map

Permit Period	Measurable Goal
Year 1	Assign city departments to oversee this BMP.
Year 2	City will develop an annual budget. Staff will develop a strategy to complete this BMP in five (5) years.
Years 3-5	Mapping of the City MS4 will continue and/or start and will try to complete at least 20% of the mapping each year until fully BMP is fully implemented.

Table 30: BMP Responsibility – Sewer Map

Primary Department	Support Groups
City Public Facilities Dept.	City Engineering Department South Texas Environmental Institute (STEI) City Planning Department

5.3.2 Illicit Discharge Elimination Ordinance

The City will develop an Illicit Discharge Elimination Ordinance for various activities to comply with the TPDES requirements. The City is empowered to develop an ordinance, to accept input from public and municipal committees, and to work with local partnerships in evaluating and implementing this ordinance. The City attorney will be required to review the ordinance language. The ordinance will be evaluated based on historical efforts by neighboring Phase I MS4 cities, TCEQ guidelines and the EPA sources. All comments and feedback will be reviewed by the City’s workgroup.

Table 31: Implementation Schedule – Illicit Discharge Elimination Ordinance

Permit Period	Measurable Goal
Year 1	Evaluate existing ordinances to compare applicability.
Years 2-3	Develop outreach program specifically for this BMP. Work with partnerships and public advisory committees. Train inspectors and regulated community. Develop ordinance.
Year 3	Adopt ordinance.
Years 4-5	Start Enforcement program. Develop a feedback mechanism and a possible list server.

Table 32: BMP Responsibility – Illicit Discharge Elimination Ordinance

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Development Council (LRGVDC) City Engineering Department City Planning Department Arroyo Colorado Watershed Partnership (ACWP) City Legal Department Citizen Advisory Groups City Commission

5.3.3 Business Education

The City will work together with its various partners to provide stormwater pollution prevention education materials to the commercial sectors identified as potentially significant contributors of pollutants to the MS4, including restaurants and vehicle service facilities. The City will conduct internet research of model stormwater programs across the U.S. to collect and review BMPs and outreach materials developed for these sectors (this research will overlap with research for municipal operations as part of MCM #6 – Pollution Prevention/Good Housekeeping for Municipal Operations). Educational materials, such as EPA’s *After the Storm*

brochure, will also be mailed to businesses. Detailed recordkeeping of activities performed will be maintained by the City.

The *After the Storm* brochure and other materials will be jointly developed by the LTSTF, the City, and the ACWP for use with both residential and business audiences. Door stickers will be developed to educate business staff (restaurants, groceries, auto facilities, etc.) to never dump wastes on the ground, and to help individuals understand that the storm drain connects directly to surface water. A stormwater fact sheet will be developed specifically for automotive businesses. Stormwater information will be added to any existing restaurant permitting fact sheets. All of the activities will be conducted in coordination with the activities performed to comply with the MCM #6 requirements so that one educational fact sheet will meet the needs for municipal fleet maintenance operations and vehicle repair and auto body businesses.

Table 33: Implementation Schedule – Business Education

Permit Period	Measurable Goal
Year 1	City will develop a strategy for providing outreach to businesses that impact the MS4.
Year 2	City will perform two (2) pilot workshop presentations to solicit feedback from businesses. Data will be used to evaluate effectiveness and to adjust curriculum. Cost of BMP will be determined. Site Visits will be conducted. 25% of targeted businesses will be contacted each year, starting this year. Fact sheets, checklists and other materials will be developed. A target number of business will be identified.
Year 3	Refined curriculum will be tested with four (4) workshops. Fact sheets and other materials will be distributed.
Years 4-5	Budget developed for full implementation. Perform four (4) presentations per year targeting various businesses.

Table 34: BMP Responsibility – Business Education

Primary Department	Support Groups
City Public Facilities Dept.	Local Business Organizations TCEQ Small Business Program South Texas Environmental Institute (STEI) City Planning Department City Engineering Department Arroyo Colorado Watershed Partnership (ACWP)

5.3.4 General Ordinances

The City will develop ordinances, accept input from the public committees, and work with the LTSTF in evaluating and implementing the ordinances. The City Attorney will review the ordinance language. The templates will also be submitted to the citizen advisory group for review. The City will use TCEQ and EPA guidance and model ordinances to facilitate this BMP. Some of

the ordinances that may be developed and implemented include:

- Erosion and sediment control
- Greenspace preservation
- Hazardous material control
- Commercial litter prevention
- Concrete catch truck onsite washout
- Water pollution prevention

Table 35: Implementation Schedule – General Ordinance

Permit Period	Measurable Goal
Year 1	Evaluate existing ordinances to compare applicability. Develop outreach program specifically for this BMP
Years 2-5	Develop ordinance and adopt. Enforce ordinance. Work with partnerships and public advisory committees. Train inspectors and educate regulated community. Develop a feedback potential and a possible list server.

Table 36: BMP Responsibility – General Ordinance

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) City Enviro./Health Dept. City Engineering Department City Legal Department Citizen Advisory Group City Commission

5.3.5 LID and Smart Growth Planning

The City will work together with the LTSTF to conduct internet research and work with the LTSTF to develop a fact sheet on stormwater protection for landscape professionals, and to develop smart growth, green engineering and low impact development (LID) programs. In addition, the City will obtain and/or develop information on potential stormwater impacts from pressure-washing sidewalks, discarded shopping carts, window washing, concrete activities, and other business related activities. A brochure and outreach plan regarding BMPs for the aforementioned activities will be developed in 2009.

Table 37: Implementation Schedule – LID and Smart Growth

Permit Period	Measurable Goal
Year 1	No Activity
Years 2-5	Provide educational materials and/or training for developers, builders, and engineers. Develop a construction site erosion control training program for developers.

Table 38: BMP Responsibility – LID and Smart Growth

Primary Department	Support Groups
City Public Facilities Dept.	Local Business Organizations City Chamber of Commerce South Texas Environmental Institute (STEI) City Planning Department City Engineering Department LRGV TPDES Stormwater Task Force (LTSTF)

5.3.6 Illicit Discharge Inspections

The City will develop a program to conduct inspections to identify the presence and determine the source of illicit connections and illegal dumping activities. The City will develop a program incorporating policy, response, inspections, auditing and training. The City will train their building inspectors and their engineering staff. If necessary, the City will entertain privatization of this BMP, in part, or in its entirety.

Table 39: Implementation Schedule – Illicit Discharge Inspections

Permit Period	Measurable Goal
Year 1	City will assess regulatory authority and infrastructure.
Years 2-5	Develop a comprehensive program, and ordinances if necessary. Start a training program. Develop program until fully implemented.

Table 40: BMP Responsibility – Illicit Discharge Inspections

Primary Department	Support Groups
City Public Facilities Dept.	City Engineering Department City Planning Department, Inspections Division South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.3.7 Business Site Inspections

The City will also develop draft stormwater criteria to be required of all businesses, and solicit input from existing businesses regarding feasibility and appropriateness of the new criteria. A Criteria Checklist will be developed for vehicle repair shops, auto body shops, restaurants and other similar businesses. The City will visit major businesses and review stormwater criteria during the site visits.

Table 41: Implementation Schedule – Business Site Inspections

Permit Period	Measurable Goal
Year 1	City will develop an outreach strategy for businesses that impact the MS4.
Year 2	City will conduct a workshop to solicit feedback from businesses. Cost of BMP will be determined. Fact sheets, checklists and other materials will be developed. A target number of business will be identified.
Years 3-5	Data will be used to evaluate effectiveness and to adjust curriculum. 25% of targeted businesses will be inspected each year, starting in Year 3. City will perform two (2) business inspections per month.

Table 42: BMP Responsibility – Business Site Inspections

Primary Department	Support Groups
City Public Facilities Dept.	Local Business Organizations TCEQ Small Business Program City Enviro./Health Dept. South Texas Environmental Institute (STEI) City Planning Department Arroyo Colorado Watershed Partnership (ACWP)

5.3.8 Household Hazardous Waste

The City will develop a Household Hazardous Waste Program. At the very least, it will comprise an outreach task that will be incorporated into MCM #1 - Public Education and Outreach. The City will seek partnerships with the LTSTF and ACWP to possibly expand the program.

Table 43: Implementation Schedule – Household Hazardous Waste

Permit Period	Measurable Goal
Year 1	City will assess regulatory authority and infrastructure.
Year 2	Start the outreach program. Determine target community, number of residents, businesses, etc. Identify data that can be used to develop a good program, including quantity of waste produced, minimization goals, costs, benefits, and waste disposal quantities.
Years 3-5	Achieve a 25% outreach goal of total target community. Analyze potential of a comprehensive program. Develop program until fully implemented.

Table 44: BMP Responsibility – Household Hazardous Waste

Primary Department	Support Groups
City Public Facilities Dept.	City Planning Department, Inspections Division City Engineering Department South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.4 Construction Site Storm Water Controls BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement:

Construction Site Storm Water Runoff Control

The MS4 operator, to the extent allowable under State and local law, must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to the small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre or if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more of land. The MS4 operator is not required to develop, implement, and/or enforce a program to reduce pollutant discharges from sites where the construction site operator has obtained a waiver from permit requirements under NPDES or TPDES construction permitting requirements based on a low potential for erosion.

- (a) The program must include the development and implementation of, at a minimum, 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 and local law.**
- (b) Requirements for construction site contractors to, at a minimum:**
 - (1) implement appropriate erosion and sediment control BMPs; and**
 - (2) control waste such as discarded building materials, concrete truck washout water, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.**
- (c) The MS4 operator must develop procedures for:**
 - (1) site plan review which incorporate consideration of potential water quality impacts;**
 - (2) receipt and consideration of information submitted by the public; and**
 - (3) site inspection and enforcement of control measures to the extent allowable under state and local law.**

The following table lists BMPs that meet the requirements of MCM 4.

Table 45: Construction Site Storm Water Controls BMPs

Section	MCM #4: Construction Site Storm Water Controls Description of BMP	BMP* Type	YEAR SCHEDULE (YEAR)				
			1	2	3	4	5
5.4.1	Erosion Control Ordinance	C	X	X	X	X	X
5.4.2	Construction Site Plan Review and Oversight	I	X	X	X	X	X
5.4.3	Site Inspection and Policy Enforcement	I	X	X	X	X	X
5.4.4	Contractor Certification	C	X	X	X	X	X
5.4.5	Construction Site Waste Management	C	X	X	X	X	X
5.4.6	Development of BMP menus	C	X	X	X	X	X

I - INDIVIDUAL BMP C - COMMON BMP S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type*

X – notes activity, see Section for details

5.4.1 Erosion Control Ordinance

The City will develop an Erosion Control Ordinance for various activities to comply with TPDES requirements. The City is empowered to develop the ordinance, to accept input from public and municipal committees, and to work with local partnerships in evaluating and implementing this ordinance. The ordinance will include engineering, construction and post-construction requirements that focus on erosion control. Furthermore, the ordinance will regulate construction site stormwater runoff controls that reduce pollutants in stormwater runoff. Moreover, the ordinance must stipulate sanctions to ensure compliance, to the extent allowable under Federal, State or local law. The ordinance must regulate construction activities that result in land disturbance of greater than or equal to one (1) acre pursuant to the TPDES regulations. Reduction of pollutants in stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development that would disturb one (1) acre or more. This includes a construction site on a lot that measures one-quarter (1/4) acre that exists within a ten (10) acre forty (40) lot subdivision development. The City attorney will be required to review the ordinance language. The ordinance will be evaluated based on historical efforts by neighboring Phase I cities, TCEQ guidelines and EPA sources. All comments and feedback will be reviewed by the City’s workgroup.

Table 46: Implementation Schedule – Erosion Control Ordinance

Permit Period	Measurable Goal
Year 1	Evaluate existing ordinances to compare applicability.
Years 2	Develop ordinance and adopt. Develop outreach program specifically for this BMP. Work with partnerships and public advisory committees. Train inspectors and educate regulated community. Enforce ordinance.
Year 3-5	Develop a feedback mechanism and a possible list server.

Table 47: BMP Responsibility – Erosion Control Ordinance

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) City Engineering Department Arroyo Colorado Watershed Partnership (ACWP) City Legal Department City Public Facilities Department Citizen Advisory Group City Commission

5.4.2 Construction Site Plan Review and Oversight

A construction site stormwater runoff control program will be developed and implemented to assure adequate design, implementation, and maintenance of BMPs at construction sites within the MS4 service area to reduce pollutant discharges and protect water quality. The program will include the development and implementation of:

- i. Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;
- ii. Procedures for site plan review during planning and permitting which incorporate consideration of potential water quality impacts;
- iii. City TPDES permitting process to include fee, fact sheet, and BMP menu;
- iv. A policy that defines responsibility for the on-site Stormwater Pollution Prevention Plan (SWP3) pursuant to TPDES regulations. It is conceivable that each contractor working at the same job site, whether simultaneously or not, may be required to obtain its own TPDES permit, unless the developer allows for use of one (1) overall TPDES permit under the developer’s authority.

Table 48: Implementation Schedule – Construction Site Plan Review and Oversight

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Review and revamp existing construction plan review process. Develop a public awareness program.
Years 3-5	Implement the review process and permitting process. Track city issued TPDES permits. Evaluate an update policy annually.

Table 49: BMP Responsibility – Construction Site Plan Review and Oversight

Primary Department	Support Groups
City Engineering Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) City Engineering Department City Public Facilities Department City Planning Department

5.4.3 Site Inspection and Policy Enforcement

The construction site stormwater runoff control program shall have an inspection and enforcement component. City will develop procedures for site inspection and enforcement of control measures. The City shall evaluate in house staff to determine resources to implement this BMP. City shall consider privatization of this BMP.

Table 50: Implementation Schedule – Site Inspection and Policy Enforcement

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Start developing site inspection program. Train city staff. Develop enforcement policy.
Years 3-5	Implement enforcement policy. Bring utility construction, commercial, residential and other building TPDES inspections under one authority. Implement inspection program. Continue inspections.

Table 51: BMP Responsibility – Site Inspection and Policy Enforcement

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) City Engineering Department City Planning Department City Inspection Department

5.4.4 Contractor Certification

The City will develop a contractor certification program that will require all contractors regulated under the SWMP TPDES program to become certified TPDES professionals. The City

will work with the LTSTF to develop education requirements, course curricula, continuing education classes, training, and other activities that will assure competent project managers will oversee TPDES regulated activities within construction sites within the City’s permitted area. The City will review and approve training providers and educational materials.

Table 52: Implementation Schedule – Contractor Certification

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop partnerships with professional education providers. Develop a certification program. Provide awareness and outreach. Provide one (1) certification course.
Years 3-5	Provide two (2) certification courses per year within the permitted area. Obtain feedback from regulated community, evaluate program, and update as necessary.

Table 53: BMP Responsibility – Contractor Certification

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) City Engineering Department Texas A&M University-Kingsville (TAMUK) City Planning Department City Webmaster

5.4.5 Construction Site Waste Management

The City will develop requirements for construction site operators to control waste such as discarded building materials, refueling, concrete truck washout, chemicals, litter, and sanitary waste at construction site that may cause adverse impacts to water quality.

Table 54: Implementation Schedule – Construction Site Waste Management

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop Program. Implement awareness program.
Years 3-5	Start inspections. Update as needed, continue with program.

Table 55: BMP Responsibility – Construction Site Waste Management

Primary Department	Support Groups
City Public	Local Business Organizations

Facilities Dept.	City Planning Department City Engineering Department Arroyo Colorado Watershed Partnership (ACWP) LRGV TPDES Stormwater Task Force (LTSTF) City Webmaster
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5.4.6 Development of BMP menus

The City will develop a menu of BMPs that will be pre approved for use within its permitted area. City will research existing municipal programs, internet resources, EPA and TCEQ libraries and evaluate existing City BMPs.

Table 56: Implementation Schedule – Development of BMP menus

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop BMP menus for various activities. Provide awareness program. Use website for outreach.
Years 2-5	Fully implement BMP menu. Update as needed.

Table 57: BMP Responsibility – Development of BMP menus

Primary Department	Support Groups
City Public Facilities Dept.	City Inspections Department City Engineering Department City Planning Department South Texas Environmental Institute (STEI) Arroyo Colorado Watershed Partnership (ACWP)

5.5 *Post-Construction Stormwater Management in New Development and Redevelopment BMPs*

The BMPs listed in this section were selected to meet the following regulatory requirement:

Post-Construction Storm Water Management in New Development and Redevelopment

To the extent allowable under state and local law, the MS4 operator must 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 of land, including projects less than one acre that are part of a larger common plan of development or sale that will result in disturbance of one or more acres, that discharge into the small MS4. The program must ensure that controls are in place that would prevent or minimize water quality impacts. The permittee shall:

- (a) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for the community;
- (b) Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under state and local law; and
- (c) Ensure adequate long-term operation and maintenance of BMPs.

The following table lists BMPs that meet the requirements of MCM 5.

Table 58: Post-Construction Stormwater Management in New Development and Redevelopment BMPs

Section	Description of BMP	BMP* Type	IMPLEMENTATION SCHEDULE (YEAR)				
			1	2	3	4	5
5.5.1	Post-Construction Ordinance	C	X	X	X	X	X
5.5.2	Drainage Design Policy	C	X	X	X	X	X
5.5.3	BMP Inspection and Maintenance	C	X	X	X	X	X
5.5.4	Land Use Plan	I	X	X	X	X	X

I - INDIVIDUAL BMP C - COMMON BMP S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type*

X – notes activity, see Section for details

5.5.1 Post-Construction Ordinance

The management of stormwater runoff from sites after the construction phase is vital to controlling the impacts of development on urban water quality. The increase in impervious surfaces such as rooftops, roads, parking lots, and sidewalks due to land development can have a detrimental

effect on aquatic systems. Increased areas of impervious cover have been associated with stream warming and loss of aquatic biodiversity in urban areas. Runoff from impervious areas can also contain a variety of pollutants that are detrimental to water quality, including sediment, nutrients, road salts, heavy metals, pathogenic bacteria, and petroleum hydrocarbons.

The main goal of the post-construction ordinance for existing development is to limit surface runoff volumes and reduce water runoff pollution loadings. There are other ideas that can be included in an ordinance to improve its ability to control stormwater runoff. The ordinance could include what nonstructural and structural stormwater practices are allowed within the community. Communities may also wish to add language regarding on-site stormwater requirements and whether off-site treatment is an option. The City will review examples of existing ordinances including language dealing with each of the issues above. The City will examine each ordinance for the language that is appropriate for the stormwater program (EPA, 2008).

Table 59: Implementation Schedule – Post-Construction Stormwater Management in New Development and Redevelopment BMPs

Permit Period	Measurable Goal
Year 1	Evaluate existing ordinances to compare applicability.
Year 2	Develop ordinance and adopt. Develop outreach program specifically for this BMP Work with partnerships and public advisory committees. Train inspectors, regulated community.
Years 3-5	Enforce ordinance. Develop a feedback potential and a possible list server.

Table 60: BMP Responsibility – Post-Construction Stormwater Management in New Development and Redevelopment BMPs

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Valley Development Council (LRGVDC) City Engineering Department City Planning Department Arroyo Colorado Watershed Partnership (ACWP)

5.5.2 Drainage Design Policy

The City will update its existing drainage design policy to include provisions for the implementation of proper erosion and sediment controls and waste management on applicable construction sites.

Table 61: Implementation Schedule – Drainage Design Policy

Permit Period	Measurable Goal
Year 1	Review drainage policy.
Year 2	Prepare awareness program. Update if necessary.
Years 3-5	Implement and enforce the policy.

Table 62: BMP Responsibility – Drainage Design Policy

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) City Environ/health Department City Engineering Department Arroyo Colorado Watershed Partnership (ACWP)

5.5.3 BMP Inspection and Maintenance

The City will develop a program to establish regular and routine inspections and maintenance procedures for structural post construction BMPs. This BMP will assure post construction BMPs are in good working order, aesthetically pleasing, and repaired as soon as possible.

Table 63: Implementation Schedule – BMP Inspection and Maintenance

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop BMP inspection program.
Years 3-5	Perform inspections & maintenance of structural BMPs according to approved program.

Table 64: BMP Responsibility – BMP Inspection and Maintenance

Primary Department	Support Groups
City Public Facilities Dept.	City Inspections Department Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) City Engineering Department

5.5.4 Land Use

The City will incorporate stormwater management measures into its existing land use policies and zoning requirements.

Table 65: Implementation Schedule – Land Use

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Establish an awareness program. Review zoning laws and subdivision policy.
Years 3-5	Review and update land use policy. Update the land use policy at least once during the permit period.

Table 66: BMP Responsibility – Land Use

Primary Department	Support Groups
City Public Facilities Dept.	City Planning Department South Texas Environmental Institute (STEI) City Engineering Department Arroyo Colorado Watershed Partnership (ACWP)

5.6 Pollution Prevention/Good Housekeeping for Municipal Operations BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement:

<p>Pollution Prevention/Good Housekeeping for Municipal Operations</p> <p>A section within the SWMP must be developed to establish an operation and maintenance</p>

program, including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

(a) Good Housekeeping and Best Management Practices (BMPs)

Housekeeping measures and BMPs (which may include new or existing structural or non-structural controls) must be identified and either continued or implemented with the goal of preventing or reducing pollutant runoff from municipal operations. Examples of municipal operations and municipally owned areas include, but are not limited to:

- (1) street, road, or highway maintenance;
- (2) park and open space maintenance;
- (3) fleet and building maintenance;
- (4) storm water system maintenance;
- (5) new construction and land disturbances;
- (6) municipal parking lots;
- (7) vehicle and equipment maintenance and storage yards;
- (8) waste transfer stations; and
- (9) salt/sand storage locations.

(b) Training

A training program must be developed for all employees responsible for municipal operations subject to the pollution prevention/good housekeeping program. The training program must include training materials directed at preventing and reducing storm water pollution from municipal operations. Materials may be developed, or obtained from the EPA, states, or other organizations and sources. Examples or descriptions of training materials being used must be included in the SWMP.

(c) Structural Control Maintenance

If BMPs include structural controls, maintenance of the controls must be performed at a frequency determined by the MS4 operator and consistent with maintaining the effectiveness of the BMP. The SWMP must list all of the following:

- (1) maintenance activities; to reduce floatables and other pollutants
- (2) maintenance schedules; and long-term inspection procedures for controls used.

(d) Disposal of Waste

Waste removed from the small MS4 and waste that is collected as a result of maintenance of storm water structural controls must be properly disposed. A section within the SWMP must be developed to include procedures for the proper disposal of waste, including:

- (1) dredge spoil;
- (2) accumulated sediments; and
- (3) floatables.

(e) Municipal Operations and Industrial Activities

The SWMP must include a list of all:

(1) municipal operations that are subject to the operation, maintenance, or training program Pollution Prevention/Good Housekeeping for Municipal Operations (cont.)

developed under the conditions of this section; and

(2) municipally owned or operated industrial activities that are subject to TPDES industrial storm water regulations.

The following table lists BMPs that meet the requirements of MCM 6.

Table 67: Pollution Prevention/Good Housekeeping for Municipal Operations BMPs

Section	MCM #6: <i>Pollution Prevention/Good Housekeeping for Municipal Operations</i> Description of BMP	BMP* Type	YEAR SCHEDULE (YEAR)				
			1	2	3	4	5
5.6.1	Stormwater Sewer System O&M	I		X	X	X	X
5.6.2	Street Sweeping	I		X	X	X	X
5.6.3	City Employee Training	S	X	X	X	X	X
5.6.4	O&M Certification and SOP program	C	X	X	X	X	X
5.6.5	Site Visits	I	X	X	X	X	X
5.6.6	Storm System Maintenance and Cleaning	I	X	X	X	X	X
5.6.7	Pesticides, Herbicide and Fertilizer Management						
5.6.8	Collection and Disposal of Stormwater Waste						

I - INDIVIDUAL BMP C - COMMON BMP S - SHARED BMP
**see page 10 of this SWMP for explanation of the BMP Type*
X – notes activity, see Section for details

5.6.1 Stormwater Sewer System O & M

The permittee must develop and implement a stormwater pollution prevention operation and maintenance program. The program must prevent and/or reduce stormwater pollution from facilities such as landfills, airports, streets, roads, right-of-ways, alleys, highways, municipal parking lots, maintenance and storage yards, fleet or maintenance shops with outdoor storage areas, caliche, soil, and compost storage locations, recycling centers, disposal areas operated by the permittee, and waste transfer stations. The program will also regulate activities such as park and open space maintenance, fleet and building maintenance, street maintenance, new construction of municipal facilities, and stormwater system maintenance, as applicable.

The City will develop an inventory of all potential sources of stormwater pollution. A template will be developed to identify municipal operations that are potential sources of stormwater pollution. The City designated department will contact all municipal departments to fill gaps and expand upon information provided by the inventories. Data needed from the inventories may include:

- Source or type of operation
- Location of facility/operation
- Contact information
- Activities conducted on-site
- Proximity to stormwater or surface water
- Potential impact to stormwater or surface water
- Percent of site with impervious surface

The City will use the inventory to prioritize municipal operations based on number of facilities, number of stormwater polluting activities identified, acreage affected, distance to surface water or to conveyance structure and the percent of impervious surface on-site. Municipal operations that will be scrutinized include:

- Vehicle repair or fleet maintenance
- Street and road maintenance, street sweeping (presented as a separate BMP)
- Right of way mowing

- Storm system maintenance and cleaning, including detention facilities, on site detention ponds, and outfalls (presented as a separate BMP)
- Parks maintenance
- Stormwater waste removal and disposal (presented as a separate BMP)
- Golf course maintenance
- Landfill maintenance
- Transfer station and recycling center operations
- Municipal curbside solid waste activities
- Wastewater and water treatment facility operations
- Operation and maintenance of intermediate receiving waterways owned by the permittee
- Operation and maintenance of lift stations

The City will recommend designing a generic Stormwater Pollution Control Plan that may include the elements listed below:

- Employee training plan (presented as a separate BMP)
- Implementation and tracking of BMPs
- Run-off control plans
- Map of facility
- Spill Prevention and Response Plan
- Recordkeeping
- BMP lists, resource sheets, stormwater messages, and other resources
- Tracking of inspections (copies of site visit checklists, follow-up letters, etc.)

The plan will provide a central location for copies of required BMPs and resource sheets.

Table 68: Implementation Schedule – Stormwater Sewer System O & M

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop O&M program. Develop Inventory and prioritize activities. Develop a BMP for each activity. Target 25% of activities.
Year 3	Develop target performance measures. Implement O&M program. Develop mitigation programs.
Years 3-5	Amend SWMP as needed. Target 25 % of activities each year until fully implemented.

Table 69: BMP Responsibility – Stormwater Sewer System O & M

Primary Department	Support Groups
City Public Facilities Dept.	City Municipal Departments

5.6.2 Street Sweeping

The City will evaluate its street sweeping program the first year and based on its assessment will continue or improve its program.

Table 70: Implementation Schedule – Street Sweeping

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Evaluate existing street sweeping program. Develop performance measures or continue with existing program.
Years 3-5	Continue or Improve program. Implement performance measures

Table 71: BMP Responsibility – Street Sweeping

Primary Department	Support Groups
City Public Facilities Dept.	City Street Maintenance Department

5.6.3 City Employee Training Program

The City will implement a training program that includes an employee component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. The program will also inform public employees of the impacts associated with illegal discharges and improper disposal of waste from municipal operations.

Table 72: Implementation Schedule – City Employee Training Program

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop training program.
Years 3-5	Start training employees, existing and new hires. New hires must be trained within one (1) year. Develop training record tracking system.

Table 73: BMP Responsibility – City Employee Training Program

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF)

5.6.4 O&M Certification and SOP program

The City will develop a certification program for municipal operations. The SWMP will

develop policy, SOPs, and certification programs that will be evaluated annually.

The City will develop BMPs and SOPs for Municipal activities. The BMPs will target stormwater pollution runoff control for municipal activities or operations. A BMP table will also be created to help determine what BMPs would likely apply to which activities. In addition, focus group meetings will be conducted to get input from municipal employees on the draft BMPs. The attendees will be asked what activities they perform each day that impact stormwater and whether or not the BMPs are reasonable or attainable. After the focus group meetings, the BMPs will be modified to reflect input received from the focus groups.

The City will develop criteria checklists for the priority operations that specify required BMPs. Staff will use these checklists to gather data on-site to determine if an operation is a concern. The City will also develop resource sheets for BMPS for the priority municipal operations. These sheets will list the required BMPs for effective management of stormwater runoff from municipal operations.

Table 74: Implementation Schedule – O&M Certification and SOP program

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Research existing programs using internet, other MS4 permittee programs. Develop fact sheets, checklists and recordkeeping procedures.
Years 3-4	Expand program to other departments. Update as needed. Develop BMPs. Assign staff to focus groups. Start developing certification program. Implement program at Public Facilities.
Year 5	Implement program in all appropriate departments.

Table 75: BMP Responsibility – O&M Certification and SOP program

Primary Department	Support Groups
City Public Facilities Dept.	City Public Facilities Department City Parks and Recreation Department

5.6.5 Site Visits

The City will conduct site visits of various municipal operations to determine the practicality of the BMPs and certification criteria and also to provide staff with a better understanding of operations.

The BMPs and certification criteria will be edited based on the site visit experiences. Follow-up letters will be sent to each operation after the each visit, noting the practices that were already in place to protect stormwater and the potential stormwater impacts that need to be corrected to achieve effective management.

Table 76: Implementation Schedule – Site Visits

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop a Site Inspection Protocol. Develop a list of target activities. Develop inspection checklist.
Years 3-5	Conduct annual visits. Implement site visit program, conduct quarterly visits to targeted activities. Use feedback from previous year to update program.

Table 77: BMP Responsibility – Site Visits

Primary Department	Support Groups
City Public Facilities Dept.	City Engineering Department City Parks and Recreation Department

5.6.6 Storm system maintenance and cleaning

The City already conducts routine maintenance of its stormwater system throughout the year to remove floatables, debris, sediment and litter. The City also responds to illegal dumping into its sewer system. The City will develop a program that will detect areas requiring attention, assess potentially detrimental conditions, and conduct inspections. The program will prioritize areas in need of maintenance.

Table 78: Implementation Schedule – Storm system maintenance and cleaning

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop a schedule for visual inspections and routine maintenance.
Years 3-5	Continue program and update as needed. Clean system in response to reporting. Develop inspection process and recordkeeping process.

Table 79: BMP Responsibility – Storm system maintenance and cleaning

Primary Department	Support Groups
City Public Facilities Dept.	City Engineering Department. City Parks and Recreation Department. City Health Inspections Department.

5.6.7 Pesticides, Herbicide and Fertilizer Management

The City will develop procedures to manage use of pesticides, herbicides, and fertilizers for different municipal activities. The presence of landscaping chemicals in stormwater runoff has a direct impact on the health of aquatic organism and can present a threat to humans through contamination of drinking water supplies.

Table 80: Implementation Schedule – Pesticides, Herbicide and Fertilizer Management

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Identify activities. Develop management procedures for each activity. Identify water quality friendly products.
Years 2-5	Implement program. Implement fully. Evaluate and adjust program.

Table 81: BMP Responsibility – Pesticides, Herbicide and Fertilizer Management

Primary Department	Support Groups
City Public Facilities Dept.	City Engineering Department. City Parks and Recreation Department.

5.6.8 Collection and Disposal of Stormwater Waste

Dredge spoil, sediment, and floatables collected through the implementation of stormwater sewer system maintenance BMPs will be disposed of properly. Materials collected will be tracked and evaluated.

Table 82: Implementation Schedule – Collection and Disposal of Stormwater Waste

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop a program that identifies sources. Identify proper procedures for handling and disposal. Develop a budget. Develop a tracking procedure.

Years 2-5	Develop performance measures. Implement program using performance measures.
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Table 83: BMP Responsibility – Collection and Disposal of Stormwater Waste

Primary Department	Support Groups
City Public Facilities Dept.	City Parks and Recreation Department.

5.7 Authorization for Municipal Construction Activities BMPs

The BMPs listed in this section were selected to meet the following regulatory requirement:

Authorization for Municipal Construction Activities

The development of a MCM for municipal construction activities is an optional measure and is an alternative to the MS4 operator seeking coverage under TPDES general permit TXR150000. Additionally, contractors working for the permittee are not required to obtain a separate authorization if they do not meet the definition of a construction site operator, as long as the permittee meets the status of construction site operator. Permittees that choose to develop this measure will be authorized to discharge storm water and certain non-storm water from

construction activities where the permittee can meet the definition of construction site operator in Part I of this general permit. The authorization to discharge under this MCM is limited to the regulated area, such as the portion of the MS4 located within an urbanized area or the area designated by TCEQ as requiring coverage. However, an MS4 operator may also utilize this MCM over additional portions of their MS4 that are also in compliance with all of the MCMs listed in this general permit. This MCM must be developed as a part of the SWMP that is submitted with the NOI for permit coverage. If this MCM is developed after submitting the initial NOI, a NOC must be submitted notifying the executive director of this change, and identifying the geographical area or boundary where the activities will be conducted under the provisions of this general permit. Utilization of this MCM does not preclude a small MS4 from obtaining coverage under the TPDES Construction General Permit, TXR150000, or under an individual TPDES permit.

(a) The MCM must include:

- (1) a description of how construction activities will generally be conducted by the permittee so as to take into consideration local conditions of weather, soils, and other site specific considerations;
- (2) a description of the area that this MCM will address and where the permittee's construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary); and
- (3) either a description of how the permittee will supervise or maintain oversight over contractor activities to ensure that the SWP3 requirements are properly implemented at the construction site; or how the permittee will make certain that contractors have a separate authorization for storm water discharges.
- (4) a general description of how a SWP3 shall be developed, according to Part VI.E. of the general permit, for each construction site.

Authorization for Municipal Construction Activities (cont.)

Part VI.E:

Operators of municipal construction activities that qualify for coverage under this general permit and that discharge storm water associated with construction activities that reach waters of the U.S. must:

1. develop a SWP3 according to the provisions of this general permit that covers the entire site and begin implementation of that plan prior to commencing construction activities;
2. post a signed copy of the notice contained in Attachment 1 of this general permit in a location at the construction site where it is readily available for viewing prior

- to commencing construction activities and maintain the notice in that location until completion of the construction activity and final stabilization of the site;
3. ensure the project specifications allow or provide that adequate BMPs may be developed and modified as necessary to meet the requirements of this general permit and the SWP3;
 4. ensure all contractors are aware of the SWP3 requirements, are aware that municipal personnel are responsible for the day-to-day operations of the SWP3, and who to contact concerning SWP3 requirements; and
 5. ensure that the SWP3 identifies the municipal personnel responsible for implementation of control measures described in the plan.

The following table lists BMPs that meet the requirements of MCM 7.

Table 84: Authorization for Municipal Construction Activities BMPs

Section	Optional MCM #7 - Authorization for Municipal Construction Activities Description of BMP	BMP* Type	IMPLEMENTATION SCHEDULE (YEAR)				
			1	2	3	4	5
5.7.1	Stormwater Pollution Prevention Plan (SWP3)	C	X	X	X	X	X
5.7.2	Contractor, Engineer, Architect Survey	C	X	X	X	X	X

I - INDIVIDUAL BMP C - COMMON BMP S - SHARED BMP

**see page 10 of this SWMP for explanation of the BMP Type
X – notes activity, see Section for details*

5.7.1 Storm Water Pollution Prevention Plan (SWP3)

The development of a MCM for municipal construction activities is an optional measure and is an alternative to the MS4 operator seeking coverage under TPDES general permit TXR150000. The objective of MCM #7 is to exempt the permittee from having to use TPDES GCP TXR150000 for each construction site owned by the permittee. This will save the local governments a considerable amount of revenue. Contractors working for the permittee will not be required to obtain a separate authorization and can use MCM #7 for authorization to discharge stormwater runoff into the MS4. The City will develop a comprehensive SWP3 to meet the requirements of this MCM.

The permittee will develop a general SWP³ to meet the requirements of MCM #7. The SWP3 will include the following:

- A site or project description.

- A description of the BMPs that will be used to minimize pollution in runoff that must identify the general timing or sequence for implementation.
- A description of permanent storm water controls.
- Other required controls and BMPs.
- Documentation of compliance with approved state and local plans.
- Maintenance requirements.
- Inspections of controls.
- Identification and implementation plan for appropriate pollution prevention measures for all eligible non-storm water components of the discharge, as listed in Part II.A.3 of General Construction Permit (GCP) TXR150000.
- The information required in Part III.B of GCP TXR150000.

The SWP3 will include:

- (1) a description of how construction activities will generally be conducted by the permittee so as to take into consideration local conditions of weather, soils, and other site specific considerations.
 - Soils Information will be required – SWP3 will show locations of unstable or highly erodible soils as determined by the local County Soil Survey and/or soil tests. SWP3 will show location of any soil test borings on plan and any geotechnical studies will be provided. Other soils information such as permeability, perched water table, etc. may be included.
 - SWP3 shall include a plan of action in case of inclement weather
 - the SWP3 shall include site specific conditions such as: surface water locations, existing natural areas, special notes for critical areas, location of practices, site development, limits of grading and clearing, vicinity map, etc.
 - Inspections will be conducted by city staff immediately after storm events greater than 0.5 inches of rain in a 24 hour period, or as required by the TPDES regulations.
- (2) a description of the area that this MCM will address and where the permittee's construction activities are covered;
- (3) how the permittee will make certain that contractors have a separate authorization for storm water discharges.
 - The city will incorporate into its construction permitting process, a policy that will require evidence of submittal of a NOI and of payment of local, state and federal fees.
 - The City SWP3 plan will require posting of site specific stormwater permit pursuant to TPDES regulations on site.
 - The contractors SWP3 plans will be submitted to the City during the permitting process for review and compliance to the City's SWMP.
 - Guidance and training material will be made available to the contractors.

In general, the city will require every TPDES regulated site within its jurisdiction to develop a SWP3. The city will provide the following to assist the regulated community:

- Guidance documents.

- An SWP3 template that will be developed from existing TCEQ, EPA and industry models.
- A variety of templates may be developed to accommodate type of construction (residential, small construction, large construction, etc.)
- The SWP3 will go through a review process to assure compliance with local, state and federal requirements.
- The city will develop an implementation program that will include inspections, evaluation, assessment and modification of BMPs, and feedback opportunities.

Table 85: Implementation Schedule – SWP3 BMPs

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop SWP3 to include ordinances, inspection policy, enforcement, and planning review. Develop feedback program.
Years 3-5	Implement program. Evaluate feedback and update program.

Table 86: BMP Responsibility – SWP3 BMPs

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) Texas A&M University-Kingsville (TAMUK) South Texas Environmental Institute (STEI) Lower Rio Grande Development Council (LRGVDC) City Engineering Department City Planning Department

5.7.2 Contractor, Engineer, Architect Survey

The City will update its existing drainage design policy to include provisions for the implementation of proper erosion and sediment controls and waste management on applicable construction sites.

Table 87: Implementation Schedule – Contractor, Engineer, and Architect Survey

Permit Period	Measurable Goal
Year 1	No Activity
Year 2	Develop Survey
Years 3-5	Submit an annual Survey to regulated community

Table 88: BMP Responsibility – Contractor, Engineer, Architect Survey

Primary Department	Support Groups
City Public Facilities Dept.	LRGV TPDES Stormwater Task Force (LTSTF) South Texas Environmental Institute (STEI) City Engineering Department