

**YUMA COUNTY  
STORMWATER  
MANAGEMENT PROGRAM**



**To fulfill requirements in the  
Small Municipal Separate Storm Sewer System (MS4)  
Arizona General Permit (AZG2002-002)  
7 APRIL 2004**

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## **Introduction**

The purpose of this document is to provide supplemental information regarding the Yuma County Stormwater Management Program (SWMP) submitted to the Arizona Department of Environmental Quality (ADEQ). This supplement is designed to comply with the ADEQ's general permit (AZG2002-002) for discharges of stormwater. In accordance with federal and state regulations, Yuma County has been designated a regulated Municipal Separate Storm Sewer System (MS4s), and desires to discharge under the Arizona General Permit. Yuma County has previously submitted a Notice of Intent (NOI) and a SWMP on 10 March, 2003 in accordance with Part III and Part V of the general permit.

Yuma County intends to fully implement the conditions in this SWMP no later than December 19, 2007.

## **Stormwater Management Program**

Yuma County has evaluated the permit requirements for the six minimum control measures specified in Part V.B. of the general permit. Based on that review, Yuma County has selected the best management practices (BMP's) for each control measure with the goal of reducing pollution from stormwater runoff to the maximum extent practicable (MEP). The SWMP identifies dates by which implementation of each BMP will begin, targeted completion dates for full implementation of each BMP, measurable goals, and the responsible persons for each action.

This supplement to the SWMP is broken down by each of the individual control measures.

## 1. Public Education and Outreach: Best Management Practices

**Table 1.1**  
**Public Education and Outreach**

<b>Permit Conditions</b>	<b>Best Management Practice</b>	<b>Measurable Goals</b>	<b>Start Date</b>	<b>Target Date for Implementation/Achievement</b>
Part V.B.1.a	Collect brochures, fact sheets, and other educational materials about stormwater, and distribute to the general public.	<ul style="list-style-type: none"> <li>• County personnel will develop and place storm water educational materials in County buildings and the Public Library.</li> <li>• County personnel shall develop brochures in both English and Spanish.</li> <li>• County personnel will review and update stormwater information and distribute materials as they become available.</li> </ul>	January 2004  June 2004  August 2004	July 2004  December 2004  Ongoing
Part V.B.1.a	Disseminate stormwater educational messages on government access cable television.	<ul style="list-style-type: none"> <li>• County personnel will produce one stormwater PSA and update annually.</li> <li>• County will show the PSA telecast each month during the rainy season, typically January through March of each year. The stormwater broadcasts will be shown at varying times throughout the day, and may typically run 4 times throughout the month. The date for show times will be determined by County public information staff. If requested, ADEQ staff will be notified when broadcasts are scheduled to be shown.</li> </ul>	March 2004  August 2004	August 2004  Ongoing
Part V.B.1.a	Yuma County will establish a webpage and disseminate the stormwater message with links on the County's website.	<ul style="list-style-type: none"> <li>• County will implement, maintain, and update as necessary stormwater educational messages on the Yuma County website.</li> <li>• Yuma County will include copies of the SWMP, as well as other resources on the website and will provide updates to new information as they become available.</li> </ul>	March 2004  August 2004	August 2004  Ongoing

Part V.B.1.a	Yuma County will respond to verbal or written public inquiries, comments, or concerns about stormwater management issues, and will fulfill those requests in a timely manner.	<ul style="list-style-type: none"> <li>• County personnel will develop a method for handling public inquiries regarding stormwater management.</li> <li>• Yuma County will review the information from the public and determine the best type of response. Appropriate responses may include: Providing information over the phone, sending e-mail or written correspondence and/or referring information to County inspectors for follow-up.</li> </ul>	<p>March 2004</p> <p>March 2004</p>	<p>September 2004</p> <p>December 2007</p>
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## 1. Public Education and Outreach: Additional Information

<b>Table 1.2 Public Education and Outreach</b>	
<b>Permit Citation</b>	<b>Plan</b>
Part V.B.1. i	<p>Public education and outreach is an important control measure for which Yuma County has extensive resources and experience. The County has a history of designing and implementing active education and outreach programs, and it is anticipated that stormwater issues can be appropriately included in existing programs and activities.</p> <p>The County's education program will reach residents through a variety of media, including the County's website, print media, and television. The educational materials will consist of fact sheets, brochures, news articles, and videos.</p>
Part V.B.1.ii	<p>Yuma County as part of its public education and outreach activities will distribute printed educational materials to county residents. The initial method to distribute information regarding stormwater issues will be through mass distribution of brochures to the public. In addition, brochures will also be available in County office buildings and the Yuma County Public Library. As the program progresses, additional training will be provided to homeowners, school groups, restaurants, churches, elementary schools, and residential and commercial developers.</p> <p>Information regarding stormwater issues shall also be made available on the Yuma County website.</p> <p>Yuma County will also provide information on stormwater issues through government access cable television.</p>
Part V.B.1.iii	<p>Target audiences for this measure will initially include contractors/developers, gas service stations, and restaurants. Targeted pollutants will be floatable materials including trash, sewage, illicit discharges including oil and grease, construction wastes, sedimentation and erosion. These pollutants were selected because an informed public can make a significant reduction in these pollutants. The County will assess other pollutants during the permit period and will address them in the County's education program as appropriate.</p>
Part V.B.1.iv	<p>It is estimated that 45-50% of the County's residents, or approximately 72,000 persons, will be reached by the efforts outlined in this MCM during the five-year permit period.</p>

Part V.B.1.v	<p>At the end of the 5-year permit term, Yuma County is expected to obtain the following goals reached:</p> <ul style="list-style-type: none"> <li>• Educated 70% of all restaurants</li> <li>• Educated 70% of the construction/development community</li> <li>• Educated 60% of service stations</li> <li>• Educated 45% of Yuma County residents</li> </ul>
Part V.B.1.vi	A list of measurable goals with scheduled timelines is specified in the Table 1.1 above.
Part V.B.1.vii	The Yuma County Stormwater Management Program Coordinator, Mr. Luis Miranda, has responsibility for implementing and coordinating the education activities. The Yuma County Department of Development Services Director, Mr. Harold Aldrich, may delegate this responsibility to other persons in the absence of Mr. Miranda.

## 2. Public Involvement and Participation: Best Management Practices

<b>Table 2.1 Public Involvement and Participation</b>				
<b>Permit Conditions</b>	<b>Best Management Practice</b>	<b>Measurable Goals</b>	<b>Start Date</b>	<b>Target Date for Implementation</b>
Part V.B.2.a	Comply with state and local public notice requirements.	<ul style="list-style-type: none"> <li>• Yuma County will document all public meetings and notices provided. Any submitted comments received from the public shall be forwarded to ADEQ in the annual report.</li> </ul>	Mar 2003	Dec 2007
Part V.B.2.a	Hold a public meeting on the SWMP and the NOI to encourage public involvement and participation.	<ul style="list-style-type: none"> <li>• Yuma County intends to hold a public meeting on the SWMP after it has been submitted to ADEQ. The public will be invited to provide comments and any new public input will be incorporated into the SWMP, and updated in the annual report.</li> <li>• County personnel will review on an annual basis any modifications to the SWMP. The changes/modifications will be submitted to ADEQ in the annual report.</li> </ul>	<p>Jul 2004</p> <p>Sept 2004</p>	<p>Sept 2004</p> <p>Dec 2007</p>
Part V.B.2.a	Update the Board of Supervisors on Stormwater Management Program issues.	<ul style="list-style-type: none"> <li>• Yuma County Department of Development Services will provide an update to Board of Supervisors no later than 15 September of each year.</li> <li>• Yuma County personnel will review the SWMP Best Management Practices and provide both ADEQ and the BOS with any recommended amendments throughout the permit period.</li> </ul>	<p>Mar 2004</p> <p>Sept 2004</p>	<p>Sept 2004</p> <p>Dec 2007</p>
Part V.B.2.a	Conduct volunteer monitoring of water resources	<ul style="list-style-type: none"> <li>• Yuma County Department of Development Services will solicit for volunteers and conduct water sampling of selected discharge points each year of the permit period within the limits of the regulated MS4. Volunteers will consist of</li> </ul>	Apr 2004	Jan 2005

		personnel from local environmental groups, schools, and colleges.		
Part V.B.2.b	Respond to verbal or written comments and/or requests for information.	<ul style="list-style-type: none"> <li>• Yuma County will respond on a timely basis to community inquiries regarding stormwater issues. This communication will either be oral or written in nature.</li> </ul>	April 2004	Ongoing
Part V.B.2.c	Provide information on the SWMP and NOI to the general public	<ul style="list-style-type: none"> <li>• Yuma County will make information regarding the SWMP and the NOI available on the Yuma County website.</li> <li>• Yuma County personnel will review the website and make quarterly changes, as appropriate.</li> </ul>	<p>Jul 2004</p> <p>Sept 2004</p>	<p>Sept 2004</p> <p>Dec 2007</p>

## 2. Public Involvement and Participation: Additional Information

<b>Table 2.2 Public Involvement/ Participation</b>	
<b>Permit Citation</b>	<b>Plan</b>
Part V.B.2.d.i.	Yuma County recognizes the benefits of direct involvement in the County's stormwater management program by county residents. It is the County's experience that many residents are interested in providing input to the County on issues such as stormwater management and pollution prevention, and are willing to serve as volunteers. Yuma County intends to develop a core group of volunteers to help participate in stormwater management activities. The general public will be informed of stormwater meetings through newspaper advertisements, letters, or public service announcements.
Part V.B.2.d.ii.	Yuma County will develop a municipal stormwater advisory group (MSWAG) to discuss stormwater issues. The group will consist of municipal, citizen and business representatives from the phase II area. The group will make every attempt to meet at least on a semi-annual basis, if not more frequent basis, to discuss stormwater management issues. In addition, an attitude survey will be produced on the Yuma County website to survey residents, local business owners and operators, schoolchildren, and other groups.
Part V.B.2.d.iii.	Comments received from the public regarding stormwater issues will be either written or oral responses. In either case, every means available will be utilized to respond to comments promptly after receipt. While a detailed analysis of the response may not be immediately available, every attempt shall be made to respond to the inquiry in a timely manner.
Part V.B.2.d.iv.	The relevant information regarding Yuma County's stormwater management program will be made available on the Yuma County website. The website will contain information on best management practices, general stormwater information, and frequently asked questions regarding stormwater.
Part V.B.2.d.v.	A list of measurable goals for the public involvement/participation program is cited above in Table 2.1.
Part V.B.2.d.vi.	The dates by which Yuma County will achieve specific measurable goals are cited above in Table 2.1.
Part V.B. 2.d.vii.	The Storm Water Management Program Coordinator, Mr. Luis Miranda, is responsible for implementing and coordinating public involvement/participation activities. The Director, Department of Development Services may delegate this authority to other staff.

Part V.B.2.d.viii.	Yuma County will allow the public to review the SWMP and NOI by providing copies to the Public Library, as well as other county buildings. In addition, information regarding the SWMP will be made available on the Yuma County web site for review.
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### 3. Illicit Discharge and Elimination: Best Management Practices

**Table 3.1  
Illicit Discharge and Elimination**

Permit Conditions	Best Management Practice	Measurable Goals	Start Date	Target Date for Implementation
Part V.B.3.a.	Construct a program to detect and eliminate illicit discharges into a small MS4.	<ul style="list-style-type: none"> <li>• Yuma County personnel will develop and implement a plan to detect and address nonstormwater discharges, including illegal dumping to the system, education of inspectors and other field staff, enforcement procedures, and record keeping.</li> <li>• Yuma County Staff will develop standardized procedures for inspection program.</li> <li>• Yuma County Staff will develop training materials to educate staff on illicit discharges.</li> <li>• Yuma County Staff personnel will inspect outfalls.</li> </ul>	Mar 2004	Dec 2007
			Jan 2005	Dec 2005
			Dec 2005	Jun 2006
			Jan 2005	Dec 2007
Part V.B.3.b.	Create a stormwater systems map showing the location of outfalls.	• Yuma County personnel will create a map that supports the program to detect illicit discharges.	Jan 2006	Dec 2007
Part V.B.3.c.	Create an illicit discharge regulation that prohibits illicit discharges to stormwater systems.	<ul style="list-style-type: none"> <li>• Yuma County Staff will draft regulation.</li> <li>• Yuma County Staff will meet with attorneys</li> <li>• Yuma County Staff will meet with Public and obtain recommendations</li> <li>• Yuma County Department of Development Services will develop an ordinance and present it to the Board of Supervisors for approval.</li> </ul>	Mar 2004	Dec 2004
			Jan 2005	Apr 2005
			May 2005	Sept 2005
			Dec 2005	Dec 2006

Part V.B.3.d.	Detect, identify, and address illegal dumping and non-stormwater discharges.	<ul style="list-style-type: none"> <li>• Yuma County will develop procedures to define and prohibit illicit discharges to the County's stormwater system.</li> <li>• Yuma County will also review enforcement strategies to address illegal dumping into the drainage system and provide for corrective actions.</li> <li>• Yuma County staff personnel will distribute informational brochures to RV parks and develop PSA's to address illicit discharge issues.</li> </ul>	<p>April 2004</p> <p>Dec 2004</p> <p>Jan 2005</p>	<p>Dec 2005</p> <p>Dec 2007</p> <p>Dec 2007</p>
Part V.B.3.e.	Inform public employees, businesses, and the general public of the hazards associated with illegal discharges, including illegal dumping.	<ul style="list-style-type: none"> <li>• Yuma County will make information regarding illegal discharges available on the Yuma County website.</li> <li>• Yuma County will also distribute brochures to inform the local businesses regarding illegal discharges and dumping.</li> </ul>	<p>Jul 2004</p> <p>Oct 2004</p>	<p>Dec 2004</p> <p>Jan 2005</p>
Part V.B.3.f	Address discharges from the following categories: residential car washing, spills, de-chlorinated swimming pool discharges, and discharges from emergency fire fighting activities.	<ul style="list-style-type: none"> <li>• Yuma County personnel will develop training videos and brochures to address non-stormwater discharge flows.</li> </ul>	<p>May 2004</p>	<p>Dec 2007</p>
Part V.B.3.g	Inspect stormwater outfalls located in the County's urbanized area during dry weather to check for possible illicit discharges and document activities and observations.	<ul style="list-style-type: none"> <li>• Within 15 days of discharge detection, the County will investigate the discharge and will take action to eliminate discharge products.</li> <li>• Conduct dry weather inspections of all known stormwater system outfalls at least once, by Dec 2007.</li> </ul>	<p>Jul 2004</p> <p>Jan 2005</p>	<p>Dec 2007</p> <p>Dec 2007</p>
Part V.B.3.h	Address on-site sewage disposal systems that flow into the storm drainage system.	<ul style="list-style-type: none"> <li>• Yuma County personnel will develop informational packages regarding sewage disposal systems. The program will consist of mass distribution of brochures and other announcements.</li> </ul>	<p>April 2005</p>	<p>Dec 2006</p>

### 3. Illicit Discharge and Elimination: Additional Information

<b>Table 3.2 Illicit Discharge and Elimination</b>	
<b>Permit Citation</b>	<b>Plan</b>
Part V.B.3.i.i.	The goal of this component is to detect and eliminate illicit discharges from entering the storm drain system thereby reducing pollutant discharge to the maximum extent practicable. Yuma County technical personnel will visually inspect outfalls, perform an inventory of the drainage system, generate reports from inspections, and review complaints from the general public regarding illicit discharges. Through public education, the County will educate the public and County employees on the hazards of illegal discharges and dumping into the drainage system.
Part V.B.3.i.ii.	The County intends to develop and adopt an illicit discharge regulation that addresses the requirements outlined in the AZPDES requirements. The regulation will form the basis for the overall illicit discharge elimination program. Table 3.1 highlights the time schedule for adoption of a stormwater regulation.
Part V.B.3.i.iii.	The County intends to develop a map that depicts the location of stormwater system outfalls. The outfall mapping effort will be coordinated with the outfall inspection program. The County intends to enforce regulations within the jurisdictional boundaries of the MS4 to the maximum extent possible.
Part V.B.3.i.iv.	The County considers the discharges listed in Part I, Section C.2 of the General Permit to be allowable non-stormwater discharges. Non-stormwater discharges will be allowed into the MS4, per Part I Section C.2, unless the County identifies them as significant contributors of pollutants.
Part V.B.3.i.v.	Standardized procedures will be implemented to educate inspectors, maintenance workers, and other technical field staff to notice illicit discharges during the course of their daily duties and activities and report them to appropriate staff. The standard procedures include: Compile and prepare training materials (handouts and posters), and present information on illicit discharges during regular safety and tailgate meetings, staff personnel will also discuss how to report illicit discharges.
Part V.B.3.i.vi.	Flyers, posters and other educational and outreach materials will be made available to field staff to be distributed to personnel whenever illicit discharges are observed. General stormwater brochures and fact sheets for industrial, commercial, and residential programs will be distributed. The inspection training program for employees will typically consist of detection of sanitary wastewater sources, septic tank systems, laundry wastewaters, dewatering operations, improper disposal of household hazardous waste, spills, sump disposal, gas station materials and substances, industrial rinse waters, and swimming pool discharges.
Part V.B. 3.i.vii.	A list of measurable goals for the illicit detection and elimination program are listed in Table 3.1.
Part V.B.3.i.viii.	The dates for specific measurable goals are listed in Table 3.1.

#### 4. Construction Site Stormwater Runoff Control: Best Management Practices

<b>Table 4.1 Construction Site Stormwater Runoff Control</b>				
<b>Permit Conditions</b>	<b>Best Management Practice</b>	<b>Measurable Goals</b>	<b>Start Date</b>	<b>Target Date for Implementation</b>
Part V.B.4.a.	Adopt an erosion and sediment runoff control program that will include measures for construction site management and preparation of Stormwater Pollution Prevention Plans (SWPPP) for construction activities that disturb one acre or more of soil.	<ul style="list-style-type: none"> <li>• Yuma County personnel will develop and implement a plan to detect and address nonstormwater discharges, including illegal dumping to the system, education of inspectors and other field staff, enforcement procedures, and record keeping.</li> </ul>	Jun 2004	Jul 2006
Part V.B.4.b.	Adopt an ordinance to require construction site operators to practice erosion and sediment control. The ordinance shall also have provisions for County personnel to inspect construction sites.	<ul style="list-style-type: none"> <li>• Yuma County will develop a new ordinance to address construction site operations.</li> <li>• Yuma County will develop informational brochures to notify developers and construction operators of the new ordinance procedures.</li> <li>• Yuma County will conduct inspections of construction sites and render enforcement actions against those that violate provisions of the ordinance.</li> </ul>	June 2004  June 2004  Dec 2006	Dec 2006  Dec 2006  Dec 2007
Part V.B.4.c.	Yuma County will establish technical guidance materials that define the design requirements for stormwater runoff control measures as well as construction site pollution prevention. The SWPPP will be the main document used to confirm that operators are complying with stormwater regulations and future ordinance requirements.	<ul style="list-style-type: none"> <li>• Yuma County Department of Development Services will develop a checklist to determine the completeness of the SWPPP.</li> <li>• Yuma County will develop a procedures form to review and track SWPPP documents.</li> </ul>	June 2004  June 2004	Dec 2006  Dec 2007

Part V.B.4.d.	Yuma County will adopt written policies for inspecting construction sites and enforcing stormwater runoff controls.	<ul style="list-style-type: none"> <li>• Yuma County will develop inspection procedures and checklists for construction site compliance with regulations.</li> <li>• Yuma County inspectors will provide written documentation regarding each stormwater inspection.</li> </ul>	<p>Aug 2005</p> <p>Dec 2006</p>	<p>Dec 2006</p> <p>Dec 2007</p>
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#### 4. Construction Site Stormwater Runoff Control: Additional Information

<b>Table 4.2 Construction Site Stormwater Runoff Control</b>	
<b>Permit Citation</b>	<b>Plan</b>
Part V.B.4.e.i.	Yuma County will develop an ordinance to control sediment and erosion. The key elements for this ordinance may include: general provisions, non-stormwater discharges, prohibition of illicit connections, control of run-off, inspections, and enforcement actions.
Part V.B.4.e.ii.	Yuma County will develop appropriate fines for violations at construction sites. The intent of the enforcement action will be to ensure compliance with stormwater regulations. It is intended that the enforcement sections in the ordinance will contain administrative remedies in the form of notices of violation, compliance orders, cease and desist orders, administrative fines, and recovery of costs. The final composition of the ordinance will be dependant on public review and input, as well as adoption from the Yuma County Board of Supervisors.
Part V.B.4.e.iii.	Yuma County Department of Development Services will require contractors to develop and submit Stormwater Pollution Prevention plans (SWPPP) that include BMP's for management of the construction site prior to approval for construction. The SWPPP must contain information on the combination of BMP's (both structural and non-structural) that will be used on site. The SWPPP will require the use of appropriate perimeter controls on the construction site, submission of site plans for reviews, and other Best Management Practices (BMP's) for construction. Yuma County will utilize a SWPPP construction checklist to ensure completeness of the SWPPP plan. Upon proof that the applicant has submitted their NOI to ADEQ and has received an Authorization Letter, and after SWPPP review by technical staff, the applicant will then receive the appropriate County permit. Yuma County will develop site inspection forms for consistent inspections. The forms will specify control procedures and enforcement policies and procedures. The intent of the developed inspection forms is to include a review of documentation; NOI, SWPPP, also inspection of clean-up area lots, drain inlet protection, erosion control measures, construction material storage areas, portable restroom areas,, and final cleaning of drain inlets.
Part V.B.4.e.iv.	Yuma County realizes that once the regulation is adopted, complaints are likely to increase. The County will adopt a comprehensive complaint-receipt program that includes all aspects of the County's stormwater program. The public may communicate with Department officials via written correspondence, as well as through oral communications. In addition, Yuma County personnel will attempt to establish a website where the public can submit information for consideration regarding stormwater issues.
Part V.B.4.e.v.	Lists of measurable goals for the construction site runoff control program are listed in Table 4.1.

Part V.B.4.e.vi.	Lists of measurable dates for the construction site runoff control program are listed in Table 4.1.
Part V.B. 4.e.vii.	The Storm Water Management Program Coordinator, Mr. Luis Miranda, is responsible for implementing and coordinating activities relating the implementation of this MCM. Other responsible personnel shall include Mr. Curtis Cansler, Chief Building Official, and Mr. Roger Patterson, County Engineer.

## 5. Post-Construction Site Stormwater Management in New Development and Redevelopment: Best Management Practices

**Table 5.1**  
**Post-Construction Site Stormwater Management in New Development and Redevelopment**

Permit Conditions	Best Management Practice	Measurable Goals	Start Date	Target Date for Implementation
Part V.B.5.a.	Implement a successful post-construction water runoff program including an education component, which will identify BMP design criteria. Yuma County will involve members of the general public to be involved in developing the program in an effort to educate the members regarding this BMP.	<ul style="list-style-type: none"> <li>• Develop an education program for staff personnel responsible for reviewing project applications and development plans.</li> <li>• Train inspectors on BMP design criteria.</li> <li>• Yuma County personnel will create an informational brochure describing long term goals for soil stabilization and preservation.</li> </ul>	Aug 2006	Dec 2007
			Dec 2006	Dec 2007
			Dec 2006	Dec 2007
Part V.B.5.b.	Yuma County Department of Development Services and other technical staff members will meet on a semi-annual basis to discuss stormwater quality issues.	<ul style="list-style-type: none"> <li>• Design plans for new development and redevelopment of BMP's.</li> <li>• Distribute brochures, and other printed material about the new development and redevelopment program requirements.</li> </ul>	Aug 2006 Sept 2006	Dec 2007 Dec 2007
Part V.B.5.c.	Yuma County will create and adopt a County regulation that addresses post-construction runoff from new development and redevelopment projects.	<ul style="list-style-type: none"> <li>• Design enforcement actions to be taken on those individuals who violate stormwater ordinances.</li> <li>• Yuma County personnel will review current ordinances to determine long range drainage control measures.</li> </ul>	Aug 2006 Aug 2006	Dec 2007 Dec 2007
Part V.B.5.d.	Yuma County will create written policies and procedures for inspecting post-construction stormwater systems and enforcing the County's post-construction site control ordinances. This will include creating inspection checklists or reports and enforcement tools. The County will also implement a long-term structural BMP inspection and maintenance program to ensure the longevity of measures.	<ul style="list-style-type: none"> <li>• Yuma County will create education and training programs consisting of lectures and brochures regarding long-term BMP requirements.</li> <li>• Yuma County personnel will inspect BMP's after storm events and at regularly scheduled intervals throughout the year.</li> </ul>	Jan 2005	Dec 2006
			Dec 2006	Dec 2007

## 5. Post-Construction Site Stormwater Management in New Development and Redevelopment: Additional Information

**Table 5.2**  
**Post-Construction Site Stormwater Management in New Development and Redevelopment**

Permit Citation	Plan
Part V.B.5.e.i.	Yuma County's program to control post-construction stormwater runoff will consist of an education component, as well as the identification of BMP design criteria. Technical guidance materials that outline the BMP design and maintenance requirements will be developed and distributed to developers and contractors. Written polices for plan review of new development projects for post - construction BMP's will be developed, and staff will be trained in these procedures. Technical staff and other county department personnel, i.e. planning and zoning, building safety, engineering, will be involved in the development of practices and procedures for long term BMP management for post-construction activities. The intent of formulating this work group is to maintain post-construction run-off control and BMP management. The Yuma County website will be designed to register citizen complaints, as well as provide additional information regarding stormwater issues.
Part V.B.5.e.ii.	Yuma County will develop articles as part of an overall stormwater ordinance to promote public welfare regarding post-construction activities. The intent of the ordinance will be to regulate any development and attempt to control the activities that disturb or break the topsoil and result in the movement of earth on land. The goal of the ordinance is to limit surface runoff volumes and reduce water runoff pollutant loadings.
Part V.B.5.e.iii.	Yuma County's ordinance will specify language regarding post-construction activities and the continuation of BMP's after construction activities are complete. The procedures developed as part of the ordinance may change depending on future changes in regulations and other updates. Inspections will take place as part of continued BMP maintenance and operations and will include measures for enforcement actions if necessary.
Part V.B.5.e.iv.	Two major programs for Yuma County ( <i>Public Involvement/Participation</i> and <i>Public Information and Outreach</i> ) provide information regarding all aspects of the County's stormwater management program. Information regarding the program will be made available through mass distribution of brochures, program seminars, and website information.
Part V.B.5.e.v.	Lists of measurable goals for the construction site runoff control program are listed in Table 5.1.
Part V.B.5.e.vi.	Lists of measurable dates for the construction site runoff control program are listed in Table 5.1.
Part V.B. 5.e.vii.	The Storm Water Management Program Coordinator, Mr. Luis Miranda, is responsible for implementing and coordinating activities relating the implementation of this MCM. Other responsible personnel shall include Mr. Curtis Cansler, Chief Building Official, Mr. Monty Stansbury, Planning and Zoning Director, and Mr. Roger Patterson, County Engineer.

## 6. Pollution Prevention/ Good Housekeeping: Best Management Practices

<b>Table 6.1</b>				
<b>Pollution Prevention/ Good Housekeeping</b>				
<b>Permit Conditions</b>	<b>Best Management Practice</b>	<b>Measurable Goals</b>	<b>Start Date</b>	<b>Target Date for Implementation</b>
Part V.B.6.a.i.	Yuma County personnel will identify all County maintenance and operations activities and will then evaluate each for its potential to contribution to pollutant loading. To reduce the potential for pollutant loading, pollution prevention plans will be specified for activities and facilities where necessary.	<ul style="list-style-type: none"> <li>• Evaluate a minimum of eight priority County operations and maintenance activities and facilities.</li> <li>• Modify procedures for operations and maintenance activities as appropriate.</li> <li>• Develop pollution prevention plans for County-owned facilities evaluated, as appropriate.</li> <li>• Provide employee training on safety and other aspects of pollution prevention.</li> </ul>	Aug 2006	Dec 2007
			Jan 2007	Dec 2007
			Sept 2006	Dec 2007
			Oct 2006	Dec 2007
Part V.B.6.a.ii.	Yuma County will evaluate street sweeping practices to determine effectiveness in addressing public street runoff impacts on water quality.	<ul style="list-style-type: none"> <li>• Review County sweeping program and provide recommendations for street sweeping procedures, equipment, and priorities.</li> <li>• Develop and evaluate new procedures to control, reduce, or eliminate discharge of pollutants from parking lots, storage yards, and outdoor storage areas.</li> </ul>	Sep 2006	Dec 2007
			Feb 2007	Dec 2007
Part V.B.6.a.iii	Yuma County will use existing facilities and maintenance services to remove waste. The waste streams consist of accumulated sediments, floatables, and other debris.	<ul style="list-style-type: none"> <li>• Yuma County employees will be trained to remove floatable and other materials as part of the illicit disposal and detection program.</li> </ul>	Sep 2006	Dec 2007
Part V.B.6.a.iv.	Yuma County will review existing flood management projects for additional water quality protection.	<ul style="list-style-type: none"> <li>• Yuma County technical staff will review flood control procedures to focus on activities that have the greatest potential to contribute pollutants to stormwater, such as activities of facilities located close to stormwater system drainage points.</li> </ul>	Sep 2006	Dec 2007

## 6. Pollution Prevention/ Good Housekeeping: Additional Information

<b>Table 6.2 Pollution Prevention/ Good Housekeeping</b>	
<b>Permit Citation</b>	<b>Plan</b>
Part V.B.6.b.i.	The departments affected by this operation and maintenance program are: Yuma County Department of Development Services, Yuma County Public Works Department, and the Yuma County Facilities Management Department.
Part V.B.6.b.ii.	A list of known Yuma County stormwater system components will be developed in accordance with the provisions of the General Permit.
Part V.B.6.b.iii.	A map illustrating known Yuma County stormwater facilities will be developed in accordance with the provisions of the General Permit.
Part V.B.6.b.iv.	Yuma County has applied a Notice of Intent (NOI) for Coverage under AZPDES Permit Number AZG2002-002 for Discharges from Small MS4s to Waters of the United States.
Part V.B.6.b.v.	Yuma County personnel will be trained in pollution prevention issues related to County operations. The goal is to reduce pollution from County operations and empower employees to carryout their day to day responsibilities by minimizing the impacts on water quality.
Part V.B.6.b.vi.	Lists of measurable goals for the construction site runoff control program are listed in Table 6.1.
Part V.B.6.b.vii.	Lists of measurable dates for the construction site runoff control program are listed in Table 6.1.
Part V.B. 6.b.viii.	The Storm Water Management Program Coordinator, Mr. Luis Miranda, is responsible for implementing and coordinating activities relating the implementation of this MCM. Other responsible personnel shall include Mr. Bill Beck, Public Works Director, and Mr. Fred Schultz, Facilities Management Director.

## **QUALIFYING STATE OR LOCAL PROGRAM**

Yuma County has designed a Stormwater Management Program (SWMP) and will implement Best Management Practices (BMP's) in order to discharge stormwater under a general permit for small municipal separate storm sewer systems (MS4). The supplemental information presented in this document and the previous SWMP of 10 March 2003, fully comply with ADEQ requirements for discharge under the general permit.

## **SHARING RESPONSIBILITY**

Yuma County will have the responsibility to implement measures contained within this supplemental SWMP submission.

## **REVIEWING AND UPDATING THE SWMP**

Yuma County will review the SWMP in November of each year. Beginning in November 2004, Yuma County technical staff will evaluate the implementation status of each of the SWMP components. Yuma County technical staff will determine how the SWMP needs to be revised, if at all. If components of the SWMP need to be revised, Yuma County will advise ADEQ of the proposed revisions and provide justification of why the practice is ineffective, and why the replacement is expected to achieve the goals of management practice.

## **MONITORING**

Yuma County will evaluate program compliance, the appropriateness of identified BMP's, and progress towards achieving identified measurable goals. Yuma County currently has facilities draining to the Main Outlet Drain Extension, the Yuma Mesa Conduit, Fortuna Wash, the Yuma Valley Drain system, and the lower Colorado River in the Gila Valley. At this time, a Total Maximum Daily Load (TMDL) has not been formally established for the receiving waters. Therefore, Yuma County will not sample and analyze the discharge from the small MS4 at this time.

## **ANNUAL REPORTS**

Yuma County will submit an annual report to ADEQ by September 30, 2004 for the period of time between March 30, 2003 and June 30, 2004. Starting in 2005, Yuma County will submit additional annual reports by September 30 of each year for the preceding period of July 1 through June 30. The intent of the annual report will be to provide information required in Part V.G. of the general permit.

## **SITE INSPECTION PROCEDURES**

The Yuma County Department of Development Services, Building Safety Division, will be responsible for site inspections designed to control sediments, erosion and waste (particularly concrete wastes). The Division will also refer civil penalties associated with non-compliance to appropriate authorities upon adoption of a Yuma County ordinance.

At the time of inspection, if there are any stormwater infractions, Yuma County Department of Development Services will refer these non-compliance activities to ADEQ.

### **Procedures for site inspection**

Inspections will begin in the Building Safety Office of the Yuma County Department of Development Services. Inspections will begin with a review of site maps and familiarization with area roads, land uses and natural features. Technical staff will then review any documents pertaining to area site construction, such as Storm Water Pollution Prevention Plans (SWPPPs), site plan maps, permits granted to the contractor, records of previous compliance, Notice of Intents (NOI's) and Notices of Termination (NOT's). Inspections will be conducted according to the contract documents. The inspection of the site will be conducted as described below:

1. Inspectors will introduce themselves as Yuma County Building Inspectors at the construction site. The inspector shall communicate with the contractor on the types of stormwater management practices the inspector is looking for during the inspection.
2. Locate the on-site copy of the SWPPP and become familiar with any changes that have been made to the SWPPP.
3. Walk (or slowly drive) the perimeter of the site and note outfalls to water and/or drainage channels.
4. Inspect outfalls for signs of wastes and sediment. Document any waste or sediment.
5. Inspect active and inactive portions of the construction areas for properly installed Best Management Practices (BMP's) and material storage.
6. Communicate with the contractor the status of compliance and if the site will be referred to ADEQ for further investigation.



