



**Chandler • Arizona**  
*Where Values Make The Difference*

City of Chandler

Small Municipal Separate Storm Sewer System Annual Report

July 1, 2006 through June 30, 2007

September 15, 2007



**Chandler • Arizona**  
*Where Values Make The Difference*

September 18, 2007

Arizona Department of Environmental Quality  
Water Quality Compliance Section  
Compliance Data Unit, Mail Stop 5415B-1  
1110 West Washington Street  
Phoenix, AZ 85007

RE: City of Chandler Small MS4 Annual Report – July 1, 2006 – June 30, 2007

Please find enclosed one (1) copy of the City of Chandler's Small Municipal Separate Storm Sewer (MS4) Annual Report for the reporting period July 1, 2006 through June 30, 2007. Should you have any questions please contact Dave Verhelst, Storm Water Program Coordinator at (480) 782-3503.

Sincerely,

Dan Cook  
Acting Public Works Director

Cc: Mike Normand – Acting Public Works Director/Transportation & Operations  
Dave Verhelst – Storm Water Program Coordinator  
File

*Mailing Address*  
Mail Stop 909  
PO Box 4008  
Chandler, Arizona 85244-4008

**Public Works Department**  
**Street Division**  
Telephone (480) 782-3500  
Fax (480) 782-3495  
[www.chandleraz.gov](http://www.chandleraz.gov)

*Location*  
Building C  
975 East Armstrong Way  
Chandler, Arizona 85249

## Small MS4 Annual Report Form

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

### A. General Information

Name of MS4: City of Chandler

Contact Name: Dave Verhelst

Telephone Number: (480)782-3503

Email Address: david.verhelst@chandleraz.gov

Annual Report Period:  December 19, 2002 – June 30, 2004  
 July 1, 2005 – June 30, 2006

July 1, 2004 – June 30, 2005  
 July 1, 2006 – June 30, 2007

### 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 checked="" type="checkbox"/> | NO <input 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 type="checkbox"/>            | NO <input checked="" 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>
Public Education and Outreach	Newsletter Articles	2006 Annual Drinking Water Quality Report including information on stormwater runoff and pollution prevention was distributed via mail to approximately 70,000 households in June 2007. City Scope Newsletter with "Only Rain In The Storm Drain" article was distributed via mail to approximately 70,000 households in November 2006. Another 1,000 copies were distributed at various public outlets. City Scope Newsletter with "New Guidelines For Pool Draining" article was distributed to approximately 70,000 households in July 2006. SanTan Sun News "Pool backwashing goes down the drain" article published in July 2006. Copies are included in Appendix A		May 2003	In progress, annual drinking water quality report and one article in City Scope. Distributed to residents by bulk mail or in utility bills.
Public Education and Outreach	Storm Water Brochure	Brochures are included in new resident packets, at City kiosk at Chandler Fashion Square Mall and handed out at City events, various neighborhood meetings, HOA Board meetings and special events. Distributed 2,718 brochures during last reporting period. Copy of brochure included in Appendix B.		August 2003	In progress, brochure distribution will be tracked during next reporting period.
Public	Storm Water	Developed webpage on City		August	In progress, website is periodically updated with new

Education / Public Involvement	Webpage	website. 1,836 visits to the webpage were reported. Copies of webpage content included in Appendix C.		2003	information, monitor number of visits to site
Public Education	Storm Water Signage	20 signs purchased. Posted 3 signs at Thude Park and 2 signs at Arrowhead Basin during reporting period.		January 2004	In progress, signs will continue to be installed in City retentions during next reporting period
Public Education / Public Involvement	Storm Drain Placards	6,000 cast aluminum placards were purchased. 1,738 placards were installed during reporting period.		July 2003	In progress, installation of the placards on storm drain inlets will continue during next reporting period.
Public Education	Landscape and Lawn Care	Assist in the management of irrigation runoff. 320 low water use conversions and 97 irrigation timer rebates.		March 2003	In progress, continue tracking number of conversions and rebates
Public Education / Public Involvement	Conservation Calendar	Held 4 <sup>th</sup> grade Environmental Art Contest. Created calendar and poster using art. Over 800 entries were received. 8,000 – 2007 calendars and 600 posters distributed (Appendix D)		August 2003	In progress, calendars in production will be distributed through schools and City events. Art contest and calendar production will continue as funding allows

**TABLE 1 (continued)**

<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>
Public Education / Public Involvement	Classroom Presentations	Number of students in classroom – no invites from teachers during this reporting period.		May 2004	In progress, seek out opportunities to present storm water information in classroom
Public Education / Public Involvement	Hamilton High School Science Fair	Approximately 5,000 fair attendees, Attendees shown storm water related information through use of Enviroscape non-point source model. Distributed 109 rain gauges, 231 magnetic clips, 139 brochures, and 193 wristbands.		February 2004	In progress, participate in next Hamilton High Science Fair in February 2007
Public Education	STORM Membership	STORM website with stormwater related information, display boards used at public events illustrating the difference between sanitary and storm sewer, radio public service announcements and development and distribution of promotional items. STORM Annual Report can be found at <a href="http://www.azstorm.org">www.azstorm.org</a> .		March 2003	In progress, continued yearly membership
Public Education	Rain gauges	466 rain gauges with "Please...only rain in the storm drain", city website address and contact information were distributed at City sponsored events. These events included Environmental Art Contest award ceremony, Citizen's Academy, Hamilton Science Fair, City events and meetings.		April 2005	In progress, rain gauge distribution will be tracked during next reporting period
Public Education	Public Works @ Work, City cable show	8-minute segment on storm water system function and maintenance aired 8 times per week for two months or approximately 64 times.		March 2005	Completed

**TABLE 1 (continued)**

<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>
Public Participation	Public Meetings	14 public meetings attended by 225 individuals. Meeting dates, projects and attendance are included in Appendix E.		June 2003	In progress, public meetings will be documented in next annual report
Public Participation/Illicit Discharge Detection and Elimination	Storm Water Pollution Hotline	Phone number identified on City website and information distributed that residents can call with storm water related issues or concerns. Approximately 15 calls were received.		November 2004	In progress, track calls during next reporting period
Illicit Discharge Detection and Elimination	Storm Water System Map	Collect as-built information on storm drain system, identify new system components		March 2003	In progress, continued collection of as-built information and inspection system
Illicit Discharge Detection and Elimination	Storm Drain Video	Video storm drains for illicit connections and infrastructure condition. 43,916 feet of storm drain video inspected.		May 2005	Completed
Illicit Discharge Detection and Elimination/Post-Construction Stormwater Management	Plan Review	Plan reviews are completed to catch any illicit connections from wastewater discharge into the stormwater system.		March 2003	In progress, continue plan review for any illicit connections from wastewater discharge into the stormwater system.
Illicit Discharge Detection and Elimination/Pollution Prevention Good Housekeeping	Spill Prevention and Containment	Prevention/containment of materials spilled and/or entering storm drain systems. A total of 237 incidents/spills were responded to and resolved. Summaries of the spills and incidents responded to and spill response form are included in Appendix F.		March 2003	In progress, report incidents/spills responded to during next reporting period

**TABLE 1 (continued)**

<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>
Illicit Discharge Detection and Elimination	Dry Weather Field Screening	Two discharge points were inspected. Arrowhead and Denver Basins were inspected weekly and material observed and amount removed was noted. Inspection forms are included in Appendix G.		March 2003	In progress, continued inspections and material removed will be noted during next reporting period
Construction Site Runoff Control	Grading and Drainage Permits	A grading and drainage permit is required for new projects. These detail the City's requirements for runoff control. 66 permits were issued during the reporting period. A list of the Grading and Drainage Permits Issued is included in Appendix H.		March 2003	In progress, the number of permits issued will be noted during the next reporting period
Construction Site Runoff Control	Construction Site Inspections	Sites are inspected for infractions to the Grading and Drainage Permit, and County and/or City regulations and Standards. 69 Final Inspections were completed. A copy of the Final Inspection list is included in Appendix I.		March 2003	In progress, the number of inspections completed will be tracked during next reporting period
Construction Site Runoff Control	Construction Storm Water Handbook	City of Chandler Unified Development Manual – Available through City's website. 5,685 visits to the webpage were reported. Provides a single source for construction site BMPs, sediment control, permit applications, inspections, and non-stormwater and water management issues.		August 2003	Completed February 2005

**TABLE 1 (continued)**

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Post Construction Storm Water Management	Property Owner Manual	City of Chandler Unified Development Manual – Available through City's website. 5,685 visits to the webpage were reported. Provides a means to inform property owners about stormwater management, pollution prevention and maintenance requirements.		November 2004	Completed February 2005
Post Construction Storm Water Management	Storm Drainage System Technical Design Manual	The manual outlines the design and policy for hydrology design, street drainage, storm drains, basins, and disposal of storm water and maintenance standards. Available as part of Unified Development Manual.		March 2003	In progress, manual is reviewed and updated as needed
Post Construction Storm Water Management	One-year Warranty Finals	A one-year warranty inspection is completed for developments and redevelopments to ensure that structures are constructed and operating properly. 39 One-Year Warranty Inspections were completed. A copy of the One-Year Warranty List is included in Appendix I.		March 2003	In progress, number of inspections will be tracked during next reporting period
Pollution Prevention and Good Housekeeping	Street Cleaning	69,283 total miles of streets swept. 2,105 tons of material removed.		March 2003	In progress, report miles and tonnage of material removed during next reporting period
Pollution Prevention and Good Housekeeping	Illegal Dumping	229 illegal dumping calls were received and abated. Summary Report Included in Appendix F.		March 2003	In progress, number of calls responded to and abated will be tracked during next reporting period

**TABLE 1 (continued)**

<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>
Pollution Prevention and Good Housekeeping	Employee Training	Stormwater Management Team participated in Municipal Storm Water Pollution Prevention/Illicit Discharge Detection training. 6 employees participated.		March 2003	In progress, continue tracking employees trained
Pollution Prevention and Good Housekeeping	Cleaning Catch Basins and Outfalls	Approximately 1,394 catch basins, scuppers and inlets inspected. 295 catch basins and laterals cleaned with 1,214 yards of material removed. Arrowhead and Denver Basins were inspected weekly. 1,099 scuppers, spillways, inlets and outlets were cleaned with 119,929 pounds of material removed. A Summary of work completed is included in Appendix J.		March 2003	In progress, the number of inspections, units cleaned and material removed will be tracked during reporting period
Pollution Prevention and Good Housekeeping	Hazardous Material Storage	103 employees received training during 8 hour HAZWOPR refresher.		March 2003	In progress, continue tracking training
Pollution Prevention and Good Housekeeping	Household Hazardous Waste Collection	Approximately 2,500 residents participated in household hazardous waste collection events during the reporting period. Approximately 125,000 pounds of household hazardous waste was collected.		March 2003	In progress, continue tracking material collected

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.

**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.

Daniel W Cook  
Signature

9-19-07  
Date

Daniel W Cook  
Name (printed)

Acting Public Works Director  
Title

## **Addenda**

### **Section B – Part 1 – Changes have been made to SWMP**

#### **New Best Management Practices:**

No new best management practices have been implemented during the reporting period. ADEQ has not requested that changes to the City's SWMP were necessary.

#### **Updated/Changed Best Management Practices**

Revisions to the City's Notice of Intent reflecting a change in the signatory and contact person were submitted to ADEQ via facsimile on April 4, 2007.

### **Section B – Part 2 The City Has Annexed Lands**

During the reporting period, the City of Chandler annexed approximately 317.6 acres of land. The majority of this land is undeveloped former agricultural fields, dairy farms, unincorporated parcels and/or smaller residential properties. Maps have been included detailing the locations that have been annexed. If necessary during and post development the following BMPs will be implemented in these areas:

- Public Meetings
- Stormwater System Map
- Plan Review
- Spill Prevention and Detection
- Grading and Drainage Permit
- Construction Site Inspections
- Construction Stormwater Handbook
- Property Owner Manual
- Storm Drainage System Technical Design Manual
- One-Year Warranty Inspection
- Street Cleaning
- Illegal Dumping