



ANNUAL REPORT

Arizona Pollutant Discharge Elimination System (AZPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit (AZG2016-002)

Regulated Small Municipal Separate Storm Sewer Systems (MS4s) must submit an Annual Report (AR) to the Arizona Department of Environmental Quality (ADEQ) before September 30 each year. Permittees must complete an Annual Report and submit the original, signed document to:

Arizona Department of Environmental Quality
Surface Water Section/Stormwater & General Permits Unit (5415A-1)
1110 West Washington Street, Phoenix, AZ 85007

A. REGULATED SMALL MS4 INFORMATION

Annual Report for Reporting Year: 2017 - 2018

LTF Number:	65730	Name of MS4:	City of Chandler		
Primary Contact:	Dave Verhelst		Title:	Stormwater Programs Coordinator	
Mailing Address:	PO Box 4008, Mail Stop 909				
City:	Chandler	Zip Code:	85244	County:	Maricopa
Telephone Number:	480-782-3503	Email Address:	david.verhelst@chandleraz.gov		

Non-Traditional MS4 City/County Estimated Population: 257,535 (June 2018)

Is another entity responsible for any satisfying any permit requirements (6.4b): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, complete the following questions; if no, continue to Section B.	Identify Partnered Entity: N/A
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Provide a description of permit requirements being implemented by another entity: N/A	Type of Legally-binding Agreement: N/A
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B. MAPPING (4.0 and 8.4(b))	
<p>1. Provide a narrative description of the permittee's mapping progress: The City maintains a robust mapping program that identifies structures associated with the municipal separate storm sewer system that includes, but may not be limited to roads with drainage systems, municipal streets, catch basins, curbs, gutters, man-made channels, outfalls and other storm drainage structures that are owned or operated by the City and convey stormwater to Waters of the U.S.</p>	
<p>2. Number of outfalls currently mapped: 19</p>	<p>3. Outfall mapping – Percent Complete: 100 %</p>
<p>4. Storm Sewer System Mapping Percentage Complete: 100 %</p>	<p>5. Identification of Waters of the U.S. that receive discharges from the outfalls: Gila Drain Percentage Complete: 100 %</p>
<p>6. Has land been annexed into the MS4 since the previous reporting year: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (4.2).</p> <p>If yes, complete the following:</p> <p>a) Total area annexed since last annual report: 80.82 acres</p> <p>b) Mapping of new area – Percent complete: 100%</p> <p>c) Are BMPs fully implemented in annexed area: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>d) Provide a description of BMP implementation for areas annexed into the regulated MS4 since the last reporting period: Mapping of storm sewer system, response to IDDE related concerns, enforcement of City Code & Ordinances, inspection and maintenance of storm drainage structures, post-construction inspections and inspections of construction activity.</p>	

C. PROGRAM EVALUATION (8.1.1 and 8.4d)

Provide a written assessment of the appropriateness of identified best management practices and progress toward achieving identified measurable goals for each minimum control measure.

Public Education and Outreach: Stormwater Program staff participated in 13 public education and outreach events during the reporting period. Attendance at the events was estimated at 15,279. Staff had direct contact with approximately 1,666 attendees, reaching 11% of the attendees. Staff distributed 7,783 educational materials that promoted stormwater awareness. The City purchased over \$11,500 of educational materials for distribution. The City maintained a stormwater program webpage, distributed 13 articles, 1,240 pollution prevention brochures, posted a stormwater message on bus shelters and installed 402 storm drain inlet markers.

Public Involvement and Participation: Activities included a hotline to report illicit discharges (27 calls received), public meetings, social media, stormwater program webpage, participation in educational events and the City's public access channel. The City participates with regional organizations such as Stormwater Outreach for Regional Municipalities (STORM) and AZ Water Association to assist with outreach throughout the greater Phoenix metropolitan area.

A school event associated with the fourth grade environmental art contest comprised of 33 schools and 583 participants. 4,000 calendars and 300 posters were printed and distributed.

Illicit Discharge and Elimination Program: The following BMPs support staff in the identification and elimination of discharges into the MS4: maintaining and updating a storm sewer system map (945 new structures added), dry weather field screening, wet weather discharge monitoring, staff training with 33 receiving information regarding IDDE concerns. 57 out of 148 reports of illicit discharges were reported by City staff. The total number of IDDE calls received and the number of swimming pool discharges decreased during FY 17/18. City staff responded to 365 incidents including 148 IDDE calls, 209 calls associated with debris in the right-of-way and 8 calls received by the Environmental Management Division, that prevented or contained debris and/or spills into the MS4.

Construction Activity Stormwater Runoff Control: The combination of site plan reviews, inspections of construction activity, distribution of educational materials and an inventory of sites located within the MS4 all contribute to a solid program. The City experienced a significant increase in the number of Erosion and Sediment Control plans received. Stormwater program staff conducted 207 inspections of active construction sites which resulted in a 32% increase for FY17/18.

Post-Construction Stormwater Management in New Development and Redevelopment: Final and one-year inspections and proactive inspections of public and private storm drainage structures all assist in identifying and correcting post-construction issues. City staff participated in 25 final inspections, 28 one-year warranty inspections and 5,477 MS4 storm drainage system structures were inspected. Additionally, 1,901 drainage structures were maintained, replaced or repaired.

Pollution Prevention and Good Housekeeping Municipal Operations: BMPs such as The City's Household Hazardous Waste Collection facility, containment of bulk materials, maintenance of vehicle and equipment wash areas, staff training, street sweeping, inspection and maintenance of the storm sewer system and inspections of City facilities are key activities that will prevent or reduce pollutant runoff. The Household Hazardous Waste facility had an increase of over 8% in the amount of material received as well as an increase of over 4% in the amount of material recycled. Additionally, the Streets Division wash bay was maintained a total of 75 times, 145 employees were trained for pollution prevention and good housekeeping and a total of 46 City facilities were inspected throughout the year.



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D. MCM-1: PUBLIC EDUCATION AND OUTREACH (6.4.1 and 8.1.2)

D-1 Provide a Summary of Public Education and Outreach BMPs in the Table Following Table

Best Management Practice	Measurable Goal (how is progress being measured)	Theme or Message	Target Audience	Final Measure of Assessment (5.1.e.3)	Summary of Results and Effectiveness (8.1.2)
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<p>Educational Materials</p>	<p>The City will develop and distribute educational materials to promote increased stormwater awareness including articles, brochures, a stormwater webpage, storm drain inlet markers and promotional items on an annual basis</p>	<p>Stormwater Pollution Prevention and How to report discharges</p>	<p>General public</p>	<p>The following quantities were distributed during FY 17/18: (FY 16/17) Pet Waste Bags 910 (902) Magnetic Clips 795 (828) Key Chains 219 (287) Grocery Bags 450 (522) Frisbee's 98 (135) Wrist Bands 445 (551) Rain Gauges 0 (141) Jar Opener 38 (0) Mood Pencils 1425 (995) Mood Cups 869 (560) Funnels 410 (270) Bookmark 412 (0) Backpack 439 (0) Storm Drain Dan Book 0 (57) Stormwater in the Desert Book 218 (88) Brochure: Only Rain in the Storm Drain – Pool Drainage 604 (592) Brochure: Storm Drains: Do you know where stormwater pollutants end up? 636 (591) 13 stormwater related articles were printed in City or private publications during the reporting period</p>	<p>Noted increase in distribution of educational materials to the public. 6,760 promotional items with a pollution prevention message were distributed in FY 17/18 as compared to only 6,519 during FY 16/17, resulting in an increase of 3.7%</p> <p>The number of IDDE calls decreased from 148 in FY 17/18 to 158 in FY 16/17</p> <p>The number of calls to the hotline increased from 27 calls in FY 17/18 to 11 calls in FY 16/17</p> <p>The following promotional items were purchased in FY 17/18: 600 Recycled Content Grocery Bags, 1,000 Mood Cups, 3,000 Mood Pencils, 1,000 Magnetic Clips, 750 Key Chains, 1,500 Pet Waste Bag Dispensers, 200 Funnels, 1,250 Bookmarks, 1,005 Draw String Backpacks, and 250 Magnetic Bottle Opener for a total of \$11,533.99, an increase of \$7,851.18 as compared to FY 16/17</p>
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Educational Events	The City will participate in educational events, community events, festivals, workshops and/or open houses	Stormwater Pollution Prevention and How to report discharges	General public	City staff participated in nine educational events. Eight events were sponsored or hosted by the City and one event was hosted by Hamilton High School (Hamilton Invitational Science and Engineering Fair)	An estimated total of 15,279 people attended the 13 events held in FY 17/18, with an estimated direct contact of at least 1,666 which is equivalent to contact with approximately 11% of the total attendance as compared to approximately 14.5% of the total attendance reached in FY 16/17
Stormwater Webpage	The City's stormwater webpage will be periodically reviewed and updated to provide information on stormwater related topics	Stormwater related topics and information	City residents, local businesses, construction industry, HOA's	Information will be tracked and reviewed annually. Updates will be made as necessary to provide current and pertinent information	<p>24% decrease in webpage visits and a 18.6% decrease in page views as compared to FY 16/17</p> <p>Note: City webpages were completely updated during FY 17/18</p> <p>2 ½ minute video about stormwater pollution prevention video is available on the site</p>

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<p>Regional Coordination</p> <p>Stormwater Outreach for Regional Municipalities (STORM) Membership</p>	<p>City Staff will participate in monthly meetings, committees and/or serve on the Board of Directors</p>	<p>Regional organization promoting stormwater quality education within the greater Phoenix metropolitan area.</p>	<p>General public and the regulated community</p>	<p>The Stormwater Programs Coordinator or Stormwater Program Specialist attended approximately six out of the ten meetings held during FY 17/18. The Stormwater Programs Coordinator served as Director at Large for a portion of the year.</p> <p>Arizona's Stormwater Outreach for Regional Municipalities (STORM) provides a platform for collaborative effort by which educational outreach may be provided to residents in the greater Phoenix area with the message of pollution prevention to keep our waters clean. In Fiscal Year 2018, STORM members completed outreach via web, social media, and events. The coordination among 25 member cities, towns, and non-traditional municipal separate storm sewer systems or affiliates</p>	<p>Staff will continue to participate in meetings and/or committee's or serve on the Board of Directors for the organization</p> <p>Events – 77 events and 13,000 direct contacts compared to fiscal 2017 (108 events with 15,000 direct contacts). STORM organization participated in one event (OdySea Conservation Expo) and hosted two events this fiscal year. STORM Annual Report</p> <p style="text-align: center;">Site location: http://azstorm.org/about-us/annual-reports</p> <p>Three educational videos were developed with information about pets, lawns and pools. The component contaminants and best practices to manage pollutant discharges were covered by a handsome talking dog. These can be found on STORM's YouTube Channel (a.k.a., arizona storm), and some member websites as well</p> <p>Website – received a total of 12,600 webpage views; by 6,528 new users and 617 returning visitors. There were nearly 8,000 webpage sessions in FY18</p>
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<p style="text-align: center;">Regional Coordination (Temporary BMP)</p> <p style="text-align: center;">AZ Water Association Stormwater Committee</p>	<p style="text-align: center;">The Stormwater Programs Coordinator and/or the Stormwater Program Specialist will participate as committee members</p>	<p style="text-align: center;">Advocate for Arizona's water through bold leadership, connecting professionals, providing education, and inspiring environmental stewardship</p>	<p style="text-align: center;">City staff and the general public</p>	<p style="text-align: center;">Participate in regional coordination efforts promoting greater public education and outreach whenever possible</p>	<p style="text-align: center;">Staff participated in one meeting during the reporting period</p>
<p style="text-align: center;">Article (Temporary BMP)</p> <p style="text-align: center;"><i>Residents drop off 79 tons of hazardous waste</i></p> <p style="text-align: center;">July 31, 2017 City's Website</p>	<p style="text-align: center;">Provide information regarding the City's Household Hazardous Waste (HHW) Collection Facility and pollution prevention to reduce pollutants in stormwater</p>	<p style="text-align: center;">Inform the public about pollutants that may be found in stormwater and pollution prevention</p>	<p style="text-align: center;">City Residents</p>		<p style="text-align: center;">Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18</p>
<p style="text-align: center;">Article (Temporary BMP)</p> <p style="text-align: center;"><i>Help Prevent Trash/recycling "hot loads"</i></p> <p style="text-align: center;">July – August 2017 CityScope Newsletter English and Spanish</p>	<p style="text-align: center;">Provide information on proper disposal of trash and recyclables</p>	<p style="text-align: center;">Promotes participation of the City's HHW facility</p>	<p style="text-align: center;">City Residents, local businesses and City employees</p>	<p style="text-align: center;">Mailed out to residents and local business's that receive water service.</p> <p style="text-align: center;">Distribution: Mail: 67,782 customers per month Ebill: 18,459 per month An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p style="text-align: center;">2,992 residents dropped off household hazardous waste. Decrease in 8.54% in the number of visits to the Household Hazardous Waste facility and a 8.43% increase in amount of material accepted and a 4.39% increase in amount of material recycled as compared to FY 16/17</p>

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<p align="center">Article (Temporary BMP) City urges residents to properly dispose of household waste August 2017 San Tan Sun News</p>	<p>Provide information regarding the potential safety risks as well as pollutants found in stormwater and how to reduce pollutants in stormwater</p>	<p>Inform the public about pollutants that may be found in stormwater and pollution prevention</p>	<p align="center">City Residents</p>	<p>Distribution: 35,000 Distribution occurs every other Saturday throughout the year. Approximate readership is 70,000 at 2 readers per paper. The newspaper is distributed directly to 27,250 driveways with the remainder going to businesses, racks and boxes within the area of Ocotillo and the surrounding Southern Chandler area which is between Price/101 east to Val Vista, and Pecos south to Hunt Highway</p>	<p>Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18 Decrease of 8.5% in the number of visits to the Household Hazardous Waste facility, 8.4% increase in amount of material accepted, 4.4% increase in amount of material recycled as compared to FY 16/17</p>
<p align="center">Article (Temporary BMP) Stored paint cans: Chandler wonders if they're the elephant in your garage August 2017 Wrangler News</p>	<p>Provide information regarding the City's household hazardous waste program and pollution prevention</p>	<p>Inform the public about pollutants that may be found in stormwater and pollution prevention</p>	<p align="center">City Residents</p>	<p>Distribution occurs every other Saturday throughout the year. Approximate readership is 70,000 at 2 readers per paper. The newspaper is distributed directly to 18,600 driveways and 1,250 distributed via racks within Chandler and Tempe</p>	<p>Decrease of 8.5% in the number of visits to the Household Hazardous Waste facility, 8.4% increase in amount of material accepted, 4.4% increase in amount of material recycled as compared to FY 16/17</p>

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<p align="center">Article (Temporary BMP) <i>Flood Zones in Chandler</i> November - December 2017 CityScope Newsletter English and Spanish</p>	<p>Provide information regarding the 100 year floodplain, flood insurance and how to report illicit discharges</p>	<p>Report illegal dumping and Illicit discharges</p>	<p>City Residents, local businesses and City employees</p>	<p>Mailed out to residents and local business's that receive water service.</p> <p>Distribution: Mail: 67,782 customers per month Ebill: 18,459 per month An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18</p> <p>Total number of discharges decreased by nearly 7% in FY 17/18 (148) as compared to FY 16/17 (159)</p>
<p align="center">Article (Temporary BMP) <i>Be the solution to stormwater pollution</i> December-January 2017/18 CityScope Newsletter English and Spanish</p>	<p>Provide information regarding stormwater pollution prevention</p>	<p>Identify common pollutants, pollution prevention and reporting illicit discharges</p>	<p>City Residents, local businesses and City employees</p>	<p>Mailed out to residents and local business's that receive water service</p> <p>Distribution: Mail: 67,782 customers per month Ebill: 18,459 per month An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>The number of calls reporting pool discharges decreased nearly 4% from 106 in FY 16/17 to 102 in FY 17/18.</p> <p>Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18</p> <p>Total number of discharges decreased by nearly 7% in FY 17/18 (148) as compared to FY 16/17 (159)</p>

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<p style="text-align: center;">Article (Temporary BMP) <i>Get your yards ready for Spring</i> March-April 2018 CityScope Newsletter English and Spanish</p>	<p>Provide information regarding stormwater pollution prevention</p>	<p>Inform the public regarding bag and tie yard waste, options for curbside bulk collection, drop off at the Recycling-Solid Waste Collection Center and promotion of backyard composters and composting workshops</p>	<p style="text-align: center;">City Residents</p>	<p>Mailed out to residents and local business's that receive water service</p> <p style="text-align: center;">Distribution:</p> <p>Mail: 67,782 customers per month</p> <p>Ebill: 18,459 per month</p> <p>An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>Provided two backyard composting workshops, one in Spring and one in Fall</p> <p>185 residents picked up composters in FY 17/18 as compared to 182 in FY 16/17, which equates to a 1.7% increase in FY 17/18</p>
<p style="text-align: center;">Article (Temporary BMP) <i>Don't Swim in Stormwater Runoff</i></p> <p style="text-align: center;">March 7, 2018 City's Website</p>	<p>Provide information regarding the potential safety risks as well as pollutants found in stormwater and how to reduce pollutants in stormwater</p>	<p>Inform the public about pollutants that may be found in stormwater and pollution prevention</p>	<p style="text-align: center;">City Residents</p>	<p style="text-align: center;">.</p>	<p>Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18</p>

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<p>Transit Shelter Posters (Temporary BMP)</p>	<p>“Only Rain in the Storm Drain” posters were posted at transit shelters throughout the City. 50,000 impressions per week per poster. Approximately 30 weeks during FY 17/18 which equates to approximately 1.5 million views per poster. We had an average of 12 to 15 posted at any given time that results in approximately 18 million views.</p>	<p>Pollution prevention, Promotes participation of the City’s HHW facility and do not dump or discharge pollutants into the storm drain system or other rights-of-way</p>	<p>City Residents, local businesses and City employees</p>	<p>15 Posters were printed and posted at local transit shelters throughout the City Dimensions 70" x 48" Total cost \$429.29</p>	<p><u>Locations</u> W ELLIOT RD at ELLIS ST W CHANDLER BLVD at RURAL RD E CHANDLER BLVD N COTTONWOOD W CHANDLER BLVD at ARROWHEAD KYRENE RD at CHANDLER BLVD MCCLINTOCK at DESERT BREEZE W CHANDLER BLVD at PARKLANE MCCLINTOCK at RAY RD N DOBSON RD at W GALVESTON N ALMA SCHOOL RD at W CALLE DEL Norte</p>
<p>Article (Temporary BMP) <i>Earth Day is April 22</i> April-May 2018 CityScope Newsletter English and Spanish</p>	<p>Provide information regarding City services, programs and events</p>	<p>Pollution prevention, Promotes participation of the City’s HHW facility and do not dump or discharge pollutants into the storm drain system or other rights-of-way</p>	<p>City Residents, local businesses and City employees</p>	<p>Mailed out to residents and local business’s that receive water service. Distribution: Mail: 67,782 customers per month Ebill: 18,459 per month An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>2,992 residents dropped off household hazardous waste. Decrease in 8.5% in the number of visits to the Household Hazardous Waste facility and a 8.4% increase in amount of material accepted and a 4.4% increase in amount of material recycled as compared to FY 16/17</p>

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<p style="text-align: center;">Article (Temporary BMP) <i>Responsible pet ownership reminders</i> May-June 2018 CityScope Newsletter English and Spanish</p>	<p>Provide information regarding City services, programs and events</p>	<p>Pollution prevention, Promotes the importance of cleaning up animal waste</p>	<p>Pet owners, City Residents and City employees</p>	<p>Mailed out to residents and local business's that receive water service.</p> <p style="text-align: center;">Distribution:</p> <p>Mail: 67,782 customers per month Ebill: 18,459 per month</p> <p>An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>0.9% increase in the amount of pet waste bags distributed at City sponsored events from FY 17/18 to FY 16/17</p>
<p style="text-align: center;">Article (Temporary BMP) <i>What should you do with your household hazardous waste?</i> May-June 2018 CityScope Newsletter English and Spanish</p>	<p>Provide information on proper disposal of household hazardous waste</p>	<p>Promotes participation of the City's HHW facility</p>	<p>City Residents, local and City employees</p>	<p>Mailed out to residents and local business's that receive water service.</p> <p style="text-align: center;">Distribution:</p> <p>Mail: 67,782 customers per month Ebill: 18,459 per month</p> <p>An additional 1,000 copies are printed and distributed to 16 City facilities for dissemination to the public</p>	<p>2,992 residents dropped off household hazardous waste. Decrease in 8.5% in the number of visits to the Household Hazardous Waste facility and a 8.4% increase in amount of material accepted and a 4.4% increase in amount of material recycled as compared to FY 16/17</p>

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<p>City of Chandler 2017 Drinking Water Quality Consumer Confidence Report June 2018 (Temporary BMP)</p> <p>English and Spanish</p>	<p>Provide information associated with the City's drinking water, storm water and the City's HHW facility</p>	<p>Stormwater pollution prevention tips, reporting of illicit discharges and how to properly dispose of household hazardous waste</p>	<p>City Residents</p>	<p>Mailed out to residents and local business's that receive water service.</p> <p>Distribution: Mail: 122,000 postcards</p>	<p>Increase in 13,241 postcards or 12.2% distributed in FY 17/18 as compared to FY 16/17</p>
<p>Article (Temporary BMP) <i>You are the solution to stormwater pollution!</i> June 13, 2018 Quicklook Newsletter</p>	<p>Provide information regarding pollution prevention</p>	<p>How to report illicit discharges</p>	<p>City employees</p>	<p>The <i>Quicklook</i> online newsletter highlights current events and news happening in the City.</p> <p>It is available weekly, every Wednesday, on Chanweb and should be posted for employees without access to Chanweb.</p> <p>Current Circulation: 1,700+ employees</p>	<p>Evaluation of the effectiveness of this article is difficult to determine since the article was distributed in June 2018</p>

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<p style="text-align: center;">Brochure <i>Storm Drains: Do you know where stormwater pollutants end up?</i></p>	<p>Provide information regarding stormwater pollution prevention</p>	<p>Stormwater pollution prevention and reporting of illicit discharges</p>	<p>City Residents and others in attendance at City events</p>	<p>Distributed 636 brochures at public education and outreach events</p>	<p>Increase of 45 brochures as compared to FY 16/17 an increase of 7.6%</p> <p>The number of calls reporting pool discharges decreased nearly 4% from 106 in FY 16/17 to 102 in FY 17/18</p> <p>Total number of discharges decreased by nearly 7% in FY 17/18 (148) as compared to FY 16/17 (159)</p>
<p style="text-align: center;">Brochure <i>Only Rain in the Storm Drain Pool Drainage</i></p>	<p>Provide information regarding stormwater how to properly drain a pool</p>	<p>Informs residents that swimming pool water cannot be discharged into City Right-of-ways</p>	<p>City Residents</p>	<p>Distributed 604 brochures at public education and outreach events</p>	<p>Increase of 12 additional brochures as compared to FY 16/17 an increase of 2%</p> <p>The number of calls reporting pool discharges decreased 2% from 106 in FY 16/17 to 102 in FY 17/18</p>
<p style="text-align: center;">School Event Environmental Art Contest (Temporary BMP)</p>	<p>15th Annual 4th grade Environmental Art Contest</p>	<p>Stormwater Pollution Prevention, Recycling and Water Conservation</p>	<p>4th grade students and teachers</p>	<p>583 entries 33 schools participated Calendar (13 winners) Posters (6 winners)</p>	<p>Decrease in 105 entries and an increase in one additional school as compared to FY 16/17 4,000 calendars and 300 posters were printed and distributed</p>

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<p>Storm Drain Inlet Markers</p>	<p>Inlet markers serve as a reminder to not dump or discharge into storm drain structures</p> <p>storm drain inlet markers will be installed on new structures and at locations where the markers were found to be missing</p>	<p>No dumping into storm drains</p>	<p>City residents, local businesses, construction industry</p>	<p>402 inlet markers were installed. The City installed 324 inlet markers. 300 for retrofit applications and 24 were installed on replaced drainage structures. 78 inlet markers were installed by contractors. Additional markers will be installed as needed on both existing and new catch basins and scuppers. The City purchased 300 flat back inlet markers for a total of \$1,629</p>	<p>Noted decrease of 17.5% for the total number of markers installed. from FY 16/17 to FY 17/18</p> <p>Assessment of the effectiveness of inlet markers is very difficult to evaluate</p>
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<p style="text-align: center;">Social Media (Temporary BMP)</p>	<p>Provide information to the public that may be associated with the City's Stormwater Program</p> <p>2 ½ minute video about stormwater pollution prevention</p>	<p>Provide information regarding City events, pollution prevention, etc.</p>	<p>General public</p>	<p>Post 2 ½ minute video about stormwater pollution prevention</p> <p>Facebook posts encouraging use of Chandler's Household Hazardous Waste Facility were posted Aug. 19, 2016 and Nov. 17, 2016</p>	<p>Twitter followers as of June 30, 2018, were estimated to be approximately 44,000 as compared to 38,000 as of June 30, 2017, which results in an increase of nearly 16% in followers</p> <p>Facebook likes as of June 30, 2018, were estimated to be approximately 12,454 as compared to 11,500 as of June 30, 2017, which results in an increase of 8.3% increase in likes</p> <p>YouTube subscribers 557</p> <p>Three stormwater related PSA videos were aired on YouTube, which included information on picking up pet waste (29 views), swimming pools (49 views) and lawn care (15 views)</p> <p>The video was also posted to the City's YouTube Channel and it has received 320 views to date</p>
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D-2. DESCRIPTION OF CHANGES IN IDENTIFIED BMPS OR MEASUREABLE GOALS (8.1.3 and 8.4(l))

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Have there been any modifications to BMPs during this reporting period: Yes No.

If yes, provide a brief explanation of each modification below (Add Rows as Necessary).

ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

D-3. PUBLIC EDUCATION AND OUTREACH (6.4.1)

Provide a summary of activities planned for the next reporting period in the following table

Best Management Practice	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Educational Materials	The City will develop and distribute educational materials to promote increased stormwater awareness including articles, brochures, a stormwater webpage, storm drain inlet markers and promotional items on an annual basis	Distribute educational materials such as promotional items that promote and increase awareness of stormwater, pollution prevention and how to report illicit discharges	Throughout the year
Educational Events	The City will participate in educational events, community events, festivals, workshops and/or open houses	Provide educational materials to the target audience to increase knowledge of pollutants in stormwater	Throughout the year
Stormwater Program Webpage	Promote education and communication on stormwater related topics	Review and/or revise content at least one time during the year	Throughout the year

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<p>Regional Coordination Stormwater Outreach for Regional Municipalities (STORM) Membership</p>	<p>Participation will be tracked and reported annually</p>	<p>City Staff will participate in monthly meetings, committees and/or serve on the Board of Directors</p>	<p>Throughout the year</p>
<p>Regional Coordination (Temporary BMP) AZ Water Association Stormwater Committee</p>	<p>Participation will be tracked and reported annually</p>	<p>The Stormwater Programs Coordinator and/or the Stormwater Program Specialist will participate as committee members</p>	<p>Throughout the year</p>
<p>School Event (Temporary BMP)</p>	<p>Participate in the 4th grade Environmental Art Contest and/or provide education and outreach to at least one classroom or school age group.</p>	<p>Provide educational materials to the target audience to increase knowledge of pollutants in stormwater</p>	<p>January thru May 2018</p>

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E. MCM-2: PUBLIC INVOLVEMENT AND PARTICIPATION (6.4.2 and 8.1.2)					
E-1. Provide a Summary of Public Involvement and Participation BMPs Implemented During the Reporting Period in the Following Table					
Best Management Practice	Measurable Goal (steps to measure progress)	Theme or Message	Target Audience	Percent of Target Audience Reached	Summary of Results and Effectiveness (8.1.2)
Hotline	Document the number of calls received from the public reporting IDDE related issues	Report Illicit Discharges	General public	City staff responded to and investigated 100% of the IDDE calls that were received on the hotline	Increase in calls received on the hotline from 11 calls in FY 16/17 to 27 calls in FY 17/18
Stormwater Program Webpage	Document the number of webpage visits and page views 2 ½ minute video about stormwater pollution prevention	Stormwater Pollution Prevention and How to report illicit discharges	General public	Stormwater Program Page visits: 531 Page Views: 785	Decrease in webpage visits (531) and page views (785) in FY 17/18 as compared to (702) and (964) respectively Video on pollution prevention Note: City webpages were completely updated during FY 17/18
School Event (Temporary BMP)	Participate in the 4 th grade Environmental Art Contest. Document the number of entries and schools that participate in the event	Stormwater Pollution Prevention, Recycling and Water Conservation	4th Grade teachers and students	Approximately 192 public, private and charter 4 th grade classrooms are provided with calendars and entry forms. 33 schools comprising of approximately 162 classrooms participated during the reporting period	15% decrease in the number of entries and one more school (3%) participated in the contest as compared to FY 16/17 An estimated 110 people attended the event

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<p style="text-align: center;">Educational Events</p>	<p>Estimate and document attendance and direct contacts with the public</p>	<p style="text-align: center;">Stormwater Pollution Prevention and How to report illicit discharges</p>	<p style="text-align: center;">General public</p>	<p>An estimated total of 15,279 people attended the 13 events held in FY 17/18, with an estimated direct contact of at least 1,666 which is equivalent to contact with approximately 11% of the total attendance as compared to approximately 14.5% of the total attendance reached in FY 16/17</p>	<p>City staff participated in 13 educational events. 10 events were sponsored or hosted by the City and three events were hosted by East Valley Educators (East Valley Educators Resource Fair), Hamilton High School (Hamilton Invitational Science and Engineering Fair) and Sun Groves HOA Annual Spring Festival)</p>
<p style="text-align: center;">Cable TV (Chandler Channel 11 (Temporary BMP)</p>	<p>Promote education and communication on stormwater related topics</p> <p style="text-align: center;">Document the estimated number of times that stormwater messages are aired</p>	<p>“Only Rain in the Storm Drain” and “Do you know where stormwater pollutants end up?”</p> <p>2 ½ minute video about stormwater pollution prevention</p>	<p style="text-align: center;">General public</p>	<p>Metrics associated with viewership of the public access channel are not available from the local cable providers</p>	<p>Slides are aired approximately ten times per day</p> <p>Video is aired approximately three times per week</p>

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<p>Public Meetings</p>	<p>Conduct public meetings associated with the City's Stormwater Program</p>	<p>Provide information to the public regarding construction projects that included stormwater collection and/or distribution components or other information associated with the City's Stormwater Program</p>	<p>General public</p>	<p style="text-align: center;">9/19/17 Mayor's Listening Tour Attendance (75) (Direct Contact with 30)</p> <p style="text-align: center;">9/28/17 City of Chandler Neighborhood College: Code Enforcement 101 Attendance (13)</p> <p style="text-align: center;">12/14/17 <u>Arizona Ave Improvement Project - Frye to Pecos</u> Attendance (17)</p> <p style="text-align: center;">1/31/18 <u>Chandler Heights Improvement Project - McQueen to Gilbert</u> Attendance (49)</p> <p style="text-align: center;">4/3/18 Mayor's Listening Tour Attendance (90) (Direct Contact with 30)</p> <p style="text-align: center;">4/24/18 HOA Academy Class #6 Understanding Stormwater Drainage System Maintenance and Stormwater Pollution Prevention. Attendance (19)</p>	<p>During the reporting period, the City's Communications & Public Affairs Department worked with the Capital Improvements Division and held two public meetings involving construction projects that included storm water collection and/or distribution components. Meeting notices were mailed to the media and to homes and businesses located near the project. The meetings provided adjacent property owners and surrounding residents an opportunity to ask questions and comment on the design plans. Stormwater Program staff participated in public education and outreach booths at two of the Mayor's Listening tour meetings with direct contact with approximately 165 residents and two Stormwater themed events including a Neighborhood College (Code Enforcement and Stormwater class) reaching 13 and a Understanding Stormwater Drainage System Maintenance and Stormwater Pollution Prevention class reaching 19 residents</p>
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<p>Social Media (Temporary BMP)</p>	<p>Provide information to the public that may be associated with the City's Stormwater Program</p> <p>2 ½ minute video about stormwater pollution prevention</p>	<p>Provide information regarding City events, pollution prevention, etc.</p>	<p>General public</p>	<p>Post 2 ½ minute video about stormwater pollution prevention</p> <p>Three Facebook posts encouraging use of Chandler's Household Hazardous Waste Facility were posted March 21, 2018, May 24, 2018 and June 15, 2018 (11,851 Facebook Followers)</p> <p>Two Twitter posts encouraging use of Chandler's Household Hazardous Waste Facility were posted on October 9, 2017 and November 2, 2017</p> <p>2,992 residents dropped off household hazardous waste. Decrease in 8.5% in the number of visits to the Household Hazardous Waste facility and a 8.4% increase in amount of material accepted and a 4.4% increase in amount of material recycled as compared to FY 16/17</p>	<p>Twitter followers as of June 30, 2018, were estimated to be approximately 43,900 as compared to 38,000 as of June 30, 2017, which results in nearly a 16% increase of in followers</p> <p>Facebook followers as of June 30, 2018, were estimated to be approximately 11,851 2,500 as compared to 11,500 as of June 30, 2017, which results in an increase of 3% increase in followers</p> <p>The video was also posted to the City's YouTube Channel and it has received 404 views to date, which results in a 26% increase in views in FY 17/18 as compared to FY 16/17</p>
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<p>Regional Coordination</p> <p>Stormwater Outreach for Regional Municipalities (STORM) Membership</p>	<p>Membership in good standing. City Staff will participate in monthly meetings , committees and/or serve on the Board of Directors</p>	<p>Regional organization promoting stormwater quality education within the greater Phoenix metropolitan area</p>	<p>General public, the regulated community and City staff</p>	<p>The Stormwater Programs Coordinator or Stormwater Program Specialist attended six out of the ten meetings held during FY 16/17.</p> <p>Members: 25 cities, towns, and non-traditional MS4 members</p> <p>Events: 108 events and 15,000 direct contacts</p> <p>Social Media: Increased audience engagement nearly 400%, with more than 3.5 million impressions and nearly 15,000 clicks (18+)</p> <p>Website: Received 13,871 webpage views, an increase of 33% from FY 2016 and webpage sessions increased by 112% from FY 2016 to 8180 sessions</p> <p>A middle school activity book (Stormwater in the Desert) targeted for children ages 6-12 was developed and 38,000 books were printed</p>	<p>Staff will continue to participate in meetings and/or committee's or serve on the Board of Directors for the organization</p> <p>Served as Director-at-Large during FY 17/18</p> <p>STORM Annual Report</p> <p>Site location: http://azstorm.org/about-us/annual-reports</p>
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<p>Regional Coordination (Temporary BMP) AZ Water Association Stormwater Committee</p>	<p>The Stormwater Programs Coordinator and/or the Stormwater Program Specialist will participate as committee members</p>	<p>Advocate for Arizona's water through bold leadership, connecting professionals, providing education, and inspiring environmental stewardship</p>	<p>General public, the regulated community and City staff</p>	<p>The AZ Water is a 501(c)(3) nonprofit educational organization founded in 1928 with a membership of 2,700 water, wastewater and stormwater professionals dedicated to preserving and enhancing Arizona's water environment The Stormwater Committee currently</p>	<p>Participate in regional coordination efforts promoting greater public education and outreach whenever possible Staff participated in one meeting during the reporting period</p>
<p>Annual SWMP Review</p>	<p>The SWMP and Annual Report will be posted on the City's Stormwater Program Website</p>	<p>Provide awareness of and participation in the review and implementation of the City's SWMP</p>	<p>General Public</p>	<p>A revised SWMP was updated and uploaded to the Stormwater Program webpage on August 1, 2018. Revisions were made throughout the SWMP to reflect the merging of the Municipal Utilities Department and the Transportation & Development Department, which is currently referred to as the Public Works & Utilities Department. Other observed errors and/or discrepancies, including, but not limited to changes to Departments, revisions to Standard Operating Procedures, nomenclature, etc., were corrected.</p>	<p>The SWMP and Annual Reports are posted throughout the year</p>



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E-2. Description of Changes to BMPs and Measurable Goals (8.1.3 and 8.4(I))			
<p>a) Have there been any modifications to BMPs during this reporting period: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, complete Section b, below (Add Rows as Necessary).</p>			
b) Summary of BMP Modifications			
ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

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E-3. PUBLIC INVOLVEMENT AND PARTICIPATION (6.4.2) Provide a Summary of Activities Planned for the Next Reporting Period in the Following Table			
Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Hotline	Maintain a dedicated phone number with voice mail capabilities that the public can call to report illicit discharges	Document the number of calls received from the public reporting IDDE related issues	Throughout the year
Stormwater Program Webpage	The City's stormwater webpage will be periodically reviewed and updated to provide information on stormwater related topics. The webpage will also include a copy of the City's SWMP and annual reports	Document the number of webpage visits and page views 2 ½ minute video about stormwater pollution prevention	Throughout the year
School Event (Temporary BMP)	Participate in the 4 th grade Environmental Art Contest and/or provide education and outreach to at least one classroom or school age group. Document the number of entries and schools that participate in the event	Promote stormwater pollution prevention, recycling and water conservation programs. Document the number of entries and schools that participate in the event	January thru May 2018
Educational Events	Staff will participate in a minimum of four outreach events during the year Estimate and document attendance and direct contacts with the public	The City will participate in educational events, community events, festivals, workshops and/or open houses	Throughout the year
Cable TV (Chandler Channel 11) (Temporary BMP)	Promote education and communication on stormwater related topics Document the estimated number of times that stormwater messages are aired	Stormwater Pollution Prevention information will be aired on public access channel	Throughout the year

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<p>Public Meetings</p>	<p>Conduct public meetings associated with the City's Stormwater Program</p>	<p>Provide information to the public regarding construction projects that included stormwater collection and/or distribution components or other information associated with the City's Stormwater Program</p>	<p>Throughout the year</p>
<p>Social Media (Temporary BMP)</p>	<p>Provide information to the public that may be associated with the City's Stormwater Program</p>	<p>Provide information regarding City events, pollution prevention, etc.</p>	<p>Throughout the year</p>
<p>Regional Coordination Stormwater Outreach for Regional Municipalities (STORM) Membership</p>	<p>Participation will be tracked and reported annually</p>	<p>City Staff will participate in monthly meetings, committees and/or serve on the Board of Directors</p>	<p>Throughout the year</p>
<p>Regional Coordination (Temporary BMP) AZ Water Association Stormwater Committee</p>	<p>Participation will be tracked and reported annually</p>	<p>The Stormwater Programs Coordinator and/or the Stormwater Program Specialist will participate as committee members</p>	<p>Throughout the year</p>
<p>Annual SWMP Review</p>	<p>The SWMP and Annual Reports will be posted on the City's Stormwater Program Website</p>	<p>Provide awareness of and participation in the review and implementation of the City's SWMP</p>	<p>December 2017 - January 2018</p>

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F. MCM-3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM (6.4.3 and 8.1.2)					
F-1. Provide a Summary of Illicit Discharge Detection and Elimination BMPs Implemented During the Reporting Period in the Following Table					
Best Management Practice	Measurable Goal (steps to measure progress)	Completed (Yes or No)	Date of Implementation	Percent of Target Audience Reached	Summary of Results and Effectiveness (8.1.2)
Storm Sewer System Mapping	GIS features associated with storm drain structures will be added into the system following final inspections and submittal of as-built information has been confirmed. Additional features may be added and/or revised when necessary	Yes	On-Going	N/A	945 new public (136) and private (809) structures were collected during FY 17/18 as compared to 1,065 structures collected in FY 16/17 which results in a decrease of 11.3%
Visual Dry Weather Outfall Monitoring	Inspections of City structures identified as dry weather field screening points will occur twice per year	Yes	On-Going	N/A	Conducted dry-weather visual outfall monitoring activity of 19 structures two times during the reporting period

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<p style="text-align: center;">Visual Stormwater Discharge Monitoring</p>	<p>The City will monitor a minimum of five representative outfalls two times during each wet season</p>	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">March 2017</p>	<p style="text-align: center;">N/A</p>	<p>Conducted wet-weather visual stormwater discharge monitoring activity at 6 locations three times during the reporting period</p> <p><u>Note:</u> We experienced a 102 day period without measurable rainfall from August 24, 2017 until December 4, 2017</p> <p>We experienced a total of 6 days of measurable rain during the summer wet season of 2017. Four of the six days occurred after work hours or on a weekend</p> <p style="padding-left: 40px;">7/17/17 (.08) 1PM to 2PM (Workday)</p> <p style="padding-left: 40px;">7/23/17 (.55) 9 PM to 12 AM (After Hours)</p> <p style="padding-left: 40px;">7/24/17 (.28) 10 AM to 11 AM (Work Day)</p> <p style="padding-left: 40px;">8/12/17 (.39) 11 pm to 12 AM (After Hours)</p> <p style="padding-left: 40px;">8/13/17 (1.50) 1 PM to 4 PM (After Hours)</p> <p style="padding-left: 40px;">8/23/17 (.16) 11 pm to 12 AM (After Hours)</p> <p>Staff will continue to conduct wet-weather visual stormwater discharge monitoring whenever site conditions are determined to be safe for both staff and the public</p>
<p style="text-align: center;">IDDE Staff Training</p>	<p>Appropriate City staff will be trained on the IDDE program</p>	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">On-Going</p>	<p>33 employees were trained to identify and report illicit discharges</p>	<p>57 out of 148 IDDE related calls were reported by COC staff</p>

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<p>Legal Authority Review</p>	<p>Inspection Standard Operating Procedures and documentation procedures will be evaluated</p>	<p>No</p>	<p>Fall 2018</p>	<p>N/A</p>	<p>Review Completed</p>
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<p>Illicit Discharge Response</p>	<p>Investigate illicit discharges and attempt to identify the source</p>	<p>Yes</p>	<p>On-Going</p>	<p>100%</p>	<p>Total number of discharges decreased by nearly 7% in FY 17/18 (148) as compared to FY 16/17 (159) The number of calls reporting pool discharges decreased nearly 4% from 106 in FY 16/17 to 102 in FY 17/18</p> <table border="1" data-bbox="1482 496 1934 1036"> <tr><td>Pool Water</td><td>68.92%</td><td>102</td></tr> <tr><td>Engine Fluids/Oil/Gas</td><td>13.51%</td><td>20</td></tr> <tr><td>Irrigation Water</td><td>4.73%</td><td>7</td></tr> <tr><td>Sediment</td><td>3.38%</td><td>5</td></tr> <tr><td>Carpet Cleaning Water</td><td>2.03%</td><td>3</td></tr> <tr><td>Animal Blood</td><td>0.68%</td><td>1</td></tr> <tr><td>Fertilizer</td><td>0.68%</td><td>1</td></tr> <tr><td>Leaves/Debris</td><td>0.68%</td><td>1</td></tr> <tr><td>Manure</td><td>0.68%</td><td>1</td></tr> <tr><td>Paint Washout</td><td>0.68%</td><td>1</td></tr> <tr><td>Rocks/Sediment</td><td>0.68%</td><td>1</td></tr> <tr><td>Waste</td><td>0.68%</td><td>1</td></tr> <tr><td>Water/Sediment</td><td>0.68%</td><td>1</td></tr> <tr><td>TOTALS</td><td>100.00 %</td><td>148</td></tr> </table> <p>Note: 120 Pollution prevention brochures issued 118 copies of City code issued 113 Notice to Comply forms issued 97 Pool drainage brochures issued 57 out of 148 calls reported by COC staff 11 letters issued to offenders</p>	Pool Water	68.92%	102	Engine Fluids/Oil/Gas	13.51%	20	Irrigation Water	4.73%	7	Sediment	3.38%	5	Carpet Cleaning Water	2.03%	3	Animal Blood	0.68%	1	Fertilizer	0.68%	1	Leaves/Debris	0.68%	1	Manure	0.68%	1	Paint Washout	0.68%	1	Rocks/Sediment	0.68%	1	Waste	0.68%	1	Water/Sediment	0.68%	1	TOTALS	100.00 %	148
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TOTALS	100.00 %	148																																													



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F-2. DESCRIPTION OF CHANGES IN IDENTIFIED BMPS OR MEASUREABLE GOALS (8.1.3 and 8.4(I)) BMP modifications: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, provide a brief explanation of each modification below (Add Rows as Necessary).			
ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

F-3. IDDE Staff Training (6.4.3.10)			
Frequency of Training	Date of Training Event	Training Subject	Number of Employees Trained
Periodically	August 10, 2017	SWMP, IDDE Awareness for Solid Waste Services staff	11
Periodically	June 6, 2018	SWMP, IDDE Awareness for Code Enforcement staff	15
Periodically	June 7, 2018	SWMP, IDDE Awareness for Civil Engineering Inspections staff	7
Annually	March 20, 2018	8-Hour HazWOpER refresher - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	29
Annually	March 22, 2018	8-Hour HazWOpER refresher - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	24
Annually	March 23, 2018	8-Hour HazWOpER refresher - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	22
Annually	March 27, 2018	8-Hour HazWOpER refresher - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	23

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Annually	March 28, 2018	8-Hour HazWOpER refresher - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	34
Initial	February 5 th - 9 th , 2018	40-Hour HazWOpER training - Identification of chemical, physical and biological hazards that may be present on sites, use of personal protective equipment, work practices to minimize risks from hazards and safe use of engineering controls and equipment	13

F-4. Illicit Discharge Identification and Response (6.4.3.5)

Date of Discovery	Method of Discovery	Type of Pollutants	Source	Estimated Duration of Illicit Discharge	Estimated Quantity	Date of Elimination	Escalated Enforcement Action Required?
5/17/17	Field Observation	Irrigation Water	Landscape	Unknown	Unknown	7/26/17	No
6/1/17	Telephone	Pool Water	Pool	Unknown	Unknown	7/3/17	No
06/07/17	Field Observation	Irrigation Water	Flood Irrigation	Unknown	Unknown	8/9/17	Letter
6/23/17	Field Observation	Oil	Vehicle	Unknown	Unknown	7/3/17	No
6/27/17	Field Observation	Pool Water/DE Algae/Sediment	Pool	Unknown	Unknown	7/6/17	No
7/2/17	Public Stuff App	Pool Water	Pool	1 day	Unknown	7/3/17	No
7/11/17	Field Observation	Pool Water	Pool	Unknown	Unknown	7/17/17	Letter

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7/13/17	Field Observation	Sediment	Park	Unknown	Unknown	7/26/17	No
7/24/17	Field Observation	Oil	Construction	Unknown	Unknown	8/30/17	No
7/27/17	Telephone	Pool Water	Pool	1 day	Unknown	7/28/17	No
8/1/17	Field Observation	Fertilizer	Construction	1 day	Unknown	8/4/17	No
8/1/17	Field Observation	Oil	Construction	2 days	Unknown	8/3/17	No
8/4/17	Public Stuff App	Leaves/debris	Landscape	1 day	Unknown	8/4/17	No
8/8/17	Field Observation	Pool Water	Pool	Unknown	Unknown	8/22/17	No
8/8/17	Internal	Pool Water	Pool	1 day	Unknown	8/10/17	No
8/14/17	Telephone	Engine Fluids	Vehicle	1 day	Unknown	8/15/17	No
8/15/17	Telephone	Irrigation Water	Landscape	1 day	Unknown	8/15/17	No
8/18/17	Telephone	Pool Water	Pool	1 day	Unknown	8/18/17	No
8/22/17	Email	Pool Water	Pool	1 day	Unknown	8/22/17	No
8/25/17	Field Observation	Pool Water	Pool	1 day	Unknown	8/25/17	No
8/31/17	Telephone	Pool Water/DE	Pool	1 day	Unknown	8/31/17	No
9/5/17	Field Observation	Irrigation Water	Flood Irrigation	Unknown	Unknown	9/21/17	No
9/6/17	Telephone	Pool Water	Pool	1 day	Unknown	9/7/17	No
9/11/17	Telephone	Pool Water	Pool	1 day	Unknown	9/11/17	No
9/11/17	In-Person	Oil and Gas	Vehicle	1 day	Unknown	9/12/17	No

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9/16/17	Public Stuff App	Pool Water	Pool	2 days	Unknown	9/18/17	No
9/18/17	Telephone	Pool Water	Pool	1 day	Unknown	9/18/17	No
9/18/17	Telephone	Pool Water	Pool	1 day	Unknown	9/18/17	No
9/25/17	Public Stuff App	Pool Water	Pool	1 day	Unknown	9/26/17	No
9/26/17	Telephone	Pool Water	Pool	1 day	Unknown	9/26/17	No
9/26/17	Public Stuff App	Irrigation Water	Landscape	2 days	Unknown	9/28/17	No
9/27/17	Field Observation	Engine Fluids	Construction Vehicles	Unknown	Unknown	10/10/17	No
9/28/17	Field Observation	Pool Water	Pool	1 day	Unknown	9/28/17	No
10/9/17	Internal	Pool Water	Pool	1 day	Unknown	10/9/17	No
10/9/17	Internal	Pool Water	Pool	1 day	Unknown	10/10/17	No
10/10/17	Telephone	Engine Fluids	Vehicle	Unknown	Unknown	10/30/17	No
10/11/17	Field Observation	Pool Water/DE	Pool	1 day	Unknown	10/11/17	No
10/11/17	Field Observation	Pool Water	Pool	1 day	Unknown	10/11/17	No
10/16/17	Telephone	Pool Water	Pool	1 day	Unknown	10/16/17	No
10/17/17	Field Observation	Pool Water	Pool	1 day	Unknown	10/17/17	No
10/17/17	Telephone	Oil	Vehicle	Unknown	Unknown	11/8/17	No
10/18/17	Telephone	Pool Water	Pool	1 day	Unknown	10/18/17	No
10/18/17	Telephone	Pool Water	Pool	7 days	Unknown	10/25/17	No
10/24/17	Telephone	Pool Water	Pool	1 day	Unknown	10/24/17	No



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10/27/17	Public Staff	Pool Water	Pool	3 days	Unknown	10/30/17	No
10/30/17	Telephone	Manure	Unknown	3 days	Unknown	11/2/17	No
10/31/17	Telephone	Sediment	Construction	14 days	Unknown	11/14/17	No
11/3/17	Telephone	Pool Water, Algae/Debris	Pool	3 days	Unknown	11/6/17	No
11/3/17	Telephone	Pool Water	Pool	1 day	Unknown	11/3/17	No
11/6/17	Telephone	Pool Water	Pool	1 day	Unknown	11/6/17	No
11/7/17	Telephone	Pool Water /Algae	Pool	6 days	Unknown	11/13/17	No
11/8/17	Telephone	Pool Water	Pool	1 day	Unknown	11/8/17	No
11/13/17	Telephone	Oil	Vehicle	7 days	Unknown	11/20/17	No
11/14/17	Internal	Oil	Vehicle	Unknown	Unknown	5/16/18	No
11/20/17	Field Observation	Pool Water	Pool	1 day	Unknown	11/20/17	No
11/21/17	Telephone	Pool Water	Pool	1 day	Unknown	11/21/17	No
11/28/17	Email	Oil	Vehicle	Unknown	Unknown	12/28/17	No
11/29/17	Field Observation	Water	HOA Pond	1 day	Unknown	11/29/17	No
12/1/17	Internal	Pool Water	Pool	1 day	Unknown	12/1/17	No
12/11/17	Field Observation	Pool Water	Pool	1 day	Unknown	12/12/17	No
12/12/17	Telephone	Carpet Cleaning Water	Contractor	1 day	Unknown	12/12/17	No
12/12/17	Field Observation	Pool Water	Pool	1 day	Unknown	12/12/17	No

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12/14/17	Field Observation	Water	Hose	1 day	Unknown	12/14/17	No
12/21/17	Field Observation	Pool Water	Pool	Unknown	Unknown	1/16/18	No
12/22/17	Public Stuff	Oil	Vehicle	Unknown	Unknown	1/16/18	No
1/8/18	Telephone	Pool Water	Pool	1 day	Unknown	1/8/18	No
1/9/18	Telephone	Pool Water	Pool	1 day	Unknown	1/9/18	No
1/11/18	Telephone	Waste	Plumbing Contractor	1 day	Unknown	1/11/18	No
1/11/18	Field Observation	Pool Water	Pool	1 day	Unknown	1/11/18	Letter
1/25/18	Telephone	Pool Water	Pool	1 day	Unknown	1/26/18	No
2/6/18	Telephone	Sediment	Landscape Contractor	1 day	Unknown	2/6/18	No
2/7/18	Telephone	Pool Water	Pool	1 day	Unknown	2/7/18	No
2/8/18	Telephone	Pool Water	Pool	1 day	Unknown	2/8/18	No
2/9/18	Telephone	Oil	Vehicle	1 day	Unknown	2/9/18	No
2/9/18	Public Stuff	Pool Water	Pool	3 days	Unknown	2/12/18	No
2/14/18	Telephone	Blood	Animal	1 day	Unknown	2/15/18	Letter
2/15/18	Email	Oil	Oil Drums	1 day	2 gallons	2/15/18	No
2/20/18	Telephone	Pool Water	Pool	1 day	Unknown	2/20/18	No
2/20/18	Field Observation	Pool Water	Pool	1 day	Unknown	2/20/18	No
2/20/18	Telephone	Pool Water	Pool	1 day	Unknown	2/21/18	No

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2/21/18	Field Observation	Oil	Delivery Trucks	Unknown	Unknown	3/12/18	No
2/21/18	Telephone	Carpet Cleaning Water	Contractor	2 days	Unknown	2/23/18	No
2/21/18	Telephone	Pool Water	Pool	1 day	Unknown	2/22/18	No
2/22/18	Telephone	Pool Water	Pool	1 day	Unknown	2/23/18	No
2/25/18	Public Stuff	Pool Water	Pool	1 day	Unknown	2/26/18	No
2/26/18	Public Stuff	Rocks/Sediment	Landscape Contractor	Unknown	Unknown	3/12/18	No
2/26/18	Field Observation	Pool Water	Pool	<1 day	Unknown	2/26/18	No
3/2/18	Telephone	Pool Water	Pool	Unknown	Unknown	3/9/18	No
3/3/18	Public Stuff	Pool Water	Pool	Unknown	Unknown	3/7/18	No
3/6/18	Telephone	Pool Water	Pool	1 day	Unknown	3/6/18	No
3/7/18	Telephone	Pool Water	Pool	1 day	Unknown	3/7/18	No
3/6/18	Field Observation	Pool Water	Pool	1 day	Unknown	3/6/18	No
3/8/18	Field Observation	Pool Water	Pool	1 day	Unknown	3/8/18	No
3/12/18	Field Observation	Pool Water	Pool	1 day	Unknown	3/12/18	No
3/14/18	Telephone	Pool Water	Pool	1 day	Unknown	3/14/18	No
3/14/18	Field Observation	Pool Water	Pool	<1 day	Unknown	3/14/18	No
3/16/18	Telephone	Pool Water	Pool	1 day	Unknown	3/16/18	No

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3/16/18	Telephone	Pool Water	Pool	1 day	Unknown	3/16/18	No
3/21/18	Telephone	Oil	Construction Vehicles	1 day	Unknown	3/22/18	No
3/21/18	Telephone	Pool Water	Pool	1 day	Unknown	3/22/18	No
3/26/18	Public Stuff	Pool Water	Pool	1 day	Unknown	3/27/18	No
3/27/18	Telephone	Oil	Vehicle	Unknown	Unknown	6/12/18	Letter
3/29/18	Telephone	Pool Water	Pool	1 day	Unknown	3/29/18	No
4/2/18	Telephone	Pool Water/DE	Pool	7 days	Unknown	4/9/18	No
4/4/18	Telephone	Pool Water/Algae	Pool	5 days	Unknown	4/9/18	No
4/6/18	Field Observation	Pool Water	Pool	1 day	Unknown	4/6/18	No
4/7/18	Public Stuff	Pool Water	Pool	Unknown	Unknown	4/9/18	No
4/10/18	Telephone	Pool Water	Pool	1 day	Unknown	4/10/18	No
4/11/18	Field Observation	Sediment	Construction	Unknown	Unknown	4/11/18	No
4/11/18	Telephone	Pool Water/Sediment	Pool	5 days	Unknown	4/16/18	No
4/13/18	Telephone	Pool Water	Pool	1 day	Unknown	4/13/18	No
4/13/18	Telephone	Irrigation Water	Landscape	1 day	Unknown	4/13/18	No
4/18/18	Telephone	Pool Water/sediment	Pool	6 days	Unknown	4/24/18	No
4/18/18	Telephone	Pool Water	Pool	1 day	Unknown	4/19/18	No
4/24/18	Telephone	Pool Water/sediment	Pool	3 days	Unknown	4/27/18	No

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4/25/18	Field Observation	Pool Water	Pool	<1 day	Unknown	4/25/18	No
4/25/18	Telephone	Pool Water	Pool	1 day	Unknown	4/25/18	No
4/27/18	Telephone	Water/Sediment	Dirt bikes	Unknown	Unknown	5/16/18	No
4/30/18	Telephone	Pool Water	Pool	Unknown	Unknown	5/8/18	Letter
5/7/18	Telephone	Pool Water	Pool	1 day	Unknown	5/7/18	No
5/8/18	Telephone	Pool Water	Pool	1 day	Unknown	5/8/18	No
5/8/18	Field Observation	Pool Water	Pool	1 day	Unknown	5/8/18	No
5/8/18	Telephone	Pool Water	Pool	Unknown	Unknown	5/9/18	No
5/14/18	Telephone	Carpet Clean Water	Contractor	1 day	Unknown	6/28/18	Letter
5/14/18	Telephone	Pool Water/Sediment	Pool	7 days	Unknown	5/22/18	No
5/15/18	Internal	Pool Water/DE	Pool	7 days	Unknown	5/22/18	No
5/15/18	Field Observation	Pool Water	Pool	1 day	Unknown	5/16/18	No
5/17/18	Email	Pool Water	Pool	1 day	Unknown	5/17/18	No
5/17/18	Telephone	Pool Water/Sediment	Pool	5 days	Unknown	5/22/18	No
5/21/18	Telephone	Pool Water	Pool	1 day	Unknown	5/21/18	No
5/22/18	Field Observation	Pool Water	Pool	1 day	Unknown	5/22/18	No
5/22/18	Telephone	Pool Water	Pool	Unknown	Unknown	5/25/18	No
6/1/18	Email	Paint Washout	Contractor	Unknown	Unknown	6/7/18	No

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6/4/18	Internal	Oil	Vehicle	Unknown	1 Large Spot	6/8/18	Letter
6/4/18	Field Observation	Irrigation Water	Landscape	1 day	Unknown	6/4/18	No
6/6/18	Telephone	Pool Water	Pool	1 day	Unknown	6/6/18	No
6/11/18	Telephone	Pool Water	Pool	1 day	Unknown	6/11/18	No
6/12/18	Telephone	Oil	Vehicle	Unknown	Unknown	6/12/18	No
6/12/18	Field Observation	Irrigation Water	Landscape	1 day	Unknown	6/12/18	No
6/14/18	Telephone	Oil	Vehicle	7 days	1 small spot	6/21/18	No
6/14/18	Telephone	Pool Water/DE	Pool	Unknown	Unknown	6/19/18	No
6/15/18	Field Observation	Pool Water	Pool	1 day	Unknown	6/15/18	No
6/18/18	Field Observation	Water	Fire Line	1 day	Unknown	6/19/18	No
6/20/18	Telephone	Pool Water	Pool	8 days	Unknown	6/28/18	Letter
6/20/18	Field Observation	Sediment	Construction	1 day	Unknown	6/21/18	No
6/21/18	Internal	Pool Water	Pool	1 day	Unknown	6/21/18	No
6/21/18	Field Observation	Pool Water	Pool	1 day	Unknown	7/10/18	Letter
6/25/18	Telephone	Pool Water	Pool	1 day	Unknown	6/26/18	No
6/28/18	Field Observation	Pool Water	Pool	1 day	Unknown	6/28/18	No

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F-5. Unpermitted Discharges to MS4 (6.4.3.11)

Facility Name	Type of Activity	SIC Code	AZPDES Permit Number (if known)
N/A	N/A	N/A	N/A

F-6. Illicit Discharge Detection and Elimination

Provide a Summary of Activities Planned for the Next Reporting Period in the Following Table

Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Storm Sewer System Mapping	GIS features associated with storm drain structures will be added into the system	New structures will be added to the system following final inspections and submittal of as-built information has been confirmed. Additional features may be added and/or revised when necessary	On-Going
Visual Dry Weather Outfall Monitoring	Inspections of City structures identified as dry weather field screening points will occur twice per year	The City will conduct visual dry weather outfall monitoring to ensure there are no illicit discharges, ineffective BMPs, or maintenance concerns	On-Going
Visual Stormwater Discharge Monitoring	The City will monitor a minimum of five representative outfalls two times during each wet season	The City will implement a visual stormwater discharge monitoring program	On-Going
IDDE Staff Training	Appropriate City staff will be trained on the IDDE program	The City will provide training for City staff on the IDDE program	On-Going
Illicit Discharge Response	Investigate illicit discharges and attempt to identify the source	The City will investigate illicit discharges and attempt to identify their source	On-Going

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G. MCM-4: CONSTRUCTION ACTIVITY STORMWATER RUNOFF CONTROL (6.4.4 and 8.1.2)				
G-1. Provide a Summary of Construction Activity Stormwater Runoff Control BMPs Implemented During the Reporting Period in the Following Table				
Best Management Practices	Measurable Goal	Date BMP was Implemented	Implementation Status (percent complete, date complete, on-going)	Summary of Results and Effectiveness (8.1.2)
Construction Plan Review	Assigned staff will review civil plan submittals	2003	On-Going	Plans were reviewed to ensure compliance with City design standards
Erosion and Sediment Control Plan	The City will perform Site Plan reviews	2007	On-Going	Noted a significant increase of 293% in site plans reviewed in FY 17/18 (240) as compared to FY 16/17 (61)
Construction Inspections	The City will perform inspections of construction activity	2003	On-Going	Noted an increase of 32 % in the total number of inspections conducted from FY 16/17 to FY 17/18 Conducted 207 inspections during FY 17/18 Conducted 157 inspections during FY 16/17
Educational Materials for Construction Activity (New BMP)	The City will review and update educational materials for construction activity stormwater runoff control if necessary	2003	On-Going	Noted a 26.2% increase in brochures distributed during inspections from FY 16/17 to FY 17/18 53 brochures distributed in FY 17/18 42 brochures distributed in FY 16/17
Inventory	The City will maintain an inventory of construction sites	2014	On-Going	90 active construction sites were observed and inspected



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G-2. Description of Changes in BMPs and Measurable Goals (8.1.3 and 8.4(l))			
BMP modifications: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, provide a brief explanation of each modification below (Add Rows as Necessary).			
ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

G-3. Construction Activity Complaints (6.4.4.5 and 8.4(i))	
Number of Complaints Received	Number of Complaint Responses/Resolved
3	3

G-4. Construction Activity Inspections			
Number of Active Construction Sites	Number of Active Construction Sites Inspected	Number of Re-Inspections	Average Inspection Frequency
90	90	52	2.3
Number of Violations		Number of Enforcement Actions	
52 re-inspections for noted corrective actions		0	

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G-5. Construction Activity Stormwater Runoff Control Provide a Summary of Activities Planned for the Next Reporting Period in the Following Table			
Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Construction Plan Review	Assigned staff will review civil plan submittals	Review civil plans submittals to ensure compliance with City Design standards	On-Going
Erosion and Sediment Control Plan	Erosions and Sediment Control Plans will be reviewed	Review Erosion and Sediment Control site plans that identify erosion and sediment control measures, stormwater best management practices, and site conditions and activities that may prevent and/or minimize the discharge of pollutants	On-Going
Inspections	The City will perform inspections of construction activity	Conduct inspections of active construction sites to ensure that BMPs are effective and to minimize pollutants entering the MS4	On-Going
Educational Materials for Construction Activity	The City will review and update educational materials for construction activity stormwater runoff control if necessary	Distribute brochures to construction site operators	On-Going
Inventory	The City will maintain an inventory of construction sites	Maintain an active list of construction sites in the City	On-Going

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H. MCM-5: POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT (6.4.5 and 8.1.2)				
H-1. Provide a Summary of Post-Construction Activity Stormwater Runoff Control BMPs Implemented During the Reporting Period in the Following Table				
BMP	Measurable Goal (steps to measure progress)	Completed (Yes or No)	Cite Local Code(s) Being Used (If available, web link for code(s))	Summary of Results and Effectiveness (8.1.2)
Post-Construction Inspections	Conduct final, 1 year warranty and proactive inspections	Yes	https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_TDM_3.pdf (Unified Development Manual) https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_StormwaterQualityProtectionManual.pdf (City of Chandler Manual on Stormwater Quality Protection)	25 Final inspections, 28 one-year warranty inspections and 5,477 MS4 structures were inspected
Educational Materials	Review educational materials	Yes	N/A	Applicable materials are distributed as needed or upon request. Additional materials will be produced
Post-Construction Inventory	Maintain inventory of post-construction structural control measures in GIS system	Yes	N/A	945 new public (136) and private (809) structures were collected during FY 17/18 as compared to 1,065 structures collected in FY 16/17 which results in a decrease of 11.3%

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<p style="text-align: center;">Site Plan Review</p>	<p>Assigned staff will review civil plan submittals</p>	<p style="text-align: center;">Yes</p>	<p style="text-align: center;"> https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_TDM_3.pdf (Unified Development Manual) https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_StormwaterQualityProtectionManual.pdf (City of Chandler Manual on Stormwater Quality Protection) </p>	<p>Noted a significant increase of 293% in site plans reviewed in FY 17/18 (240) as compared to FY 16/17 (61)</p>
<p style="text-align: center;">Operation and Maintenance of Post-Construction BMPs</p>	<p>The City will conduct inspections and maintenance of Post-Construction BMPs</p>	<p style="text-align: center;">Yes</p>	<p style="text-align: center;"> https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_TDM_3.pdf (Unified Development Manual) Technical Design Manual (TDM)# 3, sections 3.6 and 3.8 https://www.chandleraz.gov/sites/default/files/documents/imported/UDM_StormwaterQualityProtectionManual.pdf (City of Chandler Manual on Stormwater Quality Protection) </p> <p style="text-align: center;">City storm sewer system structures identified during proactive inspections will be maintained</p> <p style="text-align: center;">City staff observed 27 violations of post-construction related issues that were located on private property as a result of conducting proactive inspections</p> <p style="text-align: center;">17 of the 27 violations have been corrected to date</p> <p style="text-align: center;"><u>Reduction in staff for 3 months due to the promotion of the Stormwater Program Specialist in late November 2017. The position was filled in late February 2018</u> <u>Training for the new Stormwater Program Specialist is ongoing</u></p>	<p>Decrease of 23.5% in number of structures inspected from FY 17/18 (5,477) as compared to FY 16/17 (7,161) and nearly 39% increase in structures maintained, repaired or replaced (1,901) in FY 17/18 as compared to FY 16/17 (1,373)</p>



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H-2. Post-Construction Stormwater Management in New Development and Redevelopment (8.4(j))	
Number of Sites Requiring Post-Construction Controls	Number of Post-Construction Stormwater Controls Inspected
350 (Estimated)	5,477
Number of Post-Construction Stormwater Control Violations	Number of Post-Construction Stormwater Control Violations Resolved
27	17

H-3. Description of Changes in BMPs or Measurable Goals (8.1.3 and 8.4(l))			
BMP modifications: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, provide a brief explanation of each modification below (Add Rows as Necessary).			
ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

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H-4. Post-Construction Stormwater Management in New Development and Redevelopment (6.4.1) Provide a Summary of Activities Planned for the Next Reporting Period in the Following Table			
Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Post-Construction Inspections	Conduct final, One year warranty and proactive inspections	The City will implement an inspection program that focuses on City storm sewer system structures	On-Going
Educational Materials	Review educational materials	The City will review and update educational materials for post construction management	On-Going
Post-Construction Inventory	Maintain inventory of post-construction structural control measures in GIS system	The City will maintain an up to date inventory of post construction structural control measures	On-Going
Site Plan Review	Assigned staff will review civil plan submittals	The City will Review civil plan submittals to ensure compliance with City Design standards	On-Going

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<p>Operation and Maintenance of Post- Construction BMPs</p>	<p>The City will conduct inspections and maintenance of Post-Construction BMPs</p>	<p>City storm sewer system structures identified during proactive inspections that require maintenance will be addressed BMPs located on private property that effect the MS4 or are in need of maintenance will be addressed</p>	<p>On-Going</p>
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I. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS (6.4.6)			
I-1. Summary of Pollution Prevention and Good Housekeeping BMPs in the Following Table			
Facility Name (Group Facilities as Appropriate)	Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Results and Effectiveness (8.1.2)
Recycling, Solid Waste Collection Center and Household Hazardous Waste Facility	The City will manage a Household Hazardous Waste Collection Facility	The City will track usage, amount of material reused, recycled, or properly managed for disposal	2,992 residents dropped off household hazardous waste. Decrease in 8.5% in the number of visits to the Household Hazardous Waste facility and a 8.4% increase in amount of material accepted and a 4.4% increase in amount of material recycled as compared to FY 16/17
Armstrong Yard	The City will contain loose bulk materials such as dirt, street sweeping debris and other materials in separate three sided bins	The City will maintain bulk material bins and evaluate the effectiveness and need for additional bins and modify as necessary	Six 3 - sided bins are in place and contain alley waste, UPM, ABC, clean dirt, Street sweeping material and vector truck solids No additional bins needed at this time
Armstrong Yard	The City will inspect and maintain vehicle and equipment wash areas	The City will inspect and maintain vehicle and equipment wash areas	The Streets wash bay was maintained a total of 75 times (Contractor (55) and Streets Division (20) during FY 17/18 and 51 times during FY 16/17 An increase of 47% for the current reporting period
Various Facilities	Employee Training	Appropriate City staff will participate in stormwater training focused on pollution prevention and good housekeeping techniques	178 employees were provided with training that included pollution prevention, good housekeeping and/or IDDE awareness

Small Municipal Separate Storm Sewer System Annual Report Form

<p style="text-align: center;">City Streets</p>	<p style="text-align: center;">The City will maintain a street sweeping program</p>	<p>The City will track street sweeping metrics including lane miles swept and amount of materials removed</p>	<p>12.05% decrease in tons of material removed from the street and 0.5% decrease in lane miles swept from FY 16/17 to FY 17/18</p> <p><u>Supervisor retired in December 2017. A new Supervisor was selected and started around February 2018. Staff, training, scheduling and procedural changes within the program have occurred</u></p>
<p style="text-align: center;">City Facilities</p>	<p style="text-align: center;">Maintain an inventory of City owned facilities will be collected and ranked according to potential environmental hazard or risk</p>	<p>A list of City owned facilities will be established and an annual prioritized inspection work plan will be developed. The inventories will identify activities, performed at each facility, chemicals stored, and inspection guidelines based on each type of facility</p>	<p>66 City facilities were identified and ranked according to their respective potential environmental hazard or risk. 14 locations were removed from the original list due to their location's outside of the MS4 urbanized area</p>
<p style="text-align: center;">City Facilities</p>	<p style="text-align: center;">Conduct Site Inspections</p>	<p>Facilities inspected will be tracked and reported annually</p>	<p>46 inspections of City facilities were conducted during FY 17/18 as compared to 30 inspections during FY 16/17, which results in a 53% increase.</p>
<p style="text-align: center;">Storm Sewer System</p>	<p style="text-align: center;">The City will conduct inspections and maintenance of the City storm sewer system</p>	<p>City storm sewer system structures identified during proactive inspections will be maintained structures maintained</p>	<p>Decrease of 23.5% in structures inspected from FY 17/18 (5,477) as compared to FY 16/17 (7,161) and nearly 39% increase in structures maintained (1,901) in FY 17/18 as compared to FY 16/17 (1,373) <u>Reduction in staff for 3 months due to the promotion of the Stormwater Program Specialist in late November 2017. The position was filled in late February 2018. Training for the new Stormwater Program Specialist is ongoing</u></p>



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I-2. Description of Changes in BMPs and Measurable Goals (8.1.3 and 8.4(l))			
BMP modifications: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, provide a brief explanation of each modification below (Add Rows as Necessary).			
ADEQ Directed (8.1.4)	BMP Modified	Analysis of Why BMP Was Ineffective or Infeasible	Analysis of Why BMP is Expected to Achieve Goals
<input type="checkbox"/> Yes	N/A	N/A	N/A

I-3. Updates to Operation and Maintenance Programs (6.4.6 (a-g))
N/A

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I-4. Pollution Prevention and Good Housekeeping for Municipal Operations Provide a Summary of Activities Planned for the Next Reporting Period in the Following Table			
Best Management Practices	Measurable Goal (steps to measure progress)	Summary of Planned Activities	Proposed Schedule
Household Hazardous Waste Collection Facility	The City will track usage, amount of material reused, recycled, or properly managed for disposal	The City will manage a Household Hazardous Waste Collection Facility	On-Going
Implement Controls (Armstrong Yard)	The City will maintain bulk material bins and evaluate the effectiveness and need for additional bins and modify as necessary	The City will contain loose bulk materials such as dirt, street sweeping debris and other materials in separate three sided bins	On-Going
O & M Procedures (Armstrong Yard)	The City will inspect and maintain vehicle and equipment wash areas and conduct maintenance activities when needed	The City will inspect and maintain vehicle and equipment wash areas	On-Going
Training	Appropriate City staff will participate in stormwater training focused on pollution prevention and good housekeeping practices. Participation will be tracked	The City will provide training on pollution prevention and good housekeeping techniques	On-Going
Street Sweeping	The City will track street sweeping metrics including lane miles swept and amount of materials removed	The City will maintain a street sweeping program	On-Going
Inventory and prioritization of municipal operations and site inspections	A list of City owned facilities will be established and an annual prioritized inspection work plan will be developed	An inventory of City owned facilities will be collected and ranked according to potential environmental hazard or risk	On-Going
Operations and Maintenance of storm sewer system	The City storm sewer system structures identified during proactive inspections will be maintained and work orders will be generated and tracked when maintenance needs are identified	The City will conduct maintenance of the City storm sewer system	On-Going



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J. Receiving Waters and Monitoring (7.0)					
Name of Receiving Water Included in Appendix B	Number of Outfalls	Receiving Water Listed as Impaired, Not-Attaining and/or OAW	Listed Pollutants	TMDL	Analytical Monitoring Conducted this Reporting Year?
Gila Drain	19 Visual Dry Weather Outfall Monitoring Locations	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Receiving Water	How many outfalls will be sampled?	List parameter(s) to be analyzed	Provide a description of selected BMPs and how they will specifically address the pollutant(s) causing the impairments or how the BMPS will be protective of the OAW
N/A	N/A	N/A	N/A



Small Municipal Separate Storm Sewer System Annual Report Form

Certification

The annual report must be signed by either a principal executive officer or ranking elected official, or by a duly authorized representative (refer to Permit Part 9.9(a)).

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 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

9/17/18

Date (mm/dd/yyyy)

Marsha Reed

Name (printed)

City Manager

Title



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Small MS4 DISCHARGE MONITORING REPORT (DMR) Form for Permit No. AZG2016-002

Reporting Period: July 1, 2017 – June 30, 2018

Reason(s) for Submitting DMR (Check all that apply):

- Reporting visual monitoring data (Fill in all Sections). Number of samples collected: 0
- Reporting analytical monitoring data (Fill in all Sections). Number of samples collected: _____
- Reporting no discharge at all outfalls for visual monitoring this period (Fill in Sections A, B, possibly D, and E).
- Reporting no discharge at all outfalls for analytical monitoring this period (Fill in Sections A, B, C., and E).

A. Permit Authorization Number: 2016-65730

Note: Read instructions before completing this Form.

B. Facility Information

1. MS4 Name: City of Chandler

2. MS4 Location: PO Box 4008, Mail Stop 909

a. Street: 975 E. Armstrong Way, Bldg C

b. City: Chandler

c. State: AZ d. Zip Code: 85244

3. Additional MS4 Information:

Contact Name: Dave Verhelst

E-mail: david.verhelst@chandleraz.gov

Phone: (480) 782-3503

4. DMR Preparer (Complete if DMR was prepared by someone other than the person signing the certification in Section F)

Prepared by: Kenya Chavez

Organization: City of Chandler

E-mail: kenya.chavez@chandleraz.gov

Phone: 480-782-3506

G. Certification

		<p>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.</p>		
Typed or Printed Name/Title of Principal Executive Officer or Authorized Agent	Marsha Reed / City Manager		Signature of Principal Executive Officer or Authorized Agent	Date
E-mail of Principal Executive Officer or Authorized Agent: Marsha.Reed@chandleraz.gov				



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Small MS4 DISCHARGE MONITORING REPORT (DMR) Form for Permit No. AZG2016-002

Reporting Period: July 1, 2017 – June 30, 2018

Reason(s) for Submitting DMR (Check all that apply):

- Reporting visual monitoring data (Fill in all Sections). Number of samples collected: 0
- Reporting analytical monitoring data (Fill in all Sections). Number of samples collected: _____
- Reporting no discharge at all outfalls for visual monitoring this period (Fill in Sections A, B, possibly D, and E).
- Reporting no discharge at all outfalls for analytical monitoring this period (Fill in Sections A, B, C., and E).

A. Permit Authorization Number: 2016-65730

Note: Read instructions before completing this Form.

B. Facility Information

1. MS4 Name: City of Chandler

2. MS4 Location: PO Box 4008, Mail Stop 909

a. Street: 975 E. Armstrong Way, Bldg C

b. City: Chandler

c. State: AZ d. Zip Code: 85244

3. Additional MS4 Information:

Contact Name: Dave Verhelst

E-mail: david.verhelst@chandleraz.gov

Phone: (480) 782-3503

4. DMR Preparer (Complete if DMR was prepared by someone other than the person signing the certification in Section F)

Prepared by: Kenya Chavez

Organization: City of Chandler

E-mail: kenya.chavez@chandleraz.gov

Phone: 480-782-3506



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
MS4 DISCHARGE MONITORING REPORT (DMR) for Permit No. AZG2016-002

C. VISUAL MONITORING- OUTFALLS OR SCREENING POINTS

If a visual discharge monitoring alternative was proposed in the NOI, provide a description of the proposed alternative and how the proposed alternative is as effective as, or is more effective than, visual stormwater discharge monitoring:

1.a. Outfall or Screening Point Name/ ID	1.b. Receiving Water	1.c Sample Collection Season*				1.d. Monitoring Type* (DW-ID, WW)	1.e. Sheen	1.f. Color	1.g. Foam	1.h. Solids (specify)	1.i. Odor (specify)	1. j. Other (specify)
		SW1	SW2	WW1	WW2							
MH-12-41-005	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
CB-12-42-001	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves
CB-12-43-002	Gila Drain			M		DW-ID	N/A	N/A	No	5%	N/A	Leaves, Trash
MH-12-45-010	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Dirt
CB-12-46-005	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves, Cans
MH-12-47-010	Gila Drain			M		DW-ID	None	Clear	No	None	None	Standing Water
MH-12-47-001	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
CB-12-47-004	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
CB-12-47-005	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves, Bottle
MH-12-48-009	Gila Drain			M		DW-ID	None	Clear	No	None	None	Irrigation Water
OUT-10-49-008	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
MH-13-50-001	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
MH-13-52-002	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
MH-13-53-005	Gila Drain			M		DW-ID	N/A	N/A	No	N/A	N/A	N/A
CB-13-54-001	Gila Drain			M		DW-ID	N/A	N/A	No	10%	None	Leaves, Papers
MH-13-56-026	Gila Drain			M		DW-ID	N/A	N/A	No	10%	None	Bottles
CB-14-58-001	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves
CB-14-59-012	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves, Trash
CB-14-60-012	Gila Drain			M		DW-ID	N/A	N/A	No	<5%	N/A	Leaves

1.c codes M= Monitored. ND= No Discharge from outfall or screening point. IF= Insufficient Flow for sampling. EQ= Equipment Failure. AC= Adverse Conditions. SE= Sampler Error. FC= Frozen Conditions. O= Other.

1.d codes (DW-ID) – Dry Weather- Illicit Discharge; (WW) – Wet Weather

2. Comments and/or Explanation of Any Violations (Reference all attachments here)

Inspections of the structures above were conducted on November 16, 2017

G. 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.		9/17/18
Typed or Printed Name/Title of Principal Executive Officer or Authorized Agent	Marsha Reed / City Manager		Signature of Principal Executive Officer or Authorized Agent	Date
E-mail of Principal Executive Officer or Authorized Agent: Marsha.Reed@chandleraz.gov				



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Small MS4 DISCHARGE MONITORING REPORT (DMR) Form for Permit No. AZG2016-002

Reporting Period: July 1, 2017 – June 30, 2018

Reason(s) for Submitting DMR (Check all that apply):

- Reporting visual monitoring data (Fill in all Sections). Number of samples collected: 0
- Reporting analytical monitoring data (Fill in all Sections). Number of samples collected: _____
- Reporting no discharge at all outfalls for visual monitoring this period (Fill in Sections A, B, possibly D, and E).
- Reporting no discharge at all outfalls for analytical monitoring this period (Fill in Sections A, B, C., and E).

A. Permit Authorization Number: 2016-65730

Note: Read instructions before completing this Form.

B. Facility Information

1. MS4 Name: City of Chandler

2. MS4 Location: PO Box 4008, Mail Stop 909

a. Street: 975 E. Armstrong Way, Bldg C

b. City: Chandler

c. State: AZ d. Zip Code: 85244

3. Additional MS4 Information:

Contact Name: Dave Verhelst

E-mail: david.verhelst@chandleraz.gov

Phone: (480) 782-3503

4. DMR Preparer (Complete if DMR was prepared by someone other than the person signing the certification in Section F)

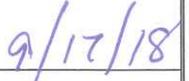
Prepared by: Kenya Chavez

Organization: City of Chandler

E-mail: kenya.chavez@chandleraz.gov

Phone: 480-782-3506

G. 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.		
Typed or Printed Name/Title of Principal Executive Officer or Authorized Agent	Marsha Reed / City Manager		Signature of Principal Executive Officer or Authorized Agent	Date
E-mail of Principal Executive Officer or Authorized Agent: Marsha.Reed@chandleraz.gov				



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Small MS4 DISCHARGE MONITORING REPORT (DMR) Form for Permit No. AZG2016-002

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B. Facility Information

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3. Additional MS4 Information:

Contact Name: Dave Verhelst

E-mail: david.verhelst@chandleraz.gov

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Prepared by: Kenya Chavez

Organization: City of Chandler

E-mail: kenya.chavez@chandleraz.gov

Phone: 480-782-3506

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Typed or Printed Name/Title of Principal Executive Officer or Authorized Agent	Marsha Reed / City Manager		Signature of Principal Executive Officer or Authorized Agent	Date
E-mail of Principal Executive Officer or Authorized Agent: Marsha.Reed@chandleraz.gov				



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Small MS4 DISCHARGE MONITORING REPORT (DMR) Form for Permit No. AZG2016-002

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E-mail: david.verhelst@chandleraz.gov

Phone: (480) 782-3503

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Prepared by: Kenya Chavez

Organization: City of Chandler

E-mail: kenya.chavez@chandleraz.gov

Phone: 480-782-3506



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
MS4 DISCHARGE MONITORING REPORT (DMR) for Permit No. AZG2016-002

C. VISUAL MONITORING- OUTFALLS OR SCREENING POINTS

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1.a. Outfall or Screening Point Name/ ID	1.b. Receiving Water	1.c Sample Collection Season*				1.d. Monitoring Type* (DW-ID, WW)	1.e. Sheen	1.f. Color	1.g. Foam	1.h. Solids (specify)	1.i. Odor (specify)	1. j. Other (specify)
		SW1	SW2	WW1	WW2							
MH-12-41-005	Gila Drain	M				DW-ID	None	Clear	No	N/A	None	Standing Water
CB-12-42-001	Gila Drain	M				DW-ID	N/A	N/A	No	<5%	N/A	Leaves
CB-12-43-002	Gila Drain	M				DW-ID	N/A	N/A	No	10%	N/A	Leaves, Trash
MH-12-45-010	Gila Drain	M				DW-ID	None	Clear	No	None	None	Standing Water
CB-12-46-005	Gila Drain	M				DW-ID	N/A	N/A	No	N/A	None	N/A
MH-12-47-010	Gila Drain	M				DW-ID	N/A	N/A	No	N/A	N/A	N/A
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MH-12-48-009	Gila Drain	M				DW-ID	None	Clear	No	None	Musty	Standing Water
OUT-10-49-008	Gila Drain	M				DW-ID	None	Clear	No	None	None	Irrigation Water
MH-13-50-001	Gila Drain	M				DW-ID	No	Clear	No	None	N/A	Minimal Standing Water
MH-13-52-002	Gila Drain	M				DW-ID	N/A	N/A	No	N/A	N/A	N/A
MH-13-53-005	Gila Drain	M				DW-ID	None	Clear	No	None	None	Minimal Standing Water
CB-13-54-001	Gila Drain	M				DW-ID	N/A	N/A	No	10%	None	Leaves, Bag
MH-13-56-026	Gila Drain	M				DW-ID	N/A	N/A	No	10%	None	Bottles
CB-14-58-001	Gila Drain	M				DW-ID	N/A	N/A	No	<5%	N/A	Leaves
CB-14-59-012	Gila Drain	M				DW-ID	N/A	N/A	No	<5%	N/A	Leaves
CB-14-60-012	Gila Drain	M				DW-ID	None	Clear	No	<5%	N/A	Standing Water, Leaves

1.c codes M= Monitored. ND= No Discharge from outfall or screening point. IF= Insufficient Flow for sampling. EQ= Equipment Failure. AC= Adverse Conditions. SE= Sampler Error. FC= Frozen Conditions. O= Other.
 1.d codes (DW-ID) – Dry Weather- Illicit Discharge; (WW) – Wet Weather

2. Comments and/or Explanation of Any Violations (Reference all attachments here)

Inspections of the structures above were conducted on June 19, 2018

G. 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.		9/17/18
Typed or Printed Name/Title of Principal Executive Officer or Authorized Agent	Marsha Reed / City Manager		Signature of Principal Executive Officer or Authorized Agent	Date
E-mail of Principal Executive Officer or Authorized Agent: Marsha.Reed@chandleraz.gov				