



City of Chandler
Small Municipal Separate Storm Sewer System
Annual Report

July 1, 2014 through June 30, 2015



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Where Values Make The Difference

September 21, 2015

Mr. Christopher Henninger
Arizona Department of Environmental Quality
Water Quality Division, Surface Water Section
1110 West Washington Street, 5415A-1
Phoenix, Arizona 85007

RE: City of Chandler Small MS4 Annual Report: July 1, 2014 – June 30, 2015

Mr. Henninger:

Please find enclosed one (1) copy of the City of Chandler's Small Municipal Separate Storm Sewer System (MS4) Annual Report for the reporting period July 1, 2014 through June 30, 2015. Also, enclosed is a check in the amount of \$7,500 as payment for the annual fee. The City of Chandler looks forward to your comments and a continuing effort to address stormwater quality. Should you have questions, please don't hesitate to call me at (480) 782-3503.

Sincerely,

Dave Verhelst
Stormwater Programs Coordinator
City of Chandler

Cc: Rex Hartmann, Streets Superintendent
Cc: Kevin Lair, Transportation Manager
Cc: R.J. Zeder, Transportation & Development Director
Cc: Nachie Marquez, Assistant City Manager

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

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: July 1, 2014 through June 30, 2015

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 type="checkbox"/> | NO <input checked="" 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"/> |

Section B – Part 1: No changes have been made to the SWMP since the last annual report.

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

No best management practices have been changed or updated during the reporting period.

Section B – Part 2: The City Has Annexed Lands

During the reporting period, the City of Chandler annexed 50.53 acres of land. The 9 annexations include undeveloped and former agricultural properties and County rights-of-way. A map has been included detailing the location of the properties 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 Permits
- Construction Site Inspections
- Construction Stormwater Handbook
- Property Owner's Manual
- Storm Drainage System Technical Design Manual.
- Final and One-Year Warranty Inspections
- Street Cleaning
- Illegal Dumping Response

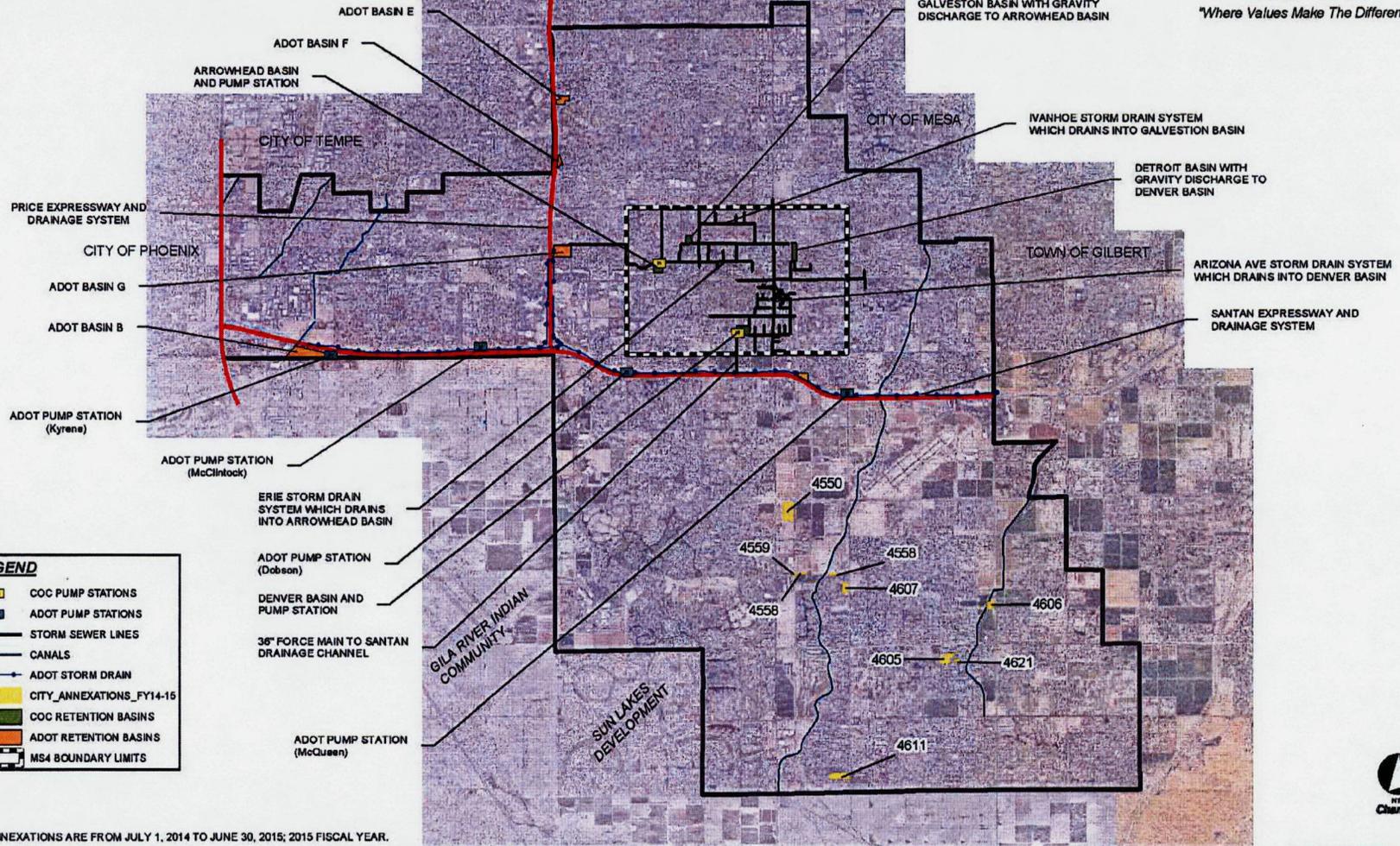
FY 2014-2015 Annexations

Ordinance Number	Adoption Date	Effective Date	Annexed Acreage	Location	Parcel #
4558	9/8/2014	10/8/2015	0.768793	Certain Ocotillo Road Rights-of-Way between Arizona Avenue and McQueen Road	N/A
4558	9/8/2014	10/8/2015	0.622944	Certain Ocotillo Road Rights-of-Way between Arizona Avenue and McQueen Road	N/A
4559	11/17/2014	12/18/2015	0.362066	Southwest Corner of Ocotillo Road and the Union Pacific Railroad	30346006D
4590	2/26/2015	3/26/2015	18.753593	Southwest Corner of Queen Creek Road and the Union Pacific Railroad	30341011A
4605	2/26/2015	3/26/2015	9.542434	South of the Southeast Corner of Chandler Heights and Cooper Roads	30355012S 30355685 30355686C
4606	2/26/2015	3/26/2015	4.979139	Northwest Corner of Gilbert and Brooks Farm Roads	30344020L
4607	2/26/2015	3/26/2015	4.168786	South of the Southwest Corner of McQueen and Ocotillo Roads	30354671
4611	3/26/2015	3/26/2015	10.022157	North of the Northwest Corner of McQueen Road and Hunt Highway	30358018C
4621	4/16/2015	5/16/2015	1.309924	North of the Northwest Corner of Cedar Place and Riggs Ranch Road	30355680
TOTAL ACREAGE ANNEXED =			50.529836		

CITY OF CHANDLER MUNICIPAL STORM SEWER SYSTEM



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LEGEND	
	COC PUMP STATIONS
	ADOT PUMP STATIONS
	STORM SEWER LINES
	CANALS
	ADOT STORM DRAIN
	CITY ANNEXATIONS FY14-15
	COC RETENTION BASINS
	ADOT RETENTION BASINS
	MS4 BOUNDARY LIMITS

* NOTE: ANNEXATIONS ARE FROM JULY 1, 2014 TO JUNE 30, 2015; 2015 FISCAL YEAR.



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

TABLE 1

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education and Outreach	Newsletter Articles	104,408 post cards were mailed to residents in June 2015 notifying them that the 2014 Annual Drinking Water Quality Consumer Confidence Report (CCR) is available. A URL to the Water Quality website and phone number was provided to receive a hard copy of the CCR. The CCR was written in both English and Spanish and it includes information on stormwater runoff and pollution prevention tips. CityScope Newsletter articles <i>Only Rain in the Storm Drain</i> (December 2014-January 2015), <i>Spring Cleaning Tips</i> (April-May 2015), <i>Responsible Pet Ownership</i> (May-June 2015) were distributed via utility bills and at City facilities. Distribution is approximately 70,000. NearbyNews printed an article <i>Safely dispose of household hazardous waste</i> (June 2015) in the Tumbleweed News and Desert Breeze News with a combined circulation of 20,000 copies. The WaterSaver Newsletter <i>Is Your Pool Leaking?</i> (July 2014) Article was distributed to 1,709 subscribers. Desktop wallpaper titled <i>Be the solution to stormwater pollution</i> was distributed via desktop computers to on May 29, 2015. Examples of the newsletters and wallpaper are included in Appendix A.		May 2003	Completed. Newsletter articles such as the City's Annual Drinking Water Quality Consumer Confidence Report and other City sponsored newsletters will continue and will be distributed to residents by bulk mail or in utility bills, City employees and available at City facilities.
Public Education and Outreach	Storm Water Brochure	Brochures may be distributed at various City events, neighborhood meetings, outreach events, employee training sessions and/or IDDE related response calls. 580 residential pollution prevention brochures and 364 pool drainage brochures were distributed at outreach events. Additionally, 77 residential pollution prevention brochures and 63 pool drainage brochures were distributed during investigation of IDDE calls during the reporting period. Copies of the brochures are included in Appendix B. A new residential brochure was designed and a quantity of 5,000 brochures were printed during FY 14/15.		August 2003	Completed. Distribution of brochures at City locations, events and meetings will continue. Distribution will be tracked during the next reporting period.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education / Public Involvement	Storm Water Webpage	Developed webpage on City website. There were 1,110 visits to the webpage, with 1,525 page views reported. Copies of webpage content included in Appendix C. The website was reviewed and revised in May of 2015. Revisions included the addition of a new brochure and updated links.		August 2003	Completed. Website will be periodically updated with new information. Site visits and page views will continue to be tracked during the next reporting period.
Public Education	Storm Water Signage	20 signs were originally purchased. No signs were installed during reporting period.		January 2004	Completed. Signs will be produced and installed in City retention basins when appropriate. Installation and location will be tracked during the next reporting period.
Public Education / Public Involvement	Storm Drain Placards	6,000 cast aluminum placards were originally purchased. 250 new flat back placards were purchased during the reporting period. 159 placards were installed on new inlet structures by contractors or City staff. 295 placards were installed on existing (retrofit) inlet structures during the reporting period. (Appendix D)		July 2003	Completed. Installation and/or replacement of placards on storm drain inlets will continue and will be tracked during the next reporting period. Placards are replaced when necessary and installed during new construction per City detail C-508.
Public Education	Landscape and Lawn Care	Assist in the management of irrigation runoff. 31 new residential low water use landscape installations, 63 low water use landscape conversions and 43 irrigation timer rebates.		March 2003	Completed. Conversions and timer rebates will continue as funding allows. Conversions and rebates will be tracked during the next reporting period.
Public Education / Public Involvement	Conservation Calendar	Held 4th grade Environmental Art Contest. Created calendar and poster incorporating the winning artwork. 4,000 calendars and 300 posters were printed and distributed in December 2014 to January 2015. 698 entries from 29 charter, private and public schools from Kyrene, Mesa and Chandler School districts were received in March 2013. Artwork is displayed on the City's waste and recycling trucks and on City websites. Calendar included in Appendix E.		August 2003	Completed. The conservation calendar will continue and will be distributed to schools and at City events. Art contest and calendar production will continue as funding allows.
Public Education / Public Involvement	Classroom Presentations	No invites from teachers during this reporting period.		May 2004	Completed. Classroom presentations will continue to be available and encouraged.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education / Public Involvement	Hamilton High School Science Fair	Approximately 4,000 spectators and 1,500 participants attended the fair. Discussed stormwater pollution prevention and related information through use of STORM display boards and other information. The following items were distributed at the event: 99 rain gauges, 95 magnetic clips, 122 brochures, 117 wristbands, 112 recycled content grocery bags, 13 frisbees, 62 key chains, 99 pet waste dispensers, 50 oil funnels, 150 mood pencils, 65 magnetic notepads, 50 mood cups. Stormwater staff participated in a total of 8 events throughout the year, establishing direct contact with approximately 990 attendees out of an approximate total attendance of 10,190 which equates to 9.7% of the total attendance. Over \$4,200 was spent on promotional items during FY 14/15. (Appendix F)		February 2004	Completed. The City expects to participate in the next Hamilton High Science Fair in February 2016. Distribution and tracking of attendees and program promotional items will be tracked during the next reporting period.
Public Education	STORM Membership	STORM website (www.azstorm.org) with stormwater related information. Display boards illustrating the difference between sanitary and storm sewer system and pollution prevention are utilized at public events. Development and distribution of promotional items, along with movie theatre and billboard campaigns were completed. The STORM Annual Report is included in Appendix G.		March 2003	Completed. The City will continue yearly membership with STormwater Outreach for Regional Municipalities (STORM) as funding allows.
Public Education	Rain gauges	259 rain gauges with "Please...only rain in the storm drain", city website address and contact information were distributed at City attended events. These events included the Hamilton High School Science Fair, HOA Academy, 12th Annual 4th Grade Environmental Art Contest Awards Ceremony, Intel Green-it Fair and Earth Day Event.		April 2005	Completed. Distribution of rain gauges will continue as funding allows. Distribution will be tracked during next reporting period.
Public Education	Public Works @ Work, City cable show	A stormwater pollution prevention video segment aired a minimum of 2 times per week. A stormwater message slide "Keep Your Drinking Water Safe" aired throughout the year on the Channel 11 bulletin board. The message aired over 1,000 times. Copies of the video PSA and slide are included in Appendix H.		March 2005	Completed. Video segments and messages are updated and will be aired. Number of airings will be tracked during the next reporting period.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Participation	Public Meetings	During the reporting period, the City's Communications & Public Affairs Department worked with the Transportation & Development Department to hold two public meetings involving construction projects that included stormwater collection and/or distribution components. A total of 65 individuals signed in at the meetings. An HOA academy class was held with a total of 53 attendees. Copies of the sign-in sheets are included in Appendix I.		June 2003	Completed. Public Meetings associated with Capital Improvement Projects will continue and will be documented and reported accordingly.
Public Participation/Illicit Discharge Detection and Elimination	Storm Water Pollution Hotline	Phone number identified on City website, brochures and promotional items distributed. Residents can call with stormwater related issues or concerns. Approximately 18 calls were received on hotline number. Additional calls may have been relayed to the Stormwater Program Specialist or administrative staff.		November 2004	Completed. The City will continue to track calls during the next reporting period.
Illicit Discharge Detection and Elimination	Storm Water System Map	Collect as-built information on storm drain system structures. 1,017 new structures were collected during the reporting period.		March 2003	Completed. The City will continue to collect data and update data from as-built information, site inspections, etc.
Illicit Discharge Detection and Elimination	Storm Drain Video	Video storm drains for illicit connections and infrastructure condition. No video of storm drains was conducted during the reporting period.		May 2005	Completed. The City will continue to utilize video services to inspect storm drains, connections and laterals when necessary.
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	Completed. The City will 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 debris, materials and spills potentially entering the storm drain system were addressed. A total of 264 incidents were resolved. Streets Division (254) and Environmental Management staff (10). (Appendix J)		March 2003	Completed. The City will continue to report incidents/spills responded to during the next reporting period.
Illicit Discharge Detection and Elimination	Dry Weather Field Screening	Ten discharge points were inspected. Arrowhead and Denver Basins were inspected weekly. Inspection forms are included in Appendix K.		March 2003	Completed. The City will continue field screening inspections and completion of inspection forms.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Construction Site Runoff Control	Grading and Drainage Permits	A grading and drainage permit is required for new projects. The permit details the City's requirements for runoff control. 54 permits were issued during the reporting period. A list of the Grading and Drainage Permits issued is included in Appendix L.		March 2003	Completed. The number of permits issued will be tracked during the next reporting period.
Construction Site Runoff Control	Construction Site Inspections	Sites are inspected for infractions to the Grading and Drainage Permit, State, County and/or City regulations and Standards. 41 final inspections were completed. 109 erosion and sediment control inspections were completed. A copy of the final inspection list and stormwater site inspection list are included in Appendix M.		March 2003	Completed. The number of inspections will be tracked during the next reporting period.
Construction Site Runoff Control	Construction Storm Water Handbook	City of Chandler Unified Development Manual is available through the City's website. The Manual provides a single source for construction site BMPs, sediment control, permit applications, inspections, and non-stormwater and water management issues. 21,090 visits to the webpage, with 36,751 page views reported. There were 271 visits and 444 page views associated with the City of Chandler Manual on Stormwater Quality Protection. (Appendix N)		August 2003	Completed February 2005. Site visits and page views will continue to be tracked during the next reporting period.
Post Construction Storm Water Management	Property Owner's Manual	Property Owner's Manual provides a means to inform property owners about stormwater management, pollution prevention and maintenance requirements. Copy of Manual included in Appendix O.		November 2004	Completed February 2005. Manual will be updated when necessary. The manual is distributed to Home Owner's Associations and other private property owners.
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. (Appendix P)		March 2003	Completed. Manual is reviewed and updated as needed. The Manual was revised in July 2015.
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. Two one-year warranty Inspections were completed. A copy of the one-year warranty list is included in Appendix M.		March 2003	Completed. The number of inspections will be tracked during the next reporting period

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Pollution Prevention and Good Housekeeping	Street Cleaning	59,664 total miles of streets were swept with 2,106 tons of material removed.		March 2003	Completed. The City will continue street sweeping and will report miles and tonnage of material removed during the next reporting period.
Pollution Prevention and Good Housekeeping	Illegal Dumping / Illicit Discharge Response	111 illicit discharge or illegal dumping calls were responded to and abated. Summary Report Included in Appendix Q.		March 2003	Completed. Number of calls responded to and abated will be tracked during the next reporting period.
Pollution Prevention and Good Housekeeping	Employee Training	270 employees attended training sessions associated with pollution prevention. Topics included; stormwater management program awareness, municipal stormwater pollution prevention, illicit discharge detection and elimination, drywells, dust control and hazardous spill response. The above mentioned sessions included 7 City Departments that comprised 24 Divisions. Report included in Appendix R.		March 2003	Completed. Employee training will continue and will be tracked and reported during the next reporting period.
Pollution Prevention and Good Housekeeping	Cleaning Catch Basins and Outfalls	5,356 catch basins, scuppers, inlets, outfalls and drywells were inspected. 1,030 catch basins and laterals, scuppers, spillways, inlets and outlets were cleaned. A summary of work completed is Included in Appendix S.		March 2003	Completed. The number of inspections and structures maintained will be tracked during the next reporting period.
Pollution Prevention and Good Housekeeping	Hazardous Material Storage	108 employees received training for 8-hour HazWOpER refresher and 5 employees received 40-hour HazWOpER certification during the reporting period. Report included in Appendix R.		March 2003	Completed. The City will continue tracking HazWOpER training.
Pollution Prevention and Good Housekeeping	Household Hazardous Waste Collection Facility	2,738 residents dropped off 151,742 pounds of material that was reused, recycled or properly managed for disposal. Approximately 105,272 pounds of such material was reused or recycled.		March 2003	Completed. The City will continue tracking participation and material collected.

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.

Marsha Reed

Signature

9/17/15

Date

Marsha Reed

Name (printed)

Acting City Manager

Title