STORMWATER MANAGEMENT PROGRAM
Revised March 2011

To fulfill requirements in the
Small Municipal Separate Storm Sewer System (MS4)
General Permit (AZG2002-002)
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1.0 INTRODUCTION

This Stormwater Management Program (SWMP) covers operations of three Arizona State University campuses (Tempe campus, Polytechnic campus and West campus), hereafter described collectively as “ASU.” The SWMP has been developed in accordance with the Stormwater Phase II Final Rule (64 Federal Register 68722), as incorporated into the Arizona Administrative Code (AAC), Title 18 Chapter 9, Section A905. Under this citation, ASU is designated as a Small Municipal Separate Storm Sewer System (Small MS4).

The Stormwater Phase II Regulations require some municipalities to obtain a permit for their municipal stormwater discharges. These regulations stem from national studies and local findings within Arizona that confirmed runoff from urban areas greatly impairs stream ecology and the health of aquatic life. While many of the water courses in Arizona are ephemeral or intermittent, these national regulations still apply to Arizona. Regulated municipalities are described as those that that are located wholly or partially in an urbanized area. Arizona’s regulated municipalities include five counties, 20 cities and 7 non-traditional municipalities. ASU is one of the 7 non-traditional municipalities.

This plan meets the requirements of the Arizona Pollutant Discharge Elimination System (AZPDES) MS4 General Permit No. AZG2002-002 for Stormwater Management. ASU’s Authorization Number under the MS4 General Permit is MS4 2002-002, 003, 004.

This SWMP describes ASU and its operations, identifies targeted potential sources of stormwater pollution from the campus(es), adopts appropriate Best Management Practices (BMPs), with scheduled completion dates, and provides for periodic review of this SWMP.

ASU has revised its Notice of Intent (NOI) which is presented herein as Appendix A. ASU’s NOI can also be viewed online at http://cfo.asu.edu/fdm-stormwater-program.

1.1 Mission Statement

ASU will continue to seek to ensure the environmental integrity of the campus water system by addressing flood, water quality, and erosion control. ASU will continue to work hand-in-hand with members of the ASU community through education and outreach programs. ASU will continue to strive to inspire and encourage proactive involvement by setting a positive example through leadership in developing innovative solutions for campus environmental concerns.

1.2 Definitions

The following is a list of frequently used terminology with corresponding definitions:

**Arizona Pollution Discharge Elimination System (AZPDES):** The state of Arizona program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, incorporated by reference under AAC R18-9-A905.

**Best Management Practice (BMP):** Permit condition used in place of, or in conjunction with,
effluent limitations to prevent or control the discharge of pollutants. May include schedule of activities, prohibition of practices, maintenance procedure, or other management practice. BMPs may include, but are not limited to, treatment requirements, operating procedures, or practices to control plant site runoff, spillage, leaks, sludge or waste disposal, or drainage from raw material storage.

**Clean Water Act (CWA):** Act passed by the U.S. Congress to control water pollution. It was formerly referred to as the Federal Water Pollution Control Act of 1972, or Federal Water Pollution Control Act Amendments of 1972 (Public Law 92500), 33 U.S.C. 1251 et. seq., as amended by: Public Law 96483; Public Law 97117; and Public Laws 95217, 97117, 97440, and 10004.


**EPA:** U.S. Environmental Protection Agency.

**Grab Sample:** A sample which is taken from a waste stream on a one-time basis, without consideration of the flow rate of the waste stream and without consideration of time.

**Maximum Extent Practicable (MEP):** Undefined by the EPA to allow greater flexibility by MS4’s to limit and control impact to stormwater runoff. The term “maximum extent practicable,” or MEP, is embodied as the basic performance standard in numerous state and federal regulations including Section 404 of the Federal Clean Water Act. The MEP standard does not necessarily involve the same criteria in each application; it is intended to address projects or actions on an individual basis considering each of their specific circumstances and purpose.

**Municipal Separate Storm Sewer System (MS4):** A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned by a state, city, town, or other public body, that is designed or used for collecting or conveying stormwater, which is not a combined sewer, and which is not part of a publicly owned treatment works. Commonly referred to as an "MS4" [40 CFR 122.26(b)(8)].

**National Pollutant Discharge Elimination System (NPDES):** The national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the CWA.

**Permittee:** Meaning Arizona State University (ASU).

**Stormwater:** Stormwater runoff, snowmelt runoff, and surface runoff and drainage [40 CFR 122.26(b)(13)].

**Stormwater Management Plan (SWMP):** A comprehensive plan for implementation of AZPDES/NPDES permit requirements.
**Waters of the United States:** All waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters subject to the ebb and flow of tide. Waters of the United States include, but are not limited to, all interstate waters and intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, play lakes, or natural ponds.
2.0 STORMWATER MANAGEMENT PROGRAM

ASU has evaluated the permit requirements for the six minimum control measures specified in Part V.B. of the General Permit. Based on that review, ASU has selected BMPs for each control measure that ASU believes will accomplish the goal of reducing pollution from stormwater runoff to the MEP. ASU has identified dates by which implementation of each BMP will begin, targeted completion dates for full implementation of each BMP, measurable goals, and responsible persons for each action. The action plan is itemized separately by control measure.

2.1 Qualifying State Program

ASU has developed new BMPs in response to the need to apply for a municipal stormwater discharge permit. ASU is not aware of any qualifying local or state programs that would adequately address the requirements of the Small MS4 General Permit.

2.2 Sharing Responsibility

ASU will have the responsibility to implement all measures within this SWMP. The individuals responsible for each program element are listed in the Tables and collectively presented within Table 1: Stormwater Program Contact Information which follows Section 2.0.

2.3 Reviewing and Updating the SWMP

ASU will continue to review the SWMP annually in conjunction with its preparation of the Annual Report due September 30th and will evaluate the implementation status of the SWMP components, as well as the effectiveness of each component or combination of components. If the SWMP needs to be revised, ASU will identify these modifications in its Annual Report. If components of the SWMP need to be replaced, ASU will provide the Arizona Department of Environmental Quality (ADEQ) with proposed revisions, including an explanation of why the practice is ineffective and how the replacement is expected to achieve the goals of the management practice.

2.4 Property Description

ASU is comprised of three campuses (Tempe campus, Polytechnic campus and West campus) located within Maricopa County, Arizona. Collectively, these three campuses are known as “ASU.”

2.4.1 Tempe campus

The Tempe campus is located within the City of Tempe and is comprised of approximately 633.95 acres, which are bounded on the north by Tempe Town Lake, on the west by Mill Avenue, on the east by Rural Road and between Apache Boulevard, University Drive and McClintock Road, and on the south by Apache Boulevard and Southern Pacific Railroad. The majority of the Tempe campus is fully developed and contains 277 facilities, which include buildings and parking structures. The majority of the open space is located in the SRC sports fields in the southeast. The Tempe campus is located 0.6 miles south of the Salt River. The Tempe campus is relatively flat, with a slight slope from the northeast towards the southeast.
In conformance with the City of Tempe regulations, it is ASU’s intent that all stormwater runoff is contained within the boundaries of the Tempe campus. No excess runoff should leave the Tempe campus and contribute to the City of Tempe stormwater system. The Tempe campus stormwater runoff is contained on campus with an engineered drainage system consisting of 143 dry wells, 80 retention basins, 12 underground retention vaults and 15 arch chamber retention basins. The details of the Tempe campus drainage system are provided in a report prepared by Burgess & Niple issued February 2007. ASU plans to implement the recommendations set forth within the Burgess & Niple report, as appropriate. Please refer to Attachment 1 for a graphic representation of the Tempe campus.

2.4.2 Polytechnic campus

The Polytechnic campus is located within the former Williams Air Force Base, now referred to as the Williams Gateway Mesa Airport. The Williams Gateway Mesa Airport complex is located in the southeastern section of the City of Mesa, Maricopa County, Arizona. The Polytechnic campus is approximately 612.5 acres in size, and is bounded on the north by Ray Road, on the east by Sossamon Road, on the south by the Pecos Road alignment, and on the west by the East Maricopa Floodway.

Details of the Polytechnic drainage system are presented in the GLHN Architects & Engineers’ 2005 report. In general, the Polytechnic campus is located within a larger master-planned development called the Williams Gateway Mesa Airport Complex. The Polytechnic campus land use is primarily comprised of housing, sports fields, educational facilities, paved roads, and parking systems. Aside from the sports field areas, the open space is landscaped with native desert plants. Most existing development pre-dates City of Mesa drainage ordinances and, therefore, is exempt. When redevelopment is undertaken on the Polytechnic campus, drainage designs will conform to the current drainage regulations. The Polytechnic campus has approximately 14 drywells that ASU routinely monitors and maintains. The Polytechnic stormwater runoff is discharged into the East Maricopa Floodway. Please refer to Attachment 2 for a graphic representation of the Polytechnic campus.

2.4.3 West campus

The West campus consists of approximately 277.92 acres and is located within the City of Phoenix, Maricopa County, Arizona. The West campus is bounded by Thunderbird Road to the north, 43rd Avenue to the east, Sweetwater Avenue to the south, and 51st Avenue to the west.

Details of the West campus drainage system are presented in the Burgess & Niple report issued in 2005. According to this report, off-site stormwater runoff does not impact the West campus. The surrounding City of Phoenix drainage system is sufficient to retain stormwater runoff within the city boundaries. Additionally, the West campus has constructed on-site landscaping berms that further prevent off-site stormwater runoff from impacting ASU property. The West campus drainage system adheres to the City of Phoenix Stormwater Policies and Standards. The West campus generally slopes from the northeast, towards the southwest, and stormwater is retained on site via a series of retention basins constructed within 16 individual drainage areas. Please refer to Attachment 3 for a graphic representation of the West campus.
2.5 Monitoring

ASU will continue to evaluate program compliance, the appropriateness of identified BMPs, and progress towards achieving identified measurable goals. ASU’s Tempe campus has retention areas for stormwater that eventually drain to the Salt River; ASU’s West campus has a retention area (100-year, 2-hour storm) that drains to Sweetwater Avenue, and eventually to the Agua Fria River; and ASU’s Polytechnic campus drains into the East Maricopa Floodway through the North Perimeter Channel. At this time, a Total Maximum Daily Load has not been established for the referenced receiving waters. None of these areas are listed on Arizona’s 303(d) list; therefore, ASU is not required to sample and analyze the discharge from the small MS4 at this time.

2.6 Annual Reports

ASU will continue to submit Annual Reports to ADEQ by September 30th of each year for the preceding period of July 1 through June 30. ASU will report on the information required in Part V.G. of the permit.
<table>
<thead>
<tr>
<th>Contact Name</th>
<th>Title</th>
<th>ASU Department</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diane Rowley</td>
<td>Associate Director</td>
<td>Capital Programs Management Group (CPMG)</td>
<td>(480) 965-7075</td>
<td><a href="mailto:diane.rowley@asu.edu">diane.rowley@asu.edu</a></td>
</tr>
<tr>
<td>Joanne Rollins</td>
<td>Program Manager</td>
<td>CPMG – Building Construction Support Services</td>
<td>(480) 727-0918</td>
<td><a href="mailto:joanne.rollins@asu.edu">joanne.rollins@asu.edu</a></td>
</tr>
<tr>
<td>E.L. Cortez</td>
<td>Executive Director</td>
<td>Facilities Management, West campus and Polytechnic campus</td>
<td>(602) 543-3215</td>
<td><a href="mailto:e.l.cortez@asu.edu">e.l.cortez@asu.edu</a></td>
</tr>
<tr>
<td>Steven Hunter</td>
<td>Associate Director</td>
<td>Environmental Health &amp; Safety Department (EH&amp;S)</td>
<td>(480) 965-1893</td>
<td><a href="mailto:steven.hunter@asu.edu">steven.hunter@asu.edu</a></td>
</tr>
<tr>
<td>Judi Nelson</td>
<td>Program Manager</td>
<td>Parking &amp; Transit Services</td>
<td>(480) 965-0472</td>
<td><a href="mailto:juliet.nelson@asu.edu">juliet.nelson@asu.edu</a></td>
</tr>
<tr>
<td>Ellen Newell</td>
<td>Associate Director</td>
<td>Facilities Management, Grounds Services</td>
<td>(480) 965-2682</td>
<td><a href="mailto:ellen.newell@asu.edu">ellen.newell@asu.edu</a></td>
</tr>
<tr>
<td>Kevin Shafer</td>
<td>Director, Facilities Management</td>
<td>Facilities Management, Polytechnic campus</td>
<td>(480) 727-1112</td>
<td><a href="mailto:kevin.shafer@asu.edu">kevin.shafer@asu.edu</a></td>
</tr>
</tbody>
</table>
3.0 SITE INSPECTION PROCEDURES

Facilities Development and Management—Capital Programs Management Group (CPMG) is responsible for the development and implementation of ASU’s Stormwater Program. The ASU Stormwater Program cites the authorities under which ASU controls sediment, erosion, and waste (particularly concrete waste), and also refers to the consequences associated with non-compliance.

3.1 Construction Site Runoff Control

When projects are in the initiation stages, meetings are held with various ASU departments and organizations that the project impacts to address all issues and concerns. CPMG evaluates the drainage issues and other Stormwater Program issues that impact the project. ASU’s CPMG Stormwater Program point of contact is Ms. Joanne Rollins. ASU’s CPMG ensures that permitting requirements of other state and county agencies are obtained and adhered to. The CPMG Building Permit Application asks the applicant, “Will the planned construction activity result in land disturbance of an acre or more?” If construction activities disturb an acre or more, the project manager is advised to notify the contractor that they are required to submit an NOI for coverage under the AZPDES General Permit AZG2008-001 for construction activity discharges. They are advised that a Stormwater Pollution Prevention Plan (SWPPP) must be developed and implemented and that qualified stormwater inspectors must perform inspections according to the schedule noted in the General Permit. The contractor is given brochures about how to apply for coverage and how to comply with AZPDES General Permit AZG2008-001. They are also advised that construction activities may not begin until compliance with all AZPDES guidelines are demonstrated.

The CPMG Stormwater Program point of contact also ascertains whether the construction activity is a dust-generating activity that will disturb surface area of 1/10 acre or more. If the construction activity is a dust-generating activity, the contractor is notified that a Dust Control Plan and Dust Control Permit are required from Maricopa County Air Quality Department. Also, if demolition includes wrecking of load-supporting structural members, or if there is asbestos, ASU’s Asbestos Program must be notified, and compliance with the proper Maricopa Air Quality Department National Emissions Standards for Hazardous Air Pollutants regulations are required.

In addition to meeting ASU’s CPMG Stormwater Program compliance and conditions, the construction plans and documents are reviewed for (other reviews may be applicable based on project scope):

- Compliance and conformance with accepted building codes
- ASU’s Design Guidelines
- Drainage compliance
- Environmental health and safety
- Fire safety
- Asbestos and lead paint
The reviewed, red-lined plans are returned to the architect/engineer to incorporate any changes into the final set of approved plans for the construction site.

Before the project begins, a pre-construction meeting is held with individuals involved in the project (architects, engineers, superintendents, inspectors, project managers, various department staff who oversee asbestos and lead safety, data lines, maintenance, blue stake, campus drainage representative, etc.) to discuss key issues and responsibilities.

After the project is approved and construction begins, the project is inspected by ASU construction inspectors as construction progresses. ASU’s construction inspector is also a certified stormwater inspector and ensures that the stormwater inspectors performing the inspections are diligent about their assignments. Upon completion of the construction project, the drywells are inspected to make certain that no dumping has occurred inside the drywells.

The stormwater documentation (NOI Certificate, SWPPP, site plan, inspector certifications, changes and updates to SWPPP) are maintained during construction. The Notice of Termination documentation is added to the records after the project is stabilized. The documents are maintained at ASU’s main office for a period of three years. After that period, they are scanned and sent to archives.
4.0 CONTROL MEASURES: BMPS AND MEASURABLE GOALS

Table 2 below identifies the six minimum control measures specified in Part V.B. of the General Permit, the BMPs, measurable goals, responsibility party and pertinent dates. Table 1 provides a list of all program contacts.
<table>
<thead>
<tr>
<th>Minimum Control Measure(s)</th>
<th>BMP</th>
<th>Measurable Goal</th>
<th>New or Revised Start Date</th>
<th>Implementation Status/Frequency/Achievement Date (complete, in progress, not started)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Education and Outreach</strong></td>
<td>Collect brochures, fact sheets, and other educational materials from federal, state, and local agencies or other MS4 websites.</td>
<td>ASU staff will contact agencies to obtain educational materials and will update the web page quarterly to reflect the most current information.</td>
<td>Jun-09 Mar-03</td>
<td>Completed June 2009  Ongoing: ASU has obtained current stormwater related literature and educational materials in accordance with the Arizona Pollutant Discharge Elimination System (AZPDES) program and updates the website quarterly to reflect any new information. We will continue to update and collect new materials.</td>
</tr>
<tr>
<td><strong>Public Education and Outreach</strong></td>
<td>Distribute and update information to University employees, students, and vendors.</td>
<td>State Press (students, staff, and facility), and Residence Life (residence hall students) will include stormwater related information in their publications.</td>
<td>Oct-06 Mar-03</td>
<td>Completed Mar 2004. Stormwater related information has been distributed to key departments, student communication groups, and appropriate contractors and vendors. A Stormwater Pollution Prevention brochure was prepared and distribution began in Fall 2006. ASU continues to distribute and update information.</td>
</tr>
<tr>
<td><strong>Public Education and Outreach</strong></td>
<td>Distribute and update information to University employees, students, and vendors.</td>
<td>University staff will update materials and include revised information in publications and meetings as they become available.</td>
<td>Jun-0 Apr-04</td>
<td>Ongoing: University internal policies ensure compliance. The staff updates information provided to key departments, student groups, and appropriate contractors/vendors on an as needed basis. ASU continues to distribute and update information.</td>
</tr>
<tr>
<td><strong>Public Education and Outreach</strong></td>
<td>Establish a web page for the Stormwater Management Program (SWMP).</td>
<td>University staff will develop or work with consultants to develop a stormwater web page and bring it online using available web information and additional input.</td>
<td>Jun-05 Mar-03</td>
<td>Completed June 2005. ASU has activated a Stormwater Management web page. The web page provides access to the SWMP and contact information for reporting stormwater related issues to University staff. ASU continues to update the web page with current information. <a href="http://cfo.asu.edu/fdm-stormwater-program">http://cfo.asu.edu/fdm-stormwater-program</a></td>
</tr>
<tr>
<td><strong>Public Education and Outreach</strong></td>
<td>Establish a web page for the SWMP.</td>
<td>ASU SWMP web page will be reviewed on a quarterly basis to ensure that the most current information is available. The web page will be updated as necessary.</td>
<td>Jun-10 Jun-05</td>
<td>Ongoing: ASU reviews web page contents and links to other stormwater related resources quarterly and updates the website as needed. A counter was added May 31, 2006, and 692 “hits” were recorded that year. Between July 2009 and June 2010 the website received 277 “hits”. The webpage continues to receive significant traffic and is updated periodically.</td>
</tr>
<tr>
<td>Minimum Control Measure(s)</td>
<td>BMP</td>
<td>Measurable Goal</td>
<td>New or Revised</td>
<td>Start Date</td>
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<tr>
<td>Public Education and Outreach</td>
<td>Establish a library of educational materials on relevant stormwater matters.</td>
<td>ASU staff will collect materials and place the materials in public areas on campus, residence halls, and in ASU libraries as needed.</td>
<td>Jun-10</td>
<td>Mar-04</td>
</tr>
<tr>
<td>Public Education and Outreach</td>
<td>Establish a library of educational materials on relevant stormwater matters.</td>
<td>ASU staff will update stormwater related materials when new information becomes available and redistribute.</td>
<td>Jun-10</td>
<td>Apr-05</td>
</tr>
<tr>
<td>Public Education and Outreach; Public Participation and Involvement</td>
<td>Respond to verbal or written public inquiries, comments, or concerns about illicit disposal of wastes, etc., and/or requests for information.</td>
<td>ASU will identify a principal contact and devise the best method for handling public inquiries.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td>Public Education and Outreach; Public Participation and Involvement</td>
<td>Respond to verbal or written public inquiries, comments, or concerns about illicit disposal of wastes, etc., and/or requests for information</td>
<td>ASU contact person will review the information and determine the best response. Response may be given over the phone, by email, or by regular mail. The information will be referred to University site inspectors for follow up.</td>
<td>Jun-10</td>
<td>Mar-04</td>
</tr>
<tr>
<td>Public Participation and Involvement</td>
<td>Capital Programs Management Group (CPMG) will develop the SWMP</td>
<td>CPMG will develop the SWMP and advise staff on AZPDES issues. A copy of the SWMP will be made available on the Stormwater Management web page.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td>Public Participation and Involvement</td>
<td>Create activities for students, faculty, and staff to clean up campus and malls. A volunteer event “Adopt a Mall” is held weekly. This event allows clubs, individuals, departments, and staff to sign-up for a specific mall and clean it once a week.</td>
<td>University staff will encourage students and staff to participate in activities.</td>
<td>Jun-10</td>
<td>Mar-04</td>
</tr>
<tr>
<td>Minimum Control Measure(s)</td>
<td>BMP</td>
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<tr>
<td><strong>Public Participation and Involvement</strong></td>
<td>Make the SWMP and Notice of Intent (NOI) available to students and employees on campus.</td>
<td>The SWMP and NOI will be made available to the public through campus publications and on the stormwater web page upon its completion.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Clean University parking areas to reduce possible contamination to runoff.</td>
<td>Prior to onset of the summer monsoon and winter rainy seasons, parking lots and other impervious areas will be cleaned. ASU Parking &amp; Transit Services also notifies parking permit holders, via general email, of the need to keep parking areas debris free and clean.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Map storm drainage system and identify discharge points.</td>
<td>ASU will utilize its resources to map the storm drainage system and identify discharge points.</td>
<td>Dec-07</td>
<td>Jul-04</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Develop sections in the CPMG policies that address illicit discharges and dumping.</td>
<td>ASU will approve the newly created sections of the CPMG policies as appropriate.</td>
<td>Jun-05</td>
<td>Jun-03</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Develop sections in the CPMG policies that address illicit discharges and dumping.</td>
<td>University staff will incorporate illicit discharge inspections into regular inspection duties and take reports on illicit discharge sightings and complaints.</td>
<td>Jun-10</td>
<td>Apr-04</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Develop sections in ASU’s policies that address illicit discharges and dumping.</td>
<td>Enforcement action will be taken on those who violate the policy in accordance with ASU’s enforcement policies.</td>
<td>Jun-10</td>
<td>Jan-07</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Train employees in the detection, collection, and identification of illicit discharges.</td>
<td>Develop a plan for systematic review of streets utilizing appropriate University staff.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td>Minimum Control Measure(s)</td>
<td>BMP</td>
<td>Measurable Goal</td>
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</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Train employees in the detection, collection, and identification of illicit discharges.</td>
<td>Evaluate street conditions and prioritize areas that appear more heavily impacted by illicit discharge activity.</td>
<td>Jun-10 Sep-04</td>
<td>Ongoing: The Grounds Crew visually inspects the streets and stormwater system. Areas are prioritized for closer inspection, particularly on weekends and after public events, including parking areas and trash dumpsters. This is an ongoing effort.</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Notify students and employees of the hazards and costs of illicit discharges and improper waste disposal via seminars and/or published and distributed information.</td>
<td>Staff will identify what areas are most likely to contribute illicit discharges to the stormwater sewer system.</td>
<td>Jun-10 Mar-05</td>
<td>Ongoing. Grounds Crew and Parking &amp; Transit have identified parking lots and commercial dumpsters. These staff members monitor these areas for the presence of any material that may adversely impact the campus stormwater system.</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Notify students and employees of the hazards and costs of illicit discharges and improper waste disposal via seminars and/or published and distributed information.</td>
<td>Staff will notify the people responsible in the identified areas of the CPMG policy that prohibits illicit discharges. Literature identifying the hazards and costs will be developed.</td>
<td>Jun-10 Jul-05</td>
<td>Ongoing. The Ground Services Department staff has been informed of ASU policy that prohibits illicit discharges within ASU and has been provided literature regarding the hazards and associated costs.</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>A SWMP will be designed to retain all stormwater runoff on property.</td>
<td>Mapping of stormwater system will be developed in the Stormwater Master Plans.</td>
<td>Jun-10 Apr-06</td>
<td>Ongoing. Stormwater Master Plans have been completed for the Tempe, Polytechnic and West campuses. The stormwater system has been mapped and all stormwater is retained on the Tempe and West campuses. The Polytechnic campus discharges into the East Maricopa Floodway and is the only outfall.</td>
</tr>
<tr>
<td><strong>Illicit Discharge Detection and Elimination</strong></td>
<td>Staff will conduct dry weather field screening on a continual basis.</td>
<td>When screening identifies a potential illicit discharge, a trained staff person will perform a follow up investigation within 15 days of receiving the information.</td>
<td>Jun-10 Apr-04</td>
<td>Ongoing: Potential illicit discharges are reported to EH&amp;S. Those associated with construction activities are reported to CPMG. In no case does ASU respond later than 15 days after receiving the report.</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Construction site contractors must submit a Stormwater Pollution Prevention Plan (SWPPP) prior to beginning construction that includes Best Management Practices (BMPs) for management of the site.</td>
<td>Staff will prepare a brochure to explain the new requirements for one acre and larger sites, as well as sites less than one acre that are part of a larger development.</td>
<td>Jun-03 Mar-03</td>
<td>Completed Jun-03. Brochures are provided to contractors during the planning phase of each construction activity. A copy of the brochure is available on the Stormwater Management website.</td>
</tr>
<tr>
<td>Minimum Control Measure(s)</td>
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<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Construction site contractors must submit a SWPPP prior to beginning construction that includes BMPs for management of the site.</td>
<td>Staff will inform operators in pre-construction meetings that a SWPPP is required for one acre and larger sites, as well as sites less than one acre but part of a larger common plan of development.</td>
<td>Jun-10</td>
<td>Mar-03</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Follow state requirements that address discharge violations during construction activities and provisions for authority to inspect construction sites.</td>
<td>New stormwater sections of the CPMG construction policies will be developed and implemented as appropriate.</td>
<td>Jun-10</td>
<td>Jul-03</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Follow state requirements that address discharge violations during construction activities and provisions for authority to inspect construction sites.</td>
<td>Staff will incorporate construction site inspections into regular duties and take reports on illicit discharge sightings and complaints.</td>
<td>Jun-10</td>
<td>Jan-06</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Follow state requirements that address discharge violations during construction activities and provisions for authority to inspect construction sites.</td>
<td>Put corrective action in place for implementation should University policies be violated.</td>
<td>Jun-10</td>
<td>Jan-07</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Using contractor’s SWPPP as the “site plan,” ensure completeness and compliance with policy.</td>
<td>Staff will develop a checklist to verify SWPPP completeness and compliance with University and Arizona Department of Environmental Quality (ADEQ) Construction General Permit. In the meantime, the contractor will use ADEQ’s checklist.</td>
<td>Oct-03</td>
<td>Mar-03</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Using contractor’s SWPPP as the “site plan,” ensure completeness and compliance with policy.</td>
<td>Staff will establish protocols for who reviews the plans, how much time staff should spend reviewing the plans, filing, and tracking.</td>
<td>Dec-07</td>
<td>Jan-04</td>
</tr>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td>Have in place policies that address discharge from construction sites and ensure compliance.</td>
<td>Pre-construction stormwater retention plans are implemented for new construction.</td>
<td>Jun-10</td>
<td>Apr-02</td>
</tr>
</tbody>
</table>
### TABLE 2 CONTROL MEASURES (continued)

<table>
<thead>
<tr>
<th>Minimum Control Measure(s)</th>
<th>BMP</th>
<th>Measurable Goal</th>
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<th>Start Date</th>
<th>Implementation Status/Frequency/Achievement Date (complete, in progress, not started)</th>
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</thead>
<tbody>
<tr>
<td><strong>Construction Site Stormwater Runoff Control</strong></td>
<td></td>
<td>Have in place policies that address discharge from construction sites and ensure compliance.</td>
<td>ASU will approve the stormwater section of the CPMG Program that addresses discharge violations that occur during construction activities, including discharges of trash, oil, and grease and has provisions for inspections for all sites over an acre or that are part of a development larger than an acre.</td>
<td>Dec-07 Mar-04</td>
<td>Completed Dec-07. The CPMG has developed and approved the “Construction Site Procedures for Contractors.” This addresses discharges from construction sites and gives authority to inspect sites to ensure compliance.</td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>Have updated Stormwater Master Plans incorporated into CPMG/IDDE Plan. Ensure compliance with stormwater drainage design criteria.</td>
<td></td>
<td>Staff will review all current information related to long-term drainage control.</td>
<td>Jun-10 Jul-03</td>
<td>Completed Dec-06. The original SWMP for the Tempe, Polytechnic and West Campuses were complete in December 2006. They are currently being revised based on available information related to long term drainage control. The SWMP considered various alternatives to maximize the capability of the system at the lowest cost, within the context of Board resources-management policies.</td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>Have updated Stormwater Master Plans incorporated into CPMG/IDDE Plan. Ensure compliance with stormwater drainage design criteria.</td>
<td>Stormwater section will be added to the CPMG/IDDE construction policies.</td>
<td>Dec-06 Jan-06</td>
<td>Completed Dec-06. CPMG has added Stormwater and Erosion Control sections to its policies for contractors on construction sites to implement the IDDE Plan, or EH&amp;S Hazardous Waste P3.</td>
<td></td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>Have updated Stormwater Master Plans incorporated into CPMG/IDDE Plan. Ensure compliance with stormwater drainage design criteria.</td>
<td></td>
<td>Staff will train building inspectors to monitor compliance with the Policy’s design criteria.</td>
<td>Dec-07 Apr-04</td>
<td>Completed Dec-07. Corrective action procedures and penalties for IDDE violators have been developed in the CPMG construction policies.</td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>Have updated Stormwater Master Plans incorporated into CPMG/IDDE Plan. Ensure compliance with stormwater drainage design criteria.</td>
<td></td>
<td>Staff will train building inspectors to monitor compliance with the Policy’s design criteria.</td>
<td>Dec-07 Jan-07</td>
<td>Completed Dec-07. ASU has a certified stormwater inspector to monitor compliance with the Policy’s design criteria.</td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>Have updated Stormwater Master Plans incorporated into CPMG/IDDE Plan. Ensure compliance with stormwater drainage design criteria.</td>
<td>Future construction projects will be required to have stormwater retention design.</td>
<td>Dec-07 Apr-03</td>
<td>Completed Dec-07. Stormwater retention is currently required for each regulated construction site.</td>
<td></td>
</tr>
<tr>
<td><strong>Post-Construction Runoff Control</strong></td>
<td>CPMG will meet to discuss an approach to water quality and quantity management.</td>
<td>Staff will investigate training opportunities for water management issues.</td>
<td>Jun-10 Jan-05</td>
<td>Ongoing. CPMG periodically conducts stormwater issues awareness training that included numerous classes this past year.</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>CPMG will meet to discuss an approach to water quality and quantity management.</td>
<td>University will update and provide technical input for the CPMG Plan on an annual basis. Additionally, the panel will address revisions to the stormwater drainage design criteria.</td>
<td>Jun-10</td>
<td>Feb-05</td>
<td>Ongoing: University staff provides input regarding development of the stormwater section of ASU Policies and the stormwater drainage design criteria for each campus annually.</td>
</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>Consider cumulative impact of stormwater quantity and quality using design criteria; include a maintenance requirement.</td>
<td>Staff will review all current information related to long-term drainage control.</td>
<td>Dec-07</td>
<td>Jun-06</td>
<td>Completed Dec-07. SWMP has been completed for the Tempe, Polytechnic and West campuses. The SWMP is periodically reviewed and is currently being updated.</td>
</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>Consider cumulative impact of stormwater quantity and quality using design criteria; include a maintenance requirement.</td>
<td>Put corrective action into place to be taken on those who violate ASU Policies.</td>
<td>Jun-10</td>
<td>Apr-03</td>
<td>Ongoing. ASU will pursue corrective action as needed to ensure compliance.</td>
</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>Consider cumulative impact of stormwater quantity and quality using design criteria; include a maintenance requirement.</td>
<td>A new stormwater section will be added to ASU Policies.</td>
<td>Dec-07</td>
<td>Jan-07</td>
<td>Completed Dec-07. The new Stormwater and Erosion Control section has been added to ASU Policies.</td>
</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>Require that contractors institute long-term operation and maintenance (O&amp;M) BMPs.</td>
<td>Conduct annual drywell inspections. Drywell servicing, maintenance, and repair are dictated by the inspection results.</td>
<td>Jun-10</td>
<td>Apr-03</td>
<td>Ongoing: The drywells are inspected by an outside drywell contractor annually so that all drywells receive maintenance and repair based on inspection results.</td>
</tr>
<tr>
<td>Post-Construction Runoff Control</td>
<td>Require that contractors institute long-term O&amp;M BMPs.</td>
<td>University will notify contractors to continue maintenance and repair BMPs until Notice of Termination (NOT) is received by ADEQ, and will require a copy of the NOT.</td>
<td>Jun-10</td>
<td>Apr-03</td>
<td>Ongoing: Contractors are apprised both at the beginning and toward the end of projects about long term maintenance requirements and reminded to file a copy of the NOT with ASU upon receipt of the NOT by ADEQ.</td>
</tr>
<tr>
<td>Pollution Prevention/Good Housekeeping</td>
<td>Develop a Pollution Prevention Plan (P3) to address storage of materials, proper material handling and drainage, drywell cleaning procedures, and safety/environmental inspections.</td>
<td>CPMG will review current applicable documents and procedures. The initial meeting will determine what further meetings are necessary.</td>
<td>Jun-10</td>
<td>Jan-04</td>
<td>Ongoing: ASU has updated its policies for structural and non-structural control measures associated with the construction activity conducted on campus. ASU meets regularly (at least annually) to review its documents and procedures for Pollution Prevention/Good Housekeeping. CPMG is currently developing a stormwater specific P3.</td>
</tr>
<tr>
<td>Pollution Prevention/Good Housekeeping</td>
<td>Develop a P3 to address storage of materials, proper material handling and drainage, drywell cleaning procedures, and safety/environmental inspections.</td>
<td>An initial training will be scheduled for new staff. Refresher training will occur on an annual basis. New employees will be trained, along with training on safety and other aspects of the EH&amp;S Hazardous Waste P3.</td>
<td>Jun-10</td>
<td>May-06</td>
<td>Ongoing: EH&amp;S has developed initial training and annual refresher programs. Drywells are inspected, maintained, and repaired annually. EH&amp;S also conducts regularly scheduled Hazardous Waste Management training. Training schedules are available online at: <a href="http://cfo.asu.edu/ehs">http://cfo.asu.edu/ehs</a>.</td>
</tr>
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</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>Develop a P3 to address storage of materials, proper material handling and drainage, drywell cleaning procedures, and safety/environmental inspections.</td>
<td>Several drywells have been installed, and the condition of existing wells is inspected annually.</td>
<td>Jun-10</td>
<td>Mar-03</td>
<td><strong>Ongoing:</strong> The inspection process is in place. Drywells continue to be installed with new construction. An outside consultant inspects drywells annually and cleans, repairs, and maintains them on an as-needed basis.</td>
</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>ASU will identify streets needing drainage repair and will incorporate water-quality improvements into new drainage designs per the Master Drainage Plan.</td>
<td>ASU Grounds Services will be asked to assess drainage system for oil, grease, odor, algae growth, and trash and to provide EH&amp;S with information on problematic issues.</td>
<td>Jun-10</td>
<td>Jun-03</td>
<td><strong>Ongoing:</strong> Drainage is assessed in the course of routine inspections. Street and driveway pooling issues were identified at the intersection of Apache and McAllister and at Gammage Auditorium, respectively. In each case, the issue was corrected. Storm drainage issues are corrected as they are identified.</td>
</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>ASU will identify streets needing drainage repair and will incorporate water-quality improvements into new drainage designs per the Master Drainage Plan.</td>
<td>University departments will work together to address existing and planned drainage systems per the Stormwater Master Plan and Master Drainage Plan.</td>
<td>Jun-10</td>
<td>Feb-05</td>
<td><strong>Ongoing:</strong> University departments are collaborating to address existing and planned (new construction) drainage systems per the completed SWMP and Master Drainage Plan. Meetings to collaborate are at least quarterly.</td>
</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>Parking lots and storage yards will be monitored for oil and grease runoff.</td>
<td>Staff will qualitatively monitor oil and grease sheens on parking lots and storage yards, and make recommendations to the CPMG Director regarding possible upgrades.</td>
<td>Jun-10</td>
<td>May-06</td>
<td><strong>Ongoing:</strong> Parking &amp; Transit Services monitor University parking lots for the presence of material and/or liquid that may adversely impact the campus stormwater system throughout the year in the course of routine duties.</td>
</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>Parking lots and storage yards will be monitored for oil and grease runoff.</td>
<td>CPMG will investigate potential system upgrades as appropriate.</td>
<td>Jun-10</td>
<td>Jan-07</td>
<td><strong>Ongoing:</strong> ASU’s Ground Services reports any evidence of illicit discharge to EH&amp;S. Currently there is an oil/water separator at vehicle washing facilities located at the Grounds Services storage area and at the University Services Building rear parking area.</td>
</tr>
<tr>
<td><strong>Pollution Prevention/Good Housekeeping</strong></td>
<td>Parking lots and storage yards will be monitored for oil and grease runoff.</td>
<td>Incorporate any BMPs for road maintenance into the P3 and associated training.</td>
<td>Jun-10</td>
<td>May-06</td>
<td><strong>Ongoing:</strong> Training and information has been given to the Parking &amp; Transit staff who now implement BMPs during routine maintenance and inspections.</td>
</tr>
</tbody>
</table>
| Minimum Control Measure(s) | BMP | Measurable Goal | New or Revised | Start Date | Implementation Status/Frequency/Achievement Date  
(100% complete, in progress, not started) |
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<tbody>
<tr>
<td>Pollution Prevention/Good Housekeeping</td>
<td>ASU will use existing waste disposal services to remove waste. Floatables and other debris collected on site, and as part of drainage clean-up efforts, will be taken to dumpsters that are served by ASU’s waste disposal services.</td>
<td>As part of the illicit discharge detection efforts, maintenance staff will remove floatable material. These personnel will be educated in proper methods for disposal of floatables and other waste materials. Floatable material will be removed in conjunction with routine grounds maintenance activities.</td>
<td>Jun-10</td>
<td>Sep-04</td>
<td>Ongoing: Appropriate staff has been trained in proper waste-handling protocols and procedures. Floatable material and debris is typically placed in trash dumpsters serviced by University contractors. The material is transported off site for disposal at a licensed landfill.</td>
</tr>
</tbody>
</table>

*In accordance with the SWMP, ASU continually monitors internal policies for opportunities to strengthen its Stormwater Management Program. Policies adopted or modified in previous years are noted within this report and are available on the Stormwater webpage.*
5.0 CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [Signature]
Date: 3-15-11

Ms. Diane Rowley
Name (printed)

Associate Director, Capital Programs Management Group
Title
APPENDIX A

2011 REVISED NOTICE OF INTENT
NOTICE OF INTENT (NOI) FOR COVERAGE
under AZPDES Permit No. AZG2002-002 for
Discharges from Small MS4s to Waters of the United States

CHECK AS APPLICABLE: NEW NOI _____ REVISED NOI ✓
IF A REVISION, PROVIDE PRIOR AUTHORIZATION NO.
MS4 2002-002, 003, 004

Applicant is:
____ Federal ✓ State
____ Other, ______

PERMITTEE (Agency Responsible for the Discharge)
Applicant's Name: Diane L. Rowley Phone: (480) 965-7075
Applicant's Mailing Address: Arizona State University, PO Box 875512
City: Tempe, AZ Zip Code: 85287-5512

CONTACT PERSON
Name: Diane L. Rowley Phone: (480) 965-7075
E-mail Address: diane.rowley@asu.edu Fax: (480) 965-5926
Contact Person's Agency and Title: Arizona State University, CPMG Associate Director

LOCATION INFORMATION - ARIZONA STATE UNIVERSITY, Tempe campus
Name of Urbanized Area where the MS4 is located: Tempe, Arizona
Name of county(ies) where the MS4 is located: Maricopa County
Provide the following information on the approximate center of the MS4:
Latitude: 33° 25' 2.67"
Longitude: 111° 56' 7.43"
Township: T1N Range: R4E Section: 22
Is any portion of the MS4 located in Indian Country? No ✓ Yes ___ If yes, name
Does any portion of the MS4 service a population within Indian Country? No ✓ Yes ___
If yes, how many people within the Indian Country are served by your MS4?
Name(s) of neighboring Tribes/Counties/Cities/Towns (places that share borders with the permittee):

Small MS4 Notice of Intent
LOCATION INFORMATION - ARIZONA STATE UNIVERSITY, Polytechnic campus

Name of Urbanized Area where the MS4 is located: Mesa, Arizona

Name of county (ies) where the MS4 is located: Maricopa County

Provide the following information on the approximate center of the MS4:

Latitude: N33° 18’ 25.8” Longitude: W111° 40’ 41.9”

Township: T15 Range: R7E Section: 31

Is any portion of the MS4 located in Indian Country? Yes If yes, name: Gila River Indian Community

Does any portion of the MS4 service a population within Indian Country? No

If yes, how many people within the Indian Country are served by your MS4?

Name (s) of neighboring Tribes/Counties/Cities/Towns (places that share borders with the permittee):

Mesa  
Gila Indian River Community

LOCATION INFORMATION - ARIZONA STATE UNIVERSITY, West campus

Name of Urbanized Area where the MS4 is located: Phoenix, Arizona

Name of county (ies) where the MS4 is located: Maricopa County

Provide the following information on the approximate center of the MS4:

Latitude: N33° 36’ 29” Longitude: W112° 9’ 35.4”

Township: T3N Range: R2E Section: 16

Is any portion of the MS4 located in Indian Country? No If yes, name: 

Does any portion of the MS4 service a population within Indian Country? No

If yes, how many people within the Indian Country are served by your MS4?

Name (s) of neighboring Tribes/Counties/Cities/Towns (places that share borders with the permittee):

Glendale

___  ___  ___
WATERSHED INFORMATION
Name of Watershed: Middle Gila

Name of Receiving Water(s): Salt River-Tempe campus self contained, does not discharge
Is the Receiving Water a 303(d) Impaired Water? Yes No ✓

East Maricopa Floodway-Polytechnic campus
Yes No ✓

Aqua Fria River-West campus self contained, does not discharge
Yes No ✓

If any of the receiving waters are 303(d)-listed Impaired Waters, you must complete the impaired Water Information portion of this form.

IMPAIRED WATERS INFORMATION
If you indicated that any of the receiving waters to which you discharge are listed as a 303(d) Impaired Water, please answer the following questions.

Is there a Total Maximum Daily Load (TMDL) for the 303(d) Impaired Water? Yes Proceed to Part A No Proceed to Part B

Part A. Does the TMDL prescribe a wasteload allocation to stormwater discharge from your MS4? Yes Check the box below No Proceed to Part B

I certify that the SWMP identifies specific BMPs that will be used to meet wasteload allocations. I also certify that I will monitor for pollutants for which my MS4 is assigned a wasteload allocation.

Part B. Check the box below if the MS4 has the potential to discharge the pollutants identified on the 303(d) list.

I certify that the description of the SWMP addresses specific BMPs for reducing the discharge of 303(d)-listed pollutants.

ADDITIONAL INFORMATION
This NOI must include the following attachments prepared as specified in Part III of the general permit.

✓ A description of your Stormwater Management Program.

Has another governmental entity agreed to satisfy any of your permit obligations? Yes If yes, check the boxes below No ✓

The agreement is explained in the description of your Stormwater Management Program.

Written documentation of your agreement is included as an attachment.

CERTIFICATION
This certification must be signed by the appropriate party as specified in this general permit Part VI.L.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. In addition I certify that the permittee will comply with all terms and conditions stipulated in General Permit No. AZG2002-002 issued by the Director."

Printed Name of Applicant's Representative: Diane Rowley
Title: Associate Director

Signature of Applicant's Representative: [Signature]
Date: 3-11-11

Small MS4 Notice of Intent Page 3 of 3
ATTACHMENT 1

TEMPE CAMPUS
ATTACHMENT 1. Tempe campus (Presented with Permission from ASU).
ATTACHMENT 2

POLYTECHNIC CAMPUS
ATTACHMENT 3

WEST CAMPUS