Small MS4 Annual Report

ID #: AZSM65721

MS4 Name: ARIZONA STATE UNIVERSITY MAIN CAMPUS MS4

Reporting Period: 01-Jul-2019 - 30-Jun-2020
Annual Report Summary

Company Information

Name: ARIZONA STATE UNIVERSITY - MAIN CAMPUS
PO BOX 875512
TEMPE
AZ, 85287

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

Total Area Annexed into the MS4 Since the Last Annual Report: 5.56 acres

Were Best Management Practices (BMPs) fully implemented in the annexed area?
Yes

The University is installing an extensive underground stormwater retention system with new and modified drywells as part of the redevelopment of its Alameda property. These improvements will alleviate existing drainage concerns and ensure the proper management of onsite stormwater.

Question: Is stormwater sewer mapping 100 percent complete?
Answer: No

Percentage completed: 50

Provide estimated dates for the percent completion:
75% - 12/31/2020
100% - 06/30/2021

Provide the description of the measurable goal:
ASU is working with consultant services to complete an Infrastructure Utilities Master Plan. This engagement is utilizing new technologies to document, map and survey infrastructure systems, including stormwater, at the Tempe and Polytechnic campuses. The information will provide an updated GIS platform for ASU staff across multiple departments. Ground-truthing of lidar data is occurring this fall. Once complete, the information will be used to develop a model for the Tempe campus that can be used to predict flood potential in areas of the main campus.

Question: Is outfall mapping 100 percent complete?
Answer: Yes

Number of outfalls mapped: 5
**Provide the description of the measurable goal:**

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

**Answer:** Yes

**Provide the description of the measurable goal:**

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

**Answer:** Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
<th>Effective Date</th>
<th>Inactive Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona Revised Statutes, ASU Student Code of Conduct, and ASU Employee Policies and Procedures Manual</td>
<td>ASU Police, Dean of Students, ASU Administration</td>
<td>03/29/2017</td>
<td></td>
</tr>
</tbody>
</table>

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

**Answer:** Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
<th>Effective Date</th>
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</tr>
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<tbody>
<tr>
<td>Capital Programs Management Group/Construction Support Services</td>
<td>Erosion and Sediment Control/Grading Policy</td>
<td>03/29/2017</td>
<td></td>
</tr>
</tbody>
</table>

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

**Answer:** Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
<th>Effective Date</th>
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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?

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

www.azdeq.gov

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BMP Name: MCM 1 - Stormwater Webpage
Category: Webpage

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Maintain a Stormwater webpage with general stormwater awareness information and guidance: https://cfo.asu.edu/stormwater-program

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Targeted Audience: Students, faculty, Frequency: 1 Annually
staff and visitors

Milestone Description:
Report significant updates annually; track and report website visits annually

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

Actual BMP Start Date: 06/01/2005

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
There were 208 storm water website views during the reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report significant updates annually; track and report website visits annually

BMP Name: MCM 1 - Sustainability Webpage
Category: Webpage

Personnel Position/Department: ASU School of Sustainability

BMP Description:
Website of the School of Sustainability linking students to Pollution Prevention activities, clubs and resources on campus: https://sustainability.asu.edu/campus

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 07/01/2019
Targeted End Date: 09/29/2021
Targeted Audience: Students living on campus/University Housing

Milestone Description:
Track and report website visits annually

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
There were 6,724 Sustainability website views this reporting period.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Track and report website visits annually

BMP Name: MCM 1 - Parking Permit Holders
Category: Permit Agreement
Personnel Position/Department: Parking & Transit Services

BMP Description:
All campus parking permit holders review and accept stormwater IDDE requirements as part of their acceptance agreement for an annual campus parking permit.

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Targeted Audience: Campus parking permit holders

Milestone Description:
Track and report the number of campus parking permits issued

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

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(520)628-6733
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

Parking and Transit issued approximately 39,431 parking permits.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Track and report the number of campus parking permits issued

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

Answer: No

Provide a summary of compliance with the requirements for Minimum Control Measure 1.

ASU maintains websites for its stormwater and sustainability programs. These sites provide program information and encourage pollution prevention best practices. ASU's Global Institute of Sustainability and the Institute for the Future of Innovation in Society merged this past year to become the Global Institute of Sustainability and Innovation. This merger has energized expanded outreach initiatives including webinars offered regularly on a range of sustainability and pollution prevention topics including flood resilience and water quality preservation.

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

Answer:

BMP Name: MCM 2 - Pollution Prevention Activities

Category: Public Involvement

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Stormwater pollution prevention activities such as Zero Waste Ambassadors, Composting, Ditch the Dumpster, and Asurite hazardous waste disposal program.

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:
Report the amount of hazardous waste collected annually; report the total amount of landscape waste going to landfill; narrative account of other activities

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

**Actual BMP Start Date:** 03/01/2004

**Date:**

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

ASU's Environmental Health & Safety team shipped 148,362 pounds of chemical waste off-site for disposal. They sent 4,393 pounds of oil (5,857 gallons) for recycling. In addition, they sent 4,165 pounds of batteries for recycling. To reduce the volume of hazardous waste generated, EH&S is currently evaluating several laboratory waste streams to determine if any can be disposed of as non-regulated.

ASU's Zero Waste team collected and diverted more than 1041 tons of landscape waste from landfills on the three campuses:

a. Tempe: 440.11 tons or 880,220 pounds
b. Polytechnic: 342.41 tons or 684,820 pounds
c. West: 259.25 tons or 518,500 pounds

Zero Waste facilitated 18 different engagement opportunities with staff, students, and the public on Zero Waste practices including the Sustainable Sun Devil Program, the IMPACT Conference in February 2020, and the Culture Fest in August 2019. Zero Waste sponsored Athletics Green Games on 9/21, 10/4 and 2/28. ASU's overall diversion rate was 43%, which is 1% higher than the previous FY. This increase was achieved even with an increase in ASU's student population and disruptions from Covid-19.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

**Milestone Description:**

Report the amount of hazardous waste collected annually; report the total amount of landscape waste going to landfill; narrative account of other activities

---

**BMP Name:** MCM 2 - SWMP Public Inquiries
**Category:** Public Involvement
**Personnel Position/Department:** Capital Programs Management Group
**BMP Description:**

Respond to inquiries about the SWMP and stormwater pollution prevention

Is another government entity responsible for this BMP? No
Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of inquiries and the percentage responded to within 15 days

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

Actual BMP Start Date: 03/01/2004

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

Stormwater staff receive informal inquiries from program managers, Facilities Management staff, and partner departments such as Environmental Health and Safety regarding program requirements, materials and best practices for construction projects and related university initiatives. Inquiries were promptly responded to and any requested materials provided within 15 days.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of inquiries and the percentage responded to within 15 days

BMP Name: MCM 2 - Spill Reporting
Category: Public Participation
Personnel Position/Department: Environmental Health and Safety

BMP Description:
Spill reporting and response

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number and type of spills reported; report the percentage of reported spills mitigated within 15 days

Were milestones/measurable goals achieved for this reporting period? Yes
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

EH&S responded to three incidents involving oils or other petroleum based chemicals on the ground or pavement. None of the incidents required escalation. All incidents were responded to promptly; well within the 15 day metric.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number and type of spills reported; report the percentage of reported spills mitigated within 15 days

BMP Name: MCM 2 - SWMP Annual Updates
Category: Public Participation
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Solicit input on the SWMP annual revisions from students, faculty, staff and the public

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of ASU departments contacted and the number of comments received from the Stormwater website. Post the SWMP and Annual Reports online at https://cfo.asu.edu/stormwater-program.

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

Actual BMP Start Date: 09/30/2004

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

The SWMP and Annual Report are posted online. Comments were solicited during the training sessions with included personnel from the following seven departments and divisions; Capital Programs Management Group, Asset Management, Office of the University Architect, Grounds Services, Tempe Facilities Management, West Facilities Management, and Polytechnic Facilities Management.

Provide a summary of activities planned for next reporting period
**BMP does not apply for next reporting period:** No

**Milestone Description:**
Report the number of ASU departments contacted and the number of comments received from the Stormwater website. Post the SWMP and Annual Reports online at https://cfo.asu.edu/stormwater-program.

**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 Measure 2.**
Compliance was achieved for all BMPS in MCM2 this reporting period with significant outreach and participation by the ASU community.

ASU's overall diversion rate rose this reporting period. Overall organics waste diversion increased by 8.4% to 1,681.05 tons. More than 1000 tons of landscape waste was collected and diverted from landfills.

Environmental Health and Safety (EH&S) encouraged researchers to share chemicals rather than send them to waste and is actively evaluating opportunities to reclassify laboratory waste to reduce hazardous waste amounts as part of their Green Labs and Pollution Prevention programs.

**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:** Stormwater - Mapping

**Category:** Stormwater Sewer Mapping

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**
Field verify existing storm water sewer maps and update an electronic mapping system for the Main, West and Polytechnic campuses

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017

**Targeted End Date:** 09/29/2021

**Frequency:** 1 One time event

**Milestone Description:**
ASU field verification of existing storm water sewer maps and an update of the electronic mapping system is anticipated for completion by Summer 2022; Report new permanent BMPs in the annual report

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

**Actual BMP Start Date:** 09/30/2004

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

ASU staff are working closely with consultants on the Tempe and Polytechnic campuses’ Infrastructure Utility Master Plan. This extensive effort encompassed the completion of ground-penetrating lidar surveys of existing stormwater infrastructure on the two campuses. Additional ground-truthing surveying work is underway to verify mapped systems. This information will be part of an expanded and coordinated GIS system that will include information on campus stormwater infrastructure as well as university utilities, such as water and sewer.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:**

ASU field verification of existing stormwater maps and an update of the electronic mapping system is anticipated for completion by Summer 2022. Report new permanent BMPs in the annual report.

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**BMP Name:** MCM 3 - Wet Weather Monitoring

**Category:** Wet Weather Monitoring

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**

Visually assess discharges from outfalls

**Is another government entity responsible for this BMP ?** No

**Measurable Goals:**

**Start Date:** 03/28/2017

**Targeted End Date:** 09/29/2021

**Frequency:** 1 Quarterly

**Milestone Description:**

Visually assess discharges from outfalls four times annually

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

**Actual BMP Start Date:** 03/01/2016

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

Wet weather monitoring was conducted on six (6) occasions: 11/22/19, 12/9/19, 12/10/19, 2/11/2020, 2/12/2020, and 3/12/2020 at the West and Poly campuses.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Visually assess discharges from outfalls four times annually

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BMP Name: MCM 3 - Enforcement
Category: Implement IDDE Program
Personnel Position/Department: ASU Police, Dean of Students, CPMG, and ASU Administration

BMP Description:
Enforce all relevant stormwater pollution prevention rules and policies

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of enforcement actions taken annually

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

Actual BMP Start Date: 09/30/2004

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

No formal enforcement actions were necessary or taken this reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of enforcement actions taken annually

---

BMP Name: MCM 3 - Training
Category: Staff Training
Personnel Position/Department: Capital Programs Management Group

BMP Description:

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(602)771-2300

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

www.azdeq.gov
Train personnel with IDDE responsibilities

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of ASU employees trained each year

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

Actual BMP Start Date: 09/30/2004

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

ASU’s Stormwater group trained more than 96 personnel representing a broad spectrum of IDDE responsibilities. New this reporting year, stormwater IDDE training was incorporated into the Job Order Contractor (JOC) orientation training held 11/14/2019 for more than 40 contractor representatives of newly-approved ASU construction contracting firms. Additional ASU staff representing Facilities Management personnel from the ASU in-state campuses, ASU Fire, Environmental Health & Safety, Sustainability, and Parking & Transit also attended this multi-departmental session. Stormwater IDDE training was provided to 15 Facilities Management staff including Inspections via Zoom on 6/11/2020. Additional IDDE training was provided to 41 CPMG staff including construction project managers, project architects, inspectors, and departmental leadership on 6/25/2020.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of ASU employees trained each year

BMP Name: MCM 3 - Dry Weather Screening
Category: Dry Weather Screening
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Inspect outfalls and investigate dry weather flows within 15 days of discovery

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually  

**Milestone Description:**  
Report the number of dry weather flows found and the percentage mitigated within 15 days and report in the annual report.  

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

**Actual BMP Start Date:** 04/01/2004  

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.  
There were no significant dry weather flow events during this reporting period. Periodic irrigation breaks are quickly repaired by ASU's Facilities and Grounds Maintenance teams.  

Provide a summary of activities planned for next reporting period  
BMP does not apply for next reporting period: No  

**BMP Name:** MCM 3 - Written IDDE Procedures  
**Category:** Written IDDE Procedures  
**Personnel Position/Department:** Capital Programs Management Group  

**BMP Description:**  
Revise the IDDE plans as needed  

Is another government entity responsible for this BMP? No  

**Measurable Goals:**  
**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually  

**Milestone Description:**  
Review and update (if needed) IDDE plan annually  

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

**Actual BMP Start Date:** 09/30/2004  

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU's Stormwater group updated its information in the Stormwater Best Practices handout for contractors and in ASU's Service Provider Acknowledgement. The latter must be signed by new ASU service providers and includes key provisions requiring pollution prevention best practices on campuses to avoid pollution and the potential contamination of storm drains and drywells.

Provide a summary of activities planned for next reporting period

**BMP does not apply for next reporting period:** No

**Milestone Description:**
Review and update (if needed) IDDE plan annually

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 Measure 3.

Novel efforts this reporting period included training newly-approved ASU contractor affiliates and providing customized training via Zoom for project management, architectural and facilities staff. These initiatives are expected to bring greater awareness and compliance with illicit discharge detection and elimination requirements. Updated and more extensive mapping using new technologies is also anticipated to bring positive benefits in the coming reporting year as the location and condition of existing stormwater infrastructure is better understood on the Tempe and Polytechnic campuses.

Question: Were staff trained in IDDE Awareness and Response?

Answer:

Yes

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>11/14/2019</td>
<td>IDDE Awareness</td>
<td>40</td>
<td>One time event</td>
</tr>
<tr>
<td>2</td>
<td>06/11/2020</td>
<td>IDDE Awareness &amp; Response</td>
<td>15</td>
<td>Annually</td>
</tr>
<tr>
<td>3</td>
<td>06/25/2020</td>
<td>IDDE Awareness &amp; Response</td>
<td>41</td>
<td>Annually</td>
</tr>
</tbody>
</table>

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:** 0
**Number of IDDE incidents responded to in this reporting period:** 0

<table>
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<tr>
<th>Sr.No.</th>
<th>Enforcement Actions</th>
<th>Enforcements Issued</th>
<th>Enforcements Resolved</th>
<th>Enforcements Unresolved</th>
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<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

**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:**

There were no measurable illicit discharges during this reporting period. Due to Covid virus concerns, ASU moved to a remote learning environment in early March 2020. This adaption greatly reduced the number of persons on the campuses and the number and frequency of on-campus activities.

**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:** MCM 4 - Site Plan Review

**Category:** Site Plan Review

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**

Review construction plans and building permit applications for adherence to ASU construction policies.
Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of plans reviewed each year

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU's Construction Support Services group processed 553 permitting applications this reporting period. Of those, 20 were for 8 sites with one or more acres of land disturbance.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Report the number of plans reviewed each year

BMP Name: MCM 4 - Construction Inspection and Enforcement
Category: Inspections
Personnel Position/Department: Capital Programs Management Group
BMP Description:
Conduct site inspections and provide escalating enforcement as needed

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Track and report annually the number of inspections conducted; Track and annually report violations discovered and enforcement actions taken.

Were milestones/measurable goals achieved for this reporting period? Yes
Actual BMP Start: 09/30/2004

Date:

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

ASU Inspections and affiliated contractors conducted approximately 572 inspections on active construction sites in the reporting period, including 28 inspections pertaining to stormwater infrastructure components and 54 SWPPP inspections. No violations were identified that would necessitate enforcement action.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Track and report annually the number of inspections conducted; Track and annually report violations discovered and enforcement actions taken.

BMP Name: MCM 4 - Erosion/Sediment Control Policy
Category: Erosion/ Sediment Control
Personnel Position/Department: Capital Programs Management Group

BMP Description:

Revise and update all construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy, as needed

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:

Annually report revisions and updates to construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy found online at https://cfo/asu.edu/construction-sites

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

Actual BMP Start: 03/28/2017

Date:

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

No new revisions were necessary to the existing guidance documentation.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No
**Milestone Description:**
Annually report revisions and updates to construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy found online at [https://cfo/asu.edu/construction-sites](https://cfo/asu.edu/construction-sites)

**BMP Name:** MCM 4 - New Construction LEED Certification Standards

**Category:** Control Wastes

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**
Based on the state mandate for minimum LEED Silver certification for new construction, ASU maintains a landfill diversion policy. In addition to diverting construction waste from landfills, ASU works with construction operators to control wastes on construction sites. Construction operators are required to implement waste control measures at construction sites including, but not limited to, the following: (1) wash-out facilities for concrete, paint, drywall and stucco; (2) proper storage of fuels, oils, chemicals, etc. in a material storage yard with secondary containment or covers, as appropriate; (3) trash containment in dumpsters; and (4) appropriate location, staking and anchoring of Port-a-Johns.

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

<table>
<thead>
<tr>
<th>Start Date</th>
<th>03/28/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted End Date</td>
<td>09/29/2021</td>
</tr>
<tr>
<td>Frequency</td>
<td>1 Annually</td>
</tr>
</tbody>
</table>

**Milestone Description:**
Report the number of LEED Silver certifications of new buildings

Report the number of compliance inspections on construction sites as part of the Annual Report

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

**Actual BMP Start Date:** 10/01/2003

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
ASU achieved LEED Platinum certification for the Haydon Library Reinvention project, totaling 242,024 GSF. ASU Inspections and affiliated contractors performed approximately 54 compliance inspections on construction sites to ensure the proper implementation and maintenance of onsite waste control measures.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No
Milestone Description:
Report the number of LEED Silver certifications of new buildings Report the number of compliance inspections on construction sites as part of the Annual Report

BMP Name: MCM 4 - Construction Contractor SWMP Education
Category: Construction Operator Training
Personnel Position/Department: Capital Programs Management Group

BMP Description:
ASU maintains and makes available updated information on stormwater pollution prevention requirements for construction contractors.

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report significant updates to information provided to contractors in annual report and/or as needed

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
Updated stormwater pollution prevention information was provided to contractors during in-person training and with available handouts this reporting period. On 11/14/2019, ASU held a multi-departmental orientation for newly-selected Job Order Contractors (JOC). Requirements and expectations regarding pollution prevention and the mitigation of adverse impacts to ASU stormwater systems and drywells was presented to more than 40 contractor representatives as well as attending ASU personnel.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Report significant updates to information provided to contractors in annual report and/or as needed

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 Measure 4.

ASU’s Construction Support Services provided in-person training to more than 40 newly-approved ASU-affiliated contractors this reporting period. This training and the commitment to pollution prevention measures required in the Service Provider Acknowledgement is anticipated to have a positive impact in raising contractor awareness and compliance with pollution prevention practices. ASU and its affiliates also inspected active construction sites to ensure compliance with best management practices regarding stormwater runoff controls. Through its building practices, ASU earned a LEED Platinum certification for its Hayden Library Reinvention project in the heart of the Tempe campus.

Question: Were any construction activity operator training events conducted?  
Answer: Yes

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11/14/2019</td>
<td>IDDE Awareness &amp; Response</td>
<td>40</td>
<td>One time event</td>
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</tbody>
</table>

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: 9

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 one time every six months: 9

Number of active construction sites inspected at least monthly: 4

Number of active construction sites inspected at least annually: 9

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

Number of active construction sites not inspected: 0

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

Number of active construction sites that required re-inspections in this reporting period: 3
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Enforcement Actions</th>
<th>Enforcements Issued</th>
<th>Enforcements Resolved</th>
<th>Enforcements Unresolved</th>
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</table>

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:** MCM 5 - O&M Stormwater Infrastructure  
**Category:** O&M Procedures  
**Personnel Position/Department:** Capital Programs Management Group  

**BMP Description:**
ASU operates and maintains post-construction stormwater infrastructure including, but not limited to, retention basins and drywells on a regular basis to ensure their proper function and performance.

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually

**Milestone Description:**
Report annually on the number of drywells inspected and maintenance actions performed.

**Were milestones/measurable goals achieved for this reporting period?** Yes
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU completed inspections and related maintenance on 142 drywells on the Tempe, Polytechnic, and West campuses as well as ancillary university properties, such as the Mercado in downtown Phoenix. Maintenance photographs are being stored in ASU's drywell database until they can be uploaded into the new GIS data layer being developed as part of the Utility Infrastructure Master Plan.

In addition, 16,500 linear feet of stormwater pipe at the Tempe campus along with 3,600 linear feet of stormwater storage conduit was cleaned and inspected as part of the Infrastructure Utility Master Plan project. An additional approximately 3,000 linear feet of stormwater pipe was cleaned and inspected at the Polytechnic Campus.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report annually on the number of drywells inspected and maintenance actions performed.

BMP Name: MCM 5 - Inventory
Category: Inventory
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Update drainage control infrastructure inventory as field verification and e-mapping progresses

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Continue field verification and protocols to capture new permanent post-construction stormwater infrastructure from new construction

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
New permanent post-construction stormwater infrastructure including new drywells and underground retention facilities are being captured and mapped as part of the University’s ongoing Infrastructure Utility Master Plan project.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Continue field verification and protocols to capture new permanent post-construction stormwater infrastructure from new construction

BMP Name: MCM 5 - Regulatory Mechanism for Post-Construction Controls
Category: Structural/Non-Structural BMP
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Design guidelines for post-construction controls must meet surrounding MS4 drainage criteria

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Update design guidelines for post-construction controls and report in the annual report, as needed

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU's design guidelines for post-construction controls meet surrounding MS4 drainage criteria. ASU discussed drainage criteria for active construction projects with adjacent municipalities. Examples include the new university athletic fields, a new warehouse project, a new parking garage and a temporary surface parking facility. Discussion focused on ensuring that the design guidelines for post-construction controls met the drainage criteria of the adjacent MS4 jurisdiction.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Update design guidelines for post-construction controls and report in the annual report, as needed
BMP Name: MCM 5 - Site Plan Reviews
Category: Site Plan Reviews
Personnel Position/Department: Capital Programs Management Group

BMP Description:
ASU performs site plan reviews for all construction on its campuses. Post-construction stormwater facilities, such as retention basins, swales, drywells, and underground retention chambers are evaluated for efficacy and long-term viability in the project design phase. Construction documents are subsequently reviewed for stormwater compliance during site plan review and inspection.

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Annually report the number of site plan reviews completed for new post-construction stormwater infrastructure.

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

Actual BMP Start Date: 04/01/2003

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU Construction Support Services reviewed 6 plans for projects with new post-construction stormwater infrastructure.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Annually report the number of site plan reviews completed for new post-construction stormwater infrastructure.

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 Measure 5.
The University will be adding to its inventory of post-construction drainage structures as it develops new buildings, athletic facilities and support structures, such as parking garages. This new stormwater infrastructure is being developed in conformance with the drainage design criteria of surrounding MS4 jurisdictions. Post-construction drainage structures including drywells and underground retention facilities receive annual inspection and maintenance. As part of the Infrastructure Utility Master Plan project, the University also invested in significant maintenance this reporting period of stormwater conveyance pipes, including 16,500 linear feet of stormwater pipe at the Tempe campus along with the cleaning and inspecting of 3,600 linear feet of stormwater storage conduit. An additional approximately 3,000 linear feet of stormwater pipe was cleaned and inspected at the Polytechnic campus.

**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:* 5

*Number of Post-Construction Stormwater controls inspected in this reporting period:* 4

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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:** MCM 6 - MS4 Maintenance (Street Sweeping)

**Category:** Maintenance Activities

**Facility Information:**
Parking Lots

**Personnel Position/Department:** Capital Programs Management Group and Facilities Maintenance

**BMP Description:**
Maintain/repair MS4 and post-construction controls based on inspection results/CPMG; Clean parking lots/Parking & Transit

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

<table>
<thead>
<tr>
<th>Start Date:</th>
<th>03/28/2017</th>
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</thead>
<tbody>
<tr>
<td>Targeted End Date:</td>
<td>09/29/2021</td>
</tr>
<tr>
<td>Frequency:</td>
<td>1 Monthly</td>
</tr>
</tbody>
</table>

**Milestone Description:**
Track the number of repair and maintenance needs identified during inspection that were reflected to third-party contractor for repair; Report dates of parking lot cleaning in the annual report.

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

**Actual BMP Start Date:** 09/30/2004

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
ASU Parking and Transit completed stormwater repairs at two locations. Grates and sunken areas were repaired at Parking Lot 3. Third-party contractor services were also used to clean out a stormwater catch basin and properly dispose of stormwater in February at the Fulton Garage basement.


**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:**
Track the number of repair and maintenance needs identified during inspection that were reflected to third-party contractor for repair; Report dates of parking lot cleaning in the annual report.
BMP Name: MCM 6 - Inventory of University Facilities
Category: Inventory

Facility Information:
Parking Lots

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Inventory university facilities with the potential to discharge to stormwater infrastructure

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Inventory university facilities with the potential to discharge to stormwater and report annually

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU has no discharging facilities and will conform to this status.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Inventory university facilities with the potential to discharge to stormwater and report annually

BMP Name: MCM 6 - O&M Procedures
Category: O&M Procedures

Facility Information:
Parking Lots

Personnel Position/Department: Parking & Transit Services

BMP Description:
ASU contracts with a third-party to sweep streets and parking lots, collect and dispose of debris

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Monthly

Milestone Description:
Report annually on the amount of trash collected and disposed of off premises

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

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU collected and properly disposed of more than 88,240 lbs. of trash.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Report annually on the amount of trash collected and disposed of off premises

BMP Name: MCM 6 - O&M Employee Training
Category: Training

Facility Information:
Parking Lots

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Conduct O&M Employee Training

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Document training events and the number of staff trained annually

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

Actual BMP Start Date: 09/30/2004
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU's Construction Support Services group trained 15 personnel that actively complete O&M activities for the campuses.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Document training events and the number of staff trained annually

<table>
<thead>
<tr>
<th>BMP Name:</th>
<th>MCM 6 - Maintenance Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category:</td>
<td>Maintenance Schedule</td>
</tr>
<tr>
<td>Facility Information:</td>
<td>Parking Lots</td>
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<tr>
<td>Personnel Position/Department:</td>
<td>Parking &amp; Transit Services</td>
</tr>
<tr>
<td>BMP Description :</td>
<td>Sweeping</td>
</tr>
<tr>
<td>Is another government entity responsible for this BMP ?</td>
<td>No</td>
</tr>
</tbody>
</table>

Measurable Goals:

| Start Date:         | 03/28/2019 |
| Targeted End Date:  | 09/29/2021 |
| Frequency:          | 1 Monthly  |

Milestone Description:
Report dates of parking lot cleaning in the annual report

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

Actual BMP Start Date: 09/30/2004

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


Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report dates of parking lot cleaning in the annual report

**BMP Name:** MCM 6 - University-Owned Facility Inspections  
**Category:** Inspections  
**Facility Information:** Parking Lots  
**Personnel Position/Department:** Facilities Maintenance and Parking & Transit Services  
**BMP Description:** Monitor the number of post-construction control devices recommended for special maintenance  
**Is another government entity responsible for this BMP?** No  
**Measurable Goals:**  
**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually  
**Milestone Description:** Report the number of post-construction controls devices recommended for special maintenance. Track the number of illicit discharges or dumping reported to Environmental Health & Safety.  
**Were milestones/measurable goals achieved for this reporting period?** Yes  
**Actual BMP Start Date:** 09/30/2004  
**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**  
Parking and Transit completed special maintenance at two parking facilities. Grates and sunken area in Lot 3 were repaired. A storm catch basin in the Fulton Garage basement was pumped of water and cleaned.  
**Provide a summary of activities planned for next reporting period**  
**BMP does not apply for next reporting period:** No  
**Milestone Description:** Report the number of post-construction controls devices recommended for special maintenance. Track the number of illicit discharges or dumping reported to Environmental Health & Safety.  
**Question: For Minimum Control Measure 6: Pollution Prevention and Good Housekeeping, Did the program implement any additional BMPs during this reporting period?**  
**Answer:** No  
**Provide a summary of compliance with the requirements for Minimum Control Measure 6.**
ASU collected and properly disposed of more than 88,240 lbs. of trash in 19 parking lot sweeping events.

**Question:** Was staff training conducted?

**Answer:**
Yes

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
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