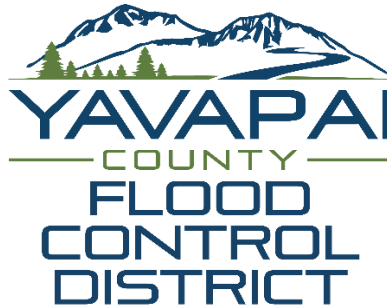


STORMWATER MANAGEMENT PROGRAM
FOR
YAVAPAI COUNTY, ARIZONA



In compliance with the
Arizona Pollutant Discharge Elimination System (AZPDES) General Permit (AZG2021-002)
for Discharge from Small Municipal Separate Storm Sewer Systems (MS4s) to Protected
Surface Waters

Posted at the direction of the

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
WATER PERMITS SECTION
PHOENIX, ARIZONA 85012-2809

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- Tab H Industrial property inventory
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1.0 Introduction/Coverage Under the General Permit

The purpose of this Stormwater Management Program (SWMP) is to comply with Arizona Department of Environmental Quality's (ADEQ's) general permit AZG2021-002 (the permit) for the discharges of stormwater from Yavapai County's (the County) Municipal Separate Storm Sewer System (MS4). The County desires to discharge under the mentioned permit and thus has completed the Notice of Intent (NOI) (see Tab D) and this SWMP in accordance with the permit.

1.1 Permit Area

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The County operates a small MS4 as designated under 40 CFR 122.28(a)(1) and 40 CFR 122.32(1)(a). The County's MS4 is that portion of unincorporated area in urbanized areas within the Yavapai County boundary, as determined by the most recent EPA accepted Decennial Census conducted by the Bureau of the Census. The County's MS4 boundary connects to the MS4s of Prescott, Prescott Valley, Cottonwood, and Arizona Department of Transportation. Exclusions from this permit are all private roads and private commercial and residential development not connected to a County stormwater collection and conveyance system.

The Area of Yavapai County is 8,125 square miles.

The Area of the Yavapai County MS4 encompasses 21.1 square miles, contains a residential population of 27,916 people, 149 commercial businesses, and 44 industrial businesses.

See Tab E for the Yavapai County MS4 map and the corresponding Yavapai County MS4 Receiving Water Table (Tab I).

The Yavapai County MS4 is interconnected with four other MS4s: City of Prescott, Town of Prescott Valley, City of Cottonwood, and the Arizona Department of Transportation.

1.2 Eligibility

The County is authorized to discharge stormwater from the MS4 to local waters on the protected surface water list (PSWL), including discharges to waters of the U.S. (WOTUS) and non-WOTUS protected surface waters. The requirements of discharges to non-WOTUS protected surface waters are state-only, and enforceable solely by ADEQ. The County will comply with all the requirements of the permit and the MS4 is located partially within an urbanized area as determined by the latest EPA accepted Decennial Census by the Bureau of Census.

1.3 Non-Stormwater Discharges and Limitations of Coverage

The County has determined that the following discharges are not significant contributors of pollutants to the MS4, and are therefore considered allowable non-stormwater discharges:

- | | |
|--|--|
| a) Water line flushing | h) Foundation drains |
| b) Landscape irrigation, including flood irrigation | i) Air conditioning condensation |
| c) Diverted stream flows | j) Irrigation water |
| d) Rising ground waters | k) Springs |
| e) Uncontaminated ground water infiltration to separate storm sewers | l) Water from crawl space pumps |
| f) Uncontaminated pumped groundwater | m) Footing drains |
| g) Discharges from potable water sources | n) Lawn watering |
| | o) Individual residential car washing |
| | p) Flows from riparian habitats and wetlands |

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- q) Dechlorinated swimming pool discharges
- r) Street wash water
- s) Discharges or flows from firefighting activities
- t) Discharges authorized by another NPDES or AZPDES permit.

If any of the discharges listed above are found to be significant contributors of pollutants, the County will address it as an illicit discharge.

Most discharges mixed with sources of non-stormwater discharge, or those associated with industrial or construction activity, or those covered under another permit, are not authorized.

Point-source discharges to an Outstanding Arizona Water (OAW) are not authorized.

Discharges to impaired or not-attaining waters, listed in the Clean Water Act 303(d) list of Impaired Waters, if discharge(s) from the MS4 contain, or may contain, pollutant(s) for which the receiving water is listed are not authorized, except:

- a) If a TMDL has been established and the program is consistent with the requirements of the TMDL, including any wasteload allocation or load allocation in the TMDL, 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 (SWQS).

See Tab I for a list of impaired waters and for the status of TMDL/WLA for the water courses within the Yavapai County MS4. See the BMP section and Tab N to view the practices the County will use to meet waste load allocations or to control discharges.

Unless explicitly specified otherwise in the SWMP, all actions proposed to be undertaken exclusively apply to the designated MS4 only. Actions taken beyond these geographic bounds are done so at the discretion of the County.

2.0 Authorization under the MS4 General Permit

2.1 Obtaining Permit Coverage

The County has submitted a complete and accurate NOI (attachment 1) on the form provided by the department and includes the following information:

NOI MINIMUM REQUIRED INFORMATION	
Name of MS4:	Yavapai County
Operator name and title:	Lynn Whitman, Director, Yavapai County Flood Control District
Mailing address:	1120 Commerce Drive Prescott, AZ 86305
Annual fee billing information:	\$7135 (as of 2023)

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Contact person:	Benjamin Serpa, Stormwater Engineer, YCFC
Contact information:	benjamin.serpa@yavapaiaz.gov MS4@yavapaiaz.gov (928) 442-5390
Estimated Population of regulated area:	27,916 (see Yavapai County MS4 Population table, Tab F)
Protected surface waters:	See Yavapai County MS4 Receiving/Protected Water Table, Tab I
The number of outfalls that discharge to a protected surface water:	26. See Yavapai County MS4 Receiving/Protected Water Table, Tab I
Outfall name or identification, for outfalls that discharge to a protected surface water:	See the Yavapai County MS4 Outfall Table, Tab J

2.2 Permit Fees

Upon submitting the NOI, then annually, Yavapai County will pay the invoice issued by the department as established in A.A.C. R18-14-109, Table 6. As of this writing, the fees are as indicated in the table below, based on the population of the permitted area:

Less than or equal to 10,000:	\$3568
Greater than 10,000 but less than or equal to 100,000:	\$7135
Greater than 100,000:	\$10703

Permit fees are likely to increase in Fiscal Year 2024.

2.3 Terminating Coverage

Coverage under this general permit may be terminated by submitting a Notice of Termination (NOT) form, provided by ADEQ.

2.4 Coverage under an Individual Permit

The County may request, or be required by the Director, to obtain coverage under an individual permit.

2.5 Continuation of the General Permit

If the Small MS4 General Permit is not reissued prior to the expiration date, it will be administratively continued and remain in effect.

3.0 Stormwater Program Enforcement

3.1 Establish Enforcement Procedures

On September 19, 2011, the Yavapai County Board of Supervisors adopted the *Yavapai County Stormwater Quality Management and Discharge Control Regulation (The Regulation)*

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(Tab Q). The Regulation ensures that the County is compliant with the Arizona Pollutant Discharge and Elimination System (AZPDES) permit requirements by establishing methods for controlling the introduction of pollutants into the County’s MS4. The objectives of the Regulation are:

- 1) To regulate the contribution of pollutants to the County MS4 by stormwater drainage in unincorporated urbanized areas by any user.
- 2) To prohibit illicit connections and drainages to the County MS4
- 3) To establish legal authority to carry out all inspection, surveillance, monitoring, and enforcement procedures necessary to ensure compliance with the Regulation.

3.2 Enforcement Requirements

An outline of the legal authority is summarized in figure 3.01 of this document.

3.3 Enforcement Response Plan

Yavapai County has developed an Enforcement Response Plan (ERP), Tab M. The ERP specifies how the County will exercise its legal authority to comply with the permit. The ERP establishes escalated enforcement for non-compliance of illicit discharges and construction activities. Factors for prioritizing escalated enforcement are:

1. Severity of non-compliance
2. Repeated non-compliance
3. Proximity to a receiving water or storm sewer system
4. Other appropriate factors

PERMIT REQUIRMENT	LEGAL AUTHORITY
Authority to Prohibit Illicit Discharges	The County prohibits Illicit Discharges per Chapter 5 of the Regulation
Authority to Prohibit Spills or other releases	The County prohibits spills and other releases per section 501 and Chapter 9 of the Regulation
Authority to Require Compliance	The County has authority to require compliance per section 1004 of the Regulation
Authority to Require Installation, Implementation, and Maintenance of Control Measures	The County has authority to require installation, implementation, and Maintenance of control measures per chapter 8 of the Regulation

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Authority to Inspect	The County has the authority to inspect facilities, equipment, practices, or operations related to stormwater discharges per section 606.1 of the Regulation
Response to Violations	The County has the ability to promptly require violators to cease and desist illicit discharges per section 1005 of the Regulation. See also the requirements of section 3.3 Enforcement Response Plan (Tab M).
Civil Criminal Penalties	The County has the ability to impose civil or criminal sanctions per section 1008 of the Regulation
Identify Departments	YC will review and revise (as needed) the organizational chart (Tab O). See the Yavapai County MS4 General Permit Compliance Matrix (Tab P) specifying the departments and positions that conduct stormwater related activities and their roles and responsibilities under the permit.
Identification of administrative and legal procedures	Chapter 10 "Violations, Enforcement, Penalties and Authority" of the Regulation identifies the administrative and legal procedures available to mandate compliance with stormwater-related ordinances and therefore with the conditions of the permit.
A description of how Stormwater-related ordinances are implemented and appealed	The Regulation offers a description of how stormwater-related ordinances are implemented and appealed.

Figure 3.01

4.0 Stormwater Management Program

The County designed the Stormwater Management Program (SWMP) to accurately describe the plans, measurable goals, activities, and controls implemented to meet the terms and conditions of the permit with regard to the reduction of pollutant discharges in or through the MS4. The County will annually assess, evaluate, and update the BMPs in the SWMP and incorporate any revisions necessary to maintain permit compliance. The annual SWMP review will be completed in connection with preparing the annual report.

4.1 Contents of the SWMP

See figure 4.01 for the location within the SWMP documents for the permit's minimum requirements for the SWMP document.

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4.2 SWMP Availability

To maximize availability, the most current SWMP is posted on the Yavapai County Flood Control District’s website at: <https://www.yavapaiaz.gov/Resident-Services/Flood-Control/Stormwater-Management-Program>

MINIMUM REQUIREMENT	LOCATION IN SWMP DOCUMENT
Listing of all protected surface waters, their classification under the applicable SWQS, any impairments and associated pollutants of concern, applicable TMDLs and WLAs, and number of outfalls from the MS4 that discharge to each waterbody	See Yavapai County Small MS4 Receiving Waters Table (Tab I) and the Yavapai County Small MS4 Outfalls Table (Tab J).
The process and schedule for maintaining an up-to-date map that includes, at a minimum, the storm sewer system, outfalls, and protected surface waters	See section 6.3
Illustrate areas not subject to the MS4 and identify why there is no discharge within the MS4 boundaries	None
Listing of ongoing discharges that cause or contribute to the exceedance of an applicable SWQS	None
Description of practices to achieve permit compliance. For each permit condition, identify: Personnel, position or department responsible for implementation, and the BMPs for each control measure or permit requirement	See Best Management Practices on page 15 and BMP Schedules at Tab N
Description of practices to achieve compliance with applicable TMDLs or WLA, including measurable goals for each BMP and corresponding milestones and timeframes. List each goal’s measure of assessment	See Best Management Practices on page 15 and BMP Schedules at Tab N
Analytical monitoring program for impaired or not-attaining waters, and for OAWs to ensure permit compliance, WLAs, and SWQS	See Section 7.0
The analytical monitoring program shall include a Sampling and Analysis Plan (SAP) that includes: 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	See section 7.0 – 7.6 and Tab K
Protocol for annual program evaluation (Part 8.1). Update annually and maintain copies	BMP Schedules (Tab N)

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Identification of personnel (department, position, etc.) responsible for program implementation	See Yavapai County Stormwater organizational chart (Tab O)
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Figure 4.01

5.0 Water Quality Standards

The County enforces a program that was developed and implemented 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 federal and state laws.

5.1 Water Quality Based Effluent Limitations

The County will meet the provisions of the permit to ensure that discharges from the MS4 do not cause or contribute to exceedance of SWQS, in addition to requirements to reduce the discharge of pollutants to the maximum extent practicable. The County has established BMPs and conducts analytical monitoring as required.

5.2 Surface Water Quality Standards (SWQS)

The County will implement the six (6) minimum control measures specified in Part 6 of the Permit to the maximum extent practicable to protect water quality, and to satisfy water quality requirements of the Clean Water Act (CWA), including attainment of SWQS.

If a discharge from the MS4 is causing or contributing to an exceedance of an applicable SWQS, the County will expand or tailor its BMPs within the scope of the six (6) minimum control measures in Part 6 of the permit to achieve progress toward attainment of the SWQS. The requirements for discharges to non-WOTUS protected surface waters are state-only, and enforceable solely by ADEQ.

6.0 Minimum Control Measures (MCMs)

The County will reduce the discharge of pollutants to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate federal and state requirements by implementing the six (6) minimum control measures (MCMs) in parts 6.1 – 6.6 of the permit. Implementation of the MCMs may be shared with another entity (including an interconnected MS4) or the other entity may fully implement the measure or requirement, as long as requirements are satisfied.

The County is ultimately responsible for MCM implementation and overall permit compliance.

6.1 Public Education and Outreach

The County will implement an educational program that focuses on the impacts of stormwater discharges to and from the MS4. The goal of the program is to create an informed and

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knowledgeable community to help the Yavapai County Stormwater Management Program succeed.

Public education and outreach efforts will reach at least one (general public, residential community, homeowner, or school) and one business sector (community/HOA, construction site operators, targeted sources, or commercial or industrial) permit target group and convey one or more permit educational and outreach topic(s) during each year of the permit term. The permit topics are not exclusive, and the County may focus on one or more target groups and topics most relevant to the MS4.

The County will show progress toward attainment of education goals and evaluate program effectiveness. Messaging and methods will be modified as needed to maximize effectiveness.

6.2 Public Participation and Involvement

The County provide the public with opportunities to participate in the review and implementation of the SWMP and stormwater controls, and document participation.

Public involvement activities will comply with state and local public notice requirements. The SWMP and all annual reports will be available to the public on the Yavapai County Flood Control District - Stormwater website.

The public may report spills, discharges, or dumping in the MS4
Online at: [Report Potential Water Pollution Form \(yavapiaz.gov\)](https://www.yavapiaz.gov/report-potential-water-pollution-form),
via email at: reportwaterpollution@yavapiaz.gov, or by phone at (928) 771-3197.

6.3 Illicit Discharge Detection and Elimination (IDDE) Program

The County's IDDE program exists to detect and eliminate illicit, non-stormwater discharges into the MS4. It can be found online, under Tab L of the SWMP, and in hardcopy at the Yavapai County Flood Control District office at 1120 Commerce Drive in Prescott, AZ. The IDDE program contains a complete map geodatabase that includes the MS4 Storm Sewers, protected surface waters, outfalls, and other data.

The Yavapai County Stormwater Regulation (ordinance) (Tab Q) is the mechanism through which non-stormwater discharges are prohibited from entry into the MS4. IDDE Program records will be submitted to ADEQ in the Annual Report, using the downloadable tabular format from ADEQ's MyDEQ online reporting system.

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Illicit discharges will be eliminated as expeditiously as possible, following the guidance of the IDDE Program (Tab L). The County will identify and notify responsible parties of illicit discharges and eliminate the discharge immediately, or as expeditiously as possible.

Yavapai County maintains an up-to-date map of the MS4 which is sufficient to identify and isolate illicit discharges. The County uses an Esri ArcGIS geodatabase to house and display the necessary components of the MS4. The components that make up the geodatabase are:

- 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 County and convey stormwater to protected surface waters and are within the County MS4 area)
- b) Location of all outfalls
- c) Name and location of catchment areas and receiving waters that receive discharges from outfalls
- d) Land use categories

Storm sewer mapping infrastructure is available to the Arizona Department of Environmental Quality (ADEQ) or the United States Environmental Protection Agency (EPA) upon request. The County will annually assess (in conjunction with the MS4 annual report) and update as needed, the storm sewer system mapping. The geodatabase and MS4 maps will be updated annually to reflect the annual assessment of the MS4 mapping. The County will include a narrative description of the status (including any updates) of the storm sewer system mapping, outfall mapping, and waters of the U.S. that receive discharges from outfalls in each annual report.

The following categories of non-stormwater discharges or flows shall be addressed when identified as sources of pollutants to a protected surface water:

- a. Water line flushing
- b. Landscape irrigation, including flood irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated groundwater infiltration to separate storm sewers
- f. Uncontaminated pumped groundwater
- g. Discharges from potable water sources
- h. Foundation drains
- i. Air conditioning condensation
- j. Irrigation water
- k. Springs
- l. Water from crawl space pumps
- m. Footing drains; Lawn watering
- n. Individual residential car washing
- o. Flows from riparian habitats and wetlands

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- p. Dechlorinated swimming pool discharges
- q. Street wash water
- r. Discharges or flows from emergency firefighting activities
- s. Discharges authorized by another NPDES or AZPDES permit.

The County will conduct dry weather and wet weather visual monitoring of at least 20% of outfalls per year, to identify, monitor, and eliminate illicit discharges; and to ensure compliance with effluent limitations.

Visual monitoring will be conducted in accordance with the Outfall Assessment and Monitoring Manual (Tab K). If an illicit discharge is discovered during visual monitoring, steps will be taken to eliminate it and follow-up inspections will be accomplished as needed to fully eliminate the discharge(s).

6.4. Construction Activity Stormwater Runoff Control

The goal of the Yavapai County MS4 construction stormwater runoff control program is to minimize or eliminate pollutant discharges to the MS4 from construction sites. The primary pollutant is most often sediment, mobilized by removal of vegetation, digging, grading, excavating, wind, or runoff. The sediment can also act as a transport mechanism for other pollutants such as oils, fertilizers, and other materials found or used at construction sites.

The construction stormwater runoff control program is developed 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 that will ultimately disturb one acre or more, even if the construction activities occur at different times.

Chapter 6 of the Regulation (Tab Q) addresses construction site stormwater runoff pollution control. This includes requirements to ensure that erosion will be minimized, sediment transport managed and that controls for other wastes are in place during the construction process.

Chapter 16 of the Drainage Design Manual for Yavapai County states that appropriate erosion control measures are required at construction sites and shall be in accordance with the Flood Control district of Maricopa County Erosion Control Manual (FCDMC, 2018). <https://fcd.maricopa.gov/DocumentCenter/View/43635/Erosion-Control-Manual-December-2018>

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The County will maintain an inventory of all construction activities that disturb or will disturb one (1) or more acres within the MS4, 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.

The *Yavapai County Construction Site Inspections and Plan Reviews* procedures were published in December 2018. The procedures cover inventories, site inspections, plan reviews, and employee training.

6.5 Post-Construction Stormwater Management in New- and Re-Development

The Yavapai County MS4 post construction stormwater management program is to ensure any stormwater controls or management practices for new development and redevelopment will prevent or minimize impacts to water quality from stormwater runoff to preserve and protect the physical, chemical, and biological characteristics of protected surface waters. The Program will 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 MS4.

Chapter 6 “Stormwater Quality” of the Drainage Design Manual for Yavapai County establishes a minimum level of control for new development at which stormwater pollution prevention practices are put in place. This minimum standard is “First Flush” and consists of retaining the first 0.5 inch of direct runoff from a storm event. This minimum level of control is met by following the County retention requirement (chapter 15). In the event that normal County retention standards are waived, new development will adhere to the County’s first flush requirement.

The Yavapai County Post-Construction Stormwater Control Inspection Procedures were published in February 2020. The procedures cover post-construction site plan reviews, inspection of stormwater controls, and first-flush inventories.

6.6 Pollution Prevention and Good Housekeeping for Municipal Operations

The ultimate goal of the Yavapai County MS4 pollution prevention and good housekeeping for municipal operations program is to prevent or reduce pollutant runoff and protect water quality from municipal operations that are not subject to separate AZPDES permitting. The program includes control measures for reducing or eliminating the discharge of pollutants from County streets and roads, parking lots, maintenance and storage yards, fleet or maintenance shop outdoor storage areas, County salt/sand storages and snow disposal

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areas, waste transfer stations, and disposal of waste from separate storm sewers and areas listed above.

Best Management Practices (BMPs)

Applicable BMP schedules/timelines may be found at Tab N of the Stormwater web page.

BMP 1.1: Yavapai County website

Measurable Goal: The Flood Control District Stormwater Engineer will work with the Information Technology Systems Department to successfully continue operating a stormwater management web page. Information to the website will be reviewed semiannually and updated as needed. The County will conduct a survey during the first year of the permit term to establish a benchmark for future surveys. The County will conduct a similar survey at the end of the permit term to ascertain behavioral changes of the website visitors.

Justification: Utilizing the County website will educate public on local stormwater and water quality issues. Support for the program will grow as the public gains a greater understanding of the program.

BMP 1.2: MS4 demographic inventory

Measurable Goal: During the development of this SWMP, the Flood Control District Stormwater team worked with the Geographic Information Systems (GIS) Department to compile demographic data for the MS4. Demographics are grouped according to land use and potential pollutant types in the following categories: 1) MS4 area, population, parcels, County-owned roads 2) Commercial properties, 3) Industrial properties, 4) Construction Sites, and 5) Receiving/protected surface waters. The County will continue to track potential pollutant type, and receiving water or downstream interconnected MS4 for County MS4 parcels.

Justification: The demographic data from the MS4 allows the County to understand the MS4, and to tailor education and outreach messaging. Specific stormwater and pollutant information can be created to reach specific areas of the MS4. GIS and demographic data is crucial across all of the BMPs for the management and operation

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of the MS4. Success for this BMP will be measured through the success of the other education/outreach BMPs.

BMP 1.3: Public educational outreach program

Measurable Goal: The Flood Control District will continue to hold in-person events to disseminate a minimum of two (2) appropriate topic educational messages to a minimum of two (2) target audiences per year. The outreach program will focus on the stormwater quality and pollution prevention topics listed in the permit. The County will conduct question and answer sessions at each in-person event to gauge audience learning. Periodic surveys will be conducted to measure behavioral changes of MS4 residents. The Flood Control District has the ability to quickly determine effectiveness of messaging and adapt or adjust quickly for maximum effectiveness.

Justification: Educating the general public and commercial/industrial businesses on stormwater, SWQS, pollution prevention, and responsible development will influence behaviors and potentially improve surface water quality.

BMP 1.4: Outreach educational messages

Measurable Goal: The Flood Control District will continue to make extensive use of social media, brochures, newsletters, electronic materials, displays, etc., to distribute/deliver a minimum of two (2) educational messages to at least two different target audiences each year of the permit term. Social media views, likes, and reposts will help gauge the response to messaging. The Flood Control District will conduct a survey to ascertain behavioral changes due to educational messages by the end of the permit term. If a message is deemed to be ineffective at any time, it will be modified prior to the next delivery of that message.

Justification: Educating various demographics and audiences within the MS4 area on stormwater and water quality issues will help promote better public awareness and help the program to be successful. Social media engagement since 2020 has proven to be the most highly effective method of outreach and continues to increase and improve. The Flood Control District is committed to using the best messaging methods available as technologies continue to evolve.

BMP 2.1: Public notice requirements

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Measurable Goal: Yavapai County Flood Control staff will notify the public through publication of agendas in accordance with public notice requirements, emails, and social media regarding future updates or changes to the Stormwater Management Program.

Justification: Proper notification is necessary to provide the public an opportunity to get involved in the County's MS4 Stormwater Management Program.

BMP 2.2: SWMP and annual report availability

Measurable Goal: The Flood Control District will make the most recent SWMP and all annual reports available to the public. The SWMP and Annual Reports will remain available on the stormwater page of the Flood Control District's website at [Stormwater Management Program \(yavapai.gov\)](https://www.yavapai.gov/stormwater)

Justification: Availability of current documents is an excellent way to keep interested parties informed about the status of the Yavapai County Stormwater Management Program.

BMP 2.3: SWMP review participation opportunities

Measurable Goal: The Flood Control District will provide opportunities to engage the public to participate in the review and implementation of the SWMP. The public is encouraged to review the SWMP online at any time, and email comments or questions to stormwater@yavapai.gov. Additionally, the Flood Control District will host a public, in-person SWMP review, during which County residents can provide comments, concerns, and recommendations to improve the Yavapai County SWMP.

Justification: The online opportunity is designed to allow those with health concerns an opportunity to participate. In-person SWMP reviews are designed to occur annually in the hopes of productive engagement between the public and the County in the review and update process. Through discussion, new and innovative ideas might come to light that will maximize SWMP effectiveness.

BMP 2.4: Encourage public participation via local organizations and community events

Measurable Goal: Yavapai County will encourage public participation through involvement with various local organizations and community events such as: Friends

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of the Verde River, The Nature Conservancy, Prescott Chapter of the Sierra Club, Prescott Creeks Preservation Association, Audubon Society, local HOA's, and various clean up events. Links to organizations and events will be made available on the Yavapai County Flood Control District Stormwater web page.

Justification: Public clubs and events are an excellent way to engage public involvement and to help the Yavapai County SWMP succeed.

BMP 3.1: Review of IDDE program Storm Sewer Mapping

Measurable Goal: The County will maintain an up-to-date geodatabase map of the MS4 outfalls, receiving waters, storm drains, basins, roadside drainages, or other County owner or operated infrastructure that conveys stormwater to protected surface waters.

Justification: An accurate, up-to-date map is critical to maintain the greatest level of effective management of the MS4.

BMP 3.2: IDDE Enforcement Procedures

Measurable Goal: An Enforcement Response Plan (ERP, Tab M) to help reduce or eliminate non-stormwater discharges into the MS4 will continue to be utilized. Ordinances, by-laws, and other regulatory mechanisms will be reviewed and updated as needed for implementation into the ERP.

Justification: The authority referenced in the IDDE Enforcement Response Plan is an indispensable component of the Stormwater Management Program.

BMP 3.3: IDDE Program Responsibilities

Measurable Goal: The Flood Control District will continue to work hard to eliminate illicit discharges. The IDDE program responsibilities described in the IDDE Program (Tab L) and MS4 Permit Compliance Organizational Matrix (Tab P) detail those County departments with IDDE roles and responsibilities. As with the rest of the SWMP, the Yavapai County Flood Control District Stormwater Engineer is chiefly responsible for implantation of the IDDE.

Justification: A clear, unambiguous IDDE program responsibility structure allows the program to function smoothly, and with all actions properly documented.

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BMP 3.4: IDDE Reporting

Measurable Goal: The Yavapai County Flood Control District will annually track and maintain records of the activities conducted to meet the requirements associated with IDDE reporting. The County will continue to submit a summary of IDDE activities as part of each annual report, as required by ADEQ.

Justification: Maintaining complete and accurate records for reporting to the ADEQ regulator is a key to successful operation of the MS4.

BMP 3.5: Eliminating Illicit Discharges

Measurable Goal: The County will continue to treat illicit discharges seriously by prohibiting or eliminating them as expeditiously as possible after detection. Detection and elimination times, along with other details will be provided to ADEQ as part of the annual report.

Justification: The elimination and meticulous reporting of serious illicit discharges to the MS4 is one of the most important components of MS4 operation. Annual reporting to ADEQ is essential for good oversight of the County program.

BMP 3.6: Non-Stormwater Discharges

Measurable Goal: Permit-listed non-stormwater discharges will be addressed if found to carry pollutants.

Justification: Potential sources of surface water pollution must be explored until the actual source is found and eliminated.

BMP 3.7: Visual Monitoring

Measurable Goal: The County will continue to conduct dry and wet weather visual monitoring to identify, monitor, and eliminate illicit discharges; and to ensure compliance with the effluent limitations of the permit. The Outfall Assessment and Monitoring Manual (Tab P) includes procedures for conducting visual monitoring of outfalls from the MS4. The procedures include information/observations of all pertinent parameters. Visual monitoring will be conducted over at least 20% of all outfalls per

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year. When illicit discharges are discovered, follow-up monitoring actions will be carried out to ensure the illicit discharge has not reoccurred.

Justification: Thorough and effective visual monitoring must be accomplished to help ensure program success. In the past, the condition of County outfalls has been known to change from one inspection to the next, sometimes within a short time, depending on the severity of weather events. Seasonal monitoring is best, when possible.

BMP 3.8: Indicators of IDDE Program Progress

Measurable Goal: The County will define indicators for tracking program success. This includes measures such as, response time to inspection, an increase in public awareness, time from discovery to elimination, and other factors that show efforts were made to identify and remove illicit discharges. The overall effectiveness of the program is to be evaluated annually and incorporate improvements as necessary.

Justification: Indicators that show the progress of the IDDE program help demonstrate to the public, as well as report to ADEQ, the overall effectiveness of the County's IDDE program.

BMP 3.9: Staff Training

Measurable Goal: Annual IDDE training will be provided, or conducted in person when possible for all County employees involved in the IDDE program. The training will cover how to recognize illicit discharges and best practices for avoiding discharges.

Justification: The County must serve as a standard bearer for surface water quality and IDDE programs. Good habits and practices are important.

BMP 3.10: AZPDES Non-Filers

Measurable Goal: Should suspected non-filers be discovered, the County will report them to ADEQ within 30 days. AZPDES permit coverage is required for discharges to the MS4

Justification: Pollution prevention is an overall goal of the AZPDES program. Non-filers may be allowing unchecked illicit discharges into County MS4 streams.

BMP 4.1: Construction Activity Stormwater Runoff Control Implementation

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Measurable Goal: The County will implement and enforce a construction activity stormwater runoff control program to minimize or eliminate pollutant discharges to the MS4 from 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. Legal authority and codes will be assessed, and the assessment of legal authority, codes, and other relevant mechanisms, and construction activity runoffs will be reviewed in accordance with the Yavapai County Construction Site Inspections and Plans Reviews guide.

Justification: The Construction Site Inspections and Plan Reviews guide, along with other applicable County ordinances that require the use of sediment and erosion control practices will minimize harmful pollutants from leaving construction sites.

BMP 4.2: Construction Activity Stormwater Runoff Program Components

Measurable Goal: The County construction activity stormwater runoff control program includes the Yavapai County Stormwater Ordinance, guidance for Construction Site Inspections and Plan Reviews, Post-Construction Stormwater Control Inspection Procedures, Construction Site Inventories, the Drainage Design Manual. Procedures will consider phase of construction, proximity to an impaired, not-attaining, or OAW, size of disturbed area, history of non-compliance, and time after a 0.5-inch or greater rain event. In the absence of rain event(s), site will be inspected within one month of the start of construction, then quarterly (or semiannually, dependent upon proximity to a protected surface water), and upon completion, with compliance being considered to be the achievement of 80% of scheduled inspections annually.

Justification: An inventory of all construction activities that disturb or will disturb one or more acres within the permitted area, including those that are less than one acre but are part of a larger common plan of development, will aid the Yavapai County Flood Control District to comply with the permit and thus reduce the possibility of pollutants from construction activities to contaminate stormwater.

BMP 4.3: Personnel Qualifications

Measurable Goal: The Yavapai County Flood Control District in cooperation with the Yavapai County Development Services Department will ensure staff who conduct activities related to implementing the construction stormwater program are sufficiently trained to carry out their duties.

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Justification: Written procedures for site inspections and enforcement of sediment and erosion control measures by properly trained personnel are a good practice and provides for consistent inspections.

BMP 4.4: Construction Activity Operator Education and Public Involvement

Measurable Goal: The Yavapai County Flood Control District in cooperation with the Yavapai County Development Services Department will provide education to construction activity operators and receive public input.

Justification: Written procedures for site plan reviews are a good practice and provides for consistent site plan reviews.

BMP 5.1: Post-Construction Stormwater Management in New Development and Redevelopment

Measurable Goal: The County will 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 MS4. The program includes a combination of structural and/or nonstructural BMPs

Justification: Guidance or other program documentation designed to address runoff from new development and redevelopment projects will minimize harmful pollutants from post construction activities.

BMP 5.2: Post construction ordinance or regulatory mechanism

Measurable Goal: An ordinance or regulatory mechanism will be implemented to address runoff from new development and redevelopment projects. It will 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. Existing ordinance or other regulatory mechanisms will be evaluated and, if necessary, modified within a year. Procedures must minimize impacts from stormwater runoff.

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Justification: A post-construction regulation guidance that specifies controls that reduce or eliminate pollutants is necessary for the protection of surface waters in the MS4.

BMP 5.3: Site Plan Review

Measurable Goal: The County will continue to implement the post-construction stormwater controls site plan review process.

Justification: A formal site plan review of post-construction stormwater structures/devices will help to minimize pollutants from post-construction activities.

BMP 5.4: Post-Construction Stormwater Inventory

Measurable Goal: The Yavapai County Flood Control District will develop, and maintain a searchable inventory of all post-construction structural stormwater control measures installed at new development and redevelopment sites within the MS4 area.

Justification: Implementation of an inventory system of all post-construction structural stormwater control measures will allow the Yavapai County Flood Control District to better track requirements in the Yavapai County Drainage Design Manual and therefore better reduce the chance of pollutants leaving a post-construction development.

BMP 5.5: Operation and Maintenance of Post-Construction BMPs

Measurable Goal: The Yavapai County Flood Control District will ensure routine inspections of post-construction BMPs occurs.

Justification: An inspection program will ensure the long-term operation and maintenance of post-construction BMPs.

BMP 6.1: Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal: The Yavapai County Flood Control District will develop a written operations program 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. Applies to facilities and activities that are not subject to separate AZPDES permitting.

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Justification: A formal pollution prevention program will help reduce and/or prevent pollutant runoff from County operations.

BMP 6.2: Operation & Maintenance of Pollution Prevention & Good Housekeeping

Measurable Goal: The Yavapai County Flood Control District will continue to maintain an inventory and inspection record of all County facilities (not subject to other AZPDES permit coverage) in the MS4. The inventory is prioritized by, and inspection frequency is determined according to, the risk to discharge pollutants. Select employees will continue to receive Good Housekeeping BMP O&M training.

Justification: A recorded inventory, and prioritized inspection schedule of County facilities and their respective risk of discharging pollutants into the MS4 that is operated by trained personnel, will aid the County in managing stormwater pollution runoff from County facilities.

7.0 Analytical Monitoring Requirements

Yavapai County will conduct analytical monitoring as outlined in the general permit. The Yavapai County Outfall Assessment and Monitoring Manual (Tab K) will provide an explanation of the reasons for monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types and reporting requirements. Analytical monitoring will be conducted in accordance with A.A.C. R18-9-A905(B).

7.1 Monitoring and Assessment Program

The Yavapai County Flood Control District conducts analytical monitoring. Guidance for the monitoring and assessment program lies within the Receiving Waters Table (Tab I), Outfalls List (Tab J), and Outfall Assessment and Monitoring Manual (Tab K).

The monitoring and assessment program is designed to meet the following objectives:

- a. Assess the impacts to impaired or not-attaining waters resulting from stormwater discharges from MS4 outfalls
- b. Characterize stormwater discharges
- c. Identify sources of elevated pollutant loads and specific pollutants
- d. Assess the overall health and evaluate long-term trends in the quality of protected surface waters

Yavapai County Outfalls are those that either, discharge to impaired waters (Category 5), discharge to not-attaining waters (Category 4), or are subject to additional monitoring required by ADEQ.

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The Yavapai County MS4 contains no Outstanding Arizona Waters (OAWs).

7.2 Stormwater Characterization Monitoring Requirements

Yavapai County will conduct stormwater characterization monitoring of discharges from the MS4 to protected surface waters at three (3) selected outfalls. Sampling will occur, one (1) time within the first 3-1/2 years of the effective date of the permit for discharge characterization data gathering of stormwater discharges from the MS4.

Stormwater characterization monitoring will be conducted for qualifying storm events that generate rainfall in the amount of 0.1 inches or more and results in a discharge within the first 24-hours of the event. The Yavapai County Flood Control District Stormwater Engineer will employ proper stormwater sampling procedures to include the “first flush” of a qualifying storm event, to the maximum extent practicable.

The date of the qualifying storm event and the amount of rainfall in the drainage area is to be included in the myDEQ online Discharge Monitoring Record (DMR) for each stormwater monitoring location.

The County Stormwater Engineer will identify three (3) outfalls within the MS4, representative of stormwater pollution from the MS4 for stormwater characterization monitoring. The identified outfalls for characterization monitoring must be reported in the DMR, including the land use for the area served by the outfall as, residential, commercial, or industrial. Selected outfalls will be representative of MS4 discharges and discharge to a protected surface water.

Sampling of a qualifying storm event is not required during adverse conditions. Adverse climatic conditions which prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, electrical storms, etc.).

All parameters listed in Appendix B of the Permit will be monitored. All results must be reported via the DMR in myDEQ, provided by ADEQ. The DMR will be submitted within 30 days after receiving laboratory results from characterization monitoring. All characterization monitoring DMR are due by March 30, 2024. The County will retain records of all stormwater monitoring information with the SWMP.

7.3 Sampling and Analysis Plan (SAP)

The SAP, or Yavapai County Outfall Assessment & Monitoring Manual for analytical monitoring of stormwater discharges includes, name of the individual doing the sampling, sampling locations, maps, water quality parameters and likely pollutants, description of sampling protocols, and testing methods and limits.

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7.4 Discharges to Impaired or Not-Attaining Waters or Outstanding Arizona Waters

Outfall discharges to impaired or not-attaining waters are monitored program for all pollutants for which the waterbody is listed. If the pollutant causing the impairment is expressed in the form of an indicator or surrogate pollutant, the County will monitor for that indicator or surrogate pollutant. The County will comply with all applicable waste load allocations established in approved TMDLs. When monitoring requirements are established in an approved TMDL, the County will comply with the specifications in the approved TMDL. There are no MS4 outfalls that discharge directly to an OAW or to a lake.

7.5 Monitoring Frequency and Deadlines

The County MS4 discharges to impaired or not-attaining waters, thus analytical monitoring is performed per the frequencies and deadlines stated in the permit.

The County will conduct analytical monitoring a minimum of one (1) time per wet season throughout the duration of the permit. Analytical monitoring is only required when there is sufficient stormwater discharge for collection and analysis.

For the purposes of analytical monitoring, wet seasons are defined as follows:

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

Due to the high number of County MS4 outfalls, analytical monitoring will continue to be conducted at a minimum of ten (10) outfalls observed or suspected to discharge the greatest amount of pollutants.

Monitoring instruments and equipment will be calibrated and maintained in accordance with manufacturers' recommendations. All laboratory analyses shall be conducted according to test procedures specified in 40 CFR Part 136. The County will use analytical methods with a Limit of Quantitation (LOQ) lower than the effluent limitations, Assessments Levels, Action Levels, or other water quality criteria specified in the permit. If all methods have LOQs higher than the water quality criteria, the County will use the method with the lowest LOQ.

Samples collected for analytical monitoring will be analyzed by a laboratory licensed by the Arizona Department of Health Services (ADHS). This does not apply to parameters that require analysis at the time of sample collection as long as the testing methods used are approved by ADHS or ADEQ. These parameters may include flow, dissolved oxygen, pH, temperature, and total residual chlorine.

Trained and qualified County personnel with properly calibrated and maintained field instruments may conduct field analysis of turbidity or E. coli, with Colilert or an equivalent.

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7.6 Analytical Monitoring DMR

Analytical Monitoring results will be submitted on the electronic Discharge Monitoring Report (DMR) in myDEQ within 30 days after receiving laboratory results. If no samples are collected during a wet season, use the DMR indicating “no data” using the appropriate No Discharge Information (NODI) codes no later than June 30 for winter sampling, or November 30 for summer sampling.

8.0 Program Assessment, Recordkeeping, and Reporting

8.1 Program Evaluation

The County Flood Control District will annually self-evaluate its compliance with the terms and conditions of this permit. Annual evaluation documentation will be included as part of the SWMP.

The selected BMPs will be evaluated for effectiveness in achieving the objectives of each control measure and the measurable goals. The County may change BMPs to add components or controls. Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternative BMP may be made as long as the requirements of the permit are met.

BMP modification documentation will include the following information and all documentation shall be kept in the SWMP, to include an analysis of why the BMP is ineffective or infeasible, expectations on the effectiveness of the replacement BMP; and an analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced.

ADEQ may require, in writing, addition, modification, repair, replacement, or change to BMPs or other measures described in SWMP to address impacts to receiving water quality caused or contributed to by discharges from the MS4, to satisfy conditions of this permit, to include more stringent requirements necessary to comply with new state or federal legal requirements, or attainment of SWQS.

8.2 Recordkeeping

The County will keep all records required by the permit for a period of three (3) years from the date the record is created. Records include information used in the development of any program required by the permit, 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 NOI, SWMP, plans, and annual reports. This list is not all inclusive.

Records other than those required to be included in the discharge monitoring report and annual report shall be submitted upon request by ADEQ or the EPA. Requirements for

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discharges to non-WOTUS protected surface waters are state-only and records need only be submitted to ADEQ.

Records relating to the permit, including this SWMP will continue to be available to the public online at [Stormwater Management Program \(yavapaiaz.gov\)](http://yavapaiaz.gov). The County may charge a reasonable fee for copying requests.

8.3 Annual Report

The Yavapai County Flood Control District Stormwater Engineer will submit an annual report to ADEQ, online, via myDEQ each year of the permit term. 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.