



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



1110 West Washington Street Phoenix, Arizona 85007
(602) 771-2300 www.azdeq.gov

Small MS4 Annual Report

ID #: AZSM65661

MS4 Name: CITY OF BUCKEYE MS4

Reporting Period: 01-Jul-2018 To 30-Jun-2019

Main Office

1110 W. Washington Street . Phoenix, AZ 85007
(602)771-2300

Southern Regional Office

400 W. Congress Street . Suite 433 . Tucson, AZ 85701
(520)628-6733

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Annual Report Summary

Company Information

Name : CITY OF BUCKEYE DEPARTMENT OF PUBLIC WORKS
530 E MONROE AVE
BUCKEYE
AZ , 85326

Question: During this reporting period, was additional land annexed into the regulated MS4 area?

Answer: No

Question: Is stormwater sewer mapping 100 percent complete?

Answer: No

Percentage completed: 99

Provide estimated dates for the percent completion:

100% - 06/30/2020

Provide the description of the measurable goal:

The urbanized area is sequentially completed.

First subdivision plans are reviewed by field verification and data entry using the mobile phone ESRI app, Collector. Major streets are field verified. Unknown or questioned underground pipe directions are confirmed by lifting manhole covers and using a camera on a pole, so that confined space entry is not required. Finally, the entire watershed connection to a surface water is also field verified. This field data is then fine tuned with aerial photography by a GIS technician.

Currently, nearly the entire urbanized area has been field confirmed. We are at 99% complete with the mapping of the urbanized area. Buckeye was deemed to be the fastest growing city in the US (June 2019) and with that comes additional stormwater infrastructure. Mapping will be complete June 30, 2020, as scheduled.

Question: Is outfall mapping 100 percent complete?

Answer: Yes

Number of outfalls mapped: 1

Provide the description of the measurable goal:

During the city's stormwater mapping of the urbanized area, one outfall was discovered in spring 2019.

Question: Is identification of receiving waters information 100 percent complete?

Answer: Yes

Provide the description of the measurable goal:

Complete. Maps have been created and available for public viewing at www.buckeyeaz.gov; search GIS maps.

Staff reviewed the surface water list in 18 A.A.C. 11, Art.1, APPENDIX B. SURFACE WATERS AND DESIGNATED USES, and have found all surface waters, or tributaries to listed surface waters, and mapped these features. This data has been compared to existing USGS data, and some surface waters and tributaries locations have been field verified.

All waters that receive stormwater discharges from designed structures have been verified.

Question: Has an Illicit Discharge Detection and Elimination (IDDE) enforcement authority or other regulatory mechanism been established?

Answer: Yes

Name	Title/Code/Citation	Effective Date	Inactive Date
City Code chapters 9, 10, 16, 19, and 20	City Code §1921D, §205C, §1653 - 4, §9111K, §9111L, §926A, §943B.1, §943B.9, §943B.10, §1035, §1038	09/30/2016	

Question: Has a Construction Site Stormwater Runoff enforcement authority or other regulatory mechanism been established?

Answer: Yes

Name	Title/Code/Citation	Effective Date	Inactive Date
City Code chapters 19, 20, and 23	§1921D, §205C, §2321, and the Stormwater Drainage System Design Manual 500 (DM500)	09/30/2016	

Question: Has a Post-Construction Stormwater Management enforcement authority or other regulatory mechanism been established?

Answer: Yes

Name	Title/Code/Citation	Effective Date	Inactive Date
City Code chapters 19, 20, and 23	§1921D., §205C, §2321, and the Stormwater Drainage System Design Manual 500 (DM500)	09/30/2016	

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Question: For each BMP in the Minimum Control Measure 1: Public Education and Outreach, what was completed during this reporting period?

Answer:

BMP Name: General Educational Activity and Materials

Category: Social Media, Internet, Newspaper, Billing Inserts, Kiosks, other

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

General stormwater pollution prevention education and outreach. General topics shall include the definition of the MS4, the impacts of stormwater pollution on our environment and what the general public may do to prevent pollution. Activities may include email blasts, media postings (internet and local newspaper), billing inserts, public kiosks, and other venues as found and determined effective, as well as STORM, the Stormwater Outreach of Regional Municipalities.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Targeted Audience: all **Frequency:** 1 Daily

Milestone Description:

Type of outreach method used and the number of people reached.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2016

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

During this reporting year, educational information has been provided through public events with the assistance of the Buckeye Youth Council and other volunteers. All activities performed have been related to education on pollution prevention, with the focus that solid waste is properly contained so that waste does not contact stormwater or enter the storm system. The total people directly contacted regarding solid waste containment and its relation to pollution prevention through these events have been 2,100. The frequency of this activity is annually, or at least 1 day of activity per year. There have been many activities performed throughout the year.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue current program.

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BMP Name: Targeted Outreach

Category: Planned and Targeted Outreach

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Use discovered pollution sources through implementation of MCM3 and demographics to choose and perform outreach activities.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 01/01/2018

Targeted End Date: 09/29/2021

Targeted Audience: all **Frequency:** 1 Annually

Milestone Description:

Number of targeted audiences addressed, the number of people reached. Additional goals may include a measure of change of volume of pollution over time as pollution areas and sources become known and measurable.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 01/02/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

The following steps have occurred: define the audience, determine targets within the audience, define metrics of effectiveness (population reached).

Based on the demographic information, the city has found four "4" target audiences that needed to be reached including: school age 20%, young adult 25%, adult 25%, and elderly adult 20% (the remaining 10% are younger than school-aged). Additionally, there is a 70/30 split between owners and renters of homes, and 40% of the population identify themselves as Hispanic. The city was able to provide targeted pollution prevention education to these audiences during this reporting period.

The topic of discussion has been proper disposal of solid waste, as this remains the most significant source of pollution in our community as seen in results for minimum control measure 3.

Target group 1: School age - Two events attended by 729 children

Target group 2: Young adult - Five events geared to older children reaching 735 teens

Target group 3: Adult homeowners - Monthly email. Typically for the demographic of ages 20 - 55, the monthly email reaches 8,000 residents.

Target group 4: Elderly - one class for elderly citizens, focusing on the definition of pollution and how to properly store trash and recycling. 80 elderly citizens attended this event.

Provide a summary of activities planned for next reporting period

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BMP does not apply for next reporting period:

No

Milestone Description:

Continue with program.

BMP Name: Special Event(s)

Category: Special Event

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Public Works Week outreach event and other community outreach events throughout the year.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Targeted Audience: school-aged **Frequency:** 1 Annually

Milestone Description:

The City will continue to provide at least one outreach event each year. The City currently performs a Public Works Week outreach event to a targeted audience (primarily school-aged children, grades K-8) that includes a stormwater pollution prevention message. Additional outreach events shall be performed as they become available, such as special speaking events with the Chamber of Commerce. Measurable goals will include the number of events or outreach activities held, the number of people directly spoken to, and types of outreach materials provided.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2016

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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Metrics for BMP effectiveness: Staff continue to attend special events to ensure large portions of the population physically see the City information at events. Engaging individuals in pollution prevention communication is an effective way of getting residents to think about reducing pollution from the urban areas into the environment. BMP effectiveness is determined by the number of people that attend an event, the number of people directly spoken to, and the amount of resources put into each activity. This reporting year, the city performed 19 events, directly spoke to 4,154 citizens, and distributed over 10,000 promotional and literature items. Promotional items had messages to "shut the lid" on solid waste carts, to "bag and tie" trash, and to "help keep Buckeye clean."

List of events:

- GAIN (Getting Arizona Neighborhoods Involved)
- Project WET Water Festival
- Holiday Boutique
- Household Hazardous Waste Education and Collection event
- Copper State/Buckeye Air Fair (Youth Day)
- Copper State/Buckeye Air Fair
- Buckeye High School Transition Fair
- PW Week @ Odyssey High School
- Draw a Better Buckeye contest and awards event
- Public Health Awareness
- Earth Day @ Library (day 1)
- Earth Day @ Library (day 2)
- Construction Workshop (STORM) - 2 events
- Earth Day Downtown clean-up
- Block Watch
- Sun City Festival - Ladies meeting
- Rotary Club - BYC - Pollution Prevention
- Chamber of Commerce - BYC - Pollution Prevention
- Boy Scout Public Health merit badge course

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue to seek out special event opportunities throughout the community which can target all age groups.

Using volunteers to help spread the word.

BMP Name: Annual Evaluation

Category: Press Release

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

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Modification of ineffective messages and techniques.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 07/01/2017

Targeted End Date: 09/29/2021

Targeted Audience: all **Frequency:** 1 Annually

Milestone Description:

An annual review of the outreach programs will be performed to determine the effectiveness of the activities using an efficiency matrix of the resources expended compared to the number of people reached. Measurable goal shall be annual results of the efficiency matrix and evaluation and adjusting of the program based on the results.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2017

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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An evaluation was conducted. Determination of the various outreach activities vs the number of people reached was conducted. FY19 saw an increased amount of outreach activities to meet the demands of our growing population.

Below is a breakdown events and classes in the rank order based on the efficiency of the action. Efficiency was determined by the number of people reached compared to the number of staff hours taken (resources used). Additionally, this ranking included a value for aligning to the Departmental Mission of 'supporting the city.... in an efficient and responsive manner while being good stewards of City Resources:'

RankActivity

- 1Copper State/Buckeye Air Fair-Saturday
- 2Copper State/Buckeye Air Fair-School day
- 3Buckeye High School Transition Fair
- 4Holiday Boutique
- 5GAIN (Getting AZ Neighborhoods Involved)
- 6PW Week @ Odyssey High School
- 7Project WET Water Festival
- 8HHW Collection
- 9Construction Workshop (STORM) - totals cover 2 events
- 10Draw a Better Buckeye
- 11Earth Day @ Library (day 1)
- 12Earth Day @ Library (day 2)
- 13Sun City Festival
- 14Earth Day downtown clean-up
- 15Block Watch
- 16Project WET- Teacher Training
- 17Chamber of Commerce - Pollution Prevention
- 18Rotary Club - Pollution Prevention
- 19Public Health Awareness

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue to seek out as many varied outreach opportunities as possible. Collect data on the actions and activities of each event and rank these events to determine future activity goals.

Question: Minimum Control Measure 1: Public Education and Outreach, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure1.

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According to the approved NOI, the city must determine the population demographics to gain an understanding of the citizenship that is to be educated and to answer the following question, "Who is our audience?", and then work to perform efficient methods to provide education to that audience.

The City has achieved these goals.

The city has listed identified and listed the target audiences. The city has funded and staffed the program to achieve the permitted goals. The city has established a dedicated funding source and has maintained an Environmental Compliance Officer (Stormwater) on staff to assist with implementation and execution of the city's stormwater program, including outreach.

The City has evaluated outreach efforts and analyzed these efforts so that it may support the most effective outreach methods.

The City has successfully achieved this goal.

Question: For each BMP in the Minimum Control Measure 2: Public Involvement and Participation, what was completed during this reporting period?

Answer:

BMP Name: Public Participation Through Volunteerism

Category: Public Involvement

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Volunteer events and activities shall be performed annually including bulk trash, improper disposal, clean-up activities, outreach events, speaking engagements, Adopt-A-Road, and Household Hazardous Waste drop off.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

The Department shall hold and invite the public to assist in cleaning up improper disposal areas throughout the City including, but not limited to, individual clean-up activities and Adopt-A-Road. Measurable goals shall be to offer these services and record the amount of material collected, the number of volunteers involved, and other measurable information as it becomes available.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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Continued community clean-up events, Adopt-A-Road events, and plan future cleanup program(s). The city promotes the communities' ability to participate in these cleanup events on the website.

14 Adopt A Road events, 90 bags of trash collected with 139 attendees.

Other innovative cleanup programs are being scheduled for council review in FY20. Two neighborhood cleanups occurred with more than 30 total volunteers.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with community involvement including Adopt-A-Road, and continue to plan innovative cleanup events.

BMP Name: Public Reporting

Category: Public Participation

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Provide methods for the public to comment on all aspects of the Stormwater Management Program.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 10/31/2017

Targeted End Date: 06/30/2021

Frequency: 1 Annually

Milestone Description:

Annually record the number and type of communication methods for the public to provide communication to the City. Annually record the number of comments received.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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Reporting has been received using the following methods:

a website fillable form, direct emails, phone calls to city offices, website pages related to the stormwater program, pollution prevention, and citizen engagement in addition to many other links for further information.

Decentralizing the locations of this contact information is necessary due to the variety of communication needs presented by the diverse population. All of the stormwater management activity is available to the public for review, and citizens are monthly reminded to go to the website that contains this information. During this reporting year, eight "8"direct emails were received using the online fillable form regarding complaints about pollution. Zero "0"emails, notices, or comments were completed regarding SWMP implementation. This shows that citizens do not care about implementation, they care about results.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue program as is and add to options as they become available.

BMP Name: Public Availability

Category: Public Participation

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Make the Stormwater Management Program, Permit, Annual Reports, and other documentation related to permit operation and compliance available to the public. Keep the information up to date. Submit a news report or notice to the public of the availability of the documentation.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 06/30/2021

Frequency: 1 Annually

Milestone Description:

Record the locations of the information and the type of information available. Record the date and type of notice provided to the public.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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Continually maintain updated documents and make them available to the public for review and comment via website, email, and newsletter distribution. Inform the public via subscribed email annually of the opportunity to review and comment on permit operation and compliance. The public was given notice in the constant contact emails of the location of the SWMP and related documents. Although citizens are directed to the website for all pollution related concerns, and that the stormwater information is a part of the general trash service information for customers on this website, zero "0"citizens have been interested or commented on the administration of the stormwater program.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Because this is a federal requirement, this activity will continue, including: maintaining updated documents, making them available to the public for review and comment by email and newsletter, and informing the public annually of the opportunity to review and comment on permit operation and compliance. That being said, citizens have shown that they are not interested in the administration of the stormwater program, but instead are interested in disposal of solid waste. Because improper trash storage and illegal dumping are continuous problems due to city growth, the city has been focusing efforts on solid waste disposal education to keep the right of way and storm system clean, and will continue to direct resources towards this activity in the next reporting period.

Question: For Minimum Control Measure 2: Public Involvement and Participation, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure2.

The City has committed to provide events for public participation and methods for the public to report illicit discharges and improper disposal (IDID). The Public Works Department hosts and invites citizens to assist in events such as clean-up of illegal dumping, individual and neighborhood clean-up events/activities, and the City's Adopt-A-Road program. The Public Works Department hosts a phone line and a website to report pollution concerns. The City Manager's office hosts phone lines and a web application to receive citizens' concerns and forwards them to appropriate response staff. The City has expanded its presence on social media (e.g., Facebook, Twitter, Next Door) and continues to interact with citizens of varying demographics through these outlets promoting pollution prevention ideas and providing resources to report illegal dumping. In FY19, the City hosted its second annual "Draw a Better Buckeye"artwork contest targeting students in grades 3 through 12 and other interested citizens. The City hosted another household hazardous waste collection event (in addition to scheduled drop-offs at the Public Works yard). The City provides significant opportunities for the community to recognize and report concerns and complaints as well as participate and become involved in community improvement and awareness regarding pollution prevention. These events help remove the potential of pollution from entering the City's rights-of-way.

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Question: For each BMP in the Minimum Control Measure 3: Illicit Discharge Detection and Elimination Program, what was completed during this reporting period?

Answer:

BMP Name: MS4 Mapping

Category: Mapping

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

MS4 mapping

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 01/01/2017

Targeted End Date: 06/30/2020

Frequency: 25 Percent per year

Milestone Description:

Information is to be entered into GIS or other usable mapping format. Measurable goal shall be 25% of the urbanized, developed areas to be mapped each year.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Public Works Environmental Compliance Officer, Amy Murray, has mapped the storm system in 99% of developed, urbanized area. All of the data is available to the public as it is entered into the City's GIS program, at:

<https://buckyearizona.maps.arcgis.com/apps/opsdashboard/index.html#/d0965135ce7c4f98916d4bc9da8841f9>

An MS4 (a city owned storm system that ultimately discharges to a listed surface water) has been discovered within the historic downtown area of Buckeye. It is approximately one square mile. A map of the area is available at:

<https://www.buckeyeaz.gov/home/showdocument?id=7395>

The full mapping of the urbanized area will be completed ontime, per the time allowed by permit, the end of fiscal year 4 of the permit, June 2020.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

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Milestone Description:

Continue mapping of City's stormwater infrastructure.

BMP Name: Analytical Monitoring

Category: Analytical Monitoring

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Maintain a method to perform analytical monitoring for discharges to impaired, non-attaining, or Outstanding Arizona Waters, and per ADEQ notification to ensure protection of receiving water quality or permit compliance is occurring.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 06/30/2021

Frequency: 4 Annually

Milestone Description:

As required, if the city discharges to an impaired water, non-attaining water, Outstanding Arizona Water, or if written notification from ADEQ as prescribed in the permit is received, analytical monitoring will occur twice during each wet season (Summer Wet Season: June 1 through October 31, Winter Wet Season: November 1 through May 31) , or on another schedule as determined appropriate as dictated by an approved Total Maximum Daily Load.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Public Works is able to perform analytical monitoring for discharges to impaired, non-attaining, or Outstanding Arizona Waters, and per ADEQ notification to ensure protection of receiving water quality or permit compliance is occurring. That being said, the city has no discharges to waters with these criteria. State-wide contracts are in place should the City find need to accomplish this goal. No analytical monitoring was performed in FY19 as no discharges to the MS4 were found that flowed to impaired, non-attaining, or Outstanding Arizona Waters, or by ADEQ notification.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue program. When analytical monitoring is needed, engage with necessary contracts.

BMP Name: Written IDDE Procedures, Activities, and Analysis

Category: Written IDDE Procedures

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Written description of MS4 mapping, outfall inventory, IDDE program (PIP), training, dry weather screening, and analytical monitoring. Activities shall be analyzed annually.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 06/01/2017

Targeted End Date: 09/30/2018

Frequency: 1 Annually

Milestone Description:

Have all six procedures written by the end of permit year 1, FY17. To have an Enforcement Response Plan (ERP) completed by September 2018, and perform an annual analysis of the program activities.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Written procedures were completed FY18. Activities recorded include:

Quarterly bulk trash placement inspections on all residential properties.

Commercial, industrial, and municipal property inspections using the Hot Spot Inspection (HSI) form (adapted from the EPA).

An Enforcement Response Plan (ERP) has been written including educational notices, Notice of Opportunity to Correct, and Notice of Violation. The plan includes an opportunity to meet with City staff, citation to court, and fine issuance (per City Code).

Dry Weather and Wet Weather (auto-visual) monitoring.

The written procedures were followed, and proven effective given multiple emergency response activities that were responded to during this reporting year, although non were within our MS4. The wet weather monitoring using the auto-visual monitoring program allowed us to photograph stormwater discharges and see other sanitation concerns in a highly efficient manner. Wet weather monitoring has proven ineffective as all storm systems are frequently washed out by residential or farm irrigation tail-water. All flows through our systems were found to be rainwater or irrigation tail-water.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

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Continue with program as written.

BMP Name: Outfall Inventory

Category: Outfall Inventory

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Record outfall structures to all Waters of the United States (WOTUS).

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 01/01/2017

Targeted End Date: 06/30/2020

Frequency: 25 Percent per year

Milestone Description:

This coincides with the City's mapping program. Map all outfalls from the MS4 to all WOTUS (as determined by ADEQ and Federal Law and as listed in AAC R18-11 and USGS).

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

To date, 99% of the storm system of the urbanized, developed area has been mapped. One outfall was discovered in the historic downtown Buckeye area. This subwatershed is approximately one square mile in area, and discharges at 7th St and Beloat Rd, to an irrigation ditch. The irrigation ditch eventually flows to the Arlington Canal. All of the stormwater structures through this subwatershed is mixed with irrigation systems and frequently (daily) has irrigation tailwater flow.

link to our full stormwater system

<https://buckyearizona.maps.arcgis.com/apps/opsdashboard/index.html#/d0965135ce7c4f98916d4bc9da8841f9>

link to the pdf of our MS4

<https://www.buckeyeaz.gov/home/showdocument?id=7395>

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

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Continue mapping urbanized area to locate possible outfalls.

BMP Name: Training

Category: Staff Training

Personnel Position/Department: Human Resources

BMP Description :

Use existing web training modules to provide and record training to all employees.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 04/01/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

Number of staff that have taken the annual web training vs. number of staff that work in the ROW or facilities including Public Works, Water Resources, and Community Services Department staff.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

The City's Human Resources and Risk Management Departments provides stormwater training to City staff on an annual and as-needed basis (number of staff trained may be seen under the IDDE Awareness and Response chart listed in this report).

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with existing program.

BMP Name: Follow-Up Screening

Category: Follow-Up Screening

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

All illicit discharges will be immediately stopped. and screening information will be collected.

Is another government entity responsible for this BMP ? No

Measurable Goals:

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Start Date: 01/01/2017
Targeted End Date: 09/29/2021
Frequency: 1 One time event

Milestone Description:

Number of illicit discharges stopped, number of follow-up inspections performed for each illicit discharge found. Illicit discharge findings reported into DMR including outfall/field screening point identification, personnel, time, date, weather conditions at time of inspection, estimated flowrate, apparent odor, color, clarity, debris, floatables, and other information pertinent to the discharge.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Any reported or discovered illicit discharge complaints were investigated and stopped. Illicit discharge complaints received by citizens or reported by City staff were inspected and eliminated before having an opportunity to enter the stormwater system.

There were 82 illicit discharge/illegal dumping complaints received and responded to, and additional emergency response activities. No illegal dumping or emergency response activity resulted in a discharge entering our storm system or discharging from the MS4 during this reporting year.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue receipt of citizen complaints and proactive City staff inspections.

BMP Name: Visual Stormwater Discharge Monitoring

Category: Wet Weather Monitoring

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Perform Visual Stormwater Discharge Monitoring using an Auto Visual Monitoring method as recommended by ADEQ during the permitting process.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 01/01/2017
Targeted End Date: 09/29/2021
Frequency: 4 Annually

Milestone Description:

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Install camera at outfalls. Four times per year, two rain events in the dry season and two in the wet season, capture auto visual photographs of the storm discharge (Summer Wet Season: June 1 through October 31, Winter Wet Season: November 1 through May 31).

If more than five outfalls exist, five representative outfalls shall be chosen.

Additional screening points, per permit section 6.4.3.8.b where stormwater leaves the permitted area or where stormwater discharges to another MS4 or other conveyance, have not been found in our MS4. If such an area is found, this point will be added as a field screening point. The area we claim as an outfall is a discharge to a private irrigation system. This system eventually discharges to the Arlington Canal at or about 33.349498, -112.591140.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

The City's Proactive Inspection Program (PIP) includes storm system inspections for signs of illicit discharges and inspections using the EPA's Hot Spot Inspection (HSI) form. The City has also participated in the Apollo camera monitoring activity. During FY18, the City of Buckeye's Public Works Department volunteered to participate in an auto-visual outfall monitoring pilot program in collaboration with ADEQ. The City continued this program into FY19.

The wet weather monitoring using the auto-visual monitoring method allowed the city to photograph stormwater discharges as well as record sanitation concerns in a highly efficient manner. Wet weather monitoring has proven an ineffective monitoring source as all storm systems are frequently washed out by residential or farm irrigation tail-water. The majority of water flow through our systems were found to be irrigation tail-water, and rainwater flow has proven to be an insignificant comparative volume. All discharges were found to have foam or suds. Comparisons to flows not associated with developed areas found similar results of foam and suds. The discharge point is monitored at least twice during rain events during both seasons.

Most rain events are observed, with auto-visual monitoring. Few rain events resulted in discharge flows. The auto-visual monitoring has had significant success during this reporting year with the placement of multiple cameras allowing for successful flow observation at low cost.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue visual monitoring program, making enhancements to the visual assessment program as needed.

BMP Name: Implement IDDE Program

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Category: Implement IDDE Program

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Proactive inspection program to prohibit illicit discharges and improper disposal to the MS4. This activity shall include: maintain regulatory authority, create and maintain a written enforcement procedure, perform inspections of businesses and residential areas. Maintain a list of all commercial and industrial facilities that discharge to the MS4, respond to and eliminate complaints and findings of illicit discharges and improper disposal as they are found.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 01/01/2017

Targeted End Date: 06/30/2020

Frequency: 25 Percent per year

Milestone Description:

Results of the stormwater system inspections, findings of inspections performed, and actions and timeframes to remove illicit discharges and improper disposal.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Public Works Environmental Services Division (PWESD), has maintained regulatory authority and written enforcement procedures. The division quarterly inspects bulk trash placement of every residential property (26,000 properties, inspected twice each quarter for bulk trash placement). Additionally, staff frequently inspects trash and recycle can placement for sanitation and safety (10% of all trash carts and recycle carts inspected annually), and inspects a percentage of businesses for proper waste containment and flow (all 70 businesses in or near our MS4 were inspected). PWESD responds to complaints of illegal dumping within one business week (or sooner based on severity). All inspections include a review for potential illicit discharges and improper disposal to the City's right-of-way. Staff are available on-call for emergency response, and clean-up is performed through a prioritization method depending on sanitary harm to the community and environmental impact. If any pollutants found are, they are not allowed to reach, or are immediately removed from the stormwater conveyance system - no discharges reached our MS4 in this reporting year. There were more than 230 Notices of Opportunity to Correct were issued to residents regarding solid waste storage during this reporting year, as most pollution observed has been related to improperly contained trash. Nearly 100 illegal dumping activities responded to; however, in the MS4 area, only 4 violation notices were issued.

Provide a summary of activities planned for next reporting period

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BMP does not apply for next reporting period:

No

Milestone Description:

Continue proactive inspections, audits, clean-up and enforcement as needed.

BMP Name: Visual Dry Weather Outfall Monitoring

Category: Dry Weather Screening

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Perform a visual dry weather outfall/field screening points, monitoring event at each outfall/point at least once per year.

Is another government entity responsible for this BMP ?

No

Measurable Goals:

Start Date: 01/01/2017

Targeted End Date: 06/30/2021

Frequency: 1 Annually

Milestone Description:

Record dry weather monitoring data for all outfalls/screening points once per year, including the number of outfalls/screening points and findings of monitoring efforts.

The City has one outfall, additional screening points, per permit section 6.4.3.8.b where stormwater leaves the permitted area or where stormwater discharges to another MS4 or other conveyance, have not been found in our MS4. If such an area is found, this point will be added as a field screening point.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

The City is mapping stormwater structures and inspecting the storm system as mapping occurs. The City continues to use an auto-visual monitoring method at our discharge point to allow for efficient monitoring during the two seasons. The City has one "outfall,"(by definition, a field screening point that flows to a surface water as defined by AAC 18 through another conveyance). There are no other outfalls or field screening points in the storm system owned by the City. All dry weather inspections have resulted in discharges being observed. All discharges have been traced to irrigation tailwater.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period:

No

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Milestone Description:

Continue with existing program.

Question: For Minimum Control Measure 3: Illicit Discharge Detection and Elimination Program, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure3.

The City has committed to multiple BMPs to ensure appropriate coverage, authority, and ability to implement IDDE programs.

Mapping: these activities include identification and documentation of the stormwater infrastructure, locating the MS4 within the developed areas to accurately pinpoint discharge points into Waters of the US (WOTUS). The City uses a Geographic Information System (GIS) database and will continue its mapping program until the project is complete. This mapping is fully accessible to the public on the internet, and includes all related infrastructure, from the street and curb to the discharge point.

Monitoring outfalls: The City has mapped the required portion of the urbanized, developed area and has discovered one outfall (Field Screening Point, AZG2016-002, Section 10.0-16.) which drains to an agricultural tailwater ditch. This agricultural tailwater ditch then drains to the Arlington Canal (see Appendix B of Chapter 18 of the Arizona Administrative Code). The City partnered with ADEQ on a pilot-program, outlined in the FY18 annual report ("Apollo"), and continues to provide resources for this activity. Dry weather screening and wet weather monitoring of the mapped areas and identified discharge points were performed during this reporting year.

Illegal Discharge Detection and Elimination support activities: The City performs a number of activities to stop pollution commonly generated in our community from entering the storm system. This includes the ability for residents to issue reports of illegal dumping, significant staff inspections (tens of thousands) of both residential and commercial properties, emergency response ability and activities, complaint response activities, and training for all field staff to recognize and report pollution.

Enforcement: The City has a robust enforcement procedure to stop pollution, and this method is supported by management.

Question: Were staff trained in IDDE Awareness and Response?

Answer:

Yes

Sr.No.	Date of Training Event	Training Subject	Number of Employees Trained	Frequency of Training
1	05/17/2019	Stormwater Management	111	Annually
2	02/28/2019	Fueling and Spill response	369	One time event

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Question: Minimum Control Measure 1: Illicit Discharge Detection and Elimination Program, Provide the details of the Illicit Discharge Detection and Elimination (IDDE) incidents that occurred during this reporting period.

Answer:

Number of IDDE incidents reported in this reporting period: 87

Number of IDDE incidents responded to in this reporting period: 87

Sr.No.	Enforcement Actions	Enforcements Issued	Enforcements Resolved	Enforcements Unresolved
1	NOV	1	1	0
2	NOC	3	3	0
3	Stop Work	0	0	0
4	Admin Order	0	0	0
5	Admin Fines	0	0	0
6	Civil Penalties	0	0	0
7	Criminal Action	0	0	0
	Total	4	4	0

Question: Were there any unpermitted discharges to the MS4?

Answer: No

Question: Were any samples collected to characterize illicit discharge(s) in this reporting period?

Answer: No

Number of Illicit Discharges Sampled are: None existed during this permit cycle.

Question: For each BMP in the Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, what was completed during this reporting period?

Answer:

BMP Name: Inventory

Category: Inventory

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement

BMP Description :

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Maintain a list of all land disturbances underway in the city that discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 100 Annually

Milestone Description:

Number of sites under development/disturbed soil for land disturbance that is an acre or larger, or part of a common plan of development that is one acre or larger that discharge to the MS4.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

An inventory of all sites is maintained by the departments responsible for issuing the development permits. No soil disturbance that was an acre or larger or part of a common plan of development or sale that was an acre or larger occurred within the MS4.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue documentation of construction inventory.

BMP Name: Staff Training

Category: Training

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

All staff associated with waste, erosion, and sediment control plan review, inspections, and enforcement to the MS4 shall receive training on these subjects, and city policy and processes.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 06/30/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

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Total number of staff associated with construction in the Ms4, and perform plan review, inspections, and enforcement vs. the number of staff trained.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Onsite plan review and inspection requirements training occur with management staff.

Staff responsible for construction compliance within the MS4 were certified by the American Public Works Association (APWA) as Stormwater Managers, or maintained their certification during this reporting year, and have had multiple years of erosion control experience.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue annual stormwater training program.

BMP Name: Public Involvement

Category: Education/Public Involvement

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Maintain a method for residents to issue complaints about encroachment of pollutants to the Right of Way from construction sites.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 1 Daily

Milestone Description:

Number of complaints received regarding discharges from construction sites to the MS4.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

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The public has multiple methods of reporting concerns regarding construction activity. There is an online form, there are phone numbers advertised for all city offices, City Manager, and elected officials, and also published emails for staff and programs.

It has been our experience that providing a variety of contact methods allows for effective communication for a diverse population instead of providing only one reporting method.

Zero "0" discharge complaints have been received regarding construction sites.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue making available opportunities for the public to comment on construction activities.

BMP Name: Waste, Erosion, and Sediment BMPs

Category: Control Wastes

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement

BMP Description :

Require construction site operators to maintain an elevated level of waste, erosion, sediment controls on their construction sites if they discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 100 Percent per year

Milestone Description:

Code authority to require waste, erosion, and sediment control on land disturbance sites.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

All construction sites are made aware of the City MS4, and all are made aware of the waste, erosion, and sediment controls BMPs approved by the city and are encouraged to use these to protect the right of way from encroachment through the plan review process. All sites that disturb soil within the MS4 must complete Waste, Erosion, and Sediment Control documentation.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

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Milestone Description:

Continue with implement of City's WES Control plan and applicable City Codes.

BMP Name: Waste, Erosion, Sediment BMP Controls

Category: Erosion/ Sediment Control

Personnel Position/Department: City Engineer/Development Services Department/Construction and Procurement

BMP Description :

Require construction site operators to maintain an elevated level of waste, erosion, sediment controls on their construction sites if they discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 100 Percent per year

Milestone Description:

Code authority to require erosion, sedimentation, and waste control on land disturbance sites.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Authority over any potential discharge to the MS4 from construction is given to the City Engineer and Public Works and is addressed in City Code sections 19-2-1-D and 20-5-C, the City's engineering standards in 23-2-1 and in the Stormwater Drainage System Design Manual 500 (DM500) which contains drainage and design standards adopted by City Council in 2007. Additionally, all contractors submitting plans are required to include the Stormwater Pollution Prevention Plan (SWPPP) required by the AZPDES Construction General Permit (CGP) so that the Waste, Erosion, and Sediment controls may be reviewed. A permit is not issued specifically for this work but the plans are reviewed to ensure that BMPs are planned for the site. This terminology and information is being updated to be referred to as the WES Control Plan.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with implementation of WES Control and City Codes.

BMP Name: Enforcement

Category: Enforcement

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

Maintain a method of increasing enforcement on land development that refuses to follow erosion, sedimentation, and waste controls per development plan and inspection requirements.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 03/31/2018

Targeted End Date: 09/29/2021

Frequency: 100 Annually

Milestone Description:

Number of inspections, scheduled re-inspections, and follow-up compliance inspections performed, number of Notices of Violations (NOVs) issued, stop work orders issued, or other enforcement actions performed to stop encroachment of pollutants into the MS4.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

This activity is performed by PWESD in coordination with the Engineering and Development Services Departments. Inspectors perform and record inspections, noting problems found. Violations are turned over to PWESD to begin IDDE enforcement activities. Currently, the PWESD had the authority to issue violations if the construction debris encroaches the City's right-of-way. The Engineering and Development Services Departments also have the authority to shut down a site as an enforcement measure, as needed.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with current enforcement authority.

BMP Name: Site Plan Review

Category: Site Plan Review

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

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BMP Description :

Perform plan review for waste, erosion, and sediment control for all sites that are an acre or larger or part of a common plan of development that is an acre or larger that discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 03/31/2018

Targeted End Date: 09/29/2021

Frequency: 100 Annually

Milestone Description:

Number of applications for construction sites that discharge to the MS4.

Number of plan reviews for construction sites that discharge to the MS4.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Plans have been submitted and reviewed for necessity to have WES Control. Plans not including Stormwater Pollution Prevention Plans or other forms of erosion control BMPs are required to provide them before they may be moved forward through the development review process. All plans submitted that disturb soil within the MS4 are required to implement approved BMPs from the WES Control manual.

The City has recorded zero "0" site plan reviews as no construction has occurred within the MS4 area.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with WES control plans, SWPPP requirements, and enforcement.

BMP Name: Inspection Process

Category: Inspections

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

Perform construction site inspections ensuring waste, erosion, sediment controls on land development sites that discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

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Start Date: 03/31/2018
Targeted End Date: 09/29/2021
Frequency: 100 Annually

Milestone Description:

Written procedures for site inspections and enforcement for land disturbance that is an acre or larger, or part of a common plan of development that is one acre or larger that discharge to the MS4.
Number of inspections performed for construction sites that discharge to the MS4.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Engineering and Development Services divisions are responsible for construction site inspections; Public Works is responsible for follow-up inspections for reported failures. WES Control BMPs are required as a part of the plans for development within the MS4. As BMPs are noted out of place they are pointed out and a correction is requested. These requests are logged into the daily notes for each inspection performed. Any discharge found to enter or have the potential to enter the City's MS4, or non-responsiveness to maintaining BMPs to protect any Right-of-Way is forwarded to Public Works for follow-up inspection. The City has recorded zero "0" inspections for construction sites to ensure protection of the MS4, and one inspection for follow-up of BMP failures and failure of the contractor to respond to Engineering inspector direction. No inspections or follow-up inspections occurred in the MS4 as there was no development in the MS4.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with WES control plans, SWPPP requirements, and enforcement.

BMP Name: Education

Category: Construction Operator Training

Personnel Position/Department: City Engineer/Development Services Department/Construction and Procurement

BMP Description :

Provide education to applicants and permittees on stormwater pollution prevention requirements for construction practices.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 04/30/2017
Targeted End Date: 09/29/2021
Frequency: 100 Percent per year

Milestone Description:

Number of applicants or potential applicants who have received educational information on construction stormwater Best Management Practices (BMPs), number of web pages with construction stormwater BMPs, and the number of training and special events participated in regarding protection of the MS4 from runoff from construction activity.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Starting in FY17, a standard comment has been issued regarding the need to copy the CGP to the City as we are now a permitted MS4. Additionally, the Engineering and Development Services Departments require all applicants to notify the City of their CGP permit and to submit SWPPPs required by ADEQ. All applicants are informed to maintain their waste, erosion, and sedimentation controls. Drafted in FY18 and finalized in FY19, all construction sites will implement the City's Waste, Erosion, and Sediment (WES) Control Plan, including updated construction BMP manual processes and procedures. No construction-related complaints were received from the public during this reporting year.

The City also actively participates in STORM educational outreach, and activities including multiple regional STORM Construction training events. Two training events were provided with 78 people in attendance.

All applicants are informed of the requirement to maintain BMPs if they discharge to the MS4.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue implement of City's WES plan.

Question: For Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure4.

The City continues to complete the BMPs listed in the approved NOI.

Public Involvement: The City has multiple methods for residents to issue complaints for construction impacting the MS4 including the online complaint form, phone lines, email, website, social media outlets, and more.

Education: The City works alongside citizens and contractors to provide training on the latest versions of codes/ordinances, written policies/procedures, reporting mechanisms, and worksite BMPs. During Pre-Application Conferences (PAC) and pre-construction meetings, the City works with developments to ensure City code is understood and properly followed before, during, and after construction.

Waste, Erosion, and Sediment (WES) Controls: Contractors are required to maintain BMPs from their SWPPP (referenced as WES controls) on their sites as required before plans may be reviewed by City staff. Construction sites are required to submit CGP required SWPPPs; although only WES control portions are reviewed. Contractors have been issuing SWPPPs, which the city takes in place of WES control plans. The City has altered its wording in FY18 to refer to this process as WES Control to ensure applicants are aware that the city's intent is to protect the right-of-way from the impacts of soil disturbance. The receipt of complete WES Control plans for development within the MS4 allow the construction plans to be reviewed and approved. Engineering infrastructure inspectors and Development Services' building inspectors ensure WES controls are installed and functioning as staff perform their daily inspections. Any sites requiring enforcement for WES Control failure are submitted to Public Works for follow-up. The City Engineering and Development Services maintains a list of land disturbances to ensure routine inspections are conducted.

The City has a thorough Plans Review process involving each department affected by construction/reconstruction activities. Review by several professional staff ensures the community is being provided the best development/redevelopment opportunity possible. Each department uses their expertise to ensure the developer is correctly abiding by City codes and ordinances.

City code allows for enforcement actions to be taken when issues arise from routine inspections, follow-up inspections, and complaints. The City has the authority to issue stop work orders, citations, and fines to stop encroachment of pollutants into the MS4.

Training: Management staff received training which included the requirements for plan review and inspections of WES controls. As a result, the construction BMP manual has been updated, and all field staff have received training to recognize pollution to the MS4. In FY19, the number of permits issued has been recorded as have inspections relating to development/redevelopment within the City. Staff responsible for implementation of WES Control inspections in the MS4 have become or maintained APWA Certified Stormwater Manager certification during this reporting year.

Question: Were any construction activity operator training events conducted?

Answer:

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Yes

Sr.No.	Date of Training Event	Training Subject	Number of Employees Trained	Frequency of Training
1	03/06/2019	Stormwater for Construction Operators	42	Two times per year
2	04/09/2019	Stormwater for Construction Operators	36	Two times per year

Question: Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, Provide the details of the construction activity complaints and inspections that were conducted during this reporting period.

Answer:

Number of active construction sites in this reporting period: 0

Has an inspection frequency been developed and implemented? YES

Number of active construction sites inspected at least weekly: 0

Number of active construction sites inspected at least monthly: 0

Number of active construction sites inspected at least one time every six months: 0

Number of active construction sites inspected at least annually: 0

Number of active construction sites not inspected: 0

Number of active construction sites that required re-inspections in this reporting period: 0

Number of construction activity complaints received in this reporting period: 0

Number of construction activity complaints that were resolved or responded to: 0

Sr.No.	Enforcement Actions	Enforcements Issued	Enforcements Resolved	Enforcements Unresolved
1	NOV	0	0	0
2	NOC	0	0	0
3	Stop Work	0	0	0
4	Admin Order	0	0	0

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5	Admin Fines	0	0	0
6	Civil Penalties	0	0	0
7	Criminal Action	0	0	0
	Total	0	0	0

Question: For each BMP in the Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, what was completed during this reporting period?

Answer:

BMP Name: Runoff Control Authority

Category: O&M Procedures

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

All new and re-development is required to follow existing development requirements. All new construction is to receive runoff from 1/2 of the ROW and hold the 100-year, 2-hour event. This rule is currently in place and active for all construction.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 100 Percent per year

Milestone Description:

Review the Stormwater Drainage System Design Manual, DM500-1.3 and updated as necessary.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Reviewed DM500 during permit period. No changes were made.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

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Continue with current program.

BMP Name: Post-Construction Inventory

Category: Inventory

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

An inventory of post-construction stormwater control measures that discharge to the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

Maintain an inventory of post-construction structural stormwater control measures that discharge to the MS4. Inventory post-construction controls in place that discharge to the MS4.

Were milestones/measurable goals achieved for this reporting period? No

ADEQ Directed No

Change:

Provide a description of the reason(s) why milestones were not met and include measures that will be implemented to get back on schedule.

No post-construction activities occurred within MS4 during this reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with current program.

BMP Name: Structural/Non-Structural BMP

Category: Structural/Non-Structural BMP

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement

BMP Description :

All new and re-development is required to follow existing development requirements including effective structural and non-structural design practices allowable by the City's design standards.

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Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 1 One time event

Milestone Description:

Review Stormwater Drainage System Manual, DM500-1.3 and update as necessary.

Were milestones/measurable goals achieved for this reporting period? No

ADEQ Directed No

Change:

Provide a description of the reason(s) why milestones were not met and include measures that will be implemented to get back on schedule.

No post-construction activities occurred within MS4 during this reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with current program.

BMP Name: Inspections

Category: Enforcement

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Perform inspections on post-construction stormwater structural controls that discharge into the MS4.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 06/30/2017

Targeted End Date: 09/29/2021

Frequency: 25 Percent per year

Milestone Description:

Inspect 25% of storm water structures that discharge to the MS4 each year. Record the number of structures and the number of inspections performed.

Were milestones/measurable goals achieved for this reporting period? No

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ADEQ Directed No

Change:

Provide a description of the reason(s) why milestones were not met and include measures that will be implemented to get back on schedule.

No post-construction activities occurred within MS4 during this reporting period as there are no stormwater structures discharging to the City MS4.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with current program.

BMP Name: Site Plan Reviews

Category: Site Plan Reviews

Personnel Position/Department: City Engineer/Development Services/Construction and Procurement/Public Works

BMP Description :

Implement and maintain a site plan review process.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2016

Targeted End Date: 09/29/2021

Frequency: 100 Percent per year

Milestone Description:

Maintaining a plan review process for all public and private construction occurring within the city and the number of applications received and reviewed.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

No post-construction activities occurred within MS4 during this reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with current program.

Question: For Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure5.

The city has very effective low impact development design rules. As a result, all new development does not discharge to public areas or to surface waters, but instead discharges to privately owned retention basins with dry wells. Additionally, the MS4 area has no private stormwater structures that discharge to it. For this reason, no post-construction inspection activities occurred within the MS4 during this reporting period.

Continue with current program.

Question: Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, Provide the details of the Post-Construction Stormwater controls used during this reporting period

Answer:

Number of sites that required Post-Construction Stormwater controls in this reporting period: 0

Number of Post-Construction Stormwater controls inspected in this reporting period: 0

Sr.No.	Enforcement Actions	Enforcements Issued	Enforcements Resolved	Enforcements Unresolved
1	NOV	0	0	0
2	NOC	0	0	0
3	Stop Work	0	0	0
4	Admin Order	0	0	0
5	Admin Fines	0	0	0
6	Civil Penalties	0	0	0
7	Criminal Action	0	0	0

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	Total	0	0	0
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Question: For each BMP in the Minimum Control Measure 6: Pollution Prevention and Good Housekeeping, what was completed during this reporting period?

Answer:

BMP Name: City Facility Prioritization

Category: Facility Prioritization

Facility Information:

Public Works Fleet Management and Water Resources Yard

Earl Edgar Maintenance Building

Public Works Yard

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Determine activities performed at each facility, the existence of potential pollutants at each facility, steps or BMPs necessary to maintain pollution prevention, and the discharge potential of each facility.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

Prioritize municipal facilities including the reason for the prioritization and the frequency of inspection.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

There are three facilities owned by the City that have the potential for significant stormwater pollution due to the existence of soil stockpiles and petroleum. Although these facilities are not within the city MS4, they do have significant potential to generate pollutants, and are inspected for good housekeeping. The only facility within the MS4 is City Hall. City Hall is inspected annually, and has been found to be a low priority regarding stormwater pollution, therefore it is not counted as a part of this BMP.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

BMP Name: City Facility Inventory

Category: Inventory

Facility Information:

Public Works Fleet Management and Water Resources Yard

Earl Edgar Maintenance Building

Public Works Yard

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Maintain a list of all facilities owned or operated by the City.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

An updated list of municipal facilities updated annually.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Inspect each facility quarterly. Correct any issues which require facility to come into compliance, when applicable. None of the facilitates that have the potential to produce pollution or require good house keeping exist in within the MS4.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

BMP Name: Staff Good Housekeeping Training

Category: Training

Facility Information:

Earl Edgar Maintenance Building

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Personnel Position/Department: Human Resources

BMP Description :

Staff training on stormwater pollution prevention and good housekeeping techniques.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

Number of staff trained on stormwater pollution prevention and good housekeeping annually.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

City staff were trained on stormwater program expectations and illicit discharge reporting requirements, and also trained on spill recognition, response, and reporting.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

BMP Name: City Facility Inspection

Category: Inspections

Facility Information:

Public Works Fleet Management and Water Resources Yard

Earl Edgar Maintenance Building

Public Works Yard

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

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Perform stormwater pollution prevention inspections of each facility owned or operated by the City, prioritized to prevent or reducing pollutant runoff from operations that discharge, to protect water quality of receiving waters.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 4 Quarterly

Milestone Description:

Perform quarterly inspections of all facilities that discharge. Prioritize and adjust to more frequent inspections based on the risk to discharge pollutants. Maintain and implement a site inspection schedule.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Inspect each facility quarterly for stormwater pollution prevention.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

BMP Name: City Facility BMP Update

Category: Maintenance Schedule

Facility Information:

Public Works Fleet Management and Water Resources Yard

Earl Edgar Maintenance Building

Public Works Yard

Personnel Position/Department: Environmental Manager/Public Works

BMP Description :

Perform inspections on high-priority facilities owned or operated by the municipality.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

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Targeted End Date: 06/30/2021

Frequency: 1 Annually

Milestone Description:

Perform inspections on all high-priority facilities owned by the city that discharge to the City MS4, and implement recommended BMPs to control pollution from municipal operations.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Each facility is inspected at least quarterly. Any pollution prevention problems observed are corrected. This reporting year no problems related to stormwater pollution prevention were observed.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

BMP Name: MS4 Operations and Activities

Category: Maintenance Activities

Facility Information:

Public Works Fleet Management and Water Resources Yard

Earl Edgar Maintenance Building

Public Works Yard

Personnel Position/Department: Streets Division/Public Works

BMP Description :

MS4 maintenance.

Is another government entity responsible for this BMP ? No

Measurable Goals:

Start Date: 09/30/2017

Targeted End Date: 09/29/2021

Frequency: 100 Percent per year

Milestone Description:

Number of stormwater structures inspected, the number maintained, and include but not limited to the number of miles of streets swept and the number of inlets inspected and cleaned.

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Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 07/01/2018

Date:

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

City facilities are inspected based on the pollutant materials stored on property including soil stockpiles and petroleum. These facilities are inspected frequently due to air quality requirements, and stormwater pollution prevention inspections are also performed, even though none of these high priority facilities are located within the MS4.

The milestone for this BMP was written considering the operations and activities involved with inspections and maintenance of the ROW.

There are 1302 lane miles in the city, and they are swept at least once every other week. The street sweeper staff are trained to recognize and respond to illegal dumping, as they observe every street curb and inlet. This reporting year at least two illegal dumping activities were caught by sweeper staff as well as multiple agricultural tail-water overflows onto city streets. There were zero "0" discharges to the MS4 during this fiscal year.

Additionally, right of way crews and environmental inspectors are trained to recognize illicit discharges as they work in the right of way. Also, the MS4 is inspected before each major storm event and at least once thoroughly before the monsoon season starts.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Continue with program.

Question: For Minimum Control Measure 6: Pollution Prevention and Good Housekeeping, Did the program implement any additional BMPs during this reporting period?

Answer:

Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure 6.

Reviewed processes, procedures, and documentation. Updated documents as needed to fine tune City's stormwater program. These facilities are inspected four times during this reporting year.

<https://www.buckeyeaz.gov/home/showdocument?id=7395>

Question: Was staff training conducted?

Answer:

Yes

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Sr.No.	Date of Training Event	Training Subject	Number of Employees Trained	Frequency of Training
1	05/07/2019	Employee Stormwater Training	111	Annually
2	02/01/2019	Fuel Pump and Spill training	369	One time event

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CERTIFICATION OF SUBMISSION

SCOTT WLOWE

You validated your identity by answering your personal security question and password on myDEQ at **03:59 PM** on **09/19/2019**. At this time, you certified the summary information above by checking that you agreed to the following statement:

Certify your submission:

By checking this box I certify under penalty of law that this submittal was prepared by me, or under my direction or supervision of personnel appropriately qualified to properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that all information submitted to ADEQ is public record unless otherwise identified by law as confidential. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

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Robert van den Akker

From: DoNotReply@azdeq.gov <DoNotReply@azdeq.gov>

Sent: Monday, September 23, 2019 7:52 AM

To: Scott Lowe <slowe@buckeyeaz.gov>

Cc: Scott Lowe <slowe@buckeyeaz.gov>; Robert van den Akker <rvandenakker@buckeyeaz.gov>; Michael DePaulo <mdepaulo@buckeyeaz.gov>; Robert van den Akker <rvandenakker@buckeyeaz.gov>

Subject: Review of MS4 AZPDES # AZSM65661 Annual report 01-Jul-2018-30-Jun-2019 - Complete

[NOTICE: This message originated outside of the City of Buckeye -- **DO NOT CLICK** on links or open attachments unless you are sure the content is safe.]



CITY OF BUCKEYE MS4

AZSM65661

MS4 ANNUAL REPORT REVIEW

Dear Customer,

The Arizona Department of Environmental Quality (ADEQ) has completed its review of your MS4 annual report and determined it satisfactorily complies with the permit requirements.

MS4 Name: **CITY OF BUCKEYE MS4**
AZPDES#: **AZSM65661**
Reporting Period: **01-Jul-2018-30-Jun-2019**
Submit Date: **09/23/2019**

Required Information

Permit Part 9.8, Duty to Provide Information, requires the City to supply any information which ADEQ may

request to determine compliance with the permit. The City must provide the following:

- No additional information is required at this time.

Thank you for your efforts to comply with Arizona's environmental requirements.

Thank you,

