

CITY OF SEDONA

STORMWATER MANAGEMENT PROGRAM

(March 2017)



CITY OF SEDONA

102 Roadrunner Drive
Sedona, Arizona 86336

STORMWATER MANAGEMENT PROGRAM

FOR

CITY OF SEDONA, ARIZONA

in support of the

NOTICE OF INTENT

Submitted to the

STATE OF ARIZONA

DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

WATER PERMITS SECTION

PHOENIX, ARIZONA 85012-2809

ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR DISCHARGE AZG2016-002
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)

Located in the Incorporated Area of City of Sedona

March 2017

Prepared by:

**CITY OF SEDONA PUBLIC WORKS DEPARTMENT
102 Roadrunner Drive
Sedona, AZ 86336**

**CITY OF SEDONA
STORMWATER MANAGEMENT PROGRAM**

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ATTACHMENTS

Attachment A	AZPDES General Permit Number AZG2016-002
Attachment B	Notice of Intent
Attachment C	Jurisdictional Boundary Map
Attachment D	Existing Land Use Map
Attachment E	Storm Sewer System Map
Attachment F	SWMP Modification Log

ABBREVIATIONS / ACRONYMS

AAC	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
AZPDES	Arizona Pollutant Discharge Elimination System
BMP	Best management practice
CFR	Code of Federal Regulations
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
MCM	Minimum Control Measure
MEP	maximum extent practicable
MS4	municipal separate storm sewer system
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
SAP	Sampling and Analyses Plan
SWMP	Storm Water Management Plan (also referred to as a Storm Water Management Program)
TMDL	Total Maximum Daily Load

EXECUTIVE SUMMARY

This Storm Water Management Plan (also referred to as a Storm Water Management Program [SWMP]) has been prepared by the City of Sedona (City) as required by the Arizona Department of Environmental Quality's (ADEQ) Arizona Pollutant Discharge Elimination System (AZPDES) General Permit Number AZG2016-002 (Permit). The Permit was issued on September 29, 2016 and became effective on September 30, 2016.

The SWMP describes the policies and procedures the City will implement to reduce, to the maximum extent practicable (MEP), pollutant discharges to and from the small municipal separate storm sewer system (MS4). The overall goal of the program is to ensure to the MEP that discharges from the MS4 do not cause or contribute to exceedances of surface water quality standards.

As required by the Permit, the SWMP addresses the six minimum control measures (MCMs):

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination Program
4. Construction Activity Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

The SWMP is designed to be a comprehensive program document outlining how the stormwater program is implemented and maintained; therefore, additional sections have been added to describe other Permit-required support activities, including Analytical Monitoring, SWMP Evaluation and Revision, Reporting, and Signatory Requirements.

The SWMP describes the best management practices (BMPs) the City implements and also describes the overall planned approach to stormwater pollution prevention. This SWMP addresses the requirements of the Permit and reflects the needs and constraints of the City.

The SWMP complies with the requirements specified in Code of Federal Regulations (CFR) Chapter 40 Part 122.32, incorporated by reference in Arizona Administrative Code (AAC) R18-9-A902 and A905. The SWMP has been prepared to meet the requirements identified in the Permit and is certified according to Permit Section 9.9.

1.0 CERTIFICATION STATEMENT

Permittee Name: City of Sedona

Permit Number: AZG2016-002

Stormwater Management Program

Contact:

Name: J. Andy Dickey, P.E.

Title: Director of Public Works/City Engineer

Certifying Official:

Name: J. Andy Dickey, P.E.

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



J. Andy Dickey, P.E.

5/9/17

Date

2.0 INTRODUCTION

This SWMP is the primary document describing the City's programs and procedures for compliance with the Arizona Department of Environmental Quality's (ADEQ's) general permit (AZG2016-002) for the discharges of stormwater from the City's Municipal Separate Storm Sewer System (MS4). A copy of the Permit is included in Attachment A. The City desires to discharge under that permit and thus has submitted the Notice of Intent (NOI) and prepared and implemented this SWMP in accordance with Section 5.0 of the permit. The submitted NOI is included as Attachment B.

This SWMP addresses stormwater runoff and discharges located within the City and were developed to serve as a comprehensive management tool to protect stormwater quality. The goal of this SWMP is the protection of the City's surface water bodies through compliance with the Arizona Pollutant Discharge Elimination System (AZPDES) MS4 program requirements. This SWMP generally follows the format provided by the Permit in Section 6.4.

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Activity Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

The City has previously established a stormwater ordinance that satisfies the requirements of Permit Section 3.2 to control pollutant discharges into its MS4.

2.1. REGULATORY BACKGROUND

In response to concern over the pollution in America's waterways, Congress passed the Clean Water Act (CWA) in 1972. The CWA is the primary federal law that protects our nation's surface water bodies or waters of the United States. Polluted stormwater runoff was addressed specifically under the CWA by a two-phase program that relies on the National Pollutant Discharge Elimination System (NPDES) permit coverage. The two phases of the NPDES stormwater program are known as Phase I and Phase II.

In 1990 the Environmental Protection Agency (EPA) implemented Phase I of the NPDES stormwater program, under the CWA. Phase I addressed the prevention of pollution from stormwater runoff from medium and large MS4s (serving populations over 100,000), construction activities disturbing 5 acres of land or greater, and 10 categories of industrial activities.

To expand the protection of water bodies and promote cleaner water, the Phase II Final Rule was published in 40 CFR on December 8, 1999. This rule extends the NPDES permit coverage to include small MS4s serving urbanized areas (a residential population of at least

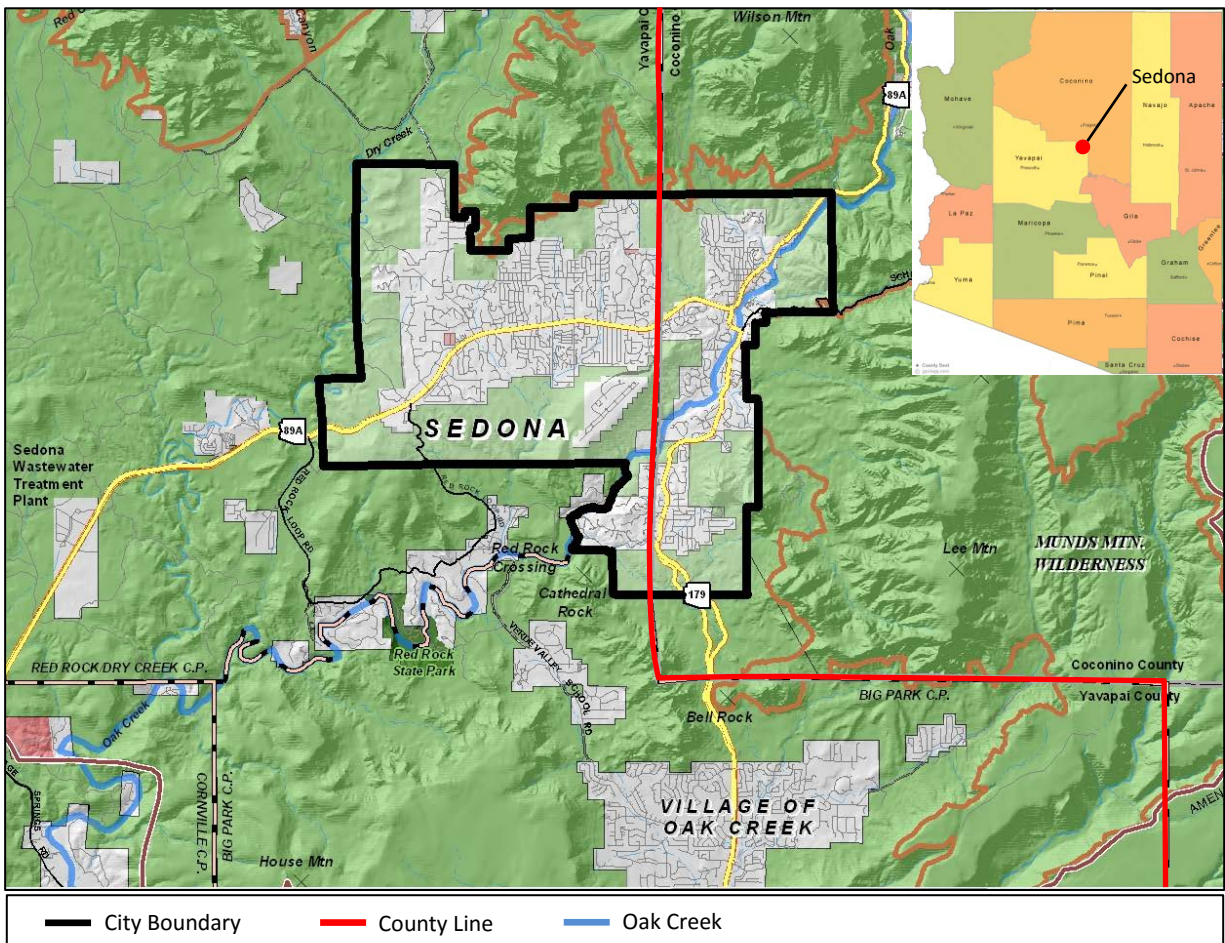
50,000 and an overall density of at least 1,000 people per square mile), as well as that from small construction activities.

The goals of the Phase II Final Rule are similar to the Phase I program, which are to reduce the discharge of pollutants to the MEP, protect water quality, and satisfy the water quality requirements of the CWA.

The City submitted its original NOI application, prior to the March 10, 2003 deadline, to the ADEQ, which has primacy over the NPDES program in Arizona through their AZPDES program. By submitting the NOI, the Town effectively applied for coverage under the Permit No. AZG2002-002. The original SWMP dated February 2003 was submitted with the NOI as part of the general permit requirements.

2.2. GEOGRAPHIC SETTING

The City of Sedona is located within the Upper Sonoran Desert of northern Arizona at an elevation of 4,500 feet above mean sea level as shown in the figure below and a Jurisdictional Boundary Map is in Attachment C. The City is located within both Coconino and Yavapai Counties with a total area consisting of 19.2 square miles and a population of just over 10,000 residents.



Two major state highways converge within the City along its eastern boundary. State Route 179 passes in a north-south direction through the eastern part of Sedona, to its intersection with State Route 89A. State Route 89A passes through Sedona in an east-west direction.

Areas in the incorporated boundaries not covered under this Permit are: State Highway Route 179, and Sedona Airport. A portion of State Route 89A northeasterly of the intersection with State Route 179 has been conveyed to the City of Sedona and is covered by this permit; other portions of State Route 89A are excluded. Additional exclusions from this permit are all private roads and private commercial and residential development not connected to a City owned and operated stormwater collection and conveyance system, and other development or areas required to be under its own Pollution Discharge Elimination System permit (AZPDES or NPDES). An Existing Land Use Map is provided in Attachment D.

2.3. RECEIVING WATERS

Oak Creek is located within the eastern portion of the City and is designated as a Unique Arizona Waterway (UAW). Oak Creek is also identified as non-attaining for *Escherichia coli* (E. Coli). A Total Maximum Daily Load (TMDL) for E. Coli was established in 2010 for Oak Creek. A TMDL is defined as a calculation of the maximum amount of a pollutant that a waterbody can receive and still safely meet water quality standards. The City of Sedona is fully within the Oak Creek watershed. In addition to the flows from the City boundary area, water from much of the western portions of Sedona passes beyond the City boundary and through Forest Service lands prior to reaching Oak Creek.

2.4. STORM DRAIN SYSTEM AND OUTFALLS

The City's storm drain system is primarily within its urbanized core and is composed mainly of culverts, roadside drainage ditches, and washes. There are a few large drainage channels. The sequence of flow is generally overland to roadside ditches then to culverts and then into either washes or drainage channels. The drainage channels outlet into washes. Washes are defined as unimproved natural drainage ways. Drainage channels are defined as intentionally designed drainage ways that are not natural in either their shape or location. An existing Storm Sewer System Map is provided in Appendix E.

2.5. SWMP IMPLEMENTATION

Overall responsibility for administering the Permit and SWMP will be within the Public Works Department. However, implementing the SWMP requires participation from multiple departments throughout the City. The responsibilities for each department as well as the title of the responsible person(s) are provided in Section 3. This document is meant to be a living document and as departments, responsibilities, personnel, or any other procedures/practices change within the City, this information will be updated accordingly. Changes to the SWMP are documented in the SWMP Modification Log provided in Attachment F.

2.6. PROGRAM COVERAGE AND JURISDICTIONAL AREAS

Coverage under ADEQ's general permit AZG2016-002 is applicable only to the incorporated boundaries of the City of Sedona as shown on the figure in Section 2.2 and in Attachment C. This Permit application covers only stormwater collection systems and networks. It does not include stormwater discharges associated with industrial activity as defined in 40 CFR 122.26(b)(14)(I)-(xi). It does not include stormwater discharges associated with construction activity as defined in 40 CFR 122.26 (b)(14)(x) or 40 CFR 122.26 (b)(15). This permit does not include separate storm sewers in discrete areas, such as individual buildings, or discharges covered under other AZPDES programs.

The City of Sedona has determined that the following discharges are not significant contributors of pollutants to its municipal MS4, and are considered allowable Non-Stormwater Discharges:

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated ground water infiltration
- f. Uncontaminated pumped groundwater
- g. Discharges from potable water sources
- h. Foundation drains
- i. Air conditioning condensate
- j. Irrigation water
- k. Springs
- l. Water from crawl space pumps
- m. Footing drains
- n. Lawn watering
- o. Individual residential car washing
- p. Discharges from riparian habitats and wetlands
- q. De-chlorinated swimming pool and spa discharges
- r. Street wash water, and
- s. Discharges of flows from emergency firefighting activities

Unless explicitly specified otherwise in the SWMP, all actions proposed to be undertaken exclusively apply to the designated urbanized areas only. Actions taken beyond these geographic bounds are done so at the discretion of the City of Sedona. The City intends to fully implement the conditions in this SWMP.

3.0 CONTROL MEASURES AND RESPONSIBILITIES

The City has established six (6) required minimum control measures (MCM) to assist in reducing discharge of pollutants to the maximum extent practicable (MEP) to protect water quality. These control measures include:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Activity Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

Tables detailing each minimum control measure are provided in the following sections. The table below identifies the personnel/department responsible for the various control measures:

NAME	TITLE	DEPARTMENT	CONTROL MEASURE RESPONSIBILITY
J. Andy Dickey	Director of Public Works/City Engineer	Public Works	4,5,6
Stephen Craver	Engineering Supervisor	Public Works	4
David Peck	Associate Engineer	Public Works	1,2,3,4,5,6
Michael Righi	Assistant Engineer	Public Works	1,2,3,4,5,6
Pete Garcia	City Maintenance Supervisor	Public Works	3,6
Glenn Sharshon	Senior Code Enforcement Officer	Community Development (Code Enforcement)	3
Robert Pickels	City Attorney	City Attorney	3,4,5

3.1. PUBLIC EDUCATION AND OUTREACH

Goal: To implement an education program that includes educational goals on stormwater issues of significance within the City’s MS4. This program will focus on pollutants of concern for Oak Creek which is identified as a not-attaining and OAW. The ultimate objective of this public education program is to increase knowledge and change behavior of the public so that pollutants in stormwater are reduced. The City will modify any ineffective message or distribution technique as needed and document in each annual report the overall effectiveness of the education program.

Implementing Group: Public Works Department

MCM #1				
Public Education and Outreach – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices/Department (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Research	Conduct research and update the City’s stormwater web page. Public Works Department	City Staff will contact agencies to get information and/or review web pages at least on a semiannual basis to get most up-to-date information. Evaluate websites/other information semi-annually.	06/17	Semi-Annual
Webpage	Maintain and update stormwater webpage. Public Works Department.	The City will update its stormwater web page semi-annually. The webpage will provide information to the public and contractors. The City will track the number of individual page views annually.	03/17	Semi-Annual
Article	The City will make press releases to disseminate public information regarding stormwater and stormwater related news and events. This may include brochures, radio, city website, and local newspapers. Public Works Department	Notifications related to stormwater and related events will be made to the public (i.e. Christmas Tree recycling, pre-monsoon inspection notification, public comment of Stormwater Management Program, and other public notices). Target audience is general public. Conducted three times annually.	03/17	Three Times Annually
Special Event	Present stormwater information and/or updates to City leadership staff and/or public Public Works Department	Update the City’s Department Heads annually concerning the stormwater program and/or present stormwater update to public at a City Council meeting. Conduct annually.	06/17	12/17

MCM #1				
Public Education and Outreach – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices/Department (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Display/ Posters	Tributary Signage Public Works Department	Maintain tributary signs that state "Sedona's Stormwater Keep it Clean". Target audience is the public. Sign maintenance and inventory to be performed annually.	01/17	Annually
Speakers Bureau	Use of Speakers Bureau Public Works Department	The City will provide a link on its stormwater webpage for local organizations/groups to request a speaker on a variety of topics to include stormwater. This 'speakers bureau' will provide the public with a method to bring citizen groups, school groups and other activity groups together with the City to provide information regarding stormwater. This will occur on an as requested basis.	04/17	As Requested

3.2. PUBLIC INVOLVEMENT AND PARTICIPATION

Goal: To provide opportunities to engage the public to participate in the review and implementation of the City’s SWMP.

Implementing Group: Public Works Department

MCM #2				
Public Involvement and Participation – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Public Involvement	Develop and present stormwater pollution prevention information on televisions within City building(s). Public Works Department	Provide stormwater related information on televisions within reception areas of select City buildings. Information will relate to stormwater pollution prevention issues. Stormwater related information will loop periodically each month with other City information on television screens.	06/17	Monthly
Public Involvement	Look for City outreach and educational opportunities for the public and contractors, including public comment and reporting opportunities. Public Works Department	The City’s stormwater website will target public and contractors. The website will be updated semi-annually and reviewed annually. The City will add an email link for the public to provide comment. The public may also submit stormwater related complaints through the website. The City will investigate and respond accordingly to the status of the investigation within 30 days. Records of comments and responses will be retained for 2 years. The City will post the NOI and SWMP on its stormwater webpage and post the annual MS4 Report as they are submitted and approved by ADEQ.	12/17	Semi-Annual

MCM #2				
Public Involvement and Participation – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Public Involvement	Develop an inlet curb marker program. Public Works Department	Signage and markers near curb inlets will be installed and maintained/inspected annually. Will target public awareness.	12/17	Annually
Public Participation	Develop a Trash Collection/Recycling Program. Public Works Department	The City will work with Sedona Recycles to develop a program encouraging those dropping off recycled material to pick-up material around the site that is wind-blown or fell out of containers. Success of this effort will be posting of signs encouraging the volunteer action and a noticeably cleaner area. Each year the City will participate in at least 2 trash pick-up events. The City may or may not be the sponsor, but it will be a participant. Material regarding prevention of stormwater pollution, and proper places to dispose of hazardous waste and green waste will be provided. Success of the event will be measured by turnout. The goal is to have at least 5 people volunteer for each event.	12/17	Annually
Public Participation	Maintain the pet waste collection program. Public Works Department	The City will maintain the existing pet waste stations and continue the pet waste collection program. This program targets the public by enhancing awareness and encouraging participation. The program is conducted throughout the year. Program evaluation for effectiveness and opportunities for improvement will be conducted annually.	12/17	Annually
Public Participation	Develop program for collecting, maintaining, and processing public comments on the City's stormwater program. Public Works Department	Conduct a press release annually to request public comment and input regarding stormwater quality issues within the City. Comments received will be responded to within 30 days. Records of comments and responses will be retained for 2 years.	07/17	Annually

3.3. ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

Goal: To develop, implement, and enforce a program to systematically find and eliminate sources of non-stormwater into the City’s small MS4.

Implementing Group: Public Works Department, City Attorney’s Office and Community Development (Code Enforcement Division)

MCM #3				
Illicit Discharge Detection and Elimination Program – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Stormwater Sewer Mapping	Complete stormwater sewer mapping. Public Works Department	The City has completed 80% of the stormwater sewer system mapping to date. The remaining portion will be completed by June 2018 (100% complete).	03/17	06/18
Training	Develop and implement a dry/wet weather and analytical monitoring training program. Public Works Department	The City will conduct dry weather, wet weather and analytical monitoring training program. The training will be completed by September 2017 and annually thereafter, or as needed for new staff.	04/17	09/17
Written IDDE Procedures	Develop written IDDE procedures. Public Works Department	Develop IDDE written procedures that will assist in finding and eliminating sources of non-stormwater discharges. Written IDDE procedures will be re-evaluated on an annual basis for completeness or new issues, at a minimum.	03/17	09/17
Dry Weather Screening	Develop a dry weather monitoring program. Public Works Department	City staff will develop an inspection program to identify illicit discharges in the City. The program shall include dry weather monitoring of 20% of the identified outfalls per year and investigation within 15 days of identifying or being notified of a potential illicit discharge. Findings of the dry weather monitoring will be included in the annual report.	06/17	09/17

MCM #3				
Illicit Discharge Detection and Elimination Program – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Wet Weather Monitoring	Develop a wet weather monitoring program. Public Works Department	The City will develop and implement a wet weather monitoring program. This program will include two monitoring events in the winter season and two monitoring events in the summer season in response to a storm event that results in a discharge from the storm sewer system. The program will be fully implemented no later than June 1, 2017 and conducted annually.	03/17	06/17
Analytical Monitoring	Develop an analytical monitoring program. Public Works Department	The City will develop and implement an analytical monitoring program. This program will include two analytical monitoring events in the winter season and two in the summer season in response to a storm event that results in a discharge from the storm sewer system. The program will be fully implemented no later than June 1, 2017 and conducted annually.	03/17	06/17
Outfall Inventory	Complete Outfall Inventory. Public Works Department	The City will complete an inventory of its outfalls by June 2018.	06/17	06/18

3.4. CONSTRUCTION ACTIVITY STORMWATER RUNOFF CONTROL

Goal: To develop, implement, maintain and enforce a construction activity program stormwater runoff program to minimize or eliminate pollutant discharges to the MS4 from construction activities that will disturb one (1) or more acres of land, including sites less than one (1) acre that are part of a common plan of development or sale.

Implementing Group: Public Works Department and City Attorney’s Office

MCM #4				
Construction Activity Stormwater Runoff Control – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Training	Provide construction site stormwater training for City staff. Public Works Department and City Inspectors	Provide training for City staff, inspectors and interested local contractors annually.	09/17	Annually
Education/ Public Involvement	Construction BMP brochure distribution and Stormwater Construction General Permit. Public Works Department	Continue efforts to distribute brochures and various BMPs to contractors. Brochures to be sent out annually.	06/16	Annually
Enforcement	Continue to enforce construction site enforcement policies and procedures. Public Works Department	The City will continue enforcing its construction site requirements. Enforcement will include informing offending parties of the violation(s) and allowing an opportunity to respond and correct the issue. Escalation of enforcement will occur as necessary. Enforcement policies/procedures will be reviewed annually.	12/17	Annually
BMPs Erosion/ Sediment Control	Maintain list of construction site BMPs which are available on the City’s stormwater website. Public Works Department	The City will continue to maintain its list of preferred construction site BMPs which are available to contractors and available on the City’s stormwater website. The BMPs will be reviewed annually for effectiveness.	12/17	Annually

MCM #4				
Construction Activity Stormwater Runoff Control – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Inspections	Develop a Construction Site Inspection Program Public Works Department	Continue to implement and review construction site inspection program annually. During Construction, Capital Improvement Projects to be inspected biweekly, commercial developments to be inspected monthly and residential construction to be inspected intermittently.	12/17	On-going
Inventory	Develop a Construction and Post-Construction Permit Tracking Sheet Public Works Department	The City will develop a spreadsheet or database to keep an inventory of all construction activities that disturb or will disturb one (1) or more acres within the permitted area; including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.	12/17	Annually
Site Plan Review	Develop Site Plan Review Procedures. Public Works Department	Develop written procedures for site plan review. The site plan review shall include: a review by City staff of the site design; the planned operations at the location of the construction activity; planned stormwater controls to be used to manage runoff created after development.	12/17	04/18

3.5. POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Goal: To develop, implement, and enforce a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb one (1) or more acres of land or less than one (1) acre if part of a common plan of development that discharges in the City’s MS4.

Implementing Group: Public Works Department and City Attorney’s Office

MCM #5				
Post-Construction Stormwater Management in New Development and Redevelopment – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Enforcement	Maintain the post-construction enforcement policies and procedures. Public Works Department	Maintain and review enforcement policies and procedures to ensure they are in compliance with Land Development Code Section 8, and City Code Title 13. Review the policies and procedures annually.	12/17	Annually
Training	Develop and provide training for construction and post-construction stormwater pollution prevention. Public Works Department	Provide annual training to inspectors to assist in identification of stormwater violations. This training may include additional City staff and invited contractors. This is to be conducted annually.	12/17	Annually
Inspections	Develop post-construction site inspection program. Public Works Department	Public Works Department will conduct post-construction site inspections. All Capital Improvement Projects shall be inspected annually. Twenty (20) percent of commercial properties with documented post-construction BMPs will be inspected annually.	01/17	Annually
Inventory	Develop and maintain a construction and post-construction tracking spreadsheet or database. Public Works Department	The City will keep an inventory of all construction and post-construction activities that disturb or will disturb one (1) or more acres within the permitted area; including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.	12/17	On-going

MCM #5				
Post-Construction Stormwater Management in New Development and Redevelopment – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Runoff Control Assessment	Enforce and maintain existing program and policies for prevention of pollutant runoff from post-construction sites. Public Works Department	Public Works Department will conduct post-construction site inspections. All Capital Improvement Projects shall be inspected annually. Twenty (20) percent of commercial properties with documented post-construction BMPs inspected annually. Any discrepancies found will be required to bring post-construction BMPs and inspections up to date in accordance with submitted plan/BMPs.	01/17	Annually
Site Plan Reviews	Continue to implement site plan review policies and procedures for post-construction controls. Public Works Department	The City will continue to implement its procedures for post-construction site plan review. The site plan review shall include: a review by City staff of the site design; the planned operations at the location of the construction activity; planned stormwater controls to be used to manage runoff created after development.	08/17	On-going

3.6. POLLUTION PREVENTION AND GOOD HOUSEKEEPING

Goal: To develop, implement and maintain an operations and maintenance program that includes a training component with the ultimate goal of preventing or reducing pollutant runoff and protecting water quality from municipal facilities and activities.

Implementing Group: Public Works Department

MCM #6				
Pollution Prevention and Good Housekeeping – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Cleaning Inlets/ Basins	Develop program for inspecting and cleaning out City property catch basins. Public Works Department	During rainy season, the City Maintenance Division routinely inspects and cleans out catch basin grates that may be clogged with trash/debris. This is typically bi-annual to coincide with AZ's biannual rainy seasons in winter and summer months.	01/17	Bi-annual
Facility Prioritization	Develop a facility prioritization list for implementing and maintaining pollution prevention and good housekeeping measures. Public Works Department	Priority 1 – Maintenance yards Priority 2 – City Parking lots and catch basins Priority 3 – Public Streets/Highways	01/17	One time occurrence
Implement Controls	Develop an in-house inspection program. Public Works Department	Develop and enforce the operation and maintenance programs through an in-house inspection program.	01/17	Annually
Inspections	Develop inspection program and protocols for Capital Improvement Projects (CIPs). Public Works Department, and City Maintenance Division	Routinely inspect Capital Improvement Projects for compliance with their individual SWPPPs.	01/17	Annually

MCM #6				
Pollution Prevention and Good Housekeeping – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Inventory	Develop a tracking spreadsheet or database for City-wide pollution prevention and good housekeeping procedures. Public Works Department	Develop and maintain a spreadsheet/database to track inspection of City properties for pollution prevention, good housekeeping compliance.	12/17	Annually
O&M Procedures	Develop an operation and maintenance of oil-water separators and catch basins program. Public Works Department, City Maintenance Division	Develop and maintain procedures for the operation and maintenance of City owned oil-water separators and catch basins. Routinely inspect oil-water separators, catch basins and conduct annual maintenance of the oil-water separators, annually inspect catch basins and remove debris.	01/17	Annually
Reduce Trash/ Floatables	Develop a catch basin maintenance program for trash/floatables reduction pollution prevention. City Maintenance Division	Inspect and clean out catch basin grates that may be clogged with trash/debris. Will be conducted bi-annual to coincide with rainy seasons in winter and summer months.	01/17	Bi-Annual
Street Sweeping	Maintain a street sweeping program Public Works Department	Maintain the monthly sweeping of city parking lots. The oil/water separators at city parking lots and maintenance yards will be maintained annually. City streets, including State Routes 89A and 179, including bike lanes, will continue to be swept monthly. The goal each month is 20 lane miles.	01/17	Monthly
SWPPP	Develop SWPPP for each Capital Improvement Project. Public Works Department	SWPPPs are developed for each Capital Improvement Project (CIP). Frequency is as applicable projects are implemented.	01/17	On-going
Training	Provide training for pollution prevention and good housekeeping measures. Public Works Department	Provide annual training to City employees and inspectors. Select contractors may also be invited to the annual training events.	05/17	Annually

MCM #6 Pollution Prevention and Good Housekeeping – Best Management Practices and Measurable Goals				
BMP Category	Best Management Practices (BMPs)	Measurable Goals	Implementation	
			Start Date	Target Date
Written Procedures	Develop written procedures for pollution prevention and good housekeeping measures. Public Works Department	Develop written procedures and BMPs for pollution prevention and good housekeeping measures to be implemented, maintained, and inspected at applicable City facilities.	12/17	06/18

4.0 ANALYTICAL MONITORING & TMDL

The City will conduct analytical monitoring at five outfall points to Oak Creek which is identified as an Outstanding Arizona Water and as non-attaining for *Escherichia coli* (E. Coli). The purpose of the analytical monitoring is to:

- Assess the impacts to Oak Creek resulting from stormwater discharges from the MS4
- Characterize stormwater discharges
- Identify sources of elevated pollutant loads and specific pollutants
- Assess compliance with permit limitations, TMDL waste load allocation, and surface water quality standards
- Assess the overall health and evaluate long-term trends in the water quality of Oak Creek

A Sampling and Analyses Plan (SAP) will be developed to assist in proper collection and analyses of E. Coli in stormwater runoff from the City's MS4. The SAP will outline requirements for sample collection, equipment and containers, decontamination, calibration procedures, sample frequency (based on illicit discharge characteristics), document site conditions, field notes, sample preservation, tracking (chain-of-custody) and handling. The SAP will also identify the applicable TMDL that has been established for Oak Creek and the City's waste load allocation. Section 3 of this document has been designed to achieve compliance with the applicable TMDL with each control measure having an associated measure of assessment for the protection of stormwater water quality.

4.1. MONITORING SCHEDULE

The City will fully implement its analytical monitoring requirements by June 1, 2017. Analytical monitoring will be conducted twice per wet season for the entire permit term. Wet seasons are defined as follows:

- Summer wet season: June 1 – October 31
- Winter wet season: November 1 – May 31

In areas like Sedona where freezing conditions exist, the required monitoring and sample collection may be distributed during seasons when precipitation runoff, either as melting snow or rain mixed with melting snow, occurs.

4.2. TRACKING AND REPORTING

The City will track and report the required analytical monitoring data as required in the Permit. Additionally, the City will submit monitoring results (analytical and visual) on a Discharge Monitoring Report (DMR) to the ADEQ (electronic or paper format). A record of each monitoring event will also be maintained to include:

- Date, exact location, and time of sampling or measurements
- Initials or name(s) of the individual(s) who performed the sampling or measurements
- Date(s) analyses were performed
- Time(s) analyses were initiated

5.0 PROGRAM ASSESSMENT, RECORDKEEPING, AND REPORTING

The City will conduct a program assessment, recordkeeping and reporting in accordance with Permit requirements.

5.1. PROGRAM EVALUATION

The City will annually self-evaluate its compliance with the terms and conditions of the Permit and maintain the annual evaluation documentation as part of the SWMP. The evaluation will include the appropriateness of its selected BMPs in achieving the objectives of each control measure and its defined measurable goals. If a BMP is determined to be ineffective the City may replace it with an alternative BMP in accordance with Permit criteria. Should a BMP be replaced the City will include the following information in the SWMP:

- Analysis of why the BMP is ineffective or infeasible
- Expectations on the effectiveness of the replacement BMP
- Analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced

Any BMP changes or modifications will be discussed in the Annual Report.

5.2. RECORDKEEPING

The City will keep all records required by the Permit for a period of at least three (3) years. Records include information used in the development of any written program required by this permit, any monitoring results, copies of reports, records of screening, follow-up and elimination of illicit discharges; maintenance records; inspection records; enforcement actions; and data used in the development of the notice of intent, SWMP, plans, and annual reports. Additional records will include Discharge Monitoring Reports and the Annual Report.

5.3. REPORTING

The City will submit an annual report each year of the permit term to ADEQ. The reporting period is from July 1 through June 30 each year. The annual report is due to ADEQ on or before September 30 each year for the reporting period. The annual reports will include the following information:

- Status of compliance with the permit terms and conditions
- Updates regarding mapping requirements (see Part 4.1), including percent complete
- Assessment of the progress towards achieving the measurable goals and objectives of each control measure
- Description of the activities used to promote public participation
- Description of the activities related to implementation of the IDDE program
- Outfall screening and monitoring data

- Identification of all discharges determined to be causing or contributing to an exceedance of water quality standards and description of response
- BMPs used to address the pollutant identified as the cause of the impairment and assessment of the BMPs effectiveness at controlling the pollutant
- Status of the construction runoff management
- Status of stormwater management for new development and redevelopment
- Status of the operation and maintenance programs
- Description of any changes in identified BMPs or measurable goals
- Any additional reporting requirements as per the Permit conditions
- Description of activities to be conducted during the next reporting cycle

ATTACHMENT A
AZPDES General Permit Number AZG2016-002

PERMIT NO. AZG2016-002

STATE OF ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PHOENIX, ARIZONA 85007

ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR STORMWATER DISCHARGES
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
TO WATERS OF THE UNITED STATES

This permit provides authorization to discharge under the Arizona Pollutant Discharge Elimination System (AZPDES) program, in compliance with the provisions of the Arizona Revised Statutes (A.R.S) and, Title 49, Chapter 2, Article 3.1, the Arizona Administrative Code (A.C.C.), and Title 18, Chapter 9, Article 9.

This general permit specifically authorizes stormwater discharges from small municipal separate storm sewer systems (MS4s) in Arizona to Waters of the United States, pursuant to 40 CFR § 122.34. All discharges authorized by this general permit shall be consistent with the terms and conditions of this general permit.

This general permit becomes effective on September 30, 2016.

This general permit and the authorization to discharge expires at midnight, September 29, 2021.

Signed this 29th day of September, 2016.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Trevor Baggione, Director
Water Quality Division

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1.0 COVERAGE UNDER THIS GENERAL PERMIT

1.1 Permit Area

This permit covers and applies to traditional and non-traditional regulated, Small Municipal Separate Storm Sewer Systems (MS4s) in Arizona, except those located in Indian Country:

- a. City or Town – Urbanized area(s) determined by the most recent Decennial Census by the Bureau of Census, including areas annexed during the permit term;
- b. County – Un-incorporated urbanized area determined by the most recent Decennial Census by the Bureau of Census;
- c. State, federal, and other publicly-owned properties that the director determines contributes to a violation of a water quality standard or is a significant contributor of pollutants to Waters of the U.S. and
- d. Areas outside of an urbanized area as designated by the director pursuant to Arizona Administrative Code (A.A.C.) R18-9-A902(D).

1.2 Eligibility

This permit authorizes the discharge of stormwater from small municipal separate storm sewer systems (MS4s) provided the permittee complies with all the requirements of this general permit, and the MS4:

- a. Is located fully or partially within an urbanized area as determined by the latest Decennial Census by the Bureau of Census; or
- b. Is designated for permit authorization by the department under the A.A.C. R-18-9-A902(D)(1), R18-9-A902(D)(2), R-18-9-A902(E), and R18-9-A905(A)(1)(f) which incorporates 40 CFR §122.32.

1.3 Non-Stormwater Discharges

1.3.1 Except as provided in Part 1.3.2, the permittee shall prohibit non-stormwater discharges into its MS4 unless the discharges are authorized by a separate NPDES or AZPDES permit.

1.3.2 The following categories of non-stormwater discharges (occurring within the jurisdiction of the permittee) are prohibited if the discharges are identified by the permittee as significant contributors of pollutants to the MS4. If any of the following categories of discharges are identified as a significant contributor, the permittee must address the category as an illicit discharge as specified in Part 6.4.3.1:

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated ground water infiltration
- f. Uncontaminated pumped groundwater
- g. Discharges from potable water sources
- h. Foundation drains
- i. Air conditioning condensate
- j. Irrigation water

- k. Springs
- l. Water from crawl space pumps
- m. Footing drains
- n. Lawn watering
- o. Individual residential car washing
- p. Discharges from riparian habitats and wetlands
- q. Dechlorinated swimming pool discharges
- r. Street wash water, and
- s. Discharges or flows from firefighting activities

1.4 Limitations of Coverage

Except as provided in Part 1.3.2, this general permit does not authorize:

- 1.4.1** Discharges mixed with sources of non-stormwater unless the non-stormwater discharges comply with an applicable NPDES or AZPDES permit, as addressed in Part 1.3.1;
- 1.4.2** Stormwater discharges associated with industrial activity as defined in 40 CFR §122.26(b)(14)(i)-(ix) and (xi);
- 1.4.3** Stormwater discharges associated with construction activity as defined in 40 CFR §122.26(b)(14)(x) or 40 CFR §122.26(b)(15);
- 1.4.4** Stormwater discharges currently covered under another permit;
- 1.4.5** Discharges to impaired waters listed (including not-attaining waters) if discharge(s) from the MS4 contain, or may contain, pollutant(s) for which the receiving water is listed except:
 - a. If a TMDL has been established and the stormwater management program (SWMP) is consistent with the requirements of the TMDL, including any wasteload allocation or load allocation in the TMDL. The SWMP must also identify Best Management Practices (BMPs) the permittee will use to meet wasteload allocations or load allocations and include monitoring for associated pollutant(s); and
 - b. If a TMDL has not been established and the SWMP includes a section describing how the program will control the discharge of 303(d) listed pollutants and ensure to the maximum extent practicable that discharges from the MS4 will not cause or contribute to exceedances of surface water quality standards. The SWMP must also identify BMPs the permittee will use to control discharges and include monitoring of their effectiveness.
- 1.4.6** Discharges that do not comply with Arizona's anti-degradation rule R18-11-107;
- 1.4.7** Stormwater discharges prohibited under 40 CFR §122.4.

1.5 Permit Compliance

Non-compliance with any requirement of this permit constitutes a violation of the permit and may result in an enforcement action, including injunctive relief and/or penalties under state and federal laws.

2.0 AUTHORIZATION UNDER THIS GENERAL PERMIT

Upon the effective date of this permit, existing and new permittees automatically have coverage under this permit for up to 180 days. Existing and new Small MS4 operators who wish to retain coverage under this permit must submit a complete and accurate Notice of Intent to ADEQ within 180 days of the effective date of this permit.

2.1 Obtaining Permit Coverage

2.1.1 A person seeking authorization to discharge under this general permit shall submit to the department a complete and accurate Notice of Intent (NOI) on a form provided by the department and includes, at a minimum, the following information:

- a. Name of MS4
- b. Operator name and title
- c. Mailing address
- d. Annual fee billing information
- e. Contact person
- f. Contact information
- g. Estimated population (based on most recent Decennial Census by the Bureau of Census)
- h. Receiving water(s) – those listed in A.A.C., Title 18, Chapter 11, Article 1, Appendix B
- i. The number of outfalls that discharge to a receiving water listed in A.A.C. R18-11, Appendix B
- j. Outfall, name or identification of outfalls required in “i,” above
- k. Identification of a minimum of five (5) outfalls (or screening points) to be included in the visual stormwater discharge monitoring program (Part 6.4.3.8)
- l. Identification of impaired and not-attaining waters that receive discharges from the MS4, including the pollutant(s) causing the impairment, total maximum daily load, and waste load allocation(s), as applicable
- m. Identification of Outstanding Arizona Waters that receive discharges from the MS4
- n. BMPs and measurable goals for each of the six (6) minimum control measures (MCMs) identified in Part 6.4
- o. Outfall name or identification of those outfalls to be utilized for analytical monitoring of stormwater discharges to impaired, not-attaining waters and Outstanding Arizona Waters
- p. Schedule for developing and implementing BMPs and associated program elements specified in this permit
- q. Proposal for alternative to visual stormwater discharge monitoring, if applicable (Part 6.4.3.8)
- r. Additional information specified in the NOI for ADEQ to determine eligibility under this permit.

2.1.2 Eligible persons wishing to retain coverage under this permit (existing and new MS4 operators) must submit a complete and accurate NOI to the department within 180 days of the effective date of this permit. Small MS4 operators notified after the effective date of this permit must submit a NOI within 180 days of receiving notification in writing by ADEQ that they are subject to permitting. Persons failing to submit a new NOI within the applicable timeframe will be considered discharging without a permit.

- 2.1.3** If the department notifies the applicant of deficiencies or inadequacies in any portion of the NOI, or requests additional information, the applicant must correct the deficient or inadequate portions and submit a revised NOI that addresses the deficiencies within seven (7) days of receiving notification.
- 2.1.4** The permittee must submit a revised NOI to the department within fifteen (15) days whenever there is a change of information (certifying official, mailing address, contact information, BMPs, measurable goals, etc.).
- 2.1.5** Notice of Intent forms submitted to ADEQ will be posted on the ADEQ website and made available for public comment. ADEQ may request additional information from the application based on public comments.

2.2 Permit Fees

Permittees are subject to fees established in A.A.C. R18-14-109. The department will issue an invoice annually to the permittee at the address identified on the NOI.

New permittees must submit the applicable fee with their NOI.

Existing permittees are not required to include the annual fee when submitting an NOI to obtain coverage under this permit.

2.3 Terminating Coverage

A permittee may terminate coverage under this general permit by submitting a notice of termination (NOT) on a form provided by the department. Authorization to discharge terminates at midnight on the day the NOT is received by the department.

If the operator does not obtain coverage under an alternate AZPDES permit that authorizes the discharge of stormwater prior to submitting the NOT, the operator will be considered discharging without a permit.

NOTs must be signed in accordance with Part 9.9 and must be submitted to the following address until such time as electronic submission is available:

Arizona Department of Environmental Quality
Surface Water Section (5415A-1)
1110 West Washington Street
Phoenix, AZ 85007

2.4 Coverage under an Individual Permit

Pursuant to A.A.C. R18-9-C902, a person may request, or be required by the director, to obtain coverage under an individual permit.

2.5 Continuation of this General Permit

If this permit is not reissued prior to the expiration date, it will be administratively continued in accordance with A.A.C. R18-9-C903 and remain in force and effect for discharges that were authorized prior to expiration.

If the MS4 operator does not submit a timely, complete, and accurate NOI requesting authorization to discharge under a reissued permit or a timely request for authorization under an individual or alternative general permit, authorization under this permit will terminate on the due date for the NOI under the reissued permit unless otherwise specified in the reissued permit.

3.0 STORMWATER PROGRAM ENFORCEMENT

3.1 Establish Enforcement Procedures

Within twenty-four (24) months from the effective date of this permit, existing and new permittees shall adopt and implement local ordinance(s) or other regulatory mechanism(s) that provide adequate enforcement procedures that satisfy the requirements of this permit to control pollutant discharges into its MS4.

3.2 Enforcement Requirements

If not already developed, the permittee must establish and exercise enforcement procedures to comply with this permit. To be considered adequate, enforcement procedures must, at a minimum, address the following:

- a. Prohibit and eliminate illicit connections and discharges to the MS4;
- b. Control the discharge of spills, and prohibit dumping or disposal of materials other than stormwater into the MS4;
- c. Require compliance with conditions in the permittee's ordinances, permits, contracts, or orders;
- d. Require owners/operators of construction activities, new or redeveloped land, and industrial and commercial facilities to minimize the discharge of pollutants to the MS4 through the installation, implementation, and maintenance of stormwater control measures;
- e. To the extent allowed under State law, the permittee must have methods to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance with local stormwater control ordinances/standards;
- f. The permittee must promptly require violators cease and desist illicit discharges or discharges of stormwater in violation of any ordinance or standard and/or cleanup and abate such discharges;
- g. To the extent allowable under State and federal law, the permittee must impose civil or criminal sanctions (including referral to a city or district attorney) and escalate corrective response, consistent with its enforcement response;
- h. Identify departments within the permittee's jurisdiction that conduct stormwater-related activities and their roles and responsibilities under this permit. Include an up-to-date organizational chart specifying these departments and key personnel positions;
- i. Identification of the local administrative and legal procedures and ordinances available to mandate compliance with stormwater-related ordinances and therefore with the conditions of this permit; and
- j. A description of how stormwater related-ordinances are implemented and appealed.

3.3 Enforcement Response Plan(s)

The permittee shall develop an enforcement response plan (ERP) that specifies how it will exercise its legal authority to comply with this permit. The ERP shall include a prioritization schedule that establishes escalated enforcement for non-compliance of illicit discharges and construction activities. In developing the ERP, the permittee shall include the following factors in prioritizing escalated enforcement: severity of non-compliance, repeated non-compliance, proximity to a receiving water or storm sewer system, and other appropriate factors. The ERP must be developed and implemented within twenty-four (24) months of obtaining permit coverage.

4.0 STORM SEWER SYSTEM MAPPING

The permittee must prepare and maintain an up-to-date map of the municipal separate storm sewer system. At a minimum, the map system must be sufficient in scope and detail to identify and isolate illicit discharges. The permittee is not required to submit storm sewer system mapping infrastructure to ADEQ unless specifically requested, and shall make mapping information available to ADEQ or EPA to assess permit compliance.

4.1 Develop a map that includes, at a minimum, the following components:

- a. Storm sewer system (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that are owned or operated by the permittee and convey stormwater to Waters of the U.S.),
- b. Location of all outfalls, and
- c. Name and location of all Waters of the U.S. that receive discharges from outfalls.

4.2 Existing permittees shall update map(s) within twelve (12) months from the effective date of this permit to include areas added as a result of the most recent Decennial Census (including annexed areas) and annually thereafter. Updates shall include mapping components identified in Section 4.1 above.

4.3 New permittees must include a mapping schedule in their NOI. The schedule must include how the permittee will conduct the mapping process, a timeline, measurable goals and estimated completion date(s). The permittee shall have its storm system mapped by the end of the fourth year of permit coverage.

4.4 The permittee must include a narrative description of the status of storm sewer system mapping, outfall mapping, and waters of the U.S. that receive discharges from the outfalls (including percent complete) in each annual report (see Part 8.3).

5.0 STORMWATER MANAGEMENT PROGRAM

The permittee shall develop, implement, and enforce a SWMP that is designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. The program shall be documented and available for review by ADEQ, U.S. EPA, and interested persons.

Existing permittees shall modify or update their existing SWMP to meet the terms and conditions of this permit within six (6) months of the effective date of this permit.

New permittees shall develop a SWMP that meets the conditions of this permit within one (1) year of the effective date of this permit.

At a minimum, all permittees must annually assess, evaluate, and update the BMPs and SWMP and incorporate any revisions necessary to maintain permit compliance. The annual SWMP review must occur in connection with preparing the annual report (see Parts 8.1 and 8.3).

5.1 Contents of the Stormwater Management Program

At a minimum, the SWMP shall contain the following:

- a. Listing of all receiving waters, their classification under the applicable state water quality standards, any impairment(s) and associated pollutant(s) of concern, applicable TMDLs and WLAs, and number of outfalls from the MS4 that discharge to each waterbody;
- b. The process and schedule for creating and maintaining an up-to-date map that includes, at a minimum, the storm sewer system, outfalls, and receiving waters;
- c. Listing of all discharges that cause or contribute to the exceedance of an applicable surface water quality standard;
- d. Description of any other practices to achieve compliance with Part 6.1 and 6.2;
- e. Description of practices to achieve compliance with Parts 6.3 and 6.4 (MEP and MCM requirements). For each permit condition identify:
 1. The personnel, position or department responsible for the measure,
 2. The BMPs for each control measure or permit requirement, and
 3. The measurable goal(s) for each BMP. Each measurable goal shall include milestones and timeframes for its implementation and have a quantity and/or quality associated with its endpoint. Each goal shall have a measure of assessment.
- f. Description of practices to achieve compliance with applicable TMDLs or waste load allocation, including measurable goal(s) for each BMP and corresponding milestones and timeframes. Each goal must have an associated measure of assessment;
- g. Analytical monitoring program for impaired or not-attaining waters, and for Outstanding Arizona Waters to ensure compliance with permit limitations, wasteload allocation(s), and surface water quality standards.

The analytical monitoring program shall include a Sampling and Analyses Plan (SAP) that includes the following minimum components: sample collection, equipment and containers, decontamination, calibration procedures, sample frequency (based on illicit discharge characteristics), document site conditions, field notes, sample preservation, tracking (chain-of-custody), and handling;

- h. Protocol for annual program evaluation (Part 8.1). Update annually and maintain copies; and
- i. Identification of personnel (department, position, etc.) responsible for program implementation.

5.2 Stormwater Management Plan Availability

The permittee shall retain a copy of the current SWMP required by this permit at the office or facility identified on the NOI and shall be available upon request by ADEQ or U.S. EPA, or their authorized representatives.

A copy of the most up-to-date SWMP shall be made available to the public during normal business hours and posted on the permittee's website.

6.0 EFFLUENT LIMITATIONS

The permittee shall develop, implement and enforce a program to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and the Arizona Surface Water Quality Standards.

6.1 Water Quality Based Effluent Limitations

Pursuant to Clean Water Act 402(p)(3)(B)(iii), this permit includes provisions to ensure that discharges from the permittee's small MS4 do not cause or contribute to an exceedance of surface water quality standards, in addition to requirements to reduce the discharge of pollutants to the maximum extent practicable.

6.2 Surface Water Quality Standards

The permittee shall implement the six (6) minimum control measures specified in Part 6.4 to the maximum extent practicable to protect water quality, and to satisfy water quality requirements of the Clean Water Act, including attainment of surface water quality standards.

If the permittee discovers, or is otherwise notified by ADEQ or U.S. EPA, that a discharge from the MS4 is causing or contributing to an exceedance of an applicable surface water quality standard, the permittee shall expand or better tailor its BMPs within the scope of the six (6) minimum control measures in Part 6.4 to achieve progress toward attainment of surface water quality standards.

To assure compliance with permit limitation, ADEQ may require the permittee to conduct analytical monitoring and will provide notice to the permittee in writing (see also Part 7).

6.3 Requirements to Reduce the Discharge of Pollutants

The permittee shall reduce the discharge of pollutants to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act by implementing the six (6) minimum control measures in part 6.4.

6.4 Minimum Control Measures

- a. Existing permittees shall continue to implement their existing SWMPs while making updates pursuant to this permit. This permit does not extend the compliance deadlines set forth in Permit AZG2002-002.
- b. Implementation of one (1) or more of the minimum control measures described in Parts 6.4.1 - 6.4.6 or other permit requirements may be shared with another entity (including another interconnected MS4) or the other entity may fully implement the measure or requirement, if the following requirements are satisfied:
 - The other entity implements the control measure as specified in the SWMP;
 - The particular control measure or component thereof undertaken by the other entity is at least as stringent as the corresponding permit requirement;
 - The other entity agrees to implement the control measure on the permittee's behalf. The annual report must specify that the permittee is relying on another entity to satisfy some of its permit obligations and specify what those obligations are;
 - The permittee remains responsible for compliance with all permit obligations if the other entity fails to implement the control measures (or component thereof). The permittee may enter into a legally-binding agreement with the other entity regarding the other entity's

performance of control measures, but the permittee remains ultimately responsible for permit compliance.

6.4.1 Public Education and Outreach

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The program shall include a focus on pollutants of concern for impaired and TMDL waters, and priority waters that receive a discharge from the MS4. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that pollutants in stormwater are reduced.

6.4.1.1 The permittee shall implement the public education program required by 40 CFR §122.34(b)(2) by distributing educational material to the MS4 community. The educational program shall define goals, express specific messages, define the targeted audience for each message, and identify responsible parties for program implementation. At a minimum, the program shall provide information concerning the impact of stormwater discharges on water bodies within the community, especially waters that are impaired, not-attaining, or identified as Outstanding Arizona Waters. The program shall identify steps and/or activities the public can take to reduce the pollutants in stormwater runoff and their impacts to the environment.

6.4.1.2 The program shall focus on messages for specific audiences as well as show progress toward the defined educational goals of the program. The permittee shall identify methods that it will use to evaluate the effectiveness of the educational messages and the overall education program. Any methods used to evaluate the effectiveness of the program shall be tied to the defined goals of the program and the overall objective of changes in behavior and knowledge.

6.4.1.3 The permittee shall modify any ineffective messages or distribution techniques.

6.4.1.4 The permittee shall document in each annual report: the messages for each audience; the method of distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program.

6.4.2 Public Involvement and Participation

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

6.4.2.1 All public involvement activities shall comply with state and local public notice requirements. The SWMP and all annual reports shall be available to the public. The permittee is encouraged to satisfy this requirement by posting records online.

6.4.2.2 The permittee shall annually provide the public an opportunity to participate in the review and implementation of the SWMP.

6.4.2.3 The permittee shall report on the activities undertaken to provide public participation opportunities including compliance with Part 6.4.2.1. Public participation opportunities pursuant to Part 6.4.2.2 may include, but are not limited to, websites, hotlines, clean-up teams, monitoring teams, or an advisory committee.

6.4.3 Illicit Discharge Detection and Elimination (IDDE) Program

The permittee shall implement an IDDE program to systematically find and eliminate sources of non-stormwater to its municipal separate storm sewer system and to implement procedures to prevent illicit connections and discharges.

The IDDE program shall be recorded in a written document. The IDDE program shall include each of the elements described in Part 6.4.3.8 (a through c), unless the permittee provides a written explanation within the IDDE program as to why a particular element is not applicable to the permittee. For existing permittees, the written IDDE program shall be completed within six (6) months of the effective date of this permit. For new permittees, the written IDDE program shall be completed within one (1) year of the effective date of the permit. The permittee shall implement the IDDE program in accordance with the goals and milestones set forth in Parts 5.0 and 6.4.3.

6.4.3.1. Definitions and Prohibitions

The permittee shall prohibit illicit discharges (including sanitary sewer overflows) to and from its MS4 and require removal of such discharges consistent with Part 6.4.3.5 of this permit. An illicit discharge is any discharge to a municipal separate storm sewer that is not composed entirely of stormwater *except*:

- a. Discharges authorized under a separate NPDES permit that authorize a discharge to the MS4;
- b. Non-stormwater discharges allowed by Part 1.3.2.

6.4.1.5 Enforcement Procedures

The IDDE program must ensure the permittee has adequate enforcement procedures to accomplish the following tasks: prohibit illicit discharges; investigate suspected illicit discharges; eliminate illicit discharges, including discharges from properties not owned or operated by the MS4 that discharge into the MS4 system; and implement appropriate enforcement procedures and actions. Adequate enforcement procedures consists of a current effective ordinance, by-law, or other regulatory mechanism. For existing permittees, the ordinance, by-law, or other regulatory mechanism was a requirement of AZG2002-002 and is required to be effective under that permit. The written IDDE program shall include a reference or citation of the authority the permittee will use to implement all aspects of the IDDE program as specified in Part 3.0.

6.4.3.3 Statement of IDDE Program Responsibilities

The permittee shall establish a written statement that clearly identifies responsibilities with regard to eliminating illicit discharges. The statement shall identify the lead municipal agency or department responsible for implementing the IDDE Program as well as any other agencies or departments that may have responsibilities for aspects of the program. Where multiple departments and agencies have responsibilities to the IDDE program, specific areas of responsibility shall be defined and processes for coordination and data sharing shall be established and documented.

6.4.3.4 Illicit Discharge Prevention and Reporting

The permittee shall develop and implement process(es) and procedures designed to prevent, identify, report, and mitigate illicit discharges to and from the MS4 (this may be a part of the education program required by Part 6.4.1; reporting (hotlines), and training of public employees involved in the IDDE program).

6.4.3.5 Eliminating Illicit Discharges

Illicit discharges to the MS4 are prohibited and constitutes a violation of this permit when the permittee is not fully implementing applicable permit requirements and the SWMP.

Upon detection of an illicit discharge, the permittee shall eliminate it as expeditiously as possible. The permittee shall identify and notify all responsible parties for any such discharge and require immediate cessation in accordance with its legal authorities. Where elimination of an illicit discharge is not immediately possible, the permittee shall establish an expeditious schedule for its elimination and report the dates of identification and schedules for removal in the permittee's annual reports. The permittee shall immediately commence actions necessary for elimination. In the interim, the permittee shall take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.

To the extent known, the permittee shall include in the annual report the following information: the location of the illicit discharge and its source(s); a description of the discharge; estimated illicit discharge duration; the method of discovery; date of discovery; date of elimination; mitigation or enforcement action; responsible person (if known); and estimated volume.

6.4.3.6 Non-Stormwater Discharges

The non-stormwater discharges identified in Part 1.3.2 do not need to be addressed as an illicit discharge unless it is determined by the permittee that any of these sources is a significant contributor of pollutants. Non-stormwater discharges from the MS4 that cause or contribute to a violation of a surface water quality standard where the permittee fails to take action to eliminate the discharge of pollutants constitutes a permit violation.

6.4.3.7 Existing Permittees IDDE Programs

During the development of the new components of the IDDE program required by this permit, existing permittees must continue to implement their current IDDE program required by the AZG2002-002 to detect and eliminate illicit discharges to its MS4.

6.4.3.8 Visual Monitoring

The permittee shall develop, implement, and maintain a visual monitoring program that includes both dry weather and stormwater discharges to identify, monitor, and eliminate illicit discharges; and to ensure compliance with effluent limitations in this permit.

The monitoring programs shall include written procedures for conducting visual monitoring of outfalls from the MS4.

Monitoring procedures shall include, at a minimum, the following information/observations: outfall identification, personnel, time, date, weather conditions at time of inspection, estimated flowrate, apparent odor, color, clarity, debris, floatables, and other necessary information to characterize the screening.

In the event an illicit discharge is discovered as a result of dry or wet weather outfall monitoring, the permittee shall implement measures to eliminate the illicit discharge (part 6.4.3.5).

For each confirmed illicit discharge, the permittee shall include in the annual report the following information: the location of the discharge and its source(s); a description of the discharge; estimated illicit discharge duration; the method of discovery; date of discovery; date of elimination; mitigation or enforcement action; responsible person (if known); and estimated volume.

a) Visual Dry Weather Outfall Monitoring

Within six (6) months of obtaining authorization to discharge, the permittee shall develop and implement a visual, dry weather outfall monitoring program. Dry weather monitoring must be conducted at least 72 hours after a storm event that resulted in a discharge from the storm sewer system.

The permittee shall document and include findings of dry weather monitoring in the annual report.

b) Visual Stormwater Discharge Monitoring

The permittee shall identify a minimum of five (5) outfalls that are representative of its stormwater discharges to conduct visual stormwater discharge monitoring. If the permittee has less than five (5) outfalls, then the permittee shall monitor all outfalls as part of the stormwater discharge monitoring program. In the event a Small MS4 does not have five (5) outfalls, a minimum of five (5) screening points, or combination of outfalls and screening points, shall be utilized. Screening points shall be at locations where stormwater leaves the Small MS4's permitted area including locations where stormwater may discharge to another MS4 or other conveyance. The outfalls / screening points selected for visual stormwater discharge monitoring shall be identified in the NOI.

Within six (6) months of obtaining authorization to discharge, the permittee shall develop and implement a stormwater discharge visual monitoring program. The stormwater discharge monitoring program must be conducted in response to a storm event that results in a discharge from the storm sewer system and, to the extent practicable, should include the first flush.

The permittee shall conduct a minimum of two (2) stormwater discharge monitoring events during each wet season of the representative outfall(s) and shall document and include findings in the annual report.

Summer Wet Season: June 1 through October 31
Winter Wet Season: November 1 through May 31

In the event a permittee cannot access any outfall(s) during a wet weather discharge, the permittee shall conduct wet weather screening as soon as practicable after the storm or discharge event.

Visual Stormwater Discharge Monitoring Alternative – the permittee may elect to submit in its NOI (see part 2.1.1) alternative practices to visual stormwater discharge monitoring. In doing so, the permittee shall include a written description as to how and why the proposed alternative is as effective, or more effective, than visual stormwater discharge monitoring.

c) Follow-up Screening

The permittee shall establish a follow-up screening schedule for identified or suspected illicit discharges to ensure they do not recur.

6.4.3.9 Indicators of IDDE Program Progress

The permittee shall define or describe indicators for tracking program success. At a minimum, indicators shall include measures that demonstrate efforts to locate illicit discharges identified and removed. Such measures may include response time to inspection, public awareness, time from discovery to elimination, and other appropriate factors.

The permittee shall evaluate and report the overall effectiveness of the program based on the tracking measures outlined in Part 6.4.3.8 in the annual program evaluation and in the annual report.

6.4.3.10 Staff Training

The permittee shall, at a minimum, provide annual training to employees involved in the IDDE program (e.g., street workers, inspectors, solid waste personnel, etc.). The training must include the IDDE program components and how to recognize illicit discharges. The permittee shall report on the frequency and type of employee training in the annual report.

6.4.3.11 Unpermitted (Illicit) Discharges to the MS4

The permittee shall develop, implement, and enforce a program to actively identify facilities and activities (e.g., industrial facilities, construction activities, etc.) that discharge to the MS4 without an AZPDES/NPDES permit.

The permittee shall include the number of facilities contacted each year in the annual report and shall include the facility name, type of activity conducted at the facility (including SIC code, to the extent known), and whether or not the facility has AZPDES permit coverage, if known or available.

A description of the permittee's illicit discharge program shall be included in the SWMP.

6.4.4 Construction Activity Stormwater Runoff Control

The permittee must develop, implement, maintain, and enforce a construction activity stormwater runoff control program to minimize or eliminate pollutant discharges to the MS4s from construction activities that will disturb one (1) or more acres of land, including sites less than one (1) acre that are part of a common plan of development or sale.

6.4.4.1 Construction Activity Stormwater Runoff Implementation

Existing and new permittees must assess existing legal authority, codes, and other relevant mechanisms and adopt, and implement measures to ensure compliance with construction activity runoff timeframe(s) specified in Part 3.1.

6.4.4.2 Construction Activity Stormwater Runoff Program Components

The construction activity stormwater runoff control program shall include, at a minimum, the elements in Paragraphs a. through h. of this part:

- a. An ordinance or other regulatory mechanism that requires the use of sediment and erosion control practices.
- b. An inventory of all construction activities that disturb or will disturb one (1) or more acres within the permitted area, including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.
- c. Written procedures for site inspections and enforcement of sediment and erosion control measures. If not already existing, these procedures shall be completed within one (1) year from the date of submitting an NOI to ADEQ. The procedures shall clearly define who is responsible for site inspections as well as who has authority to implement enforcement procedures. The program must allow the permittee, to the extent authorized by law, to impose sanctions ensuring compliance with the local program. These procedures and regulatory authorities shall be documented in the SWMP.
- d. In developing construction activity inspection frequency, the permittee shall consider, at a minimum, the following:
 1. Phase of construction;
 2. Proximity to an impaired, not-attaining water or Outstanding Arizona Water;
 3. Size of the construction activity (acreage disturbed); and
 4. History of non-compliance (site or operator).
- e. Based on construction activity inspection findings, the permittee must take all necessary follow-up actions (i.e., re-inspection, enforcement) to ensure compliance in accordance with the permittee's enforcement response plan required under Part 3.3.
- f. Requirements for construction operators to implement sediment and erosion control BMPs appropriate for the conditions at the construction activity. Examples of appropriate sediment and erosion control measures for construction activities include local requirements to:
 1. Minimize the amount of disturbed area and protect natural resources;
 2. Stabilize sites when projects are complete or operations have temporarily ceased;
 3. Protect slopes on the site of the construction activity;
 4. Protect storm drain inlets and armor all newly-constructed outlets;
 5. Use perimeter controls at the site;

6. Stabilize entrance(s) and exit(s) at the location of the construction activity to prevent off-site tracking; and
 7. Inspect stormwater controls at consistent intervals.
- g. Requirements to control wastes, including but not limited to: discarded building materials; paints; fertilizers; concrete wash out; chemicals; litter; and sanitary wastes.
- h. Written procedures for site plan review. If not already existing, the procedures for site plan review which incorporate consideration of potential water quality impacts shall be completed within one (1) year from date the NOI is submitted to ADEQ. Site plan review shall include: a review by the permittee of the site design; the planned operations at the location of the construction activity; planned stormwater controls during the construction phase; and the planned controls to be used to manage runoff created after development (see 6.4.5).

6.4.4.3 Personnel Qualifications

The permittee shall ensure staff who conduct activities related to implementing the construction stormwater program (permitting, plan review, construction activity inspections, enforcement, etc.) have the knowledge, skills, and abilities to proficiently carryout their assigned duties.

6.4.4.4 Construction Activity Operator Education and Public Involvement

The permittee must develop and implement a program to provide education to construction activity operators on erosion and sediment control best management practices requirements and establish procedures for receipt of and consideration of information submitted by the public (see also Part 6.4.2).

6.4.4.5 Tracking and Recordkeeping

The permittee must track the number of inspections and re-inspections of construction activities to verify the sites are inspected at the frequency established under Part 6.4.4.2 (d) and (e) and include this information in the annual report.

6.4.5 Post-Construction Stormwater Management in New Development and Redevelopment

Permittees shall develop, implement, and enforce a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb one (1) or more acres of land (or less than one (1) acre if part of a common plan of development) that discharge into the permittee's MS4.

The post-construction stormwater management program must include a combination of structural and/or non-structural best management practices, as well as the components identified in this section.

Permittees shall maintain all records associated, including enforcement actions, in accordance with Part 8.2

6.4.5.1 Regulatory Mechanism for Post-Construction Stormwater Controls

The new development/redevelopment program shall include an ordinance or regulatory mechanism to address runoff from new development and redevelopment projects.

The regulatory mechanism must specify that owners or operators of new development and redevelopment sites discharging to the MS4, design, install, and maintain post-construction stormwater controls that reduce or eliminate the discharge of pollutants from the site after construction activities are completed.

Permittees must evaluate existing ordinance or other regulatory mechanism(s) to address post-construction stormwater runoff from new development and redevelopment projects. If it is determined existing ordinances or other regulatory mechanism(s) must be modified, the permittee must develop, adopt and implement a revised ordinance or other mechanism within the timeframes(s) specified in Part 3.1.

The permittee's new development/redevelopment program shall have procedures to ensure any stormwater controls or management practices for new development and redevelopment will prevent or minimize impacts to water quality from stormwater runoff.

6.4.5.2 Site Plan Review

The permittee shall design, implement, and maintain a site plan review process to evaluate and approve post-construction stormwater controls.

6.4.5.3 Post-Construction Stormwater Control Inventory

Within the first year of the effective date of this permit, the permittee shall implement and maintain an inventory system of all post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the permit area that discharge into the MS4. The inventory must be searchable by property location (either on paper or electronic) or other relevant criteria.

6.4.5.4 Operation and Maintenance of Post-Construction BMPs

The permittee shall establish processes, procedures, and other such provisions necessary to ensure the long-term operation and maintenance of post-construction stormwater BMPs.

6.4.6 Pollution Prevention and Good Housekeeping for Municipal Operations

The permittee must develop, implement, and maintain an operations and maintenance program that includes a training component with the ultimate goal of preventing or reducing pollutant runoff and protecting water quality from municipal facilities and activities. The provisions in this part apply to facilities and activities that are not subject to separate AZPDES permitting.

Existing permittees must continue to implement established operation and maintenance programs while updating those programs, as necessary, to comply with the requirements of this permit. Program updates must be developed and implemented within six (6) months of obtaining permit coverage.

New permittees must develop and implement the following program requirements within one (1) year of obtaining permit coverage.

At a minimum, the program must include:

- a. Develop an inventory of municipal operations that discharge;
- b. Prioritize municipal facilities based on their risk to discharge pollutants and develop and implement a site inspection schedule (example, more frequent inspections for higher risk facilities, less frequent inspections for lower risk facilities);
- c. Develop and implement an inspection schedule for municipally-owned and operated facilities and activities to ensure stormwater controls are effective and being properly maintained;
- d. Based on inspection findings, update municipally-owned or operated facilities priority status and modify inspection frequency, as appropriate;
- e. Develop and implement stormwater controls at municipally-owned or operated facilities and discharge activities to reduce or eliminate the discharge of pollutants;
- f. Develop and implement an employee training program to incorporate pollution prevention and good housekeeping techniques into everyday operations and maintenance activities; and
- g. Develop maintenance activities, maintenance schedules, and long-term inspections procedures for structural and non-structural stormwater controls to reduce floatables, trash, and other pollutants discharged from the MS4.

7.0 ANALYTICAL MONITORING

In addition to analytical monitoring of municipal stormwater discharges to impaired, not-attaining waters and Outstanding Arizona Waters (OAWs), ADEQ may notify the permittee in writing of additional monitoring requirements to ensure protection of receiving water quality or to ensure permit compliance. Additional monitoring will be required if there is evidence that a pollutant is being discharged by the permittee that may be causing or contributing to exceedances of a water quality standard. Any such notice will provide an explanation of the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

Analytical monitoring shall be conducted in accordance with approved test methods in accordance with A.A.C. R18-9-A905(B).

7.1 General Monitoring Requirements

The monitoring provisions of this Part apply to permittees that must conduct analytical monitoring. The permittee shall collect and analyze stormwater samples and document monitoring activities consistent with the procedures described in Part 6.4.3.8 and Part 9.

- a. The purpose of the monitoring section of this permit is to:
 1. Assess the impacts to impaired, not-attaining, or Outstanding Arizona Waters (OAWs) resulting from stormwater discharges from Small MS4 outfalls;
 2. Characterize stormwater discharges;
 3. Identify sources of elevated pollutant loads and specific pollutants; and
 4. Assess the overall health and evaluate long-term trends in water quality of impaired, not attaining, or OAWs.
- b. The permittee shall identify in the SWMP and annual reports discharges that:
 1. Discharge to impaired waters listed on the Arizona's 303(d) list (Category 5) and those listed as not attaining (Category 4) on Arizona's Water Quality Assessment report;
 2. Discharges to OAWs listed in A.A.C. R18-11-112; and
 3. Additional monitoring required by ADEQ.
- c. Annual reporting requirements for outfall monitoring are included in Part 8.3.
- d. Analytical Monitoring Schedule:
 1. Existing Permittees – Impaired, not-attaining, and OAW monitoring must be fully implemented no later June 1, 2017.
 2. New Permittees – Impaired, not-attaining, and OAW monitoring must be fully implemented no later than November 1, 2017.
 3. Alternative schedule specified by ADEQ.

The required monitoring events may be distributed during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from the site. Wet seasons apply statewide and are defined as follows:

Summer wet season: June 1 – October 31
Winter wet season: November 1 – May 31

The term 'wet season' includes areas of the state where freezing conditions exist that prevent runoff from occurring for extended periods. In areas where freezing conditions exist, the required monitoring and sample collection may be distributed during seasons when precipitation runoff, either as melting snow or rain mixed with melting snow, occurs.

7.2 Discharges to Impaired and Not-Attaining Waters

If an outfall discharges to an impaired or not-attaining water, the permittee shall develop and implement a monitoring program for all pollutants for which the waterbody is listed.

If the waterbody is listed for suspended solids, turbidity or sediment/sedimentation and the discharge occurs for more than 48 hours after the storm event, the permittee shall monitor for suspended sediment concentration (SSC). If the pollutant causing the impairment is expressed in the form of an indicator or surrogate pollutant, the permittee shall monitor for that indicator or surrogate pollutant.

The permittee shall comply with all applicable waste load allocations established in approved TMDLs. In the event monitoring requirements (frequency, analytical parameters, etc.) are established in an approved TMDL, the permittee shall comply with the specifications in the approved TMDL.

7.3 Discharges to Outstanding Arizona Waters

Analytical monitoring of outfalls that discharge to an OAW must be conducted twice per wet season for the entire permit term to assure discharges from the MS4 do not degrade existing water quality, or cause or contribute to an exceedance of an Arizona surface water quality standard. The permittee shall establish a list of analytical parameters to be included in the monitoring program and shall identify the analytical parameter and justification/rationale for selecting the key parameters in the SWMP.

7.4 Tracking

Permittees with outfalls that discharge to impaired, not-attaining, or OAWs shall develop a system to track the information required in the permit and the information required to be reported in the annual report (see Part 8.3). The tracking system shall be developed and implemented within twelve (12) months of the effective date of this permit.

The permittee must implement, and revise as necessary, a comprehensive monitoring and assessment program. A description of this program must be included in the SWMP. The monitoring and assessment program must be designed to meet the following objectives:

- a. Assess compliance with this permit;
- b. Measure the effectiveness of the permittee's stormwater management program;
- c. Assess the chemical, physical, and biological impacts to receiving waters resulting from stormwater discharges;
- d. Characterize stormwater discharges;
- e. Identify sources of specific pollutants;
- f. Detect and eliminate illicit discharges and illegal connections to the MS4; and
- g. Assess the overall health and evaluate long-term trends in receiving water quality.

8.0 PROGRAM ASSESSMENT, RECORDKEEPING, AND REPORTING

8.1 Program Evaluation

8.1.1 The permittee shall annually self-evaluate its compliance with the terms and conditions of this permit. The permittee shall maintain the annual evaluation documentation as part of the SWMP. The permittee shall include this information in the annual report.

8.1.2 The permittee shall evaluate the appropriateness of the selected BMPs in achieving the objectives of each control measure and the defined measurable goals. The permittee may change BMPs in accordance with the following provisions:

- a. Adding (but not subtracting or replacing) components or controls may be made at any time;
- b. Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternative BMP may be made if the proposed changes meet the criteria of this Part.

The permittee shall include this information in the annual report.

8.1.3 BMP modification documentation shall include the following information and all documentation shall be kept in the SWMP:

- a. An analysis of why the BMP is ineffective or infeasible;
- b. Expectations on the effectiveness of the replacement BMP; and
- c. An analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced.

The permittee shall indicate BMP modifications along with a brief explanation of the modification in the annual report.

8.1.4 ADEQ may require the permittee to add, modify, repair, replace or change BMPs or other measures described in the annual reports to address the following:

- a. Impacts to receiving water quality caused or contributed to by discharges from the MS4;
- b. To satisfy conditions of this permit;
- c. To include more stringent requirements necessary to comply with new state or federal legal requirements; or
- d. Attainment of surface water quality standards.

Any changes requested by ADEQ will be in writing and will require the permittee to develop a schedule to implement the changes and will offer the permittee the opportunity to propose alternative program changes to meet the objective of the requested modification.

8.2 Recordkeeping

- 8.2.1** The permittee shall keep all records required by this permit for a period of at least three (3) years. Records include information used in the development of any written program required by this permit, any monitoring results, copies of reports, records of screening, follow-up and elimination of illicit discharges; maintenance records; inspection records; enforcement actions; and data used in the development of the notice of intent, SWMP, plans, and annual reports. This list provides examples of records that should be maintained, but is not all inclusive.
- 8.2.2** Records other than those required to be included in the discharge monitoring report (Part 8.3) and annual report (Part 8.4), shall be submitted upon request by ADEQ, or U.S. EPA.
- 8.2.3** The permittee shall make the records relating to this permit, including the written stormwater management program, available to the public. The public may view the records during normal business hours. The permittee may charge a reasonable fee for copying requests. The permittee is encouraged to satisfy this requirement by posting records online.

8.3 Discharge Monitoring Report

The permittee must submit all monitoring results (analytical and visual monitoring results) on a discharge monitoring report (DMR) in a manner prescribed by ADEQ (electronic, paper format, etc.). In the event electronic reporting becomes available, permittees must submit analytical and visual monitoring results using an online program or portal application prescribed by ADEQ (or U.S. EPA). DMRs must be submitted no later than September 30 of each year and shall include analytical and visual monitoring results for the period July 1 through June 30 of the preceding calendar year.

8.4 Annual Report

The permittee shall submit an annual report each year of the permit term to ADEQ. The reporting period is from July 1 through June 30 each year. The annual report is due to ADEQ on or before September 30 each year for the reporting period. The annual reports shall contain the following information:

- a. The status of compliance with the permit terms and conditions;
- b. Updates regarding mapping requirements (see Part 4.1), including percent complete;
- c. An evaluation of the appropriateness and efficacy of the selected BMPs;
- d. An assessment of the progress towards achieving the measurable goals and objectives of each control measure in Part 6.4 including description of the targeted messages for each audience; method of distribution and dates of distribution; methods used to evaluate the program; and any changes to the program;
- e. Description of the activities used to promote public participation;
- f. Description of the activities related to implementation of the IDDE program including: status and results of the illicit discharge potential protocols described in Parts 6.4.3.4 (program responsibilities and systematic procedure); number and identifier of assets inspected or evaluated; number and identifier of outfalls screened; number of illicit discharges located; number of illicit discharges removed; and employee training;

- g. All outfall screening and monitoring data collected by or on behalf of the permittee during the reporting period and cumulative for the permit term, including but not limited to all data collected pursuant to Parts 6.4.3 and 7.0;
- h. The status of any plans or activities required by Part 6.4.3 and/or Part 7.1 (impaired and not-attaining waters), including:
 - 1. Identification of all discharges determined to be causing or contributing to an exceedance of water quality standards and description of response;
 - 2. For discharges subject to TMDLs, identification of specific BMPs used to address the pollutant identified as the cause of the impairment and assessment of the BMPs effectiveness at controlling the pollutant;
- i. Status of the construction runoff management including number of project plans reviewed, number of inspections, and number of enforcement actions;
- j. Status of stormwater management for new development and redevelopment including status of ordinance development and review;
- k. Status of the operation and maintenance programs required by Part 6.4.6.1;
- l. Description of any changes in identified BMPs or measurable goals;
- m. Any additional reporting requirements specified in Parts 1-7; and
- n. Description of activities to be conducted during the next reporting cycle.

Reports must be submitted to ADEQ at the following address:

Arizona Department of Environmental Quality
1110 West Washington Street, Mail Code 5451A-1
Phoenix, Arizona 85007

In the event electronic reporting becomes available, permittees must submit their annual reports using an online program or portal application prescribed by ADEQ (or U.S. EPA).

9.0 STANDARD PERMIT CONDITIONS

Standard permit conditions in Part 9 are consistent with the general permit provisions required under 40 CFR 122.41 and A.A.C. R-18-9-A905(A)(3).

1. **Duty to Comply:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(a)(1) and A.R.S. §§ 49-261, 262, 263.01, and 263.02.]
 - a. The operator shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act; A.R.S. Title 49, Chapter 2, Article 3.1; and A.A.C. Title 18, Chapter 9, Article 9, and is grounds for enforcement action, permit termination, revocation and reissuance, or modification, or denial of a permit renewal application.
 - b. The issuance of this permit does not waive any federal, state, county, or local regulations or permit requirements with which a person discharging under this permit is required to comply.
 - c. The operator shall comply with any effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

2. **Duty to Reapply / Continuation of the Expired General Permit:** [A.A.C. R18-9-A905, which incorporates 40 CFR 122.41(b) and A.A.C. R18-9-C903]
 - a. Upon reissuance of the general permit, the permittee shall file an NOI, within the timeframe specified in the new general permit, and shall obtain new written authorization to discharge from the Director.
 - b. If the Director does not reissue the general permit before the expiration date, the current general permit will be administratively continued and remain in force and effect until the general permit is reissued.
 - c. Any operator granted authorization to discharge under the general permit before the expiration date automatically remains covered by the continued general permit until the earlier of:
 - i. Reissuance or replacement of the general permit, at which time the operator shall comply with the NOI conditions of the new general permit to maintain authorization to discharge; or
 - ii. The date the operator has submitted a Notice of Termination; or
 - iii. The date the Director has issued an individual permit for the discharge; or
 - iv. The date the Director has issued a formal permit decision not to reissue the general permit, at which time the operator shall seek coverage under an alternative general permit or an individual permit, or cease discharge.

3. **Need To Halt or Reduce Activity Not a Defense:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(c)]

It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. **Duty to Mitigate:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(d)]

The operator shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment per A.R.S. § 49-255.01(E)(1)(d).

5. Proper Operation and Maintenance: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(e)]

The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the operator to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.

6. Permit Actions: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(f)]

This permit may be modified, revoked and reissued, or terminated for cause. Filing a request by the operator for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Property Rights: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(g)]

This permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of federal, state, Indian tribe, or local laws or regulations.

8. Duty to Provide Information: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(h)]

The operator shall furnish to ADEQ, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The operator shall also furnish to ADEQ upon request, copies of records required to be kept by this permit.

9. Signatory Requirements: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(k) and (l); A.A.C. R18-9-A905(A)(1)(c), which incorporates 40 CFR 122.22]

All Notices of Intent (NOI) and Notices of Termination (NOT) must be signed as follows:

- a. NOIs:
 - i. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - ii. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
 - iii. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal (or state) agency includes: (1) The chief executive officer (or director) of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

- b. All NOTs, reports, plans, inspection reports, monitoring reports, and other information required by this permit must be signed by a person described in Part 9.9(a), above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - i. The authorization is made in writing by a person described in Subsection 9(a) above;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of manager, operator, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may be either a named individual or any individual occupying a named position); and
 - iii. The signed and dated written authorization is included in the SWMP. A copy must be submitted to ADEQ, upon request.
- c. Certification. Any person signing documents under the terms of this permit shall make the following 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 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.

10. Inspection and Entry: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(i)]

The operator shall allow the Director or an authorized representative upon the presentation of credentials and such other documents as may be required by law to:

- a. Enter upon the operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- b. Have access to and copy at reasonable times, any records that must be kept under the conditions of this general permit;
- c. Inspect at reasonable times any facility or equipment (including monitoring and control equipment), practices or operations regulated or required under this permit;
- d. Sample or monitor at reasonable times any substances or parameters at any location, for the purposes of assuring permit compliance or as otherwise authorized by A.R.S. Title 49, Chapter 2, Article 3.1, and 18 A.A.C. 9, Articles 9.

11. Monitoring and Records: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(j)]

- a. Representative Samples/Measurements: Samples and measurements taken for the purpose of monitoring must be representative of the volume and nature of the monitored activity.
- b. Retention of Records: The operator shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date permit coverage ends. Operators shall submit any such records to the Director upon request. The operator shall retain the SWPPP developed in accordance with Part 6 of this permit, for at least three (3) years after the last modification or amendment is made to the plan. The Director may extend this retention period upon request by notifying the operator in writing at any time prior to the end of the standard three year retention period.

- c. Records Contents: Records of monitoring information must include:
 - i. The date, exact location, and time of sampling or measurements;
 - ii. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The time(s) analyses were initiated;
 - v. The initials or name(s) of the individual(s) who performed the analyses;
 - vi. References and written procedures, when available, for the analytical techniques or methods used;
 - vii. The analytical techniques or methods used; and
 - viii. The results of such analyses.
- d. Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which includes the possibility of fines and/or imprisonment.

12. Reporting Requirements: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(l)]

- a. Planned changes: The operator shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b) (incorporated by reference at A.A.C. R18-9-A905(A)(1)(e)); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1) (incorporated by reference at A.A.C. R18-9-A905(A)(3)(b)).
- b. Monitoring reports: Monitoring results must be reported at the intervals specified elsewhere in this permit.
 - i. Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms (paper or electronic) provided or specified by ADEQ.
 - ii. If the operator monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - iii. Calculations for all limitations which require averaging of measurements must use an arithmetic mean and non-detected results must be incorporated in calculations as the limit of quantitation for the analysis.
- c. Anticipated noncompliance: The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.
- d. Twenty-four hour reporting:
 - i. The operator shall report to ADEQ any noncompliance with this permit which may endanger human health or the environment. The operator shall orally notify the office listed below within 24 hours:

Arizona Department of Environmental Quality – Water Quality Division
1110 W. Washington Street
Phoenix, AZ 85007
Office: (602) 771 - 4508

- ii. A written submission shall also be provided to the office identified above within five (5) days of the time the operator becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- iii. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - 1) Any upset which exceeds any effluent limitation in the permit.
 - 2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within 24 hours. (See 40 CFR 122.44(g) which is incorporated by reference at A.A.C. R18-9-A905(A)(3)(d)).
- iv. ADEQ may waive the written report on a case-by-case basis for reports under this subsection if the oral report has been received within 24 hours.
- e. Other noncompliance: The operator shall report all instances of noncompliance not otherwise required to be reported under this subsection, at the time monitoring reports are submitted. The reports shall contain the information listed in subsection 12(d).
- f. Other information: When the operator becomes aware that it failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Department, the operator shall promptly submit the facts or information to ADEQ at the address listed in Part 8.2.

13. Reopener Clause: [A.A.C. R18-9-A905(A)(3)(d), which incorporates 40 CFR 122.44(c)]

The Department may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements, such as for effluent limitation guidelines, which may be promulgated in the course of the current permit cycle.

14. Other Environmental Laws:

No condition of this general permit releases the operator from any responsibility or requirements under other environmental statutes or regulations. For example, this permit does not authorize the "taking" of endangered or threatened species as prohibited by Section 9 of the Endangered Species Act, 16 U.S.C. 1538. Information regarding the location of endangered and threatened species and guidance on what activities constitute a "taking" are available from the U.S. Fish and Wildlife Service. The operator shall also comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC).

15. State or Tribal Law: [Pursuant to A.A.C. R18-9-A904(C)]

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by Section 510 of the Clean Water Act.

16. Severability:

The provisions of this general permit are severable, and if any provision of this general permit, or the application of any provision of this general permit to any circumstance, is held invalid, the application of the provision to other circumstances, and the remainder of this general permit shall not be affected.

17. Requiring Coverage under an Individual Permit or an Alternative General Permit: [Pursuant to A.A.C. R18-9-C902 and R18-9-A909]

- a. The Director may require a person authorized by this permit to apply for and/or obtain either an individual AZPDES permit or an alternative AZPDES general permit. Any interested person may petition the Department to take action under this section. The Department may require an operator authorized to discharge under this permit to apply for an individual permit in any of the following cases:
 - i. A change occurs in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;
 - ii. Effluent limitation guidelines are promulgated for point sources covered by the general permit;
 - iii. An Arizona Water Quality Management Plan containing requirements applicable to the point sources is approved;
 - iv. Circumstances change after the time of the request to be covered so that the discharger is no longer appropriately controlled under the general permit, or either a temporary or permanent reduction or elimination of the authorized discharge is necessary;
 - v. If the Director determines that the discharge is a significant contributor of pollutants. When making this determination, the Director shall consider:
 - 1) The location of the discharge with respect to waters of the United States,
 - 2) The size of the discharge,
 - 3) The quantity and nature of the pollutants discharged to waters of the U.S., and
 - 4) Any other relevant factor.
- b. If an individual permit is required, the Director shall notify the discharger in writing of the decision. The notice shall include:
 - i. A brief statement of the reasons for the decision;
 - ii. An application form;
 - iii. A statement setting a deadline to file the application;
 - iv. A statement that on the effective date of issuance or denial of the individual permit, coverage under the general permit will automatically terminate;
 - v. The applicant's right to appeal the individual permit requirement with the Water Quality Appeals Board under A.R.S. § 49-323, the number of days the applicant has to file a protest challenging the individual permit requirement, and the name and telephone number of the Department contact person who can answer questions regarding the appeals process; and
 - vi. The applicant's right to request an informal settlement conference under A.R.S. 41-1092.03(A) and 41-1092.06.
- c. The discharger shall apply for an individual permit within 90 days of receipt of the notice, unless the Director grants a later date. In no case shall the deadline be more than 180 days after the date of the notice.
- d. If the discharger fails to submit the individual permit application within the time period established in Part 9.17(c) the applicability of the general permit to the discharger is automatically terminated at the end of the day specified by the Director for application submittal.
- e. Coverage under the general permit shall continue until an individual permit is issued or denied unless the general permit coverage is terminated under Part 9.17(d).

18. Request for an Individual Permit: [Pursuant to A.A.C. R18-9-C902]

- a. An operator may request an exclusion from coverage of a general permit by applying for an individual permit.
 - i. The operator shall submit an individual permit application under R18-9-B901(B) and include the reasons supporting the request no later than 90 days after publication of the general permit.
 - ii. The Director shall grant the request if the reasons cited by the operator are adequate to support the request.
- b. If an individual permit is issued to a person otherwise subject to a general permit, the applicability of the general permit to the discharge is automatically terminated on the effective date of the individual permit.

19. Change of Operator: [A.A.C. R18-9-C904]

If a change of ownership or operator occurs for a facility operating under a general permit:

- a. Permitted owner or operator: The operator shall provide the Department with a Notice of Termination by certified mail within 30 days after the new owner or operator assumes responsibility for the facility.
 - i. The Notice of Termination shall include all requirements for termination specified in the general permit for which the Notice of Termination is submitted.
 - ii. An operator shall comply with the permit conditions specified in the general permit for which the Notice of Termination is submitted until the Notice of Termination is received by the Department.
- b. New owner or operator:
 - i. The new owner or operator shall complete and file a Notice of Intent with the Department within the time period specified in the general permit before taking over operational control of, or initiation of activities at, the facility.
 - ii. If the previous operator was required to implement a stormwater pollution prevention plan, the new owner shall develop a new stormwater pollution prevention plan, or may modify, certify, and implement the old stormwater pollution prevention plan if the old stormwater pollution prevention plan complies with the requirements of the current general permit.
 - iii. The operator shall provide the Department with a Notice of Termination if a permitted facility ceases operation, ceases to discharge, or changes operator status. In the case of a construction activity, the operator shall submit a Notice of Termination to the Department when:
 - 1) The facility ceases construction operations and the discharge is no longer associated with construction or construction-related activities,
 - 2) The construction is complete and final site stabilization is achieved, or
 - 3) The operator's status changes.

20. Bypass: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(m)]

- a. Definitions:
 - i. Bypass means the intentional diversion of waste streams from any portion of a treatment facility;

- ii. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - b. Bypass not exceeding limitations: The operator may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions Part 9.20(c) and 20(d).
 - c. Notice:
 - i. Anticipated bypass. If the operator knows in advance of the need for a bypass, if possible prior notice shall be submitted at least ten days before the date of the bypass.
 - ii. Unanticipated bypass. The operator shall submit notice of an unanticipated bypass as required in Part 9.12(d).
 - d. Prohibition of bypass:
 - i. Bypass is prohibited, and ADEQ may take enforcement action against the operator for bypass, unless:
 - 1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3) The operator submitted notices as required under Part 9.20(c).
 - ii. ADEQ may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in this Part 9.20(d).
- 21. Upset:** [A.R.S. §§ 49-255(8) and 255.01(E), A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(n)]
- a. Definition: Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - b. Effect of an upset: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part 9.21(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - c. Conditions necessary for a demonstration of upset: An operator who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the operator can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;

- iii. The operator submitted notice of the upset as required in Part 9.12(d)(iii); and
 - iv. The operator complied with any remedial measures required under Part 9.4.
- d. Burden of proof: In any enforcement proceeding, the operator, who is seeking to establish the occurrence of an upset, has the burden of proof.

22. Penalties for Violations of Permit Conditions

Any permit noncompliance constitutes a violation and is grounds for an enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

- a. Civil Penalties: A.R.S. § 49-262 provides that any person who violates any provision of A.R.S. Title 49, Chapter 2, Article 2, 3 or 3.1 or a rule, permit, discharge limitation or order issued or adopted under A.R.S. Title 49, Chapter 2, Article 3.1 is subject to a civil penalty not to exceed \$25,000 per day per violation.
- b. Criminal Penalties: Any person who violates a condition of this general permit, or violates a provision under A.R.S. Title 49, Chapter 2, Article 3.1, or A.A.C. Title 18, Chapter 2, Article 9 is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which may include the possibility of fines and/or imprisonment.

10.0 DEFINITIONS

1. **Analytical monitoring** – means monitoring conducted to provide quantitative results in accordance with A.A.C. R18-9-A905(B).
2. **Best management practices (BMPs)** – means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
3. **Common plan of development** – a contiguous area where multiple separate and distinct land disturbing activities may be taking place at different times, on different schedules, but under one plan. A ‘plan’ is broadly defined to include design, permit application, advertisement or physical demarcation indicating that land-disturbing activities may occur.
4. **Construction activity** – means earth-disturbing activities such as, clearing, grading, excavating, stockpiling of fill material and other similar activities. This definition encompasses both large construction activities defined in 40 CFR 122.26 (b)(14)(x) and small construction activities in 40 CFR 122.26 (b)(15)(i) and includes construction support activities.
5. **Controls or Control Measures or Measures** – means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or control the pollution of waters of the United States. Controls also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
6. **CWA or The Act** means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95 217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.
7. **Department** – the Arizona Department of Environmental Quality.
8. **Discharge** – when used without qualification means the “discharge of a pollutant.”
9. **Discharge of a pollutant** – any addition of any “pollutant” or combination of pollutants to “waters of the United States” from any “point source,” or any addition of any pollutant or combination of pollutants to the waters of the “contiguous zone” or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation. This includes additions of pollutants into waters of the United States from surface runoff which is collected or channeled by man. See 40 CFR 122.2.
10. **Discharge point** – the location where stormwater flows exit the construction activity.
11. **Effluent limitations** – means any limitation or condition on quantities, discharge rates, or concentration of pollutants which are discharged from a point source.
12. **Effluent Limitations Guideline (ELG)** – defined in 40 CFR § 122.2 as a regulation published by the Administrator under section 304(b) of CWA to adopt or revise effluent limitations.
13. **Ephemeral water** – a surface water that has a channel that is at all times above the water table, and that flows only in direct response to precipitation. [A.A.C. R18-11-101(22)]

14. **Existing Permittees** means Small MS4 operators who had coverage under ADEQ's 2002 Small MS4 General Permit.
15. **Facility** means any "point source" or any other facility (including land or appurtenances thereto) that is subject to regulation under the AZPDES/NPDES program.
16. **Field Screening Point** means location(s) where municipal stormwater leaves a Small MS4 operator's permitted area and goes to a Waters of the U.S. by way of a conveyance (such as another municipal storm sewer system).
17. **Illicit connection** means any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.
18. **Illicit discharge** means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a AZPDES/NPDES permit (other than the AZPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from firefighting activities.
19. **Impaired water** – waters that have been assessed by ADEQ, under the Clean Water Act, as not attaining a water quality standard for at least one (1) designated use, and are listed in Arizona's current 303(d) List or on the 305(b) Category 4 list.
20. **Intermittent water** or **Intermittent stream** – a stream or reach that flows continuously only at certain times of the year, as when it receives water from a spring or from another surface source, such as melting snow. [A.A.C. R18-11-101(25)]
21. **Maximum Extent Practicable (MEP)** – means maximum extent practicable, the technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in storm water discharges. A discussion of MEP as it applies to small MS4s is found at 40 CFR 122.34. CWA section 402(p)(3)(B)(iii) requires that a municipal permit "shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques and system design, and engineering methods, and other provisions such as the Administrator or the State determines appropriate for the control of such pollutants.
22. **Measurable Goal** means a quantitative measure of progress in implementing a component of a storm water management program.
23. **Minimize** – to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practices.
24. **Municipal separate storm sewer** – a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):
 - a. Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the Clean Water Act (33 U.S.C. 1288) that discharges to waters of the United States;
 - b. Designed or used for collecting or conveying stormwater;
 - c. Which is not a combined sewer; and
 - d. Which is not part of a Publicly Owned Treatment Works.

- 25. Municipal separate storm sewer system (MS4)** – all separate storm sewers defined as “large,” “medium,” or “small” municipal separate storm sewer systems or any municipal separate storm sewers on a system-wide or jurisdiction-wide basis as determined by the Director under A.A.C. R18-9-C902(A)(1)(g)(i) through (iv). [A.A.C. R18-9-A901(23)]. This also includes similar systems owned or operated by separate storm sewer municipal jurisdictions not required to obtain stormwater discharge authorization.
- 26. New Permittees** means Small MS4 operators who did not have permit coverage under ADEQ’s 2002 Small MS4 General Permit.
- 27. Not-Attaining** means a surface water is assessed as impaired, but is not placed on the 303(d) List because:
- A TMDL is prepared and implemented for the surface water;
 - An action, which meets the requirements of R18-11-604(D)(2)(h), is occurring and is expected to bring the surface water to attaining before the next 303(d) List submission; or
 - The impairment of the surface water is due to pollution but not a pollutant, for which a TMDL load allocation cannot be developed.
- 28. Non-traditional MS4** means systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. 40 CFR 122.26(a)(16)(iii).
- 29. Notice of Intent (NOI)** – the application to operate under this general permit.
- 30. Notice of Termination (NOT)** – the application to terminate coverage under this general permit.
- 31. Outfall** – means a *point source* as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two (2) municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.
- 32. Outstanding Arizona Water (OAW)** – a surface water that has been designated by ADEQ as an outstanding state resource under A.A.C. R18-11-112.
- 33. Owner or operator** means the owner or operator of any “facility or activity” subject to regulation under the NPDES program.
- 34. Perennial water** – a surface water that flows continuously throughout the year (A.A.C. R18-11-101(30)).
- 35. Permittee** – refers to any person (defined below) authorized by this NPDES permit to discharge to Waters of the United States.
- 36. Person** – an individual, employee, officer, managing body, trust, firm, joint stock company, consortium, public or private corporation, including a government corporation, partnership, association or state, a political subdivision of this state, a commission, the United States government or any federal facility, interstate body, or other entity.
- 37. Point source** – any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

- 38. Pollutant** – sediment, fluids, contaminants, toxic wastes, toxic pollutants, dredged spoil, solid waste, substances and chemicals, pesticides, herbicides, fertilizers and other agricultural chemicals, incinerator residue, sewage, garbage, sewage sludge, munitions, petroleum products, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt (e.g., overburden material), and mining, industrial, municipal and agricultural wastes or any other liquid, solid, gaseous or hazardous substances. [A.R.S. § 49-201(29)]
- 39. Receiving water** – as used in this permit means “Water of the United States” as defined in 40 CFR §122.2 that receives discharges from the MS4.
- 40. Satellite Installation** - means facilities that are not subject to separate AZPDES permitting, are non-contiguous with the primary facility, and meet the following criteria: a) located in an urbanized area, and b) have the potential to discharge pollutants. Examples include golf courses, parks and recreation areas, and vehicle and equipment maintenance facilities.
- 41. Stormwater** – stormwater runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13).
- 42. Stormwater Discharge Associated with Construction Activity** – a discharge of pollutants in stormwater runoff from areas where soil disturbing activities (e.g., clearing, grading, or excavating), construction materials, or equipment storage or maintenance (e.g., fill piles, borrow areas, concrete truck washout, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15).
- 43. Stormwater Discharge Associated with Industrial Activity** means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant (See 40 CFR §122.26(b)(14) for specifics of this definition).
- 44. Stormwater Management Program (SWMP)** means a comprehensive program to manage the quality of stormwater discharged from the municipal separate storm sewer system. For the purposes of this permit, the Stormwater Management Program is considered a single document, but may actually consist of separate programs (e.g. "chapters") for each permittee.
- 45. Stormwater Pollution Prevention Plan (SWPPP)** – a site-specific, written document that, among other things: (1) identifies potential sources of stormwater pollution at the location of the construction activity; (2) describes control measures to reduce or eliminate pollutants in stormwater discharges from the construction activity; and (3) identifies procedures the operator will implement to comply with the terms and conditions of this general permit.
- 46. Surface Water** – as used in this permit means “Water of the United States” as defined in 40 CFR §122.2.
- 47. Total Maximum Daily Load (TMDL)** – an estimation of the total amount of a pollutant from all sources that may be added to a water while still allowing the water to achieve and maintain applicable surface water quality standards. Each total maximum daily load shall include allocations for sources that contribute the pollutant to the water, as required by section 303(d) of the clean water act (33 United States Code, Section 1313(d)) and regulations implementing that statute to achieve applicable surface water quality standards. [A.R.S. § 49-231(4)]
- 48. Turbidity** – a condition of water quality characterized by the presence of suspended solids and/or organic material; expressed as nephelometric turbidity units (NTU).

- 49. Waste Load Allocation (WLA)** – The maximum load of pollutants each discharger of waste is allowed to release into a particular waterway. Discharge limits are usually required for each specific water quality criterion being, or expected to be, violated. WLAs constitute a type of water quality-based effluent limitation. (See 40 C.F.R. § 130.2(h))
- 50. Waters of the United States (U.S.)** – defined in 40 CFR 122.2.
- 51. Wetland** – an area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions. A wetland includes a swamp, marsh, bog, cienega, tinaja, and similar areas. [A.A.C. R18-11-101(49)]

ATTACHMENT B

Notice of Intent



NOTICE OF INTENT (NOI)

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

Regulated small Municipal Separate Storm Sewer Systems (MS4s) must submit a Notice of Intent (NOI) to the Arizona Department of Environmental Quality (ADEQ) to obtain MS4 general permit coverage. Permittees must complete a NOI form and submit the original, ink-signed document to the address below:

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

A. SMALL MS4 INFORMATION

Legal Name of Municipality or Organization:

City of Sedona

Choose one:

Existing Permittee New Permittee

Operator Type:

City

Mailing Address:

102 Roadrunner Drive

County:

Yavapai & Coconino

City:

Sedona

State:

AZ

Zip Code:

86336

Latitude/ Longitude at approximate geographic center of MS4 (D/M/S):

34 degrees, 51 minutes, 53.81 seconds North; 111 degrees, 47 minutes, 42.69 seconds West

B. PRIMARY MS4 PROGRAM MANAGER CONTACT PERSON

Name:

J. Andy Dickey, PE

Title:

Director of Public Works/City Engineer

Department:

Public Works

Mailing Address:

102 Roadrunner Drive

City:

Sedona

State:

AZ

Zip Code:

86336

Phone Number:

928-203-5039

Fax Number:

NA

Email Address:

adickey@sedonaaz.gov

Has another governmental entity agreed to satisfy any of your permit obligations?

Yes

No

If "yes" to the above question, name the other governmental entity and describe the agreement(s) between entities:

NA

C. BILLING INFORMATION			
Same as Primary MS4 Program Manager Contact Person Information? If "yes," proceed to Section D.		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Name: Click here to enter text.		Title: Click here to enter text.	
Department: Click here to enter text.			
Mailing Address: Click here to enter text.			
City: Click here to enter text.	State: Click here to enter text.	Zip Code: Click here to enter text.	
Phone Number: Click here to enter text.	Fax Number: Click here to enter text.	Email Address: Click here to enter text.	
D. ENFORCEMENT AUTHORITY OR OTHER MECHANISM			
Illicit Discharge Detection and Elimination (IDDE) Enforcement Authority or other mechanism established?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Describe IDDE Enforcement Authority or other mechanism: Develop and implement an inspection program. <ol style="list-style-type: none"> 1) City has developed an inspection program to identify illicit discharges within its MS4. The program includes dry weather field screening of at least 20% of the identified outfalls per year and investigation within 15 days of identifying or being notified of a potential illicit discharge. 2) City staff are trained to perform inspections to identify and determine if the provisions in the Stormwater Ordinance are violated. 3) The City enforces the Stormwater Ordinance and penalizes those who violate the provisions in accordance with the City's ordinance enforcement code. 4) City staff, with the aid of the Attorney's Office as necessary, will notify the offending party/parties with the goal to correct the problem in accordance with the Stormwater Ordinance. 			
Name of Enforcement Authority or other mechanism: City Code Title 13 and Land Development Code 8		Effective Date or Estimated Date of Adoption: 1/1/2012	
Construction Site Stormwater Runoff Enforcement Authority or other mechanism established?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Describe Construction Site Stormwater Enforcement Authority or other mechanism: <ol style="list-style-type: none"> 1) City staff reviews submittals to ensure that appropriate erosion and sediment controls are included in the project's construction plan (such as SWPPP). Section 806 of the City's Land Development Code includes provisions requiring dust control, erosion control, prevention of track-out and incorporation of BMP's in projects. 2) City has developed a list of preferred construction BMP's for engineering firms, construction firms and private developers. The list includes: <ol style="list-style-type: none"> a. Placement of rock track-out at construction entrances b. Use of silt fences c. Use of retention basin to reduce silt runoff d. Wetting and covering of debris piles e. Use of filters in front of storm drain inlets f. Covered loads 3) City staff includes a listing of benefits and advantages for all listed BMPs. 4) City has established notification guidelines for violators of the City Codes related to stormwater runoff and 			

<p>utilizes the enforcement measures contained in the Land Development Code and in the City Code. The Land Development Code applies to grading and drainage issues. The City Code applies to drainage and covered loads.</p>		
<p>5) City staff follows and implements the guideline with the goal to correct known violations within a prescribed period.</p>		
<p>6) City staff will prepare an educational package to inform operators about the City's SWMP. The package will include a copy of the Stormwater Ordinance, prepared templates, and City forms to be completed when a City permit is sought. The package will also include a check list of all the requirements needed by the City before permit is granted.</p>		
<p>7) City staff has prepared a brochure that explains the City's minimum requirements for site development.</p>		
<p>8) City staff informs operators and contractors during the permitting process that an AZDPES permit for construction activities is required for sites greater than or equal to 1 acre or less than one acre but part of a larger common plan of development if the larger common plan will ultimately disturb greater than one (1) acre.</p>		
<p>9) The City will annually review the site inspection program for construction sites.</p>		
<p>10) City staff are trained to conduct site inspections in accordance with the developed program.</p>		
<p>Name of Enforcement Authority or other mechanism: Land Development Code - Article 8 Section 805.06</p>		<p>Effective Date or Estimated Date of Adoption: 1/1/2006</p>
<p>Post-Construction Stormwater Management Enforcement Authority or other mechanism established?</p>	<p><input checked="" type="checkbox"/> Yes</p>	<p><input type="checkbox"/> No</p>
<p>Describe Post-Construction Enforcement Authority or other mechanism: Section 805.06 of the City's Land Development Code states that project designs shall include best management practices to prevent stormwater pollution during and after construction of the project. Other post-construction activities conducted by the City include:</p>		
<p>1) Conduct a review of current City ordinances related to long-term drainage and erosion control. The City will update post-construction management requirements as needed into the applicable City codes.</p>		
<p>2) Provide training to building inspectors to identify violations of or compliance with the Stormwater Ordinance's design criteria.</p>		
<p>Name of Enforcement Authority or other mechanism: Land Development Code – Section 8</p>		<p>Effective Date or Estimated Date of Adoption: 7/1/2017</p>

E. MAPPING COMPONENTS				
1. Stormwater Sewer Mapping (including roads with drainage system, municipal streets, catch basins, curbs, gutter, ditches, man-made channels, or storm drains that are owned or operated by the permittee and convey stormwater to Waters of the US)		Percent Complete at time of NOI submission 80%		
If 100% of requirements are NOT met for an existing permittee and for all new permittees, include a timeline, measurable goals, and estimated date of completion (MM/YY) for Stormwater Sewer Mapping: The City is currently reviewing its existing system for comparison to the definition of a stormwater system and will update its stormwater sewer map accordingly. This task to be completed by June 2018.				
2. Outfall Mapping		Percent Complete at time of NOI submission 80%		
If 100% of requirements are NOT met for an existing permittee and for all new permittees, include a timeline, measurable goals, and estimated date of completion (MM/YY) for Outfall Mapping: 80% of the outfall mapping is currently complete and the remaining portion will be completed by June 2018 (100% complete).				
3. Identification of Receiving Waters (names and locations of all the Waters of the US that receive discharge from those outfalls)		Percent Complete at time of NOI submission 100%		
If 100% of requirements are NOT met for an existing permittee and for all new permittees, include a timeline, measurable goals, and estimated date of completion (MM/YY) for Receiving Water Identification: Click here to enter text.				
F. SUMMARY OF RECEIVING WATERS				
Does the MS4 have outfalls that discharge to Waters listed in A.A.C. R18-11 Article 1, Appendix B?		<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No
If "yes" the MS4 discharges to receiving water(s) listed in A.A.C. R18-11 Article 1, Appendix B, then the following section must be completed. If "no" discharges occur to receiving water(s) listed in A.A.C. R18-11 Article 1, Appendix B, then the following section does <u>not</u> need to be filled out, proceed to Section G. If you answer "yes," the receiving water segment is Impaired, Not-Attaining or an Outstanding Arizona Water (OAW), you must also complete Part H.3- Impaired, Not-Attaining and OAWs and BMPs.				
Identify Appendix B surface water(s) that receives discharge(s) from the MS4	Number of outfalls discharging to receiving water?	Is the receiving water listed as an Impaired, Not-Attaining or OAW (choose one)?	List Pollutant(s) causing the Impairment(s):	Does the receiving water have a TMDL?
Oak Creek (number of outfalls pending)		Yes Not-Attaining and OAW	E. Coli	Yes- TMDL
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G. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY

G-1. MCM 1: Public Education and Outreach

For MCM 1- Public Education and Outreach, use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measureable Goals (column 3) for each BMP, including the targeted audience such as commercial, construction, industrial or residential for MCM 1. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies) and include the Targeted Audience	Start Date (MM/YY) (enter your own text to override the drop down menu)
Research	Conduct research and update the City's stormwater web page. Public Works Department	City Staff will contact agencies to get information and/or review web pages at least on semiannual basis to get most up-to-date information. Evaluate websites/other information semi-annually.	06/17
Webpage	Maintain and update stormwater webpage. Public Works Department	The City will update its stormwater web page semi-annually. The webpage will provide information to the public and contractors. The City will track the number of individual page views annually.	6/17
Article	The City will make press releases to disseminate public information regarding stormwater and stormwater related news and events. This may include brochures, radio, city website, and local newspapers. Public Works Department	Notifications related to stormwater and related events will be made to the public (i.e. Christmas Tree recycling, pre-monsoon inspection notification, public comment of Stormwater Management Program, and other public notices). Target audience is general public. Conducted three times annually.	3/17
Special Event	Present stormwater information and/or updates to City leadership staff and/or public Public Works Department	Update the City's Department Heads annually concerning the stormwater program and/or present stormwater update to public at a City Council meeting. Conduct annually.	12/17
Display/ Posters	Tributary Signage Public Works Department	Maintain tributary signs that state "Sedona's Stormwater Keep it Clean". Target audience is the public. Sign maintenance and inventory to be performed annually.	1/17

Speakers Bureau	Use of Speakers Bureau Public Works Department	The City will provide a link on its stormwater webpage for local organizations/groups to request a speaker on a variety of topics to include stormwater. This 'speakers bureau' will provide the public with a method to bring citizen groups, school groups and other activity groups together with the City to provide information regarding stormwater. This will occur on an as requested basis.	04/17
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MCM 1: Public Education and Outreach

Use this space to add any additional information for MCM1:

All information regarding Public Education and Outreach is provided above.

G-2. MCM 2: Public Involvement and Participation

For MCM 2- Public Involvement and Participation, use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measureable Goals (column 3) for each BMP. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies)	Start Date (MM/YY) (enter your own text to override the drop down menu)
Public Involvement	<p>Develop and present stormwater pollution prevention information on televisions within City building(s).</p> <p>Public Works Department</p>	<p>Provide stormwater related information on televisions within reception areas of select City buildings. Information will relate to stormwater pollution prevention issues. Stormwater related information will loop periodically each month with other City information on television screens.</p>	06/17
Public Involvement	<p>Look for City outreach and educational opportunities for the public and contractors, including public comment and reporting opportunities.</p> <p>Public Works Department</p>	<p>The City's stormwater website will target public and contractors. The website will be updated semi-annually and reviewed annually. The City will add an email link for the public to provide comment.</p> <p>The public may also submit stormwater related complaints through the website. The City will investigate and respond accordingly to the status of the investigation within 30 days. Records of comments and responses will be retained for 2 years.</p> <p>The City will post the NOI and SWMP on its stormwater webpage and post the annual MS4 Report as they are submitted and approved by ADEQ.</p>	12/17
Public Involvement	<p>Develop an inlet curb marker program.</p> <p>Public Works Department</p>	<p>Signage and markers near curb inlets will be installed and maintained/inspected annually. Will target public awareness.</p>	12/17
Public Participation	<p>Develop a Trash Collection/Recycling</p>	<p>The City will work with Sedona Recycles to develop a program</p>	12/17

	<p>Program.</p> <p>Public Works Department</p>	<p>encouraging those dropping off recycled material to pick-up material around the site that is wind-blown or fell out of containers. Success of this effort will be posting of signs encouraging the volunteer action and a noticeably cleaner area.</p> <p>Each year the City will participate in at least 2 trash pick-up events. The City may or may not be the sponsor, but it will be a participant. Material regarding prevention of stormwater pollution, and proper places to dispose of hazardous waste and green waste will be provided. Success of the event will be measured by turnout. The goal is to have at least 5 people volunteer for each event.</p>	
Public Participation	<p>Maintain the pet waste collection program.</p> <p>Public Works Department</p>	<p>The City will maintain the existing pet waste stations and continue the pet waste collection program. This program targets the public by enhancing awareness and encouraging participation. The program is conducted throughout the year. Program evaluation for effectiveness and opportunities for improvement will be conducted annually.</p>	12/17
Public Participation	<p>Develop program for collecting, maintaining, and processing public comments on the City's stormwater program.</p> <p>Public Works Department</p>	<p>Conduct a press release annually to request public comment and input regarding stormwater quality issues within the City. Comments received will be responded to within 30 days. Records of comments and responses will be retained for 2 years.</p>	07/17
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MCM 2: Public Involvement and Participation

Use this space to add any additional information about MCM2:

All Public Involvement and participation information is provided above.

G-3. MCM 3: Illicit Discharge Detection and Elimination (IDDE) Program

For MCM 3- Illicit Discharge Detection and Elimination (IDDE) Program, use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measurable Goals (column 3) for each BMP. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies)	Start Date (MM/YY) (enter your own text to override the drop down menu)
Stormwater Sewer Mapping	Complete stormwater sewer mapping. Public Works Department	The City has completed 80% of the stormwater sewer system mapping to date. The remaining portion will be completed by June 2018 (100% complete).	03/17
Training	Develop and implement a dry/wet weather and analytical monitoring training program. Public Works Department	The City will conduct dry weather, wet weather and analytical monitoring training program. The training will be completed by September 2017 and annually thereafter, or as needed for new staff.	04/17
Written IDDE Procedures	Develop written IDDE procedures. Public Works Department	Develop IDDE written procedures that will assist in finding and eliminating sources of non-stormwater discharges. Written IDDE procedures will be re-evaluated on an annual basis for completeness or new issues, at a minimum.	03/17
Dry Weather Screening	Develop a dry weather monitoring program. Public Works Department	City staff will develop an inspection program to identify illicit discharges in the City. The program shall include dry weather monitoring of 20% of the identified outfalls per year and investigation within 15 days of identifying or being notified of a potential illicit discharge. Findings of the dry weather monitoring will be included in the annual report.	04/17
Wet Weather Monitoring	Develop a wet weather monitoring program. Public Works Department	The City will develop and implement a wet weather monitoring program. This program will include two monitoring events in the winter season and two monitoring events in	06/17

		the summer season in response to a storm event that results in a discharge from the storm sewer system. The program will be fully implemented no later than June 1, 2017 and conducted annually.	
Analytical Monitoring	Develop an analytical monitoring program. Public Works Department	The City will develop and implement an analytical monitoring program. This program will include two analytical monitoring events in the winter season and two in the summer season in response to a storm event that results in a discharge from the storm sewer system. The program will be fully implemented no later than June 1, 2017 and conducted annually.	06/17
Outfall Inventory	Complete Outfall Inventory. Public Works Department	The City will complete an inventory of its outfalls by June 2018.	06/17
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MCM 3: Illicit Discharge Detection and Elimination (IDDE) Program

Use this space to add any additional information about MCM3:

All IDDE program information and details are provided above.

G-4. MCM 4: Construction Activity Stormwater Runoff Control

For MCM 4- Construction Activity Stormwater Runoff Control, use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measureable Goals (column 3) for each BMP. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies)	Start Date (MM/YY) (enter your own text to override the drop down menu)
Training	Provide construction site stormwater training for City staff. Public Works Department and City Inspectors	Provide training for City staff, inspectors and interested local contractors annually.	09/17
Education/ Public Involvement	Construction BMP brochure distribution and Stormwater Construction General Permit. Public Works Department	Continue efforts to distribute brochures and various BMPs to contractors. Brochures to be sent out annually.	06/16
Enforcement	Continue to enforce construction site enforcement policies and procedures. Public Works Department	The City will continue enforcing its construction site requirements. Enforcement will include informing offending parties of the violation(s) and allowing an opportunity to respond and correct the issue. Escalation of enforcement will occur as necessary. Enforcement policies/procedures will be reviewed annually.	12/17
BMPs Erosion/ Sediment Control	Maintain list of construction site BMPs which are available on the City's stormwater website. Public Works Department	The City will continue to maintain its list of preferred construction site BMPs which are available to contractors and available on the City's stormwater website. The BMPs will reviewed annually for effectiveness.	12/17
Inspections	Develop a Construction Site Inspection Program Public Works Department	Continue to implement and review construction site inspection program annually. During Construction, Capital Improvement Projects to be inspected biweekly, commercial developments to be inspected monthly, and residential construction	12/17

		to be inspected intermittently.	
Inventory	Develop a Construction and Post-Construction Permit Tracking Sheet Public Works Department	The City will develop a spreadsheet or database to keep an inventory of all construction activities that disturb or will disturb one (1) or more acres within the permitted area; including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.	12/17
Site Plan Review	Develop Site Plan Review Procedures. Public Works Department	Develop written procedures for site plan review. The site plan review shall include: a review by City staff of the site design; the planned operations at the location of the construction activity; planned stormwater controls to be used to manage runoff created after development.	12/17
Choose an item.	Click here to enter text.	Click here to enter text.	Choose an item.
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MCM 4: Construction Activity Stormwater Runoff Control

Use this space to add any additional information about MCM4:

No additional Construction Activity Stormwater Runoff Control information other than that provided above.

G-5. MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

For MCM 5- Post-Construction Stormwater Management in New Development and Redevelopment, use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measureable Goals (column 3) for each BMP. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies)	Start Date (MM/YY) (enter your own text to override the drop down menu)
Enforcement	Maintain the post-construction enforcement policies and procedures. Public Works Department	Maintain and review enforcement policies and procedures to ensure they are in compliance with Land Development Code Section 8, and City Code Title 13. Review the policies and procedures annually.	12/17
Training	Develop and provide training for construction and post-construction stormwater pollution prevention. Public Works Department	Provide annual training to inspectors to assist in identification of stormwater violations. This training may include additional City staff and invited contractors. This is to be conducted annually.	12/17
Inspections	Develop post-construction site inspection program. Public Works Department	Public Works Department will conduct post-construction site inspections. All Capital Improvement Projects shall be inspected annually. Twenty (20) percent of commercial properties with documented post-construction BMPs will be inspected annually.	01/17
Inventory	Develop and maintain a construction and post-construction tracking spreadsheet or database. Public Works Department	The City will keep an inventory of all construction and post-construction activities that disturb or will disturb one (1) or more acres within the permitted area; including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.	12/17
Runoff Control Assessment	Enforce and maintain existing program and policies for prevention of pollutant runoff from post-construction sites.	Public Works Department will conduct post-construction site inspections. All Capital Improvement Projects shall be inspected annually. Twenty (20) percent of commercial	01/17

	Public Works Department	properties with documented post-construction BMPs inspected annually. Any discrepancies found will be required to bring post-construction BMPs and inspections up to date in accordance with submitted plan/BMPs.	
Site Plan Reviews	Continue to implement site plan review policies and procedures for post-construction controls. Public Works Department	The City will continue to implement its procedures for post-construction site plan review. The site plan review shall include: a review by City staff of the site design; the planned operations at the location of the construction activity; planned stormwater controls to be used to manage runoff created after development.	08/17
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MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

Use this space to add any additional information about MCM5:

No additional information regarding Post-Construction Stormwater Management in New Development and Redevelopment to provide other than what is provided above.

G-6. MCM 6: Pollution Prevention and Good Housekeeping

For MCM 6- Pollution Prevention and Good Housekeeping, Insert the Facility Name applicable to the MS4. Use the pull down menu to indicate the BMP Category (column 1). You may override the selection and type in your own BMP. Include a brief description of the BMP (column 2) including the personnel position or department(s) responsible. Describe the Measureable Goals (column 3) for each BMP. Column 3 should include milestones, timeframes and frequencies. Insert the month and year (MM/YY) in the Start Date (column 4) to indicate the date the BMP was initiated or enter your own text to override the selection. For those BMPs that are not Facility specific, use the rows after the Facility Name inserts.

BMP Category (enter your own text to override the drop down menu)	BMP Description (include personnel position or department responsible)	Measurable Goals (include milestones, timeframes and frequencies)	Start Date (MM/YY) (enter your own text to override the drop down menu)
Insert Facility Name: City Maintenance Yard and City Parking Lots			
Cleaning Inlets/ Basins	Develop program for inspecting and cleaning out City property catch basins. Public Works Department	During rainy season, the City Maintenance Division routinely inspects and cleans out catch basin grates that may be clogged with trash/debris. This is typically bi-annual to coincide with AZ's biannual rainy seasons in winter and summer months.	01/17
Insert Facility Name: City Maintenance Yards, City Parking Lots, Streets/Highways			
Facility Prioritization	Develop a facility prioritization list for implementing and maintaining pollution prevention and good housekeeping measures. Public Works Department	Priority 1 – Maintenance yards, Priority 2 – City Parking lots and catch basins Priority 3 – Public Streets/Highways	01/17
Insert Facility Name: City Maintenance Yards and City Parking Lots			
Implement Controls	Develop an in-house inspection program. Public Works Department	Develop and enforce the operation and maintenance programs through an in-house inspection program.	01/17
Insert Facility Name: City Capital Improvement Projects			
Inspections	Develop inspection program and protocols for Capital Improvement Projects (CIPs). Public Works Department, and City Maintenance Division	Routinely inspect Capital Improvement Projects for compliance with their individual SWPPPs.	01/17

Insert Facility Name: City Maintenance Yards, City Parking Lots			
Inventory	<p>Develop a tracking spreadsheet or database for City-wide pollution prevention and good housekeeping procedures.</p> <p>Public Works Department</p>	<p>Develop and maintain a spreadsheet/database to track inspection of City properties for pollution prevention, good housekeeping compliance.</p>	12/17
Insert Facility Name: City Parking Lots			
O&M Procedures	<p>Develop an operation and maintenance of oil-water separators and catch basins program.</p> <p>Public Works Department, City Maintenance Division</p>	<p>Develop and maintain procedures for the operation and maintenance of City owned oil-water separators and catch basins. Routinely inspect oil-water separators, catch basins and conduct annual maintenance of the oil-water separators, annually inspect catch basins and remove debris.</p>	01/17
Insert Pollution Prevention and Good Housekeeping BMPs that are not facility specific below			
Reduce Trash/ Floatables	<p>Develop a catch basin maintenance program for trash/floatables reduction pollution prevention.</p> <p>City Maintenance Division</p>	<p>Inspect and clean out catch basin grates that may be clogged with trash/debris. Will be conducted bi-annual to coincide with rainy seasons in winter and summer months.</p>	01/17
Street Sweeping	<p>Maintain a street sweeping program</p> <p>Public Works Department</p>	<p>Maintain the monthly sweeping of city parking lots. The oil/water separators at city parking lots and maintenance yards will be maintained annually. City streets, including State Routes 89A and 179, including bike lanes, will continue to be swept monthly. The goal each month is 20 lane miles.</p>	01/17
SWPPP	<p>Develop SWPPP for each Capital Improvement Project.</p> <p>Public Works Department</p>	<p>SWPPPs are developed for each Capital Improvement Project (CIP). Frequency is as applicable projects are implemented.</p>	01/17
Training	<p>Provide training for pollution prevention and good housekeeping measures.</p> <p>Public Works Department</p>	<p>Provide annual training to City employees, and inspectors. Select contractors may also be invited to the annual training events.</p>	05/17

Written Procedures	Develop written procedures for pollution prevention and good housekeeping measures. Public Works Department	Develop written procedures and BMPs for pollution prevention and good housekeeping measures to be implemented, maintained, and inspected at applicable City facilities.	12/17
Choose an item.	Click here to enter text.	Click here to enter text.	Choose an item.
Choose an item.	Click here to enter text.	Click here to enter text.	Choose an item.

MCM 6 Pollution Prevention and Good Housekeeping

Use this space to add any additional information about MCM6:

No additional information to be provided for Pollution Prevention and Good Housekeeping other than that provided above.

H. MONITORING				
1. DRY WEATHER VISUAL OUTFALL MONITORING				
Has a dry weather visual discharge monitoring program been developed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
If the above answer is "yes," provide the actual date of implementation:		4/17/2017		
If the above answer is "no," provide estimated date of completion:		Click here to enter a date.		
Estimated total number of municipal stormwater outfalls	Percent of total number of municipal stormwater outfalls to be monitored each year			
40 to 70 (estimated)	20%			
2.A VISUAL STORMWATER DISCHARGE MONITORING				
Below identify a minimum of five outfalls or field screening points for the visual stormwater discharge monitoring program				
Outfall or field screening point identification number	Name of receiving water	Is the receiving water listed as an Impaired, Not-Attaining or OAW (choose one)?		
Screening Point 1	Oak Creek	Yes Not-Attaining and OAW		
Screening Point 2	Oak Creek	Yes Not-Attaining and OAW		
Screening Point 3	Oak Creek	Yes Not-Attaining and OAW		
Screening Point 4	Oak Creek	Yes Not-Attaining and OAW		
Screening Point 5	Oak Creek	Yes Not-Attaining and OAW		
2.B VISUAL STORMWATER DISCHARGE MONITORING ALTERNATIVE				
Are you proposing a visual stormwater discharge monitoring alternative?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
If "yes" a visual stormwater discharge monitoring alternative is being proposed, provide a description of the proposed alternative and how the proposed alternative is as effective as, or is more effective than, visual stormwater discharge monitoring in the space below.				
Click here to enter text.				
3. IMPAIRED, NOT-ATTAINING AND OAW MONITORING AND BMPS				
Part H.3 is to be completed only if the MS4 has outfalls that discharge to an Impaired, Not-Attaining or Outstanding Arizona Water (OAW), or a combination there of.				
Has a Sampling and Analysis Plan (SAP) been developed in accordance with permit Part 5.1.g?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
If the above answer is "no," provide an estimated date of completion for the SAP:		6/1/2017		
List each individual receiving water that is Impaired, Not-Attaining or an OAW that the MS4 discharges to	How many outfalls will be sampled?	List outfall ID or unique identification	List parameter(s) to be analyzed	Provide a description of how the selected BMPs will specifically address the pollutant(s) causing the impairments or how the BMPS will be protective of the OAW

Oak Creek	5	Outfalls 1 - 5	E. Coli	Public outreach and vigorous pet waste collection program efforts will reduce E. Coli impacts. Outfall monitoring (Dry/wet/sampling), storm drain maintenance will assist in identifying issues with BMPs or non-compliance of the BMPs. Training of employees, contractors will assist in enforcing City Ordinances and Land Development Codes. Street and City Parking Lot sweeping will help in reducing automotive petrochemical wastes reaching Oak Creek. Tributary stormwater signs and curb inlet markers will increase public awareness of impacts to Oak Creek.
Click here to enter text.		Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.		Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.		Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.		Click here to enter text.	Click here to enter text.	Click here to enter text.

I. NOTES AND ADDITIONAL INFORMATION

Use the space below to provide any additional information about the MS4 program.
 Click here to enter text.

J. FEES

Fill out either Part A for a New Permittee or Part B for an Existing Permittee. If a New Permittee, choose one check box below to indicate the MS4s population and applicable initial permit fee. Insert the total payment included with the NOI in the text box. If an Existing Permittee, choose one check box below to indicate the MS4s population. Note: The estimated MS4 population should be based on latest Decennial Census by the Bureau of Census.



Part A <input type="checkbox"/> New Permittee. I confirm the correct fee payment is included with the NOI. <input type="checkbox"/> <or = to 10,000: \$2,500 <input type="checkbox"/> >10,000 but ≤ 100,000: \$5,000 <input type="checkbox"/> > 100,000: \$7,500 <input type="checkbox"/> Non-traditional MS4 such as hospital, college or military: \$5,000 Total fee payment included: Click here to enter text.	Part B <input checked="" type="checkbox"/> Existing Permittee. No fee is required for NOI submission. You will continue to be invoiced on your current annual fee billing cycle. <input type="checkbox"/> <or = to 10,000 <input checked="" type="checkbox"/> >10,000 but ≤ 100,000 <input type="checkbox"/> > 100,000 <input type="checkbox"/> Non-traditional MS4 such as hospital, college or military
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

K. CERTIFICATION

Pursuant to A.R.S. § 41-1030:

(1) ADEQ shall not base a licensing decision, in whole or in part, on a requirement or condition not specifically authorized by statute or rule. General authority in a statute does not authorize a requirement or condition unless a rule is made pursuant to it that specifically authorizes the requirement or condition.

(2) Prohibited licensing decisions may be challenged in a private civil action. Relief may be awarded to the prevailing party against ADEQ, including reasonable attorney fees, damages, and all fees associated with the license application.

(3) ADEQ employees may not intentionally or knowingly violate the requirement for specific licensing authority. Violation is cause for disciplinary action or dismissal, pursuant to ADEQ's adopted personnel policy. ADEQ employees are still afforded the immunity in A.R.S. §§ 12-821.01 and 12-820.02.

I certify under penalty of law that I have met the eligibility conditions of this permit and 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 gather and evaluate 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Printed Name: J. Andy Dickey, PE	Title: Director of Public Works/City Engineer
Ink Signature 	Date: 3/20/17

ATTACHMENT C
Jurisdictional Boundary Map






CITY OF SEDONA

STORMWATER MANAGEMENT PLAN

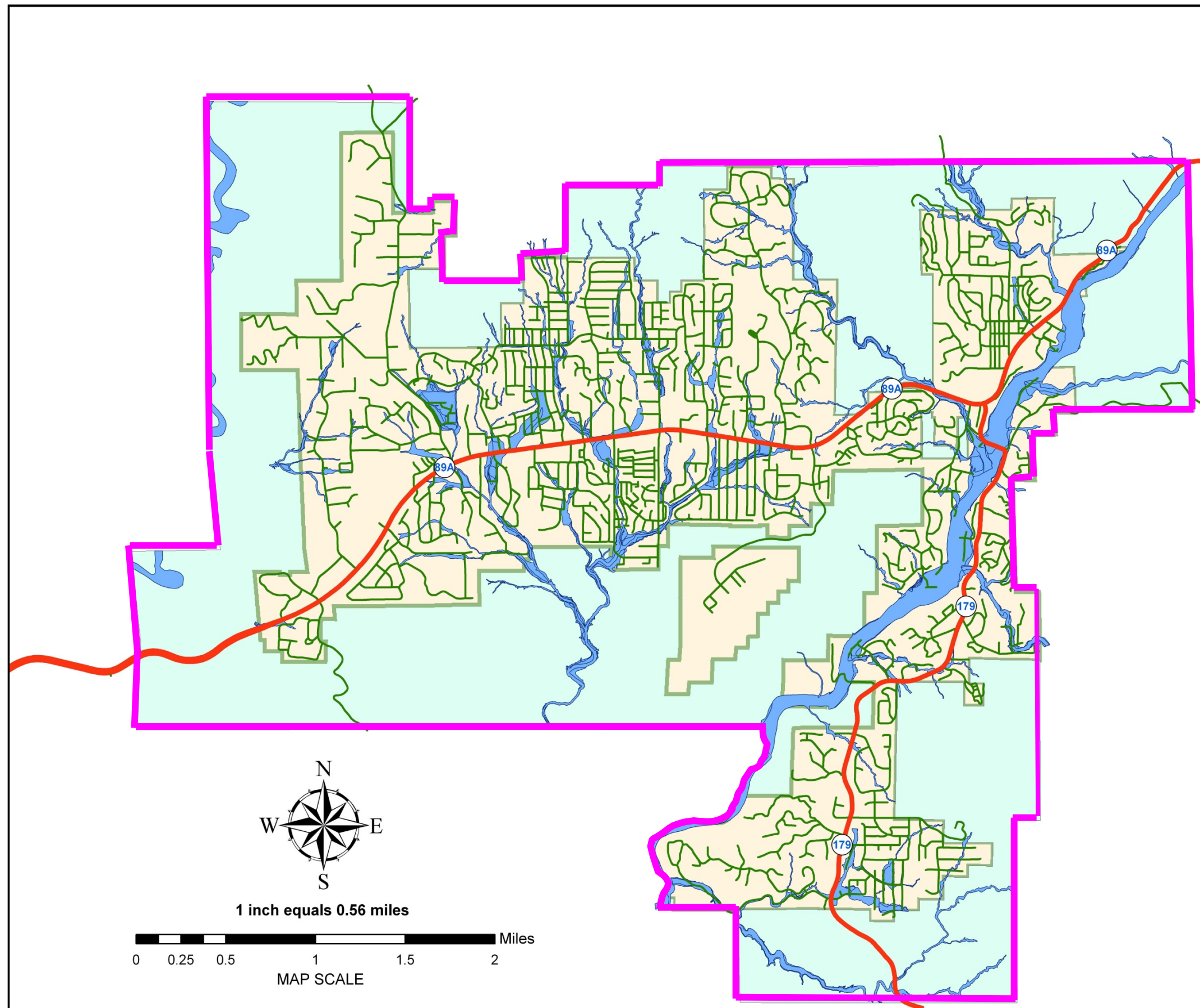


LOCATION MAP

LEGEND:

-  CITY
-  FOREST SERVICE
-  DRAINAGE SYSTEMS
-  STATE HIGHWAYS
-  STREETS

ATTACHMENT C JURISDICTIONAL BOUNDARY MAP



















ATTACHMENT D
Existing Land Use Map

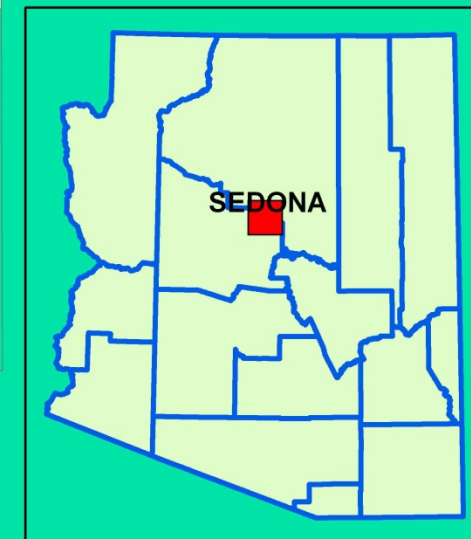
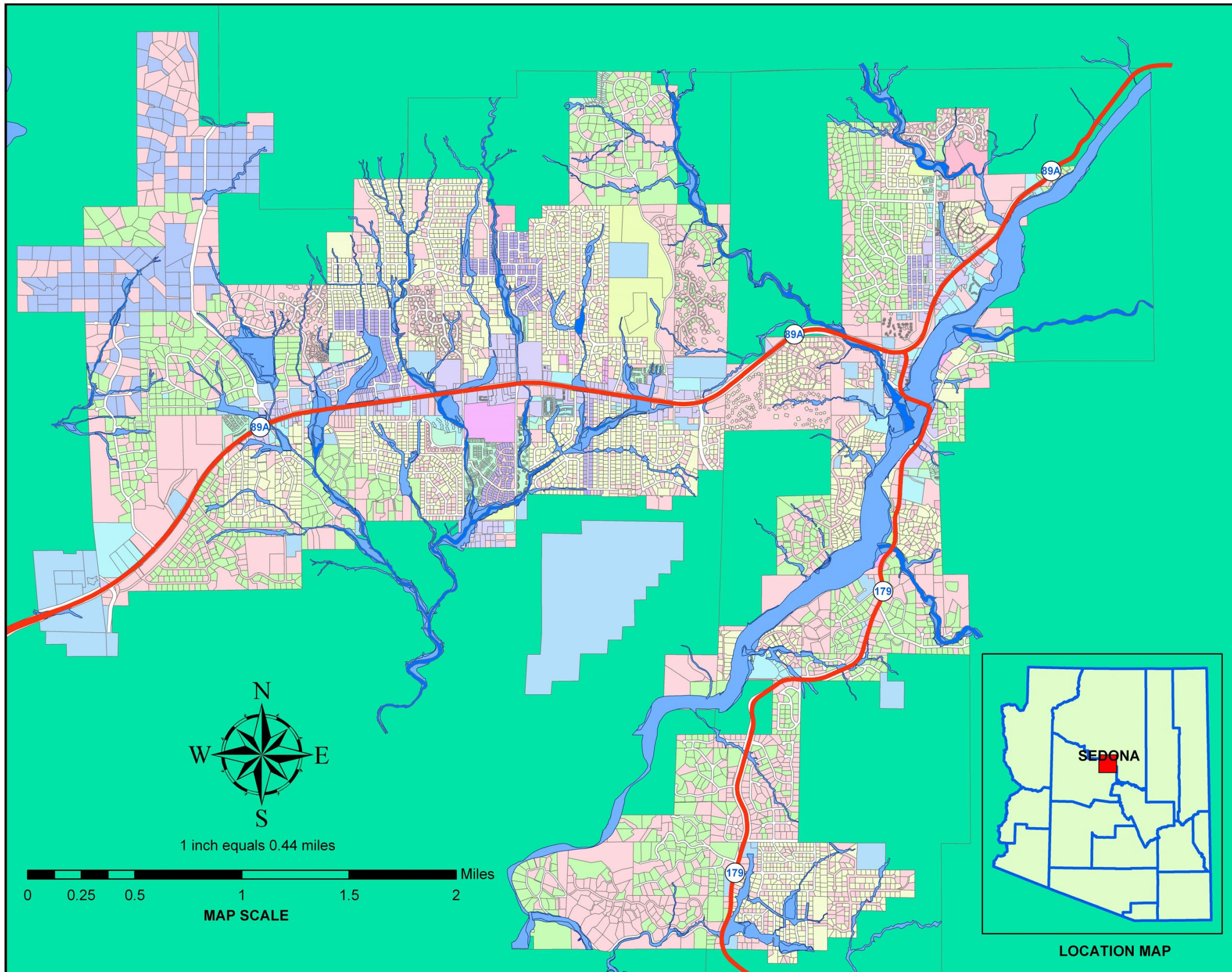
CITY OF SEDONA

STORMWATER MANAGEMENT PLAN

LEGEND:

-  General Commercial
-  Lodging
-  Mobile Home Park
-  Multi-Family
-  Open Space
-  Park
-  Public/Semi-Public
-  Single Family High Density
-  Single Family Low Density
-  Single Family Medium Density
-  Single Family Very Low Density
-  Transitional
-  United States Forest Service
-  Vacant
-  Flood Hazard
-  Floodway

ATTACHMENT D EXISTING LAND USE MAP



LOCATION MAP

ATTACHMENT E
STORM SEWER SYSTEM MAP

CITY OF SEDONA

STORMWATER MANAGEMENT PLAN

LEGEND:

Minor Tributary Streams

State Highways

Urban Boundary

Floodway

Flood Hazard

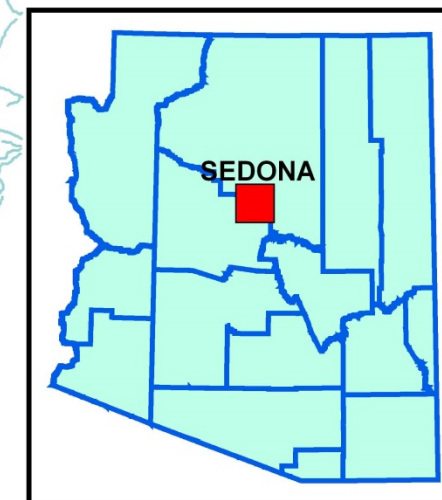
Drainage Pipes

Box

Bridge

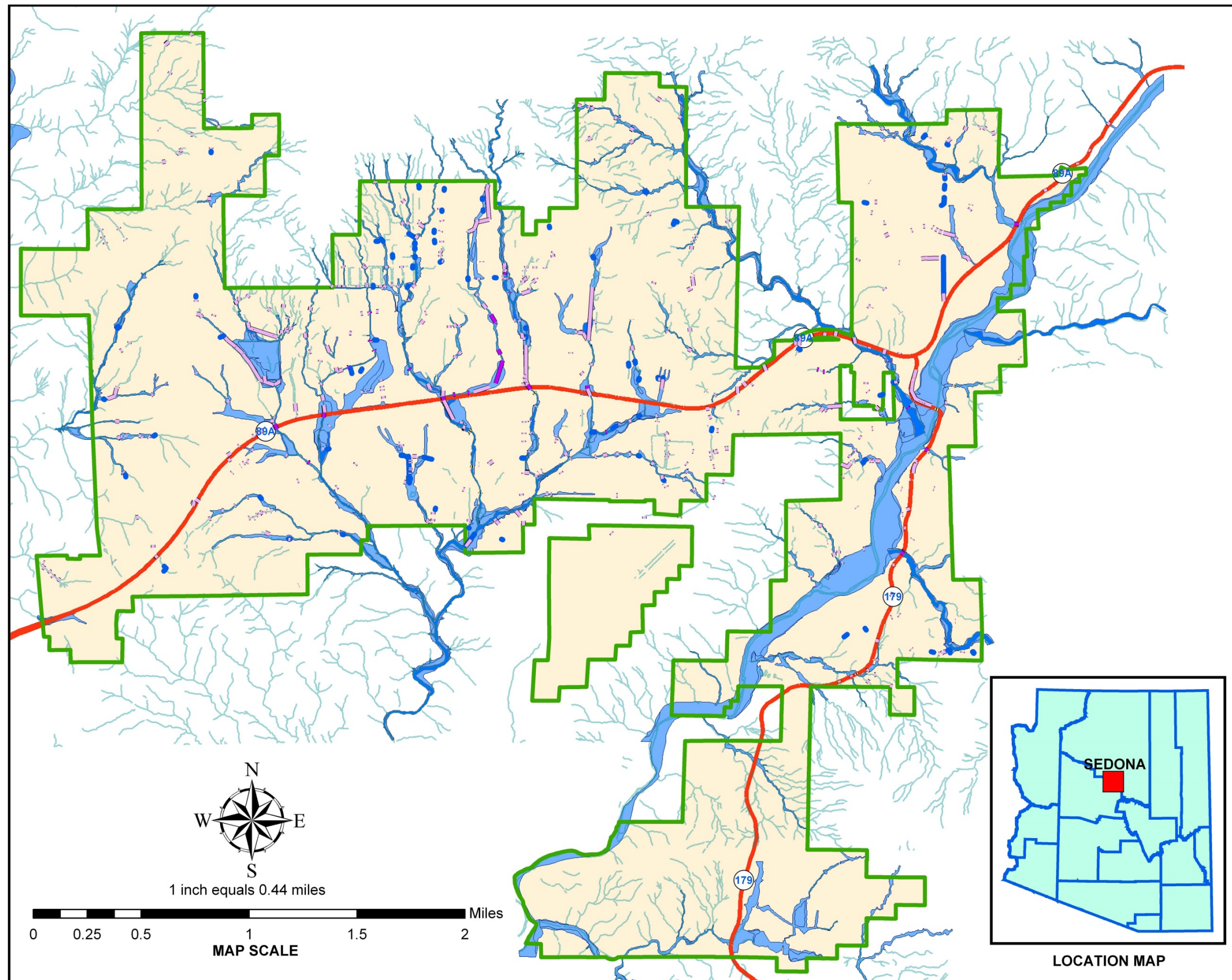
Pipe-Arch

Round

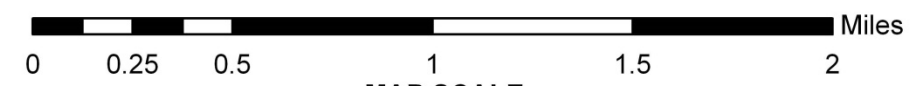


LOCATION MAP

EXHIBIT NO. 3 STORM SEWER SYSTEM MAP



1 inch equals 0.44 miles



MAP SCALE

ATTACHMENT F
SWMP Modification Log

City of Sedona SWMP Modification Log

Modification Made By: _____

Purpose for Modification:

Description of Modification:

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

Signed: _____

Date: _____

Printed: _____
