

## Small MS4 Annual Report Form

Please refer to the attached instructions as you prepare your annual report.

### A. General Information

Name of MS4: Maricopa County

Contact Name: Stan Snitzer

Telephone Number: 602-506-6469

Email Address: ssnitzer@mail.maricopa.gov

Annual Report Period: July 1, 2009 through June 30, 2010

### B. SWMP Modifications and Additional Information. Attach a brief explanation if you check "yes" to any of the following statements.

- |   |   |  |
|---|---|--|
| 1. Changes have been made or are proposed to the SWMP since the last annual report, including changes in response to ADEQ's review. | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 2. The MS4 has annexed lands.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3a. The MS4 discharges directly to an impaired water.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3b. A water within 10 miles of the MS4's jurisdiction has been identified as impaired.  | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 4a. The MS4 discharges directly to water for which a TMDL has been established.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 4b. A TMDL has been established for a water within 10 miles of the MS4's jurisdiction.  | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 5. The MS4 has conducted analytical monitoring of stormwater quality.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 6. The MS4 is relying on another government entity to satisfy some permit obligations.  | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |

**C. Stormwater Management Program Status.** Provide the status of every BMP and measurable goal in your SWMP as described in the instructions.

**TABLE 1**

<b>Minimum Control Measure(s)</b>	<b>BMP</b>	<b>Measurable Goal (steps to measure progress)</b>	<b>New or Revised</b>	<b>Start Date</b>	<b>Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)</b>
<b>MCM 1: Public Education and Outreach</b>	<u>BMP 1.</u> Develop and distribute educational materials	Maricopa County Developed 5,000 Spanish language brochures. Procured more than 9,000 promotional items (doggie bags, wristbands, reusable bags and coloring books). Developed 2,500 English and 2,500 Spanish Food Service BMP posters to be distributed to restaurants in the unincorporated areas of Maricopa County. Continuing distribution of the County's After the Storm, Solution to Stormwater Pollution and the County's own brochure. Placed more than 2,000 printed materials in many public accessible County buildings (Planning and Development's One Stop Shop, Environmental Services Central lobby and all regional offices, all County Libraries,	No	Started in 2006	In progress.

		<p>Parks and Recreation Visitor Center). Attended 14 public educational events (3 MC Home &amp; Garden shows, National Public Lands Day, Tres Rios Nature Festival, 5 different Earth Day related events, Poster contest judging, NASCAR). Had direct contact with more than 4,800 people. Distributed more than more than 5,100 printed materials and handed out more than 3,000 promotional items. Did 7 classroom presentations at local elementary schools, spoke with more than 260 children. Held 10 presentations and workshops at different County Libraries regarding illegal dumping, nearly 100 people attended these presentations.</p>			
	<p><u>BMP 2.</u> Public education radio campaign on stormwater</p>	<p>The STORM organization aired a total of 16 weeks of radio commercials with approximately 1150 spots on 12 major stations, reached out to more than 3,100,000 listeners. The County's Solid Waste Department aired three versions of a Radio campaign about illegal dumping; a Spanish version was also aired. The County Was featured in 6 different local</p>	No	2008	In progress.

		news stories regarding illegal dumping throughout the year.			
	<b>BMP 3.</b> Maintain and update the Maricopa County Stormwater website	Continued to update the County's Stormwater website. <a href="http://www.Maricopa.gov/Stormwater">www.Maricopa.gov/Stormwater</a> which provides Stormwater Program information. Received over 73,000 hits on the website during this fiscal year. Posted the SWMP on website for public viewing along with the 2009 annual report. Had more than 49,800 handouts viewed/downloaded from our website (e.g.; MC brochure, Construction fact sheet, Lawn Care fact sheet, the Maricopa County Stormwater Regulation, Crossword sheet).	No	2003	In progress.
<b>MCM 2: Public Involvement/Participation</b>	<b>BMP 1.</b> Provide various vehicles of communication to the general public for feedback to the County	Developed a Twitter account to provide the public with upcoming events, (e.g.; Stormwater tips and public announcements). This allows the public to provide feedback and comments. Handed out Stormwater survey at events and public counters, received 34 replies back. Began research on an online survey system that will allow the program to track progress made in the community.	No	2007	In progress
	<b>BMP 2.</b> Develop a Stormwater	The Stormwater Quality program held its first annual	No	2007	In progress

	Stakeholders Workshop	public works shop to discuss the 2009 annual report on August 27, 2009. Notifications were e-mailed to stakeholders and announcements were posted on our website and in the lobby of our building. 12 people attended this workshop. Stakeholder meetings in prior years were held to receive input on the then-proposed Maricopa County Stormwater Quality Management and Discharge Control Regulation which went into effect in June of 2009.			
	<u>BMP 3.</u> Establish stormwater related contests for school children and local communities	A stormwater pollution poster contest was held in the spring of 2010. Invitations regarding participating in the contest were mailed out directly to schools in the unincorporated areas of Maricopa County. Additionally it was posted on our website for anyone interested in participating. The contest had two categories, one for 3 <sup>rd</sup> /4 <sup>th</sup> grade students and one for 5 <sup>th</sup> /6 <sup>th</sup> grade students. We received a total of 179 entries from 4 different schools. The winner from each category was invited to a Maricopa County Board of Supervisors Formal meeting on May 12 <sup>th</sup> , 2009. There were more than	Yes, per SWMP revision of June 2009	2009	In progress

		100 people in attendance. The Chairman of the Board presented the winners with their prizes, which were sponsored by the County's Park and Recreation Department and the County Library District. Additionally the two winners received a pizza party for their entire class, which were attended by more than 110 participants.			
	Additional Items	Maricopa County averaged 198 volunteer groups in FY2010 for the County's Adopt-A-Highway program, 280 miles of County roads were cleaned and over 75 tons of trash was removed. Held "Dumpography Photography" Contest in May 2010. Solid Waste Department held two Hazardous Household Waste events, collecting over 360 tons of waste from over 900 residents. Solid Waste also partnered with the Bureau of Land Management to sponsor an illegal dump site clean-up.			
<b>MCM 3: Illicit Discharge Detection and Elimination</b>	<u>BMP 1.</u> Identification of illicit discharges through an inspection program	Hired and trained an additional inspector to be part of the inspection program. Training was both in office and in field. An estimated 53% of the 83.26 total square miles of the	Yes, per SWMP revision of 2009, County receipt of State	July 2008	In progress. Will continue to inspect and map outfalls and drainage system within the

		<p>urbanized area within unincorporated County's boundary circumference was surveyed. 295 or 27.7% of an estimated 1065 outfalls were located, inspected and geo-tagged. 91 parts/conveyance devices were located. Performed 6 "up-the-trunk" investigations. The program started development of a GEO-Indexed GIS sewer and drainage system map in the spring of 2010, which includes pictures of located outfalls and inlets, direction of flow, BMP's, industrial facilities, Flood Control Structures and more. When completed this map can be used to identify locations of possible "problem" areas of recurrent illicit discharges and much more. Additional dry-weather monitoring of industrial and commercial facilities for illicit discharges was conducted. The program identified and surveyed a total of 60 site locations that fall within urbanized unincorporated Maricopa County. As a result of the surveys, 20 MSGP non-filers were identified and educated about obtaining proper coverage. 3 industrial</p>	<p>authority in Statute and establishment of the County Stormwater Regulation.</p>		<p>County's jurisdiction.</p>
--	--	--	--	--	-------------------------------

		compliance inspections were completed. Plan for FY11 is to add two staff members to augment the industrial inspection process and the Good Housekeeping MCM.			
	<u>BMP 2.</u> Implement a complaint response program	The County has developed procedures for complaint handling. Starting in 2006 the Stormwater Quality Program worked with the Complaint intake group to setup an effective way to route complaint calls. A total of 25 complaints were received for illegal dumping and or illicit discharge, all complaints were responded to within 10 days of receipt. 1 compliance order was issued and settled by our internal enforcement group. As a result of employee observations and complaints, 69 Notice of Violations (NOV's) were written for track out violations from construction sites. Stormwater Program public education materials and presentations contain references to the available complaint line telephone number.	Yes, BMP listed as per SWMP revision of 2009	2006	In progress
	<u>BMP 3.</u> Educate businesses and the general public about hazards	Maricopa County developed and distributed more than 5,100 printed materials and handed out more than 3,000	Yes, revised somewhat as per SWMP revision of	2006	In progress

	<p>associated with illegal discharges to storm sewer systems</p>	<p>promotional items including the "You Are the Solution to Stormwater Pollution", publications started in 2006. Had more than 49,800 handouts downloaded from our website (MC brochure, Construction fact sheet, Lawn Care fact sheet, Maricopa County Stormwater Quality Management and Discharge Control Regulation, Food service sheet, auto repair sheet and much more). Developed 2500 English and 2500 Spanish Food service fact sheet to be distributed in restaurants throughout the unincorporated areas of the County. The Stormwater Quality Program and the County's Solid Waste Department attended 36 events regarding illegal dumping and/or illicit discharges, which included public events, youth and/or family workshops, adult presentations that reached state and international viewers. The STORM organization aired a total of 16 weeks of radio commercials with approximately 1150 spots on 12 major stations, reached out to more than 3,100,000</p>	<p>2009</p>		
--	--	--	-------------	--	--

		listeners. The Solid Waste Department ran a successful campaign on illegal dumping through radio, TV, print, film: "Take it to the Dump".			
<b>MCM 4: Construction Site Stormwater Runoff Control</b>	<u>BMP 1.</u> Establish an enforcement mechanism to require erosion and sediment controls at construction sites >1 acre	Maricopa County Stormwater Quality Management and Discharge Regulation was enacted by the County Board of Supervisors becoming an enforceable regulation during June of 2009. A portion of that regulation contains enforcement language. In Spring of 2010 the Stormwater Quality Program developed an internal Department Enforcement Policy to complement the Stormwater Quality Management and Discharge Control Regulation.	Yes, as per SWMP revision of 2009, County receipt of State authority in Statute and establishment of the County Stormwater Regulation	2006	In progress
	<u>BMP 2.</u> Review and update Maricopa County Construction site BMP manual	The Stormwater Quality Program met with the County's Flood Control District (FCD) to provide feedback on BMP's and FCD has updated the Drainage Policies and Design Manual to include a new section titled "First Flush." Updates will continue to be posted on the website. A draft version of the Drainage Policies and Design manual is now available for download from the County's Flood	NO	2003	In progress.

		Control District's website.			
	<u>BMP 3.</u> Review plans and permit applications	<p>The Stormwater Quality Program hired a Professional Engineer to be part of the construction plan review process in August of 2009. During FY10 several construction related educational items were created, including a Flowchart on the plan review process from start to finish. A Checklist and an application form for plan submittals were also developed. These items are available to view and download on our website at <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a></p> <p>During the FY10 a total of 6 construction projects were reviewed by the program engineer. Comments and feedback were provided for either acceptance or the need for additional information. Education for the construction industry included presentations (2) before construction industry organizations. A presentation on the new NPDES 280 NTU effluent limit for construction sites is planned for August of 2010. Handouts will be made available on County's Stormwater program website <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a></p>	Yes, as per SWMP revision of 2009, County receipt of State authority in Statute and establishment of the County Stormwater Regulation.	2009	In progress

		by the end of FY11.			
	<u>BMP 4.</u> Establish a stormwater inspection program	The Stormwater Quality Program hired and trained 1 full time stormwater inspector. The Stormwater Quality Program inspected all construction sites within the urbanized area of unincorporated Maricopa County that disturbed an area of one acre or greater. A total of 14 courtesy and compliance stormwater inspections were completed on construction sites. 1 Letter of Violation was written for noncompliance with a direct stormwater issue; a compliance order was issued and settled by our internal enforcement group. Developed inspection forms for both construction and industrial facilities. The County's Air Quality Department currently inspects all construction sites in Maricopa County to enforce compliance of dust control, soil stabilization and track-out. The County's Planning and Development Department's Drainage Program inspected 720 construction sites in the unincorporated Maricopa County during FY10.	Yes, as per SWMP revision of 2009, County receipt of State authority in Statute and establishment of the County Stormwater Regulation.	2009	In progress
	<u>BMP 5.</u> Establish	The Stormwater Quality	No	2006	In progress

	complaint response program	Program worked with the Environmental Services Department's complaint line staff in 2006 to develop a complaint response system to calls received via the Department's line at (602) 506-6616. In FY10, 25 complaints were received for illegal dumping and or illicit discharge. All complaints were responded to within 10 days of receipt. As a result of employee observations and complaints, 69 Notice of Violations (NOV's) were written for track out violations from construction sites, and 58 NOV's were written for inadequate soil stabilization.			
	<u>BMP 6.</u> Provide educational information on the County's Stormwater website	The County established the Stormwater Quality webpage in 2003 and has continued to make updates. The Stormwater Quality Program has developed various educational materials (e.g. Construction site fact sheet, Stockpiles fact sheet, English and Spanish brochures, Regulation, Word search) that have been made available on the webpage. More than 54,000 items were downloaded during FY10. In addition we made	No	2003	In progress

		presentations for 5 different events for the construction industry where a total of 67 people participated. The Stormwater Quality Program engineer attended 76 pre-application meetings with the Planning and Development Department. Construction information materials were handed out to developers and/or project owners.			
<b>MCM 5: Post-Construction Stormwater Management</b>	<u>BMP 1.</u> Develop and adopt technical guidance materials	The County developed various technical guidance materials for the development community. The Maricopa County Stormwater Quality Management and Discharge Control Regulation adopted by reference the Maricopa County Grading and Drainage Policies and Design Manual which provide technical guidance. The Flood Control's Erosion Control Handbook is available on the County's web site. A flowchart of the post-construction process was created. A post-construction application and checklist has also been developed to help the public through the post-construction process. All of the guidance material is available on the Stormwater	NO	2006	In progress.

		Quality Program's website at <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a>			
	<b>BMP 2.</b> Review plans and permit applications	The Stormwater Quality Program hired a Professional Engineer to be part of the construction and post-construction plan review process in August of 2009. During FY2010, 1 post-construction plan was reviewed. The Stormwater Quality Program started research on requirements for Operation and Maintenance Agreements.	Yes, as per SWMP revision of 2009, County receipt of State authority in Statute and establishment of the County Stormwater Regulation.	2009	In progress
	<b>BMP 3.</b> Conduct construction site inspections	The County hired and trained 1 full time stormwater inspector. 1 post-construction stormwater inspection was done. Standard operating procedures for routine inspections were established. The County's Planning and Development Department conducted 1440 final drainage inspection in the unincorporated Maricopa County during FY10.	Yes, as per SWMP revision of 2009, County receipt of State authority in Statute and establishment of the County Stormwater Regulation.	2009	In progress
	<b>BMP 4.</b> Create and distribute educational materials for the development community	The Stormwater Quality Program researched different post-construction educational material that will be used in the next fiscal year. Started the process on creating a fact sheet specifically for post-construction and permanent BMP's. Made 5 presentations	Yes, per SWMP revision of June 2009	2009	In progress

		for the construction industry where a total of 67 people participated. Had more than 4,800 views on the post-construction page of the County's stormwater web site, and had more than 5,700 views and downloads of the post-construction flowchart from the <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a> website.			
<b>MCM 6: Pollution Prevention/Good Housekeeping</b>	<u>BMP 1.</u> Maintain a regular street sweeping program	The County routinely sweeps streets to remove possible sources of stormwater pollution. The Maricopa County Department of Transportation swept more than 6400 miles in the unincorporated areas of Maricopa County during FY10.	NO	2006	In progress.
	<u>BMP 2.</u> Evaluate County facilities with regards to pollution prevention practices	During FY2010, 8 County facilities were evaluated. The Stormwater Quality Program initiated an internal audit process in May of 2010. This will be an ongoing process to audit Maricopa County's owned and operated facilities on a regular schedule. The audit process includes an inspection of the site and an evaluation of their on-site Storm Water Pollution	Yes, per SWMP revision of June 2009.	2009	In progress

		Prevention Plan, performed by the Stormwater Quality Program. Recommendations for improvements are given to the Department's designated representative. The County's Risk Management Department started the process to update more than 10 SWPPP's for County facilities. Posters displaying stormwater runoff control measures were created and placed in several auto repair facilities within Equipment Services Department.			
	<u>BMP 3.</u> Development of a centralized, County-wide employee education and training program regarding pollution prevention	Developed and implemented an on-line pollution prevention training course available for all County employees. Topics included Introduction to Stormwater Pollution, Fleet Maintenance, Illicit Discharge Detection, Spill Prevention, Building and Grounds Maintenance, Parking/Storage Area Maintenance, and Materials Handling and Storage. 600 employees have taken the on-line classes. Training was also conducted at 12 different County meetings/classes, reaching an additional 900 employees. Maricopa County Stormwater Quality Program developed	NO	2006	In progress.

		and purchased 2,500 pollution prevention/illicit discharge stickers. These stickers are being placed in all County vehicles and instruct the employee how to detect and report an illicit discharge.			

Note: If you have developed a stormwater ordinance during the last reporting period, include a description or citation of the ordinance, or simply attach a copy of the ordinance.

Response: The Maricopa County Stormwater Quality Management and Discharge Control Regulation is available at [www.maricopa.gov/stormwater](http://www.maricopa.gov/stormwater)

NOTES to Section “B” preceding:

1. Maricopa County sent its revised SWMP to ADEQ in early 2009 and finalized the revisions in response to ADEQ’s review comments. The SWMP revision was completed with revisions in June of 2009. The SWMP is available at [www.maricopa.gov/stormwater](http://www.maricopa.gov/stormwater). Those changes are reflected in this annual report.
2. The Lower Salt River/Gila River below 27<sup>th</sup> Avenue is listed as “impaired” due to DDT.

**D. Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_

Signature

\_\_\_\_\_

Date

John Kolman

Name (printed)

Director, Maricopa County Environmental Services Department

Title