



# STORM WATER MANAGEMENT PLAN

June, 2023

This Storm Water Management Plan has been prepared by the City of Mesa Environmental & Sustainability Division in response to the conditions established by the Arizona Department of Environmental Quality's Municipal Separate Storm Sewer System Permit No. AZS000004-2021 issued to the City of Mesa, effective July 1, 2021.

# TABLE OF CONTENTS

	PAGE
<b>EXECUTIVE SUMMARY .....</b>	<b>i</b>
<b>1 INTRODUCTION .....</b>	<b>1-1</b>
1.1 MS4 PERMITTING SUMMARY .....	1-1
1.1.1 1997 Phase I MS4 Stormwater Permit.....	1-1
1.1.2 Arizona Pollutant Discharge Elimination System .....	1-1
1.1.3 2010 Phase I MS4 Permit.....	1-2
1.2 STORMWATER CODE .....	1-2
1.3 WATERS OF THE UNITED STATES/ARIZONA PROTECTED SURFACE WATERS .....	1-3
1.4 ANNUAL REPORTING.....	1-5
1.5 UPDATES TO THE SMWP .....	1-5
<b>2 PUBLIC EDUCATION AND OUTREACH.....</b>	<b>2-7</b>
2.1 MS4 PERMIT REQUIREMENTS.....	2-7
2.1.1 General Public .....	2-7
2.1.2 Business Sectors .....	2-8
2.2 Evaluation of Public Outreach Efforts .....	2-9
2.3 STORMWATER OUTREACH FOR REGIONAL MUNICIPALITIES .....	2-10
<b>3 PUBLIC INVOLVEMENT AND PARTICIPATION.....</b>	<b>3-12</b>
3.1 ENVIRONMENTAL HOTLINE AND ONLINE REPORTING TOOLS .....	3-12
3.2 STORMWATER WEBSITE .....	3-13
3.3 HOUSEHOLD HAZARDOUS MATERIAL FACILITY.....	3-13
3.4 CITIZEN OPPORTUNITIES .....	3-14
<b>4 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) .....</b>	<b>4-15</b>
4.1 NON-STORMWATER FLOWS.....	4-15
4.1.1 Allowable Non-Stormwater Flows .....	4-15
4.1.2 ADEQ Permitted Non-Stormwater Flows .....	4-16
4.1.3 Management of Non-Stormwater Flows .....	4-17
4.1.4 Private Detention/Retention Basins and Drywells.....	4-18
4.1.5 Illicit Discharges.....	4-18
4.2 INSPECTIONS AND SCREENING .....	4-19
4.2.1 Outfall and Field Screen Point Locations.....	4-19
4.2.2 Existing Dry-Weather Flows.....	4-20
4.2.3 Inspection Schedule .....	4-20
4.2.3.1 Target Area A .....	4-21
4.2.3.2 Target Area B .....	4-21
4.2.3.3 Target Area C .....	4-21
4.2.3.4 Target Area D.....	4-21

4.2.4	Dry-Weather Screening Methods.....	4-22
4.2.5	Investigation Timelines .....	4-22
4.2.6	Tracking .....	4-23
4.3	ENFORCEMENT AND ELIMINATION .....	4-23
4.4	EMPLOYEE TRAINING.....	4-24
4.5	RECORDKEEPING AND REPORTING .....	4-25
<b>5</b>	<b>MUNICIPAL FACILITIES POLLUTION PREVENTION AND GOOD HOUSEKEEPING PRACTICES.....</b>	<b>5-26</b>
5.1	SPECIFIC FACILITY REQUIREMENTS .....	5-26
5.1.1	Industrial Facility Identification, Review, and Prioritization.....	5-26
5.1.2	Inspections.....	5-27
5.2	GOOD HOUSEKEEPING MEASURES.....	5-27
5.3	TRAINING .....	5-28
5.4	RECORDKEEPING .....	5-29
<b>6</b>	<b>PRIVATE INDUSTRIAL AND COMMERCIAL FACILITIES (NON-MUNICIPALLY OWNED) 6-1</b>	
6.1	INDUSTRIAL AND COMMERCIAL FACILITY INSPECTIONS.....	6-1
6.1.1	Identifying Industrial Facilities .....	6-2
6.1.2	Inspection Prioritization.....	6-2
6.1.3	Types Of Inspections & Notification Procedure.....	6-3
6.1.3.1	Initial Inspections.....	6-3
6.1.3.2	Complaint Inspections .....	6-4
6.1.3.3	Follow-Up Inspections .....	6-4
6.2	INSPECTION PROCESS .....	6-4
6.2.1	Document Review.....	6-5
6.2.2	Field Inspection.....	6-5
6.2.3	Inspection Disclaimer.....	6-5
6.2.4	Compliance Review Approval .....	6-5
6.3	COMPLIANCE ACTIVITIES AND ENFORCEMENT .....	6-6
6.4	NON-FILERS.....	6-6
6.5	RECORDKEEPING .....	6-7
6.6	TRAINING .....	6-7
<b>7</b>	<b>CONSTRUCTION SITES .....</b>	<b>7-8</b>
7.1	PLAN REVIEW .....	7-8
7.1.1	Stormwater Control Measures .....	7-9
7.1.2	Private Construction Operations .....	7-9
7.1.3	City Projects.....	7-10
7.1.4	Employee Training.....	7-11
7.1.5	Construction Site Inventory.....	7-11
7.2	CONSTRUCTION SITE INSPECTIONS .....	7-11
7.2.1	Routine Inspections .....	7-12

	7.2.1.1 Private Construction Projects .....	7-12
	7.2.1.2 City Construction Projects .....	7-12
	7.2.2 Follow-Up Inspections .....	7-13
	7.2.3 Prioritization .....	7-13
	7.2.4 Inspection Records .....	7-13
	7.2.5 Training.....	7-13
	7.3 COMPLIANCE AND ENFORCEMENT.....	7-14
<b>8</b>	<b>POST-CONSTRUCTION.....</b>	<b>8-16</b>
	8.1 POST-CONSTRUCTION CONTROLS.....	8-16
	8.1.1 Design Requirements .....	8-16
	8.1.2 Design Strategies and Control Measures .....	8-17
	8.2 COMPLIANCE ACTIVITIES AND ENFORCEMENT .....	8-17
	8.2.1 Methods of Compliance .....	8-18
	8.3 STORMWATER RETROFIT ASSESSMENT .....	8-18
	8.3.1 Year One Stormwater Retrofit.....	8-19
	8.3.2 Year Three Feasibility Assessment .....	8-19
	8.4 EMPLOYEE TRAINING.....	8-20

## **APPENDICES**

Appendix A: Title 8, Chapter 5 of the Mesa City Code

Appendix B: Drainage Area Map

Appendix C: Outfall & Field Screening Point Information

Appendix D: Field Screening Test Quantitative Methods & Thresholds

Appendix E: Basic Case Enforcement Process Work Instructions

Appendix F: City Facility Inventory

Appendix G: Listing of Non-City MSGP Categorical Industrial Facilities

## **ACRONYMS AND ABBREVIATIONS**

2021 MS4 Permit – City of Mesa MS4 Stormwater Permit, AZS000004-2021

AAC – Arizona Administrative Code

ADEQ – Arizona Department of Environmental Quality

APP – Aquifer Protection Permit

ARS – Arizona Revised Statutes

AZPDES – Arizona Pollutant Discharge Elimination System

BMP – Best Management Practice

CFR – Code of Federal Regulations

CGP – Construction General Permit

City – City of Mesa

DMGP – De Minimis General Permit

EMF – East Maricopa Floodway

FOG – Fats, Oils, and Greases

FSP – Field Screening Point

GRD – Grease Removal Device

HHW – Household Hazardous Waste

LID – Low Impact Development

MEP – Maximum Extent Practicable

MS4 – Municipal Separate Storm Sewer System

MSGP – Multi-Sector General Permit

NAICS - North American Industry Classification System

NOI – Notice of Intent

NPDES – National Pollutant Discharge Elimination System

SARA – Superfund Amendments Reauthorization Act

SIC – Standard Industrial Classification

STORM – Stormwater Outreach for Regional Municipalities

SWPPP – Stormwater Pollution Prevention Plan

SWMP – Storm Water Management Plan

TRI – Toxic Release Inventory

USEPA – United States Environmental Protection Agency



## EXECUTIVE SUMMARY

This Storm Water Management Plan (SWMP) has been prepared by the City of Mesa (City) in response to the conditions established by the Arizona Department of Environmental Quality's (ADEQ) Municipal Separate Storm Sewer System (MS4) permit issued to the City, effective July 1, 2021 (Permit No. AZS000004-2021; herein referred to as the 2021 MS4 Permit). The 2021 MS4 permit allows the City to operate a storm sewer system in a manner that reduces the discharge of pollutants to waters of the United States and Arizona Protected Surface Waters to the maximum extent practicable.

The 2021 MS4 Permit establishes that the City implement, maintain and periodically review this SWMP and develop, as needed, elements to comply with requirements for authorized stormwater discharges from the MS4. At a minimum, this SWMP document must include the following information

1. Ordinances, or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of the MS4 permit
2. Written procedures describing how the City will implement provisions described in Section 4 of the MS4 permit

It should be noted that all records demonstrating compliance with the 2021 MS4 Permit are retained by the City in accordance with the Arizona State Library Archives & Public Records (ASLAPR) using approved retention schedules.

# 1 INTRODUCTION

This Storm Water Management Plan (SWMP) has been prepared by the City of Mesa (City) in response to the conditions established by the Arizona Department of Environmental Quality's (ADEQ) Municipal Separate Storm Sewer System (MS4) permit issued to the City, effective July 1, 2021.

## 1.1 MS4 PERMITTING SUMMARY

An MS4 permit allows municipalities to operate a storm sewer system in a manner that reduces the discharge of pollutants to waters of the United States to the maximum extent practicable (MEP). The following sections are a summary of the City's stormwater compliance history.

### 1.1.1 1997 Phase I MS4 Stormwater Permit

The United States Environmental Protection Agency (USEPA) designated the City a Phase I community and an operator of a medium sized MS4 and was required to receive permit coverage for stormwater that is discharged from their storm sewer system to waters of the United States under the National Pollutant Discharge Elimination System (NPDES) program. In order to obtain coverage, the City was required to submit a two part permit application. The City's Part I permit application was submitted to the USEPA in 1991. The City's Part II permit application was submitted to the USEPA in 1993.

Based on the information supplied in the Part I and Part II permit applications, the USEPA issued the City's Municipal Stormwater Permit No. AZS000004 on February 14, 1997 and became effective as of March 19, 1997. Under this permit, the City was required to meet all conditions provided in the Part I and Part II permit applications and would be considered operating their storm sewer system in compliance with this permit as long as the City continued to do so.

### 1.1.2 Arizona Pollutant Discharge Elimination System

In 2002, the USEPA granted primacy of NPDES permitting to the ADEQ. The ADEQ established the Arizona Pollutant Discharge Elimination Systems (AZPDES) program

requirements in the Arizona Revised Statute (ARS) Title 49, Chap 2, Article 3.1 and the Arizona Administrative Code (AAC) Title 18, Chapter 9, Article 9.

### **1.1.3 2010 Phase I MS4 Permit**

Between 2002 and 2008, the City, as well as representatives from other Phase I MS4 operators (collectively, the Coalition of Cities, or Coalition), participated in permit negotiations with the ADEQ on the conditions for the issuance of the first Phase I MS4 stormwater permits under the AZPDES program. On July 30, 2010, the ADEQ issued the 2010 MS4 Permit (Permit No. AZS000004-2010) under the AZPDES program to the City of Mesa. The 2010 MS4 Permit became effective on August 30, 2010.

## **1.2 STORMWATER CODE**

The 1997 Phase I permit required the City to establish, maintain and enforce adequate legal authority to control discharges to the City's storm sewer system as provided in the Code of Federal Regulations [CFR; specifically, 40 CFR 122.26(d)(2)(i)] as summarized below.

- Control through ordinance, permit, contract, order or similar means, the contribution of pollutants to the MS4 by storm water discharges associated with industrial activity and the quality of storm water discharged from sites of industrial activity;
- Prohibit through ordinance, order or similar means, illicit discharges to the municipal separate storm sewer;
- Control through ordinance, order or similar means the discharge to a MS4 of spills, dumping or disposal of materials other than stormwater;
- Control through interagency agreements among co-applicants the contribution of pollutants from one portion of the municipal system to another portion of the municipal system;
- Require compliance with conditions in ordinances, permits, contracts or orders; and
- Carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to the MS4.

Proper legal authority is necessary for the City to effectively implement compliance programs to reduce pollutants in stormwater runoff to the MEP. Additionally, the 1997 MS4 Permit requires the City to prohibit all non-stormwater discharges except for those specified in the permit documents.

To meet the above requirements, the City established through ordinance Title 8 - Health, Sanitation, and Environment, Chapter 5 - Storm Water Pollution Control of the Mesa City Code (Stormwater Code) as provided in [Appendix A](#).

The ADEQ and USEPA have also established legal authority for certain stormwater and non-stormwater flows to and from the City's storm sewer system. These include, but are not limited, to the following:

- Stormwater and non-stormwater associated with construction activities covered under the ADEQ's Construction General Permit (CGP);
- Stormwater and non-stormwater associated with industrial activities covered under the ADEQ's Multi-Sector General Permit (MSGP);
- Non-stormwater associated with the ADEQ's De Minimis General Permit (DMGP);
- Stormwater and non-stormwater associated with other permits (individual or general) issued by either the ADEQ or USEPA [ex. certain pesticide applications, other regulated MS4s (i.e. county islands), etc.]; and,
- Stormwater and non-stormwater associated with state owned and operated facilities, federal owned and operated facilities, Native American tribal lands, or permitted utilities, special districts, and other wastewater management agencies.

As such, the ADEQ and USEPA are independently responsible for ultimately enforcing their own legal authorities over stormwater and non-stormwater flows from these sources.

### **1.3 WATERS OF THE UNITED STATES/ARIZONA PROTECTED SURFACE WATERS**

The 2021 MS4 Permit, initially authorized the City to discharge stormwater from the MS4 to "Waters of the United States". Between authorization of the permit by ADEQ in

January 2021 and the permit's effective date, the Arizona legislature introduced and passed House Bill 2691 (HB 2691). Signed into law by Governor Doug Ducey on May 5, 2021, HB 2691 requires ADEQ to conduct rulemaking to develop a state surface water protection program. Included in the rulemaking process was a requirement for ADEQ to finalize a Protected Surface Waters list. The Protected Surface Waters list includes known WOTUS and waters as defined in HB 2691 49-211(G).

In 2022, ADEQ finalized the process of amending the City's MS4 Permit to update language to reflect the City's authorization to discharge stormwater from the MS4 to "protected surface waters". The permit language was edited to reflect these changes and to indicate that ADEQ is solely responsible for enforcing discharges to non-WOTUS protected surface waters. In effect, the changes to the 2021 MS4 permit created a definition of the two types of surface waters that the permit was intended to protect:

- *"Protected Surface Waters means waters of the state listed on the Protected Surface Water List under Section 49-221, Subsection G and all WOTUS [A.R.S. § 49-201(38)]."*
- *"WOTUS Protected Surface Water means a protected surface water that is a WOTUS [A.R.S. § 49-201(54)]."*
  - *"Waters of the United States (WOTUS) means those waters as defined in 40 CFR 122.2"*

In August of 2021, the U.S. District Court for the District of Arizona issued an order vacating and remanding the Navigable Waters Protection Rule. In effect, this ruling required agencies to interpret WOTUS consistent with the pre-2015 regulatory regime until further notice. In response to this ruling, the EPA has announced the intention to move forward with a rulemaking process to create a durable WOTUS definition.

Further litigation and court decisions have complicated the EPA's rulemaking process, resulting in considerable uncertainty to the regulated community. In light of these rulings and upon implementation of Arizona's Surface Waters Protection Program, the water bodies described below are the protected Arizona surface waters that the City has determined that receive flow from its MS4.

To the City’s knowledge, none of these water bodies have been identified as being listed as impaired, having established total maximum daily load requirements, listed as an outstanding Arizona water, or are a perennial water body. A description of the designated uses of these water bodies is also provided below.

Water Body	Segment Description	Designated Uses		
		Aquatic & Wildlife	Human Health	Agricultural
Salt River	2 km below Granite Reef Dam to City of Mesa NW WRF outfall at 33°26'22"/111°53'14"	A&We	PBC	--
Salt River (EDW)	City of Mesa NW WRF outfall to Tempe Town Lake	A&Wedw	PBC	--
East Maricopa Floodway	From Brown and Greenfield Rds to the Gila River Indian Reservation Boundary	A&We	PBC	--

Notes:

A&We – Aquatic & Wildlife Ephemeral

A&Wedw – Aquatic & Wildlife Effluent Dependent Water

PBC – Partial Body Contact

#### 1.4 ANNUAL REPORTING

The 2021 MS4 Permit requires the City to prepare annual reports summarizing the implementation of the programs described in this SWMP. Annual reports must be provided in the format provided by the ADEQ in Appendix A of the 2021 MS4 Permit. Annual reports include activities conducted during the reporting period which coincides with the City’s fiscal year (July 1 through June 30<sup>th</sup>) and are due by September 30<sup>th</sup> of each year.

#### 1.5 UPDATES TO THE SMWP

The 2021 MS4 Permit requires the City to review this SWMP at least annually to modify or revise, as needed, existing elements and/or develop new elements to comply with requirements for authorized stormwater discharges to the MS4. The SWMP may be updated greater than annually if the City determines that despite full implementation, discharges of pollutants above SWQS are observed.

The 2021 MS4 Permit also requires the City to post the most current version of this SWMP on the City's website within one year from the permit's effective date and to be accessible to the general public (see [Section 3.2](#)).

## **2 PUBLIC EDUCATION AND OUTREACH**

Public education is an important element of the City's MS4 program. Increasing public awareness about stormwater issues and requirements is essential in controlling the discharge of pollutants to waters of the United States.

### **2.1 MS4 PERMIT REQUIREMENTS**

The 2021 MS4 Permit requires the City to implement on-going and planned outreach activities to educate the community on stormwater management practices, impacts to stormwater discharges, and steps that can be taken to reduce stormwater pollution. Additionally, target audiences and topics for the Public Education & Outreach Program are identified. It should be noted that the target groups and topics presented in sections 2.1.1 and 2.1.2 are not exclusive and the City may focus its efforts on target groups and topics most relevant to the MS4.

#### **2.1.1 General Public**

The 2021 MS4 Permit requires the City to target at least one of the following groups during each permit year (July 1 through June 30):

1. General Public;
2. Residential Community;
3. Home Owners;
4. HOAs; or,
5. Schools.

The 2021 MS4 Permit requires that at least one of the following topics be addressed for these target groups:

- Post-construction ordinances and long-term maintenance requirements for permanent stormwater controls
- Stormwater runoff issues and residential stormwater management practices
- Potential water quality impacts of application of pesticides, herbicides and fertilizer and control measures to minimize runoff of pollutants in stormwater



- Potential impacts of animal waste on water quality and the need to clean up and properly dispose of pet waste to minimize runoff of pollutants in stormwater
- Illicit discharges and illegal dumping, proper management of non-stormwater discharges, and to provide information on reporting spills, dumping, and illicit discharges
- Spill prevention, proper handling and disposal of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system
- Installation of catch basin markers or stenciling of storm sewer inlets to minimize illicit discharges and illegal dumping to the storm sewer system
- Proper management and disposal of used oil
- Community activities such as monitoring programs, environmental protection organization activities, etc.

The requirements under this part of the 2021 MS4 Permit provide the City an opportunity to select which topics (i.e. options or menu choices) to choose among during each year of the permit without modification to the permit. However, the City must report the outreach approach selected, the topic, the target group, and an estimated number of participants reached in each annual report.

### **2.1.2 Business Sectors**

The 2021 MS4 Permit also requires the City to target at least one of the following business sector groups during each permit year:

1. Development Community;
2. Construction Site Operators;
3. Targeted Sources or Types of Businesses (industrial or commercial)

The 2021 MS4 Permit requires that at least one of the following topics be addressed for these target groups:

- Planning ordinances, and grading and drainage design standards for stormwater management in new developments and significant redevelopments
- Municipal stormwater requirements and stormwater management practices for construction sites

- Illicit discharges and proper management of non-stormwater discharges
- Spill prevention, proper handling of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system
- Proper management and disposal of used oil and other hazardous or toxic materials, including practices to minimize exposure of materials/wastes to rainfall and minimize contamination of stormwater runoff
- Stormwater management practices, pollution prevention plans, and facility maintenance procedures
- Water quality impacts associated with land development (including new construction and redevelopment)

The requirements under this part of the 2021 MS4 Permit provide the City an opportunity to select which topics to choose from during each year of the permit without modification to the permit. However, the City must report the outreach approach selected, the topic, the target group and an estimated number of participants reached in each annual report.

## **2.2 Evaluation of Public Outreach Efforts**

The 2021 MS4 Permit requires the City to evaluate and measure the understanding and adoption of targeted behaviors for at least one target audience in at least one subject area no later than the fourth year of the Permit term. The results of the evaluation will then be used to direct education and outreach resources most effectively and to evaluate changes in targeted behaviors in target audiences. This Permit requirement will be performed along with other MS4 Permittees and member of AZSTORM (see Section 2.3 below).

In the fourth-year annual stormwater report, the City will include an evaluation of the target audience in a subject area and any changes adopted in response to targeted behaviors in order to maximize the effectiveness of our MS4 program. This evaluation will be tailored to the City's program and will not be performed along with other MS4 Permittees.

### **2.3 STORMWATER OUTREACH FOR REGIONAL MUNICIPALITIES**

The City's stormwater public education and outreach method is managed through the Arizona Stormwater Outreach for Regional Municipalities (AZSTORM) organization. AZSTORM is comprised of Phase I and Phase II MS4 operators in the greater Phoenix Metropolitan Area. AZSTORM was founded in 2002 largely in response to the Phase II MS4 stormwater regulations (i.e. small MS4 operators) and was spearheaded by the Phase I MS4 operators as a method of assisting all regulated small MS4 operators in the development of their public education programs. The City played a key role in the early years of the development of the AZSTORM organization and continues to be a major participant and proud supporter to this day.

The traditional approach to public stormwater education and outreach is for individual communities to work independently. AZSTORM encourages a new perspective at a regional level to improve public outreach and education. Members meet monthly to discuss ideas, gather information, and share results of stormwater management tools, techniques, programs, and initiatives.

Benefits of this collaborative effort include:

- Increased public awareness of the impacts of stormwater pollution;
- Consistent messaging (“Only rain in the storm drain”);
- Shared information and experiences;
- Pooled financial resources;
- Protection of the environment; and,
- Improved quality of life.

The City realizes a great economic benefit from their membership investment. For a relatively small contribution, the City receives a significant return in public outreach and education, much more than the City would have gained working independently. Membership in AZSTORM also provides increased buying power that helps achieve bulk pricing on storm water pollution awareness promotional items. Additionally, the ability to cooperatively apply for grants and other financial assistance helps further the common goal of public education to reduce stormwater pollutants and ultimately improve regional surface water quality.

AZSTORM uses a multimedia approach targeting audiences through radio, television, special events, and providing permit information to the general public and the regulated community. These approaches include, but are not limited to, radio and television public service announcements (PSAs), developing brochures and other handouts, and attending public events.

Additionally, AZSTORM has created a comprehensive website that includes the copies of outreach materials and PSAs ([link](#)).

The STORM website provides detailed information pertaining to:

- General stormwater requirements (Permits - MS4 Programs);
- The general public (FAQs and What Can I Do?);
- Education (school) programs (Kids Corner);
- Regulated business sectors, including construction and other industrial activities (Permits); and,
- The organization itself and specific information for each member organization (About Us & Contact Us).

AZSTORM operates primarily through fees paid by each municipal member. The choice of audiences and topics that will be targeted each fiscal year are decided by the membership through consensus. The City has one vote in deciding what the targets will be. However, AZSTORM understands that Phase I MS4s have been directed to target at least two separate groups per reporting year and are aware of the listing of topics that are required to be addressed. As such, AZSTORM has indicated a willingness to adjust their schedule to target at least one category of each audience identified in [Section 2.1.1](#) and [Section 2.1.2](#) and at least one of the topics identified in those sections. The City will attend monthly STORM meetings to voice any concerns over what audiences and topics should be targeted in order to ensure compliance with the 2021 MS4 Permit.

### **3 PUBLIC INVOLVEMENT AND PARTICIPATION**

The 2021 MS4 Permit requires the City to do the following:

1. Provide and publicize a reporting system to facilitate and track public reporting of spills, discharges or dumping to the storm sewer system (i.e., storm water hotline, web page, etc.) on a continuous basis.
2. Post this SWMP and latest annual report on the City's website within one (1) year from the effective date of this permit.
3. Create opportunities for citizens to participate in the implementation of the following stormwater controls
  - Stream clean-ups
  - Storm drain stenciling
  - Volunteer monitoring
  - Disposal of household hazardous waste
  - Educational activities
  - Facilitation of Adopt-A-Wash, Adopt-A-Park, and Adopt-A-Street litter control activities

#### **3.1 ENVIRONMENTAL HOTLINE AND ONLINE REPORTING TOOLS**

The City established an Environmental Hotline (480-644-3599) as a method to receive calls regarding stormwater as well as other environmental issues [air quality, hazardous material disposal, illegal dumping, and public nuisances (i.e. mosquitoes)]. During normal business hours, calls are answered by personnel trained to understand the nature of the types of calls they receive and can address questions that are informational in nature. Where a complaint is filed, the record is turned over to appropriate personnel trained in code enforcement procedures for inspection. All complaints are logged into the City's Accela® database system for tracking purposes. During off-business hours, callers are provided an opportunity to leave a message which is retrieved and processed the following business day.

The City also operates an online citizens engagement tool called City Sourced. Citizens can access the City Sourced platform through the City of Mesa website to report environmental complaints as well as graffiti, code compliance issues, illegal dumping,

potholes, and more. Environmental personnel are immediately emailed when an environmental complaint is received, and all complaints are followed up within three business days. If a complaint is deemed to be best handled by Environmental personnel, the progress is tracked in the Accela® database similar to how a hotline call is handled.

### **3.2 STORMWATER WEBSITE**

The City maintains a website specifically for stormwater [\[link\]](#). That website has information specific to the City's stormwater program. For more background information pertaining to stormwater education, permits, etc., a link is provided to the AZSTORM webpage.

The City will post this SWMP document on the website no greater than one year from the permit's effective date. The City will also provide a link to the most recent annual report drafted under the 2021 MS4 Permit within ten (10) business days of submittal of that document to the ADEQ.

### **3.3 HOUSEHOLD HAZARDOUS MATERIAL FACILITY**

In 2018 the City opened our fully operational Household Hazardous Materials Facility which provides Mesa residents the opportunity to dispose of household hazardous wastes (HHW) at a convenient central location. By providing a proper disposal option to the City's residents, the City has kept these materials from potentially being illegally dumped into the City's storm sewer system or improperly disposed of into solid waste receptacles, which then may be spilled onto City streets.

The Household Hazardous Material Facility, which is located at 2412 North Center Street, is open year-round, four days a week. Residents are restricted to household amounts of waste each visit but are allowed unlimited visits. Additionally, usable materials are set aside in the facility's "swap shop" where they are made available to citizens free of charge. The swap shop feature allows the responsible re-use of hazardous materials to reduce the amounts and quantities of materials shipped off as waste. The City maintains a webpage detailing all the services available at the Household Hazardous Materials Facility [\[link\]](#).

### **3.4 CITIZEN OPPORTUNITIES**

The City's public engagement personnel continuously reach out to the public through various mechanisms such as social media, mailings, and newsletters. The City intends to use these means to gauge public involvement interest and to will continue offer citizens and groups opportunities to get involved with stormwater management.

## **4 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)**

The 2021 MS4 Permit requires the City to implement a program to detect, investigate, and eliminate non-stormwater discharges, including dumping and spills, into its system. An illicit discharge is any discharge to the City's MS4 that is not composed entirely of storm water except discharges that are allowable under NPDES or AZPDES permits, firefighting activities, or other allowable non-stormwater discharges that are described in section 4.1 of this document.

Chapter 5 of Title 8 of the City of Mesa's code of ordinances prohibits the release of "any pollutant, directly or indirectly, to the City storm sewer system where such release would result in or contribute to a violation of any AZPDES or NPDES Storm Water Permit issued to the City, either separately considered or when combined with other releases". The City drafted an Environmental Code Enforcement Standard Operating Procedures manual that provides more detail on how the City addresses illicit discharge enforcement. These procedures also address other environmental program areas and similar Mesa City Code requirements.

### **4.1 NON-STORMWATER FLOWS**

In order to properly implement an illicit discharge detection and elimination program, non-stormwater flows must be defined. Non-stormwater flows can be categorized into two classifications: allowable non-stormwater discharges and illicit discharges.

#### **4.1.1 Allowable Non-Stormwater Flows**

Non-stormwater flows or pollutants that are authorized to be released to the City's storm sewer system or discharged from the City's storm sewer system to waters of the United States as provided below. The 2021 MS4 permit requires the City to address any of these discharges should they be considered sources of pollutants to an Arizona protected surface water:

- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising ground waters



- Uncontaminated groundwater infiltration (as defined under 40 CFR 35.2005(b)(20))
- Uncontaminated pumped groundwater
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensation
- Irrigation water
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual residential car washing
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Street wash water
- Discharges or flows from emergency firefighting activities
- Discharges authorized by another NPDES or AZPDES permit

#### **4.1.2 ADEQ Permitted Non-Stormwater Flows**

The ADEQ issues permits to construction operations through the CGP, select industrial facilities through the MSGP, and de minimis discharges through the DMGP. Each of these permits provide for certain non-stormwater flows.

The de minimis sources are most likely to be the types of releases permitted by the ADEQ that will be identified as part of a public report or dry-weather screening processes. Most of these are related to construction or utility operations (i.e. installation, maintenance, and repair of potable water supply systems, well development and maintenance and/or aquifer testing, hydrostatic testing, etc.).

However, under the “Other Category” in the DMGP, the ADEQ allows for the following discharges when the discharge is to an ephemeral or effluent-dependent water (as is the case with the Arizona protected surface waters that receive discharges from the City; see [Section 1.3](#)):

- Residential non-contact cooling water (including overflow from residential evaporative coolers or air conditioning condensate);
- Charitable noncommercial car washes when only the exterior of vehicles are being washed, and only biodegradable soaps and/or water are used;
- Building and/or street wash water (where only biodegradable soap and/or water are used, and accumulations of pollutants, if present, have been physically removed prior to conducting washing activities that will result in a discharge); or
- Freshwater swimming pool drainage that has been dechlorinated/debrominated before release. Such pool drainage must be visually clear, colorless, and free of suspended solids, floating material, and debris.

The ADEQ does not require a permit application for these types of discharges as long as the responsible party takes appropriate measures to reduce pollutants. Releases associated with residential non-contact cooling water and street wash water noted in the above is already specifically provided for in the City's Stormwater Code ([Appendix A](#)).

Charitable car washes and building wash water are also allowed to be released to the City's storm sewer system since these sources are authorized under an AZPDES permit [see Section 8-5-2(B) of the City's Stormwater Code as provided in [Appendix A](#)]. Swimming pool discharges are not expressly allowed under the City's Stormwater Code since these discharges can also be a violation of the City's public nuisance code (Title 8, Chapter 6 of the Mesa City Code).

#### **4.1.3 Management of Non-Stormwater Flows**

The City does not operate as a permitting agency for stormwater or non-stormwater flows. However, the City has identified the following non-stormwater releases to target through the training of City stormwater code enforcement personnel. This training was developed to equip City staff with the correct information to provide the public when targeted releases are discovered or reported. The following table summarizes the City's approach to non-stormwater flows and the impacts of improper management.

<b>Targeted Release</b>	<b>Targeted Pollutant(s)</b>	<b>Targeted Areas</b>
Flood Irrigation Water	Sediment	Irrigation over areas that are exposed to bare soils.
Individual Car Washing	Sediment Solvents	Washing heavily soiled trucks. Washing undercarriage or engine compartments.
Street Wash Water	Sediment Oils	Washing dirt covered paved surfaces. Washing paved surfaces with standing liquid oil spills.
Swimming Pools & Hot Tub Water (generally not allowed)	Chlorine Bromine Sediment Bacteria	Flows must remain on site (irrigation usage) go to sanitary sewer, or be pumped and hauled away for disposal.

#### **4.1.4 Private Detention/Retention Basins and Drywells**

Non-stormwater flows to detention basins or retention basins (i.e. surface impoundments) and drywells are regulated under the ADEQ's Aquifer Protection Permit (APP) program. Under that program, a clean closure may be required wherever a pollutant (other than that exempted under ARS Title 49, Section 250) is released to surface impoundments or drywells to ensure that no migration of pollutants directly to the aquifer (groundwater) or to the vadose zone has occurred. As such, the City will report the release of any pollutant to privately owned surface impoundments or drywell systems to the ADEQ for enforcement under the APP program instead of addressing these non-stormwater releases under the City's Stormwater Code.

#### **4.1.5 Illicit Discharges**

An illicit discharge is defined as any discharge to the MS4 that is not composed entirely of storm water except the allowable non-stormwater flows detailed in [Section 4.1](#) of this document. Examples of illicit discharges include the following:

- Discharges of septic waste either through interconnection or through mobile sources (e.g., septic haulers or RVs)
- Discharges of mobile business's process water (e.g., carpet cleaners, painters)
- Concrete equipment cleanout
- Industrial process water
- Chlorinated or eutrophic swimming pool water

- Illicit sanitary sewer cross-connections
- Discharges of stormwater from secondary containment structures that contains visible sheen or other pollutants

## **4.2 INSPECTIONS AND SCREENING**

The 2021 MS4 Permit requires the City to implement an ongoing program designed to detect and identify non-stormwater discharges into the City's MS4. Inspections and screenings for non-stormwater discharges will be conducted using the *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments* or another method of equal effectiveness.

The 2021 MS4 Permit requires the City to inspect "priority" major outfalls or field screening points (FSPs) (if applicable) once each year of the permit term. Priority outfalls and FSPs are defined as those that discharge to an impaired and/or outstanding Arizona water (OAW) or other perennial water; all major outfalls and FSPs that have been a source of illicit discharges in the past five years (unless the source has been eliminated or has been shown not to be a significant source of pollutants; and all major outfalls identified by the City as a priority for illicit discharges.

The City discharges stormwater to two distinct segments of the Salt River and to the EMF (see [Section 1.3](#)). To the City's knowledge, none of these water bodies have been identified as being an impaired water, outstanding Arizona water, or perennial water body. Previous dry-weather screening activities conducted during the past five years of the 2010 MS4 Permit at identified outfall and FSP locations did not result in the determination of a release of significant pollutants to either the City's storm sewer system or a water of the United States. Lastly, no major outfalls have ever been identified by the City as a priority for illicit discharges. Therefore, as of the date of this SWMP, no priority outfalls have been identified by the City. Should the City identify priority outfalls during the 2021 MS4 Permit term, these outfalls will be placed on the annual inspection list for dry weather screening.

### **4.2.1 Outfall and Field Screen Point Locations**

The City has identified fourteen (14) distinct drainage areas as they related to dry-weather screening purposes. These drainage areas are defined, in general, by

highways irrigation canals, and flood control structures that generally create hydrological barriers; through, under, or over which few connections, if any, exist. The drainage area map is provided in [Appendix B](#).

Outfall locations were determined as point source locations that “discharge” stormwater from the City’s storm sewer system directly to an Arizona protected surface water (see [Section 1.3](#)). FSPs were determined as point source locations that “release” stormwater from the City’s storm sewer system to another regulated MS4 operator’s infrastructure where the same release then either directly discharges to a water of the United States, or where the City determines that there is a reasonable probability of the release discharging to a water of the United States.

The 2021 MS4 Permit requires the City to provide a map or inventory of major outfall and FPS locations (with latitude and longitude and associated drainage areas). The general locations of the City’s outfall and FSP locations are provided in [Appendix B](#). An inventory of the outfall and FSP locations, including latitude and longitude, is provided in [Appendix C](#).

#### **4.2.2 Existing Dry-Weather Flows**

The 2021 MS4 Permit requires the City to re-evaluate known dry-weather flows not eliminated or investigated in the past five (5) years. While operating under the 2010 MS4 Permit, the City conducted dry-weather screening activities at outfall and FSP locations identified as part of that permit at a frequency that resulted in 100% of all locations being screened during the past five year period. Dry-weather screening activities conducted at these locations did not result in the determination of a release of significant pollutants to either the City’s storm sewer system or a water of the United States (see City of Mesa stormwater annual reports dated September 2016 through September 2020).

#### **4.2.3 Inspection Schedule**

The 2021 MS4 Permit requires the City to inspect all priority outfalls annually while inspecting 100% of all major outfalls and FSPs within the five-year MS4 Permit term. The City has tentatively scheduled outfall and FSP inspections based on drainage area, the proximity of the drainage areas to one another, and targeting those drainage areas

that contain actual outfalls (i.e. discharge directly to an Arizona protected surface water) and/or FSPs in closest proximity to an Arizona protected surface water.

The order in which the outfalls and FSPs are inspected in each drainage area is roughly established by the sequencing order of each asset within that drainage area (example: Drainage Area 5, assets: 501, 502, 503, etc.). In taking this approach, the City identified four target areas as provided in the following subsections. In inspecting one of the four target areas annually, the City intends to meet the requirement that all outfalls and FSPs be inspected at least once during the five-year term, leaving the fifth year open to inspection of newly identified “priority” outfalls, new outfalls that were constructed during the permit term, and any previously unidentified outfalls which may have been missed during the initial mapping evaluation. The following target areas will be evaluated annually during the first four years of the permit term:

#### 4.2.3.1 Target Area A

Target area A includes outfalls and FSPs in drainage areas 11, 9, 8, and 2. The City will start in drainage area 11 (southernmost) and work their way north (up-gradient) through the EMF (i.e. drainage areas 9 and 8) and to drainage area 2, with outfalls that drain directly the Salt River.

#### 4.2.3.2 Target Area B

Target area B includes FSPs located in drainage areas 1, 4 and 14, since these FSPs are in close proximity to the Salt River and discharge either through pipe-to-pipe connections or through concrete-lined channels (offering little treatment).

#### 4.2.3.3 Target Area C

Target area C includes FSPs located in drainage areas 5 and 7 since these FSP locations drain to the ADOT channel at the US 60.

#### 4.2.3.4 Target Area D

Target area D includes FSPs located in drainage area 6 and 11 since the closest FSP location in each of these drainage areas is approximately 20,000 feet from the Salt River and the EMF, respectively. The only remaining drainage area with an FSP is

drainage area 7, which only has one FSP and can be inspected as part of the inspection sequence for drainage area 5 or 6.

#### **4.2.4 Dry-Weather Screening Methods**

During dry weather screening activities, the City will:

- visually inspect each outfall and FSP location for flow, trash, suds, and odor;
- collect a sample for dry-weather screening where the flow rate is found to be sufficient; and,
- re-inspect within 24 hours where flow was present.

40 CFR 122.26 requires this visual inspection to include color, turbidity and the presence of oil sheen or surface scum and is specific with respect to the re-inspection timeframe (requires a re-inspection between four (4) and twenty-four (24) hours where flow was present).

The City collects samples for dry-weather screening where significant flow exists (generally greater than 0.3 gallons per minute). Dry-weather screening samples are collected as discrete (i.e. grab) samples. For quantitative analyses, the City purchased the HACH Company Storm Water Test Kit Model SW-1 for the analysis of pH, total chlorine, total copper, total phenol, and detergents. The City purchased a HACH Company 2100Q Portable Turbidimeter to measure turbidity of dry-weather screening samples. For qualitative analyses, parameters are estimated based on visual observations. A description of the methods used for quantitative analyses, including the name of the manufacturer of the test method along with the range and accuracy of the test for field analysis, is provided in [Appendix D](#).

#### **4.2.5 Investigation Timelines**

The 2021 MS4 Permit requires the City to immediately respond to all reports of illicit discharges which constitute a threat to human health or the environment and that 90% of all reports of illicit discharges shall be investigated within five business days. Reporting sources are discussed in [Section 3.1](#) of this document but can also include reports received from City personnel or other outside public employees (e.g., Maricopa County or adjacent cities). The City generally responds to all public reports (i.e.

complaints) within three (3) business days, including those related to stormwater issues. Investigations include responding to the address of the reported issue and assessing conditions at that location. For non-stormwater releases, it may be necessary to conduct a drainage area investigation to identify the source.

#### **4.2.6 Tracking**

Dry-weather screening and associated investigations are documented on the Dry-Weather Screening Report Form specific for each location. The City has developed a database with the functionality to retrieve data and generating reports required for the annual report and to better track results at these locations. Additionally, all reports of illicit discharges generated from outside sources are tracked in Accela as an environmental complaint.

### **4.3 ENFORCEMENT AND ELIMINATION**

The 2021 MS4 Permit requires the City to initiate corrective actions and/or enforcement mechanisms to eliminate any illicit discharge within 60 calendar days of identification of the source. If a source is fully investigated and determined to not cause or contribute to an exceedance of a SWQS, this 60-day timeframe will not apply. All source investigations will be documented and will include the results of the investigation plus any sampling and reasoning used to determine whether such discharges do not contain significant levels of pollutants.

In the event of the discovery of a source of an illicit discharge that contributes to an exceedance of a SWQS, the 2021 MS4 Permit requires the City to implement and follow enforcement procedures that incorporate escalating actions for violations of municipal stormwater requirements, ordinance, or code identified during inspections. The City is required to resolve at least 80% of these cases within one calendar year from the original enforcement action.

The City's Stormwater Code is consistent with other sections of the Mesa City Code to make enforcement more consistent at the inspector level and to ensure compliance with the 2021 MS4 Permit requirements. The City developed Basic Case Enforcement Process Work Instructions to provide a general schedule for obtaining compliance with



stormwater violations, as well as other sections of the Mesa City Code. A copy of the Basic Case Enforcement Process Work Instructions is included in [Appendix E](#).

#### **4.4 EMPLOYEE TRAINING**

The 2021 MS4 Permit requires existing employees directly involved with stormwater management activities, including dry-weather screening and associated investigations, be trained at least once every two (2) years and to provide an opportunity for new employee training at least one (1) time per year.

As such, all City staff who conducts these types of operations must meet the following requirements:

- Review the procedures detailed in the Environmental Code Violation Standard Operating Procedures;
- Have knowledge of:
  - Ordinances, rules, and regulations governing stormwater discharges, particulate pollution, and hazardous materials;
  - Principles and practices for field monitoring protocols, sample collection, preservation, analysis, and documentation requirements;
  - Occupational and safety precautions at industrial and construction work sites; and,
- Have a basic knowledge of the impact of chemicals on human and ecological systems.

Select staff are required to remain current on stormwater regulatory requirements through reviewing regulations; attending seminars; participating in stakeholder meetings, public meetings, and other networking group events; and receiving newsletters and information through distribution lists related to stormwater programs.

Additionally, and in order to meet the training requirements associated with the 2021 MS4 Permit, all existing City staff who conduct dry-weather screening and associated investigations shall be provided a training opportunity by supervisory personnel at least once a year. Where new employees are hired, a training opportunity shall be provided within one year of service. All training shall be documented by the City in the form of

retaining a sign-in sheet or other form of documentation including the date these training opportunities were provided and the staff attending the training.

#### **4.5 RECORDKEEPING AND REPORTING**

The City of Mesa has developed a cloud-based electronic document management system (EDMS) and follows a standard operating procedure for retention of all environmental documents. In accordance with the 2021 MS4 Permit, the City will continue to track and maintain all records of the activities associated with IDDE in accordance with the Arizona State Library Archives and Public Records (ASLAPR) approved retention schedules.

The 2021 MS4 Permit requires the City to report annually the following information as it pertains to the City's IDDE program:

1. City of Mesa AZPDES Number
2. Date incident reported or discovered
3. Date of the beginning of each response
4. Date of the end of each response
5. Did the discharge reach an Arizona Protected Surface Water
6. Incident location (address or latitude and longitude)
7. Pollutants
8. Source
9. Corrective actions(s)

## **5 MUNICIPAL FACILITIES POLLUTION PREVENTION AND GOOD HOUSEKEEPING PRACTICES**

### **5.1 SPECIFIC FACILITY REQUIREMENTS**

The 2021 MS4 Permit requires the City to continue to update and maintain an inventory, database, list, map, or other equivalent tracking system of specific City-owned and operated facilities identified in the permit and described below

The inventory must include the following types of facilities:

- Equipment storage and maintenance facilities;
- Fleet maintenance facilities (vehicle washing and maintenance, chemical handling, waste storage);
- Hazardous waste disposal facilities;
- Hazardous waste handling and transfer facilities;
- Landfills;
- Materials and waste storage yards and processing facilities;
- POTWs and sludge handling areas;
- Recycling facilities;
- Street repair yards and street maintenance yards; and
- Other sites or sources that the City determines may be a significant source of pollutants to the MS4

It should be noted that some municipally owned facilities, such as water treatment plants and the Falcon Field Airport are covered under separate AZPDES permit programs and according to the 2021 MS4 permit, are governed by these other permits and not this section of the SWMP.

#### **5.1.1 Industrial Facility Identification, Review, and Prioritization**

By developing a list from the City-owned properties database, the City has identified approximately 111 facilities that are specifically identified in [Section 5.1](#) and/or have the potential to discharge pollutants to the MS4. Information with respect to these facilities is included in [Appendix F](#).

The 2021 permit requires the City to implement a system to review and prioritize this municipal facility inventory. The municipal facility inventory will be reviewed at least annually, and prioritization shall be considered using the following considerations:

- Type and location of materials used and/or stored at the facility;
- Potential for exposure to stormwater; and
- Potential to discharge a substantial pollutant load to the MS4 or to a water of the U.S.

Facilities covered under separate AZPDES permit programs shall be ranked as a low priority for consideration under this permit.

### **5.1.2 Inspections**

The 2021 Permit requires the City to inspect all the facilities identified in Section 5.1 at least once within the five-year permit term. It is the City of Mesa's intention to inspect all the facilities identified in the initial review within the first four years of the permit term while inspecting any missed, newly identified, or newly built or acquired facilities in the fifth year of the permit term.

## **5.2 GOOD HOUSEKEEPING MEASURES**

The 2021 MS4 Permit requires the City to implement practices, policies, and procedures that reduce stormwater impacts associated with runoff from all lands owned and operated by the City. For the purpose of this section, the definition of lands owned and operated by the City include parking lots, streets, roads, highways, buildings, parks, open space, road right-of-way, maintenance yards, and stormwater treatment and flow control BMPs and facilities. The following activities are required to be addressed:

- Pipe culvert and ditch maintenance and cleaning;
- Street cleaning;
- Road repair and resurfacing;
- Utility installation;
- Maintaining roadside areas, including vegetation management;
- Dust control

- Application of fertilizers, pesticides, and herbicides according to the instructions for their use, including reducing nutrients and pesticides using alternatives that minimize environmental impacts;
- Sediment and erosion control;
- Landscape maintenance and vegetation disposal;
- Trash and pet waste management;
- Building exterior cleaning and maintenance

The City of Mesa has developed a set of Standard Operating Procedures (SOPs) to address the requirements of this section. The Municipal Operations SOP and the City Field Operations SOP address environmental requirements, including stormwater requirements, for City facilities and operations covered under this section. These SOPs provide working knowledge for facility and field staff to address stormwater related activities, and a means to address and correct any non-compliance issues they may encounter in the course of their work.

### **5.3 TRAINING**

The 2021 MS4 Permit requires the City to provide new-employee training at least once per year to employees with direct stormwater responsibilities. These same employees shall be provided refresher training at least once every other year. The City of Mesa has developed an environmental programs training SOP which provides a procedure to identify and schedule specific employees involved with direct stormwater responsibilities to be trained under the following topics, as required by the 2021 MS4 Permit:

- The importance of protecting water quality;
- Pollutants and their sources;
- Operations and maintenance standards;
- Inspection procedures;
- Selecting appropriate BMPs;
- Ways to perform job activities to prevent or minimize impacts to water quality;
- Procedures for reporting water quality concerns

All training will be documented by the City in the form of retaining a sign-in sheet or other form of documentation including the date these training opportunities were

provided and the staff attending the training. In the event that there are no new employees with direct stormwater responsibilities hired within a given year, the City intends to document this in the annual report.

#### **5.4 RECORDKEEPING**

The City of Mesa has developed a cloud-based electronic document management system (EDMS) and follows a SOP for retention of all environmental documents. In accordance with the 2021 MS4 Permit, the City will continue to track and maintain all records of the activities associated with this section in accordance with the Arizona State Library Archives and Public Records (ASLAPR) approved retention schedules.

## **6 PRIVATE INDUSTRIAL AND COMMERCIAL FACILITIES (NON-MUNICIPALLY OWNED)**

The purpose of the industrial and commercial facility inspection program is to document those private operations within the City that have the potential to discharge pollutants to the MS4 while establishing a means to review and correct any pollutant sources which may be in violation of the City's stormwater ordinances. The City drafted a Commercial & Industrial Facility Inspection Standard Operating Procedures (SOP) manual that provides greater detail on how the City addresses the requirements associated with the inspections of private commercial and industrial facilities referenced in Section 4.6 of the City's MS4 Permit. Those procedures also address other environmental program areas and similar Mesa City Code requirements.

### **6.1 INDUSTRIAL AND COMMERCIAL FACILITY INSPECTIONS**

The 2021 MS4 Permit requires the City to continue to update and maintain an inventory, database, list, or map tracking system of private commercial and industrial sites that have the potential to discharge stormwater pollutants to the City's MS4. The inventory of commercial and industrial facilities includes industrial facilities identified in 40 CFR 122.26(d)(2)(iv)(C) and any other sources which the City has determined to be a significant source of pollutants. The City has interpreted the clause "other sources which the City has determined to be a significant source of pollutants" to include all facilities within the City that are subject to the 2019 ADEQ Multi-Sector General Permit (MSGP).

The facilities identified in 40 CFR 122.26(d)(2)(iv)(C) include municipal landfills, hazardous waste treatment, disposal, and recovery facilities, and industrial facilities that are subject to section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III). Facilities subject to SARA Title III are those that meet the following criteria:

- The facility that has 10 or more full time employees;
- The facility has manufactured, processed or otherwise used any toxic chemical above threshold amounts in the course of a calendar year; and

- The facility has a primary Standard Industrial Classification (SIC) code in any of the 27 industry sectors known to be most likely to contribute pollutants to surface waters

### **6.1.1 Identifying Industrial Facilities**

The City identified all industrial facilities within the City's boundaries that met the requirements established under 40 CFR 122.26(d)(2)(iv)(C) [Superfund Amendments and Reauthorization Act (SARA) Title III facilities]. The City will continue to conduct an annual review of the USEPA Toxic Release Inventory (TRI) database in order to keep the City's inventory updated. The City continues to add newly identified industrial facilities into the industrial inspection process, and remove any facilities that were known to no longer operate within the City's jurisdiction. At any point of time, the City's industrial inventory ranges from approximately 25 to 50 facilities.

In 2021, the City engaged with personnel and the Arizona Commerce Authority to provide information on facilities subject to the MSGP based on Standard Industrial Classification (SIC) codes. The list provided by the ACA featured approximately 4,000 facilities. By identifying duplicate, defunct, or incorrectly listed facilities, the City was able to further refine the list to about 700 active facilities. As of the date of this publication, the City's industrial facility inventory included approximately 800 facilities, of which approximately 680 were active facilities, and of those approximately 480 facilities are currently listed as MSGP facilities [i.e. those having a SIC code identified in the 2019 MSGP]. A listing of the facilities currently included on the City's industrial facilities database is provided in [Appendix G](#).

### **6.1.2 Inspection Prioritization**

The City believes that the inspection of industrial facilities should not be conducted in a manner that provides a financial advantage to other industrial owners/operators in the same business [i.e. industrial sector, SIC, or North American Industry Classification System (NAICS)]. As such, with the exception of complaint inspections and TRI listed facilities, the City intends to randomly inspect all facilities listed in the industrial facility database at least once per the five-year term of the 2021 MS4 permit.

The following criteria are used to determine categories and establishing a prioritization for conducting industrial inspections.



1. Complaints.
2. Newly identified TRI listed facilities that have not been previously inspected.
3. Current TRI listed facilities that were not previously inspected within the last 5 years.
4. Industrial facilities identified as subject to the 2019 MSGP (randomly selected by a random number generator).

### **6.1.3 Types Of Inspections & Notification Procedure**

The inspection notification procedure is different depending on whether this is the first requested inspection, a follow-up inspection, or a complaint inspection.

#### **6.1.3.1 Initial Inspections**

The City provides notification to industrial facilities in advance to determine if they are still in operation at that location and to ensure the facility will have knowledgeable personnel available.

The following steps detail the initial inspection process:

1. **Initial Notification:** The City places a phone call to the owner/operator of the facility to request a date to perform an inspection. If the facility owner/operator is unable to commit to a scheduled date and time at the time of the initial phone call, the City will allow them 20 calendar days to return the call with a desired inspection schedule.
2. **Follow-Up Notification:** If no response is received during the initial notification phone call, the City will attempt to contact the facility a second time via telephone to schedule an inspection.
3. **No Contact\*:** If the City is unable to contact the owner/operator within thirty (30) calendar days, the City will conduct an unannounced inspection of the facility at the inspector's convenience.
4. **Uncommitted or Overly Delayed Response\*:** If the facility owner/operator has contacted the City but is uncommitted or repeatedly delays the inspection date in exceedance of forty-five (45) calendar days of the initial notification, the City will establish an inspection date on or about the forty-sixth (46<sup>th</sup>) calendar day following the date of the initial notification.

5. **Delayed Inspections at Fault of the City:** If a scheduled inspection is missed by the City due to lack of manpower or emergency response requirements, the City will work with the facility owner/operator to establish another inspection date not to exceed 60 calendar days from the date of initial notification.
  - \* **NOTE:** The ‘No Contact’ types of inspections may require the use of two or more inspectors, possibly some from different departments or divisions, to ensure personal safety.

#### 6.1.3.2 Complaint Inspections

The City attempts to inspect all industrial facilities that are called in on a complaint basis within one working day of receiving that call, whenever possible. Where industrial operations seem questionable, the City inspector may require the use of two or more inspectors, possibly some from different departments or divisions, to ensure personal safety. The presence of a police officer may also be provided at the request of the City inspector.

#### 6.1.3.3 Follow-Up Inspections

Follow-up inspections are conducted when an initial inspection, complaint inspection, or a previous follow-up inspection result in the identification of deficiencies that have not been, or could not be, corrected in the presence of the City inspector. Follow-up inspections are generally conducted within one (1) business day for serious violations where such violations can reasonably be expected to be addressed in that timeframe.

For less serious violations, a follow-up inspection is generally addressed by developing a compliance schedule with the owner/operator, usually within ten (10) business days. However, the City inspector may set a longer inspection window in cases where the owner/operator may reasonably be expected to be limited by others (e.g. time lags associated with having materials delivered to the facility or where permits are required).

## 6.2 INSPECTION PROCESS

The inspection process is generally divided into two separate activities. The first step is to conduct a document review; this is followed by the second step, which is to perform a facility field inspection.

### **6.2.1 Document Review**

Most industrial facilities inspected by the City require coverage under the MSGP. The MSGP requires operators of regulated industrial activities to develop and implement a Storm Water Pollution Prevention Plan (SWPPP) prior to submitting a Notice of Intent (NOI) form to apply for coverage under the permit. A SWPPP is a “living document” and as such, it should be designed to be flexible enough to change as site conditions change. Additionally, the City does not have the authority to review the SWPPP for compliance with federal or state requirements or permit conditions. Therefore, the City does not require operators of regulated industrial activities to submit a copy of their SWPPP prior to inspection.

Instead, the City conducts a cursory review of SWPPP and/or other documentation during industrial facility inspections to identify areas that require inspection to ensure compliance with Mesa City Code. The City has drafted an inspection checklist that provides a list of documents that may be reviewed as part of this process.

### **6.2.2 Field Inspection**

Industrial facility inspections are limited to areas that are exposed to stormwater and other areas where operations take place where such operations may be regulated under the City’s other environmental program areas and similar Mesa City Code requirements. Industrial facility staff familiar with facility operations are asked to accompany the City inspector through the field inspection. The results of the inspection are noted on a City of Mesa Industrial Facility Inspection Form.

### **6.2.3 Inspection Disclaimer**

The City only conducts inspections of industrial facilities for compliance with the City’s Stormwater Code and other parts of the Mesa City Code. As such, the owner/operator is provided a copy of an Industrial Facility Inspection Disclaimer form stating that the inspection was limited to these aspects of the City of Mesa Code and not to determine compliance with permit or other regulatory agency requirements.

### **6.2.4 Compliance Review Approval**

Once an industrial facility has been inspected and determined to be operating in compliance with the City’s Stormwater Code, the City will send out an Inspection Results Letter to the owner/operator.

### **6.3 COMPLIANCE ACTIVITIES AND ENFORCEMENT**

The 2021 MS4 Permit requires the City to implement an effective compliance and enforcement program that incorporates escalating actions for violations of municipal stormwater requirements, ordinance, or code. The escalated enforcement protocol is required to focus on having at least 80% of cases with the highest level of enforcement action resolved within one (1) calendar year of the initial inspection or violation.

The City's Stormwater Code has been implemented to be consistent with other sections of the Mesa City Code, to make enforcement more consistent at the inspector level, and to ensure compliance with the 2021 MS4 Permit requirements. The City developed Basic Case Enforcement Process Work Instructions to provide a general schedule for obtaining compliance with stormwater violations, as well as other sections of the Mesa City Code. A copy of the Basic Case Enforcement Process Work Instructions is included in [Appendix E](#).

### **6.4 NON-FILERS**

The 2021 MS4 Permit requires the City to notify the ADEQ of any industrial operations that are known by the City to be occurring without obtaining coverage under the MSGP (i.e. "non-filers"). Where an industrial facility owner/operator is unable to provide proof of coverage under the MSGP, where the City determines that coverage might be required, or when the facility owner/operator voluntarily discloses that MSGP coverage is required (i.e. self-identification of a covered SIC sector), the City will request a copy of any missing documentation (No Exposure Certification or No Discharge Certificate) or require a signed letter from the owner/operator that the MSGP regulations do not apply to them within 30 calendar days. Where a facility operator/owner does not believe that the regulations apply to them due to a "no-discharge" or "zero-discharge" claim, the City may request a letter signed and stamped by an Arizona registered professional (i.e. P.E. or R.G.).

The City will report any industrial facility that is non-responsive to the ADEQ as a "non-filer" within 30 days of identification as required by the 2021 MS4 Permit. Where a permit authorization or no-exposure certification is provided, no further action will be taken.

## **6.5 RECORDKEEPING**

The City of Mesa has developed a cloud-based electronic document management system (EDMS) and follows a SOP for retention of all environmental documents. In accordance with the 2021 MS4 Permit, the City will continue to track and maintain all records of the activities associated with this section in accordance with the Arizona State Library Archives and Public Records (ASLAPR) approved retention schedules.

Additionally, City personnel prepare monthly reports detailing the status of the industrial inspections that include the status of the facility inventory and a summary of inspections, enforcement actions, and findings. That information is then summarized annually.

## **6.6 TRAINING**

The 2021 MS4 Permit requires the City to provide new-employee training at least once per year to employees with direct stormwater responsibilities. These same employees shall be provided refresher training at least once every other year. The City of Mesa has developed an environmental programs training SOP which provides a procedure to identify and schedule specific employees involved with direct stormwater responsibilities to be trained under the following topics, as required by the 2021 MS4 Permit:

- The importance of protecting water quality;
- Pollutants and their sources;
- Operations and maintenance standards;
- Inspection procedures;
- Selecting appropriate BMPs;
- Ways to perform job activities to prevent or minimize impacts to water quality;
- Procedures for reporting water quality concerns

## **7 CONSTRUCTION SITES**

The City drafted a Standard Operating Procedures for Construction Activities of City Projects manual to meet the requirements of the 2021 MS4 Permit, the CGP, and other environmental regulatory requirements associated with construction operations, as well as to address other environmental program areas established under the Mesa City Code. The City also drafted a Standard Operating Procedures for Construction Activities of Private Projects manual to meet the requirements of the 2021 MS4 Permit. These manuals provide more details on the how the City addresses the requirements associated with the inspections of City and private construction sites. Those procedures also address other environmental program areas and similar Mesa City Code requirements.

The City understands that all requirements provided in the 2021 MS4 Permit as it pertains to the construction activities are limited to those construction projects that will result in a land disturbance of one (1) acre or more, including those less than one (1) acre, but are part of a larger common plan of development. Regardless of a construction project's area of land disturbance, the City will continue to enforce its stormwater ordinances as they relate to stormwater discharges to the City's MS4.

Details of the Standard Operating Procedures, fact sheets, and FAQs related to the City's environmental requirements for construction activities are organized and linked on the City's website ([Link](#)).

### **7.1 PLAN REVIEW**

The 2021 MS4 Permit requires that at least 80% of plans for new development and redevelopment shall be reviewed to ensure that controls are implemented to reduce the discharge of pollutants to the MS4. Typically, these plans are reviewed by the City's Development Services Department (DSD) as part of the municipal planning process and are submitted as part of the developers' grading and drainage plans. It should be noted that the City has implemented a process whereby 100% of all projects are evaluated for land disturbance area and if conditions of the project include disturbance of greater than one (1) acre or less than one (1) acre but part of a larger common plan of development, 100% of these projects' grading and drainage plans are reviewed.

### **7.1.1 Stormwater Control Measures**

Along with the submission of the required ADEQ CGP Permit Authorization Certification, Permit Waiver, or No Discharge Certificate, development applicants' plans for projects greater than one (1) acre or less than (1) acre but part of a larger common plan of development are required to submit Erosion and Sediment Control plans. The Erosion and Sediment Control Plan should include all boundaries of the project as well as areas where supporting activities will occur. The Erosion and Sediment Control Plan shall include BMPs that the project will implement to prevent the release of pollutants to the City's MS4. Elements of Erosion and Sediment Control Plans that are protective of water quality include the following:

- Maximum fill and cut slopes
- Maximum bench heights and widths
- Types of allowable fill materials
- Fill compaction and requirements
- Setbacks of fill slopes from property boundaries
- Treatment of fill slopes and other slopes to prevent erosion from stormwater runoff
- Requirements for maximum fill/cut slopes for drainage channels
- Terracing draining requirements, including erosion controls
- Subsurface drainage controls for stability
- Drainage way erosion control provisions

### **7.1.2 Private Construction Operations**

The City has developed an Engineering and Design Standards Manual that provides specific direction and guidelines to the design professionals preparing construction documents for private land development projects. That manual generally adopts the Uniform Drainage Policies and Standards for Maricopa County as published by the Flood Control District of Maricopa County with modifications as specified within that manual.

City regulations requiring the retention of the 50-year, 24-hour run-off volume were adopted in 1997 and were based on three (3) inches of precipitation. Retention standards requiring the 100-year 2-hour volume were adopted in the late 1980's. The

current design storm is based on the 100 year frequency, 2-hour duration storm event which is equivalent to 2.2 inches of rainfall, except in the Mesa Town Center where the retention standard only requires 2/3 of the 100 year, 2 hour rainfall depth, or 1.5 inches.

The primary purpose of onsite stormwater retention standard is to manage stormwater runoff flow rates and volumes resulting from urban development. Stormwater disposal can occur through direct percolation into subsurface soils (full retention) or be released to the City's MS4 through gravity or pressurized bleed-off systems (detention). Bleed-off to the City's MS4 can only occur after the peak of the storm event has passed. Maintenance of private retention/detention infrastructure is the responsibility of the property owner.

When plans are submitted to the City, information on the construction project is entered into a database and tracked from the plan review and inspection process through the completion of the process (i.e. issuance of a Certificate of Completion or Certificate of Occupancy). The City reviews all construction plans for compliance with all aspects of the City's Engineering and Design Standards Manual and City ordinances. Stormwater drainage and infrastructure are generally detailed in grading and drainage plans. Approval of these plans is required before a permit is issued by the City. A copy of the contractor's ADEQ Authorization Certificate is also required before a permit is issued by the City, where applicable.

### **7.1.3 City Projects**

For City projects, the City is deeply involved in the project through all phases of development (i.e. conception, planning, construction, and completion). In general, City projects are designed to meet the requirements provided in the City's Engineering and Design Standards Manual. Grading and drainage plans are required for most engineering projects, and all projects that disturb one or more acres of land. The City approves all plans drafted by outside consultants before the project is approved and issued for bid.

The City maintains a separate database for environmental inspections of City construction projects that disturb more than 0.1 acres. This is the threshold disturbance limit where a dust control permit would be required. For projects that disturb one or more acres, the City requires the general contractor to submit a copy of their SWPPP



for review and approval along with a copy of their ADEQ Authorization Certificate before the contractor is authorized to conduct any land disturbance activities.

#### **7.1.4 Employee Training**

Department management overseeing plan review staff is responsible for ensuring that training is provided at least once every two (2) years for existing employees and provided for new employee training at least once (1) per year. Such training will include reviewing grading and drainage design standards and plan review procedures.

Additional training including the requirements for the submittal of the ADEQ Authorization Certificate, the City's Stormwater Code, requirements for structural and non-structural control measures, post-construction stormwater controls, and other environmental issues will be provided by experienced stormwater staff.

All training shall be documented by the City in the form of retaining a sign-in sheet or other form of documentation including the date these training opportunities were provided and the staff attending the training.

#### **7.1.5 Construction Site Inventory**

The 2021 MS4 Permit requires the City to develop and update a comprehensive inventory of construction sites that disturb greater than one (1) acre or less than one (1) acre but part of a larger common plan of development that discharge stormwater to the MS4. Permit conditions also require the City to maintain and update this inventory annually. DSD utilizes Accela planning software to assist in the workflow of development planning and permitting. Since 100% of all City-permitted projects are evaluated for stormwater permitting applicability using the Accela software, the inventory of applicable construction sites is continuously current and will remain current throughout the MS4 Permit term.

## **7.2 CONSTRUCTION SITE INSPECTIONS**

The 2021 MS4 Permit requires the City to create an inspection prioritization plan and to establish an inspection schedule based on the prioritization ranking. It is the City's position that all CGP eligible projects are considered the highest priority and, as

required by the 2021 MS4 Permit, are inspected at least one (1) time every three (3) months.

All construction site inspections (private and City) are generally categorized as “routine” and “follow-up” inspections. The City also responds to complaints regarding private and City construction operations. The following sections describe the City’s stormwater construction inspection procedures.

## **7.2.1 Routine Inspections**

### **7.2.1.1 Private Construction Projects**

The initial routine inspections of private construction projects generally occur within three (3) weeks of the issuance of any permit for projects that involve a surface/land disturbance of one (1) acre or more. During this visit, the City will review the operator’s plans, identifying active disturbance areas and stormwater best management practices (BMPs). The City then inspects all active areas of the project to ensure that BMPs and other environmental ordinance issues identified on the operator’s plans are in place and maintained, and to ensure there are no illicit discharges to the City’s storm sewer system.

Subsequent routine environmental compliance inspections are automatically scheduled 84 days following the previous routine environmental compliance inspection for projects that disturb one acre or greater of land. The scope of the inspection is generally the same as the initial inspection except that if the City of Mesa Environmental and Sustainability (ESD) inspector had previously inspected the project the review of the operator’s documents may not be necessary.

### **7.2.1.2 City Construction Projects**

All City staff involved in any inspection of City construction projects are trained in identifying and addressing environmental issues associated with these operations, including stormwater issues. Select City staff having authority to enforce the City’s Stormwater Code also conduct routine inspections in the form of a compliance audit of these operations. Compliance audits are generally conducted within two weeks of the approval of the City to the general contractor (i.e. issuance of a Notice to Proceed) or the disturbance of land associated with the project. Subsequent compliance audits of

City construction projects are conducted a minimum of one (1) time every three (3) months.

### **7.2.2 Follow-Up Inspections**

Follow-up inspections are conducted when a routine inspection or a previous follow-up inspection results in the identification of deficiencies that have not been or could not be immediately addressed. The scope of the follow-up inspection is limited to inspecting only those issues that were identified as deficient in the previous inspection. However, if other significant issues are observed, the City shall address these issues as appropriate.

Follow-up inspections are generally conducted within 24-hours for serious violations where the deficiency was not addressed in the presence of the City inspector. Follow-up inspections for less serious violations are addressed by developing a compliance schedule with the operator. Under any circumstance, follow-up inspections must occur within 30 calendar days of the identification of the original deficiency.

### **7.2.3 Prioritization**

It is the City's decision to conduct inspections of private construction projects and compliance audits of City construction projects a minimum of one (1) time every three (3) months as opposed to spending time and resources developing a prioritization scheme. The City believes this process will allow for more frequent inspections overall and will benefit the City's stormwater program instead of spending resources on methods for planning these inspections.

### **7.2.4 Inspection Records**

Inspections of private construction projects are entered into the same database that stores the information entered as part of the plan review process. This provides a detailed record of the construction operations from the point of plan submittal through inspection and approval (i.e. issuance of a Certificate of Completion or Certificate of Occupancy). Compliance audits of City construction projects are entered into a separate database since these inspections tend to be more comprehensive in nature.

### **7.2.5 Training**

Training of City staff involved in conducting construction inspections will include:

1. Brief overview of ADEQ stormwater permit requirements associated with construction operations, concentrating on permitted non-stormwater discharges;
2. Identifying releases of non-stormwater to the City's MS4 and eliminating releases that are not allowed;
3. City's Storm Water Pollution Control ordinance and other applicable ordinances;
4. Requirements for structural and non-structural BMPs and post-construction stormwater controls, including maintenance requirements; and,
5. Inspection and enforcement procedures.

All training shall be documented by the City in the form of retaining a sign-in sheet or other form of documentation including the date these training opportunities were provided and the staff attending the training.

### **7.3 COMPLIANCE AND ENFORCEMENT**

The 2021 MS4 Permit requires the City to:

1. Establish an enforcement procedure that provides timeframes and escalation for corrective actions and compliance with Mesa City Code Title 8, Chapter 5;
2. Establish an effective compliance and enforcement program that incorporates escalating actions for violations of the City's Storm Water Pollution Control ordinance that provides timeframes and escalation for corrective actions; and,
3. Focus the escalated enforcement protocol on having the highest level of enforcement action resolved within one (1) year of the initial inspection/violation.

The City's Stormwater Code has been developed to be consistent with other sections of the Mesa City Code, to make enforcement more consistent at the inspector level, and to ensure compliance with MS4 Permit requirements. The City developed Basic Case Enforcement Process Work Instructions to provide a general schedule for obtaining compliance with stormwater violations, as well as other sections of the Mesa City Code. A copy of the Basic Case Enforcement Process Work Instructions is included in [Appendix E](#).

The 2021 MS4 Permit requires the City to develop a mechanism to identify and document facilities subject to the CGP that do not file a timely NOI. City of Mesa staff

are currently tasked with inspecting all construction projects in the City for all environmental ordinances including stormwater and dust control. The threshold for scheduling environmental construction inspections is when a site is required to obtain a Maricopa County Air Quality Department dust control permit when a project's disturbance area is greater than 1/10 of an acre (4,356 square feet). City inspectors are trained to evaluate project disturbance areas during inspection activities and any projects found to have not filed an NOI will be treated as a non-filer. Non-filers will be reported to ADEQ within 5 business days if they do not voluntarily come into compliance within that time. Proof of CGP coverage, waivers, or No Discharge Certificates shall be considered sufficient evidence of complying with this section.

Although it is extremely rare, certain CGP eligible projects aren't subject to the DSD permitting process (i.e., parking lot grading, disced weed abatement, etc.) and are not included on the City's construction project inventory. In these cases, City staff are trained to identify these projects in the field or through the citizen complaint process. Additionally, City staff periodically review Maricopa County Air Quality dust control permit databases to confirm that dust permitted projects have been through the DSD permitting process.

## **8 POST-CONSTRUCTION**

Post-construction stormwater management in areas undergoing new development or redevelopment provides opportunities for stormwater quantity and quality improvements by minimizing impacts to stormwater through thoughtful stormwater control design, construction, and maintenance. Stormwater quantity can be addressed by examining the impacts of runoff flows through areas altered or made impermeable by development. As runoff quantity increases over these impermeable surfaces, stormwater quality can be affected as the waters pick up pollutants that are more prevalent in developed areas. The 2021 MS4 Permit addresses these issues and requires the City to thoroughly manage post-construction stormwater controls associated with private and public development or redevelopment.

### **8.1 POST-CONSTRUCTION CONTROLS**

The City of Mesa authorizes private development and redevelopment through the Development Services Department (DSD) permitting process. The City of Mesa periodically updates a set of design standards to which all proposed developments projects must meet in order to be permitted. Chapter 8 of the City's Engineering and Design Standards manual details the City's stormwater drainage and retention requirements and all permitted projects approved by the City must meet these standards. The 2021 MS4 Permit requires the City to implement a program to control stormwater discharges to the City's MS4 and that this program shall apply to all public and private development permit applications.

#### **8.1.1 Design Requirements**

The 2021 MS4 Permit requires the City to ensure that all applications for new development or redevelopment which are one acre or greater and discharge to the MS4 design adequate BMPs to ensure the reduction of stormwater pollution to the maximum extent practicable. This requirement is further simplified by stating that adequate post-construction BMPs are presumptively met if the development is designed, built, and maintained in accordance with the 2019 City of Mesa Engineering and Design Standards manual. It is the position of the City of Mesa that since all development and redevelopment projects are required to be permitted through the DSD process, and since all permitted projects are reviewed to be in accordance with the Engineering and

Design Standards manual, that this requirement is adequately met for each project approved by the City.

### **8.1.2 Design Strategies and Control Measures**

The ultimate goal of post-construction design strategies and control measures is to maintain the natural pre-development hydrology of the developed area. To achieve this goal, the City Code of Ordinances and Engineering and Design Standards have been developed to curtail flooding and introduction of pollutants to the City's managed stormwater. In fact, Chapter 33, Title 11 of the City's Code of Ordinances requires that all new development and redevelopment be designed so that all stormwater within certain parameters is retained on site. The main design strategy required by the City includes the implementation of on-site retention which aims to prevent off-site stormwater flows, thus reducing impact to the quantity and quality of flows to the City's MS4.

A subset of on-site stormwater retention includes Low Impact Development (LID) techniques which aim to mimic natural hydrologic processes and result in increased infiltration of stormwater. LID techniques include such practices as rain gardens, bio-swales, curb extensions, and permeable pavement. None of the LID techniques are specifically addressed in the City's Engineering and Design Standards, yet all are approvable when designed to meet and address other on-site retention standard requirements such as addressing retention volume in relation to the 100-year, 2-hour duration storm event.

## **8.2 COMPLIANCE ACTIVITIES AND ENFORCEMENT**

The 2021 MS4 Permit requires the City to develop and implement an inventory, inspection, maintenance and tracking program to evaluate the effectiveness of installed post-construction stormwater BMPs. Additionally, the City is required to inspect at least 90% of all sites that discharge to the MS4 within one year after construction final stabilization to determine the adequacy of their post-construction stormwater controls. It should be noted that the 2021 MS4 Permit defines the compliance of post-construction controls is met if the site meets 80% achievement of the BMP's design standard for detention, retention, or treatment. Non-compliance with post-construction stormwater BMPs are required to be addressed through assigned maintenance responsibility, or

through other enforceable means such as ordinances, policies, maintenance agreements, or easements.

### **8.2.1 Methods of Compliance**

As stated in Section 8.1.1, 100% of all permitted projects in the City are reviewed to ensure that stormwater retention requirements are met. Upon permit approval, all qualifying projects are referred to the Environmental Management and Sustainability Division to meet the construction inspection requirements found in Section 7 of this SWMP document. Concurrently, DSD assigns a building inspector to each project to ensure that the development at the site is in compliance with the permitted activities and other building code requirements. Upon completion of every project, each site will receive a final inspection from by the ESD (certifying final stabilization) and DSD (approval for certificate of completion or occupancy) inspectors. It is the City of Mesa's position that 100% of all projects will be inspected by both inspectors within the required one-year deadline, and that when signed off by both inspectors, the achievement of 80% BMP design standard is presumptively met. Should detention, retention, or treatment not perform as designed, the City has adequate authority under its Code of Ordinances to coerce compliance as needed.

For private construction projects, the City requires a third-party inspection of construction projects where post-construction stormwater management (i.e. on-site retention) infrastructure is required as provided in the City's Engineering and Design Standards Manual. City staff ensures such documentation has been received prior to issuing final approval (generally the issuance of a Certificate of Occupancy). These inspections must be received within one (1) year after construction has been completed.

### **8.3 STORMWATER RETROFIT ASSESSMENT**

The 2021 MS4 Permit requires the City to undertake a multi-stepped process to identify and develop a feasibility assessment for addressing areas contributing to exceedances of SWQSs. The first step in this process is to evaluate and document three areas which contribute to SWQS exceedances. These areas can be areas draining to existing wet weather monitoring locations or be areas which represent similar residential, commercial, and industrial land uses. The City is required to submit these three areas to ADEQ within one year of the MS4 permit's effective date (July 1, 2022).



Upon review and approval by ADEQ, the City is required to develop a feasibility assessment to retrofit existing developed sites within each area that are impacting discharges to Arizona Protected Surface Waters. The retrofit feasibility assessment is required to develop an inventory of potential locations within each area and consider the following:

- Locations contributing to MS4 discharges at concentrations higher than SWQS
- Locations that contribute pollutants to an impaired or not-attaining waterbody, or Outstanding Arizona Waters, and
- Locations with significant erosion contributing pollutants to Arizona Protected Surface Waters

Additionally, the feasibility assessment must include a ranking of inventoried locations to assist in prioritizing potential retrofitting which includes an evaluation of stormwater pollutant control measures, feasibility, cost-effectiveness, impervious area potentially treated, maintenance requirements, landowner cooperation, and expected improvements to water quality.

### **8.3.1 Year One Stormwater Retrofit**

In the first year of the permit term, the City has initiated discussions amongst the ESD, Transportation, and Engineering departments to begin identifying areas which meet the requirement of contributing to SWQS exceedances and areas where infrastructure upgrades can contribute to stormwater co-benefits such as flood control. For areas that are not draining wet weather monitoring locations, the City will include supporting documentation which ties specific laboratory analysis at wet weather monitoring locations to SWQS exceedances at the selected areas based on land uses types. Additional supporting documentation will include a narrative detailing the hydrologic settings, land use types, existing infrastructure, and a description of existing drainage or retention problems at each selected area.

### **8.3.2 Year Three Feasibility Assessment**

Upon approval by ADEQ of the three initial proposed areas, the City will commence the feasibility assessment activities described above. The City intends to engage the various City departments, consultants (as necessary), and public stakeholders during

the feasibility assessment phase. As this phase of the retrofit assessment proceeds, this section of the SWMP will be updated annually.

#### **8.4 EMPLOYEE TRAINING**

The 2021 MS4 Permit requires the City to provide training to employees with direct post-construction stormwater responsibilities at least one (1) time per year for all new staff and refresher training once every two (2) years. For employees with post-construction stormwater responsibilities, the permit breaks down the training requirements into two categories based on the employees' job functions as described below:

- Site Plan Review Staff with Stormwater Responsibilities:
  - Grading and drainage design standards;
  - Municipal ordinances related to stormwater and post-construction;
  - Requirements for structural and non-structural management practices in new development and redevelopment; and
  - Post-construction stormwater controls
- Inspection Staff with Stormwater Responsibilities
  - Municipal ordinances related to stormwater and post-construction;
  - Requirements for structural stormwater control practices in new development and redevelopment;
  - Maintenance responsibilities through agreements and policies;
  - Inspection procedures; and
  - Enforcement procedures

## **APPENDIX A**

### **TITLE 8, CHAPTER 5 OF MESA CITY CODE**

## CHAPTER 5

### STORM WATER POLLUTION CONTROL (5062, 5144)

#### SECTION:

- 8-5-1: DEFINITIONS
- 8-5-2: RELEASES AND CONNECTIONS (5062)
- 8-5-3: REDUCTION OF POLLUTANTS IN STORM WATER (5144)
- 8-5-4: AUTHORITY TO INSPECT (5062)
- 8-5-5: COMMENCEMENT OF AN ACTION (5062)
- 8-5-6: REMEDIES NOT EXCLUSIVE (5062)
- 8-5-7: DEFENDANTS AND RESPONSIBLE PARTIES (5062)
- 8-5-8: CIVIL VIOLATIONS AND CITATION (5062)
- 8-5-9: CIVIL PENALTIES (5062)
- 8-5-10: (RESERVED)
- 8-5-11: HABITUAL OFFENDER (5062)
- 8-5-12: FAILURE TO PROVIDE EVIDENCE OF IDENTITY (5062)
- 8-5-13: ABATEMENT (5062)
- 8-5-14: REQUEST FOR ABATEMENT HEARING (5062)
- 8-5-15: RECORDING AN ABATEMENT VIOLATION (5062)
- 8-5-16: EMERGENCY ABATEMENT (5062)
- 8-5-17: SUSPENSION OF CONSTRUCTION PERMIT OR LICENSE (5062)

#### 8-5-1: DEFINITIONS:

The following terms as used in this Chapter shall mean: (2774, 5062/Reso. 6528)

**A.A.C. (ARIZONA ADMINISTRATIVE CODE):** Official compilation of rules that govern state agencies, boards and commissions. (5062)

**A.R.S. (ARIZONA REVISED STATUTES):** Statutory laws in the State of Arizona. (5062)

**AZPDES STORM WATER PERMIT:** A permit issued by any agency of the State of Arizona having appropriate authority over the Arizona Pollutant Discharge Elimination System which authorizes the discharge of storm water pursuant to the C.W.A. (5062)

**BEST MANAGEMENT PRACTICES:** Schedules of activities, prohibitions of practices, structural and nonstructural controls, operational and maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States to the maximum extent practicable. (5062)

**CITY:** City of Mesa, Arizona. (2774/Reso. 6528)

**CITY MANAGER:** The City Manager appointed in accordance with Article III of the Mesa City Charter. (2774, 5062/Reso. 6528)

**CITY STORM SEWER SYSTEM:** Those facilities not part of a publicly owned treatment works within the City by which storm water may be conveyed to waters of the United States, including all roads, streets, catch basins, curbs, gutters, ditches, channels, storm drains, retention or detention basins, and drywells that are owned and operated by the City. (2774, 5062/Reso. 6528)

**CIVIL HEARING OFFICER:** The Mesa Zoning Administrator within the Development and Sustainability Department or such other person as designated by the City Manager. (5062)

**C.F.R. (CODE OF FEDERAL REGULATIONS):** Codification of the general and permanent rules and regulations published in the Federal Register by the executive departments and agencies of the federal government of the United States. (2774, 5062/Reso. 6528)

**C.W.A. (CLEAN WATER ACT):** The Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500; 86 STAT. 816; 33 United States Code Sections 1251 through 1376), as amended [A.R.S. § 49-201(6)]. (2774, 5062/Reso. 6528)

**DISCHARGE OF A POLLUTANT:** Any addition of any pollutant or combination of pollutants to waters of the United States from any point source. (5062)

**HAZARD:** A condition that presents a risk to the public health or the environment. (5062)

**IMMINENT HAZARD:** A condition that presents an immediate likelihood for causing harm to the public health or the environment. (5062)

**NOTICE TO ABATE:** A notice issued to a responsible party concerning a violation of this Chapter of the Mesa City Code. (5062)

**NPDES STORM WATER PERMIT:** A permit issued by any agency of the United States having appropriate authority over the National Pollutant Discharge Elimination System which authorizes the discharge of storm water pursuant to the C.W.A. (2774, 5062/Reso. 6528)

**PERSON:** Any 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 [A.R.S. § 49-201(27)]. (2774, 5062/Reso. 6528)

**PROPERTY:** Any building, facility, lot, parcel, real estate, or land or portion of land, whether improved or unimproved, and including adjacent sidewalks and parking strips. (2774, 5062/Reso. 6528)

**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, or vessel or other floating craft from which pollutants are or may be discharged to waters of the United States. Point source does not include return flows from irrigated agriculture. (5062)

**POLLUTANT:** Any 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 and mining, industrial, municipal and agricultural wastes or any other liquid, solid, gaseous or hazardous substances [A.R.S. § 49-201(29)]. (5062)

**POTW (PUBLICLY OWNED TREATMENT WORKS):** A treatment works owned by this state or a municipality of this state as defined in Section 502(4) of the Clean Water Act [A.R.S. § 49-255(5)]. (5062)

**RELEASE:** Any direct or indirect spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, placing, leaching, dumping, or disposing of a pollutant to the City storm sewer system. (2774, 5062/Reso. 6528)

**RESPONSIBLE PARTY:** A person who knows or has reason to know of the existence of any violation of this Chapter on that person's property or property which that person occupies or controls, in whole or in part, including but not limited to an owner, occupant, lessor, lessee, manager, managing agent, licensee or any person who has legal care or control of the property. (5062)

**STORM WATER:** Storm water runoff, snow melt runoff, and surface runoff and drainage [A.A.C R18-9-A901(36)]. (2774, 5062/Reso. 6528)

**WATERS OF THE UNITED STATES:** All waters as defined in 40 C.F.R. 122.2. (5062)

**8-5-2: RELEASES AND CONNECTIONS: (5062)**

- (A) Unless expressly permitted or exempted by this Chapter, no person shall release, directly or indirectly, to the City storm sewer system. (2774, 5062/Reso. 6528)
- (B) The release of pollutants to the City storm sewer system authorized by any AZPDES or NPDES Storm Water Permit or other AZPDES or NPDES permit which is issued to the person who causes the release is permitted under this Chapter. (2774, 5062/Reso. 6528)
- (C) Unless identified by the City Manager or designee under Subsection (D) of this Section, the following are exempt from the prohibition set forth in Subsection (A) of this Section: (2774, 5062/Reso. 6528)
  - 1. Releases composed entirely of storm water. (2774, 5062/Reso. 6528)
  - 2. Releases caused by a person from any of the following activities: (2774, 5062/Reso. 6528)
    - (a) Water line flushing and other potable water sources; (2774, 5062/Reso. 6528)
    - (b) Lawn watering and landscape irrigation; (2774, 5062/Reso. 6528)
    - (c) Irrigation water; (2774/Reso. 6528)
    - (d) Diverted stream flows; (2774, 5062/Reso. 6528)

- (e) Rising groundwaters; (2774, 5062/Reso. 6528)
  - (f) Uncontaminated groundwater infiltration to separate storm sewers; (2774, 5062/Reso. 6528)
  - (g) Uncontaminated pumped groundwater; (2774, 5062/Reso. 6528)
  - (h) Foundation and footing drains; (2774/Reso. 6528)
  - (i) Water from crawl space pumps; (2774/Reso. 6528)
  - (j) Air conditioning condensation; (2774, 5062/Reso. 6528)
  - (k) Springs; (2774, 5062/Reso. 6528)
  - (l) Individual residential car washing; (2774/Reso. 6528)
  - (m) Flows from riparian habitats and wetlands; (2774, 5062/Reso. 6528)
  - (n) Flows resulting from fire fighting activities; or (2774, 5062/Reso. 6528)
  - (o) Street wash water; (5062)
- (D) No person shall cause a release, directly or indirectly, to the City storm sewer system which is exempted under Subsection (C) of this Section if the City Manager or designee identifies and provides written notice to the person that the release from such person has the potential to result in a discharge of pollutants to waters of the United States. (2774, 5062/Reso. 6528)
- (E) No person shall release any pollutant, directly or indirectly, to the City storm sewer system where such release would result in or contribute to a violation of any AZPDES or NPDES Storm Water Permit issued to the City, either separately considered or when combined with other releases. Liability for any such release shall be the responsibility of the person causing or responsible for the release, and the person shall defend, indemnify, and hold harmless the City in all administrative or judicial enforcement actions relating to such release. (2774, 5062/Reso. 6528)
- (F) No person shall establish, use, maintain, or continue any direct or indirect connection to the City's storm sewer system which has the potential to result in a violation of this Section. This prohibition is retroactive and shall apply to connections made in the past, regardless of whether they were made under a permit or other authorization or whether they were permissible under the law or practices applicable or prevailing at the time of the connection. (2774/Reso. 6528)

**8-5-3: REDUCTION OF POLLUTANTS IN STORM WATER:**

- (A) All persons owning or operating facilities or engaged in activities which will or may reasonably be expected to result in the release of pollutants to the City storm sewer system, either directly or indirectly, shall undertake appropriate best management practices to minimize the release of such pollutants to the maximum extent practicable. (2774, 5062, 5144/Reso. 6528)
- (B) No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left, maintained, or kept, except in appropriate containers or in lawfully established dumping grounds, any refuse, rubbish, garbage, or other discarded or abandoned objects, articles, and accumulations into or upon any component of the City storm sewer system or upon any public property. Additionally, no person shall do the same upon any private property in such a manner that could reasonably result in the release of pollutants to the City storm sewer system. (2774, 5062/Reso. 6528)
- (C) Persons owning or operating a parking lot, storage or loading area, or similar property which is exposed to rainfall shall maintain those properties in a manner so that any release from such properties does not cause or contribute to a violation of Section 8-5-2. (2774, 5062/Reso. 6528)
- (D) Any person performing construction activities shall undertake appropriate best management practices to minimize the release of pollutants and sediment to the maximum extent practicable. Such best management practices shall include the requirements imposed by both of the following: (2774, 5062/Reso. 6528)
1. This Chapter; and (2774, 5062/Reso. 6528)
  2. For construction operations at City projects or occurring in the City of Mesa public right-of-way that are required to comply with and AZPDES or NPDES Storm Water Permit, that certain document known as the Drainage Design Manual for Maricopa County, Erosion Control dated November 28, 2012, a public record of the City of Mesa together with the following appendices thereto: (2774, 5062, 5144/Reso. 6528)

Appendix A Construction General Permit (5144)

Appendix B Forms (5144)

Appendix C Links and References (5144)

Appendix D Glossary (5144)

Appendix E Bibliography (5144)

Are hereby referred to, adopted, and made a part hereof as if fully set forth in this Section, with the following changes in and amendments to said document: (5144)

- (a) Section 5 Best Management Practices; EC-2: Mulching  
Emulsified asphalt is not permitted as a mulching option on City properties or for City projects. (5144)



- (b) Section 5 Best Management Practices; EC-3 Protection of Trees and Vegetation in Construction Areas  
Where plans provide for the preservation of trees and other vegetation, these areas shall be delineated (i.e. staked, flagged, or fenced) to prevent damage from construction equipment and other forms of access. (5144)
- (c) Section 5 Best Management Practices; EC-5 Stabilized Construction Entrance  
Course aggregate pad dimensions must be a minimum of thirty feet in width, three inches in depth, and fifty feet in length or the length of the longest haul truck, whichever is greater. Instead of a course aggregate pad, construction site entrance stabilization may also include a paved surface one hundred feet in length and twenty feet in width or a grizzly or rumble grate consisting of raised dividers a minimum of three inches tall, six inches apart, and twenty feet in length. (5144)
- (d) Section 5 Best Management Practices; SPC-2 Sand Bag Barrier  
Sand bags may not be used for the purposes of inlet protection. Where sand bags are used for other purposes, they shall be delineated (i.e. staked and flagged) to keep construction equipment from damaging these structures. Sand bags must be inspected on at least a weekly basis to ensure they have not ruptured and the sand has become a stormwater pollutant. (5144)
- (e) Section 5 Best Management Practices; SPC-5 Silt Fence  
For projects greater than five acres requirements regarding perimeter control of the construction activity as provided in any applicable stormwater permit shall be met through the use of silt fences excepting those areas of high flow, construction site entrances, areas where perimeter control are impracticable (i.e. projects in the public right-of way); and areas where all stormwater flows are directed to an on-site temporary sediment basin or sediment trap. (5144)
- (f) Section 5 Best Management Practices; SPC-6 Re-Vegetation  
Where plans provide for re-vegetation, installation of such vegetation shall take place as soon as practicable and these areas shall be delineated (i.e. staked, flagged, or fenced) to prevent damage from construction equipment and other forms of access. (5144)
- (g) Section 5 Best Management Practices; SPC-7 Storm Drain Inlet Protection  
To prevent flooding issues, storm drain inlet protection should only be used when sufficient construction site perimeter control is not possible (e.g. utility installations in public roadways or other public right-of-way areas). City of Mesa personnel may remove any storm drain inlet protection device where flood conditions may exist. It is the responsibility of the operator in charge of day-to-day operations to replace or re-install these devices after the threat of flooding has subsided. (5144)

Course gravel and cinder block configurations and sand bags are not to be used to protect storm drains. When installing any storm drain inlet protection that is installed above grade traffic control devices must be placed at the end of both sides of the installation to prevent damage from public and construction traffic, all traffic control devices must be installed in accordance with temporary traffic control requirements as provided in Title 10, Chapter 10 of the Mesa City Code. (5144)

- (E) Persons having the potential to cause a release of pollutants to the City storm sewer system and who are required to submit a notice of intent to comply with an AZPDES or NPDES Storm Water Permit shall provide a copy of any approval or statement of authorization from the permitting agency to the City Manager or designee. Where a waiver is available, a copy of that waiver must then be provided in lieu of the approval or statement of authorization. The City will not issue a construction permit nor will verbal authorization be given to proceed with initial grading and drainage operations until the approval or statement of authorization from the permitting agency has been submitted to the City. (2774, 5062, 5144/Reso. 6528)

**8-5-4: AUTHORITY TO INSPECT: (5062)**

- (A) The Mesa Development and Sustainability Department or such other City division or department as the City Manager may designate is hereby authorized to make inspections for violations of this Chapter in the normal course of job duties or in response to a citizen complaint that an alleged violation of the provisions of this Chapter may exist or when there is a reason to believe that a violation of this Chapter has been or is being committed. (5062)
- (B) In order to determine compliance with this Chapter, private property may be entered with the consent of the owner or occupant or as authorized by a court of competent jurisdiction. (5062)

**8-5-5: COMMENCEMENT OF AN ACTION: (5062)**

- (A) The City Manager or designee is authorized to commence and enforcement action under this Chapter by issuing a notice of abatement under this Chapter or a citation for civil sanctions under this Chapter, or both. They may also seek the issuance of a compliant by the Mesa City Prosecutor for criminal prosecution of habitual offenders as defined in this Chapter. (5062)
- (B) Nothing in this Section shall preclude City employees from seeking voluntary compliance with the provisions of this Chapter or from enforcing this Chapter through notices of violation, warnings, or other informal devices designed to achieve compliance in the most efficient and effective manner under the circumstances. (5062)

**8-5-6: REMEDIES NOT EXCLUSIVE: (5062)**

Violations of this Chapter are in addition to any other violation established by law, and this Chapter shall not be interpreted as limiting the penalties, actions or abatement procedures which may be taken by the City or other persons under other laws, ordinances, or rules. (5062)

**8-5-7: DEFENDANTS AND RESPONSIBLE PARTIES: (5062)**

Any responsible party who causes, permits, facilitates, aids, or abets any violation of this Chapter or who fails to perform any act or duty required pursuant to this Chapter, is subject to the enforcement provisions of this Chapter. Responsible parties may be individually and jointly responsible for the violations, the prescribed civil or criminal sanctions, for abatement of the violation and for any associated costs and fees. (5062)

**8-5-8: CIVIL VIOLATIONS AND CITATION: (5062)**

- (A) A civil action for violations of this Chapter may be commenced by issuance of a citation. (5062)
- (B) The citation will be substantially in the form established by the City Manager or designee. The citation shall advise the responsible party of the violation(s) committed, either by written description of the violations or by designation of the City Code section that was violated. The citation shall direct the responsible party to pay the civil sanction and all applicable fees in accordance with Section 8-5-9 of this Chapter within the time period specified on the citation or to appear before the Civil Hearing Officer within the time period specified on the citation and admit or deny the allegations contained in the citation. The Civil Hearing Officer may permit amendments to the citation if substantial rights of the responsible party are not thereby prejudiced. The citation shall be served pursuant to the Arizona Rules of Civil Procedure. (5062)

- (C) The responsible party shall, within the time period specified on the citation or within 10 calendar days of the issuance of the citation, whichever is greater, either pay the civil sanction and the fees, or appear in person, through an attorney or by e-mail with the clerk of the Civil Hearing Officer and admit or deny the allegations contained in the citation. (5062)
1. If the responsible party timely pays the civil sanction and the fees, either in person or by mailing payment to the City, the allegations in the citation shall be deemed admitted and such person shall be deemed responsible for having committed the offense(s) described in the citation. If the responsible party appears in person, through an attorney or by e-mail and admits the allegations, the Civil Hearing Officer shall enter judgment against the responsible party in the amount of the civil sanction, plus any applicable fees designated in Section 8-5-9; or, (5062)
  2. If the responsible party appears in person, through an attorney or by e-mail and denies the allegations contained in the citation, the clerk of the Civil Hearing Office shall set the matter for hearing. (5062)
- (D) If a person served with a citation fails to pay the civil sanction and the fees or to file on or before the time directed on the citation or at the time set for hearing by the Civil Hearing Officer, the allegations in the complaint shall be deemed admitted, and the Civil Hearing Officer shall enter a finding of responsible and a judgment for the City and impose the appropriate sanctions and fees. (5062)
- (E) All proceedings before the Civil Hearing Officer shall be informal and without a jury, except that testimony shall be given under oath or affirmation. The technical rules of evidence do not apply, except for statutory provisions relating to privileged communications. If the allegations in the citation are denied, the City is required to prove violations of this Chapter by a preponderance of the evidence. No prehearing discovery shall be permitted, except under extraordinary circumstances as determined by the Civil Hearing Officer. The Civil Hearing Officer is authorized to make such orders as may be necessary or appropriate to fairly and efficiently determine the truth and decide the case at hand. An appeal from final judgments of the Civil Hearing Officer may be taken pursuant to the Arizona rules of civil procedure for special actions. (5062)
- (F) Any person aggrieved by a decision of the Civil Hearing Officer, at any time within 30 calendar days after a final judgment has been rendered, may file a complaint of special action in Superior Court to review the Civil Hearing Officer's decision. Filing the complaint does not stay proceedings on the decision sought to be reviewed, but the court may, on application, grant a stay and on final hearing, affirm or reverse, in whole or in part, or modify the decision reviewed. (5062)

**8-5-9: CIVIL PENALTIES: (5062)**

- (A) Any responsible party who is found responsible for a civil violation of this Chapter, whether by admission, default, or after a hearing, shall pay a civil sanction of not less than \$150 or more than \$1,500. A second finding of responsibility within 36 months of the commission of a prior violation of this Chapter shall result in an enhanced civil sanction of not less than \$250 or more than \$2,500. A third finding of responsibility within 36 months of the commission of a prior violation of this Chapter shall result in an enhanced civil sanction of not less than \$500 or more than \$2,500. In addition to the civil sanction, the responsible party shall pay the applicable fees and charges set forth in the City's Development and Sustainability Department (Code Compliance) Schedule of Fees and Charges, and may be ordered to pay any other applicable fees and charges. (5062)

(B) After entering a judgment of responsible and setting a civil sanction and fees as specified in Section 8-5-9(A), the Civil Hearing Officer may order a compliance hearing and set a date for such hearing. Upon presentation of evidence and/or testimony by the City inspector at the compliance hearing that the violation(s) specified in the complaint has been abated, the Civil Hearing Officer may reduce all or a portion of the civil sanction commensurate with the cost borne by the defendant to achieve compliance, or the Civil Hearing Officer may vacate the previous judgment and dismiss the citation(s). If, a minimum of 7 calendar days before a scheduled compliance hearing, the Civil Hearing Officer receives both of the following items, then the Civil Hearing Officer may issue written orders commensurate with the authority given in this Section, to reduce civil sanctions and/or vacate the related judgment without holding the scheduled compliance hearing: (5062)

1. Written and notarized confirmation from the City inspector that the violation has been successfully abated, and (5062)
2. A written and notarized statement from the defendant describing the actions taken and the itemized costs borne to abate the violation. (5062)

If either item has not been received by the Civil Hearing Officer 7 calendar days before, then the compliance hearing shall take place as previously scheduled. (5062)

- (C) The 36 month provision of paragraph (A) of this Section shall be calculated by the dates the violations were committed. The responsible party shall receive the enhanced sanction upon a finding of responsibility for any violation of this Chapter that was committed within 36 months of the commission of another violation for which the responsible party was convicted or was otherwise found responsible, irrespective of the order in which the violations occurred or whether the prior violation was civil or criminal. (5062)
- (D) Each day in which a violation of this Chapter continues or the failure to perform any act or duty required by this Chapter or by the Civil Hearing Officer continues shall constitute a separate civil offense. (5062)

**8-5-10: (RESERVED)**

**8-5-11: HABITUAL OFFENDER: (5062)**

- (A) A person who commits a violation of this Chapter after previously having been found responsible for committing civil violations of this Chapter on 3 separate dates and within a 36 month period, whether by admission, by payment of the fine, by default, or by judgment after hearing, shall be guilty of a Class 1 criminal misdemeanor. The Mesa City Prosecutor is authorized to file a Class 1 criminal misdemeanor complaint in the Mesa City Court against habitual offenders. For purposes of calculating the 36 month period under this paragraph, the dates of the commission of the offenses are the determining factor. (5062)
- (B) Upon conviction of a violation of this Section, the court may impose a sentence authorized by the laws of the State of Arizona for a Class 1 misdemeanor, including incarceration not to exceed 6 months in jail or a fine not to exceed \$2,500, exclusive of penalty assessments prescribed by law, or both. The court shall order a person who has been convicted of a violation of this Section to pay a fine of not less than \$500 for each count upon which a conviction has been obtained and be placed on probation for up to 36 months. The court may reduce such fines to \$250 for each count upon which a conviction has been obtained provided all violations have been abated and the site is in compliance with all sections of this Chapter within 90 days of sentencing. (5062)
- (C) Every action or proceeding under this Section shall be commenced and prosecuted in accordance with the laws of the State of Arizona relating to criminal misdemeanors and the Arizona Rules of Criminal Procedure. (5062)

**8-5-12: FAILURE TO PROVIDE EVIDENCE OF IDENTITY: (5062)**

A person who fails or refuses to provide evidence of his identity to a duly authorized agent of the City upon request, when such agent has reasonable cause to believe the person has committed a violation of this Chapter, is guilty of a misdemeanor. Evidence of identity under this Section shall consist of a person's full name, residence address, and date of birth. (5062)

**8-5-13: ABATEMENT: (5062)**

- (A) In addition to or in lieu of filing a civil citation or criminal complaint, the City may serve a notice to abate any violation of this Chapter. (5062)
- (B) The notice to abate shall set forth the following information: (5062)
1. The responsible party has 30 calendar days from service of the notice to abate or correct the violation. (5062)
  2. Identification of the property in violation by street address, if known, and if unknown, then by legal description of the property or by Maricopa County book, map, and parcel number. (5062)
  3. Statement of the violation in sufficient detail to allow a reasonable person to identify and correct the violation(s). (5062)
  4. Reinspection date and time. (5062)
  5. Name, business address, and business phone number of the City inspector who issued the notice to abate. (5062)
  6. A warning stating that if the violations are not corrected within the 30 calendar day period, the City may abate the problem itself or by private contractor, assess the responsible party for the cost of such abatement, and record a lien on the property for the assessment. (5062)
  7. Hearing procedures. (5062)
  8. Statement indicating that the 30 calendar day notice set forth in this Section shall not apply to emergency abatements pursuant to this Chapter. (5062)
- (C) If the responsible party or other person served a notice to abate by the City pursuant to this Chapter fails to comply with such notice; the City may correct or abate the conditions subject to the notice if those conditions constitute a hazard. If the City corrects or abates those conditions, the City Manager or designee may prepare a verified statement as to the actual cost of correcting or abating the violation, including costs of inspection and other City-incurred costs associated with abating the violation. The statement shall be served pursuant to the Arizona Rules of Civil Procedure. That statement shall further set forth the following: (5062)
1. That the statement of costs is an assessment upon the lots and tracts of land from which the City corrected or abated the violation. (5062)
  2. That the party has 15 calendar days from the date of delivery or mailing of the statement to pay. (5062)
  3. In the event payment is not received in 15 calendar days, the City will place a lien on the property in the amount of the assessment. (5062)
  4. Appeal procedures. (5062)

- (D) The notice to abate and the statement of abatement costs shall be served to the responsible party pursuant to the Arizona Rules of Civil Procedure. (5062)

**8-5-14: REQUEST FOR ABATEMENT HEARING: (5062)**

The responsible party receiving a notice to abate under this Chapter or a statement of costs incurred by the City in abating a hazard may appeal by requesting in writing a hearing and by serving such a request to the Development and Sustainability Department within 15 calendar days of service of the notice to abate or the statement of costs. The hearing shall be held before the Civil Hearing Officer as soon as practicable after the filing of the request. An appeal from final judgments of the Civil Hearing Officer may be taken pursuant to the Arizona Rules of Civil Procedure for special actions. If no written and timely request for hearing is made under this Section to the Development and Sustainability Department, then the notice of abatement or statement of costs is final and binding. (5062)

**8-5-15: RECORDING AN ABATEMENT VIOLATION: (5062)**

The notice to abate and statement of costs shall run with the land. The City, at its sole option, may record a notice to abate or statement of costs with the Maricopa County Recorder and thereby cause compliance by a person thereafter acquiring such property. When the property is brought into compliance, a satisfaction of notice to abate shall be filed with the Maricopa County Recorder. (5062)

**8-5-16: EMERGENCY ABATEMENT: (5062)**

- (A) If a situation presents an imminent hazard to life or public safety, the City may issue a notice to abate directing the responsible party to immediately take such action as is appropriate to correct or abate the emergency described in the notice. In addition, the City may act immediately to correct or abate the emergency itself or may commence an action in Superior Court to enjoin the responsible party to abate the imminent hazard. In the event the City is unable to contact the responsible party despite reasonable efforts to do so, it in no way affects the City's right under this Section to correct or abate the emergency itself. (5062)
- (B) The City may recover its costs incurred in abating an imminent hazard under this Section in the same manner as provided for in Section 8-5-13(C). The responsible party may appeal the City's emergency abatement action under this Section or the City's statement of costs for an emergency abatement in the same manner as provided for in Section 8-5-14. (5062)

**8-5-17: SUSPENSION OF CONSTRUCTION PERMIT OR LICENSE: (5062)**

Any construction permit or license issued by the City which authorizes work resulting in an alleged violation of Section 8-5-2 or Section 8-5-3 of this Chapter may be suspended pending abatement of said violation or final resolution of a civil hearing of the matter. (5062)

## **APPENDIX B**

### **DRAINAGE AREA MAP**

## Outfall & Field Screening Points

 Outfalls/FSPs

 Area 1

 Area 2

 Area 3

 Area 4

 Area 5

 Area 6

 Area 7


 Area 8

 Area 9

 Area 10

 Area 11

 Area 12

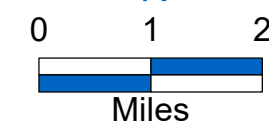
 Area 13

 Area 14

 Streets

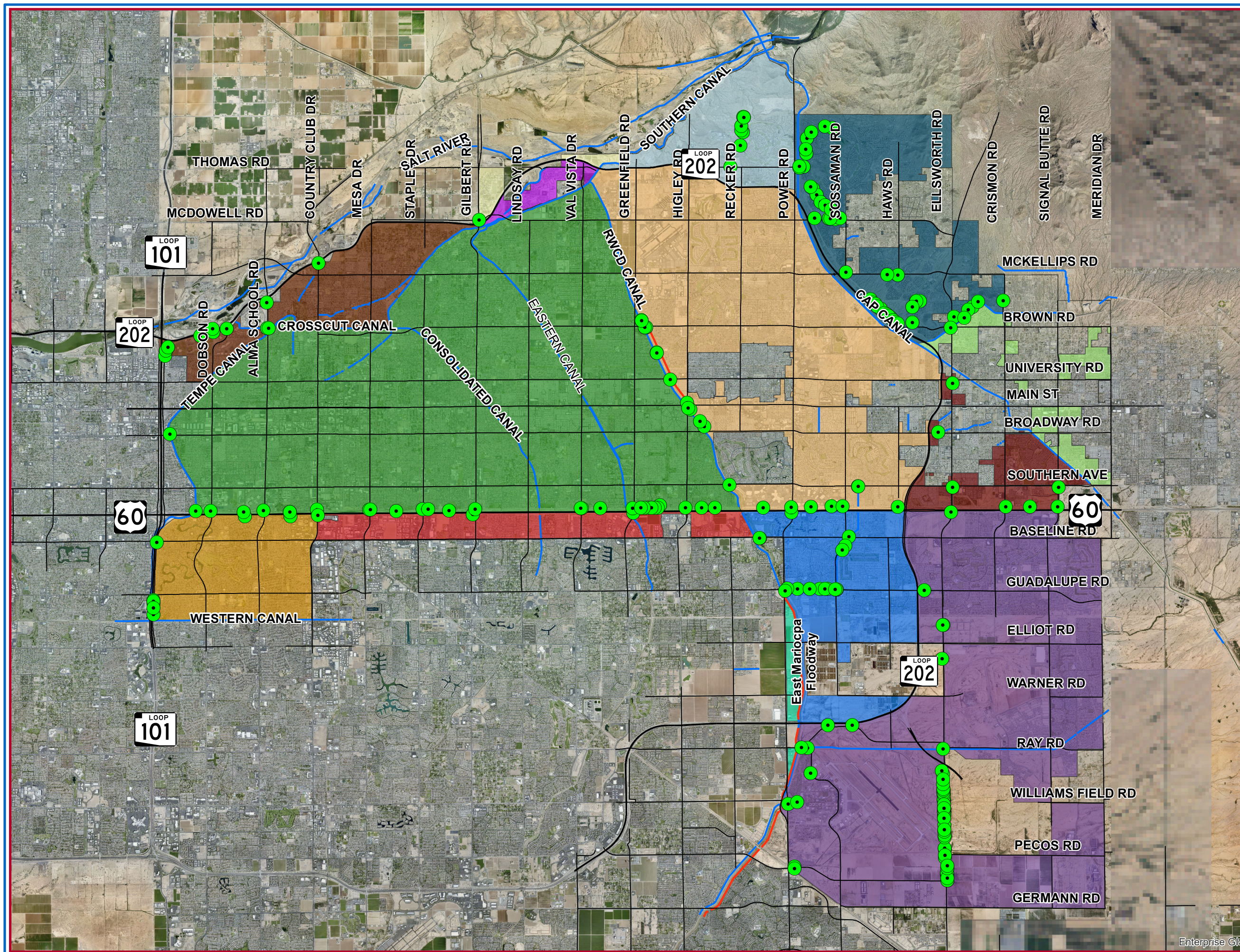
 Canals

 Floodway



Created By: Mesa - GIS  
Print Date: 10/12/2017  
Source: City of Mesa

The City of Mesa makes no claims concerning the accuracy of this map nor assumes any liability resulting from the use of the information herein.





## **APPENDIX C**

# **OUTFALL & FIELD SCREENING POINT INFORMATION**

**Mesa Dry-Weather Stormwater Monitoring Locations - Active Locations**

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
101	SWFT526	SWMH1800	Gilbert & McDowell	1957	E	McDowell	Rd	36	Streets	ADOT	LOOP 202 ADOT Channel (north)	ADOT	Salt	-111.787126	33.466553	
201	SWFT2325	SWFT2325	Recker & Viewmont	5926	E	Viewmont	Circle	15	Residential	COM	Salt	SRP-MIC	Salt	-111.700670	33.494661	
202	SWFT2324	SWFT2324	Recker & Viewmont	5926	E	Viewmont	Circle	15	Residential	COM	Salt	SRP-MIC	Salt	-111.700493	33.494605	
203	SWFT2326	SWFT2326	Recker & Viewmont	5926	E	Viewmont	Circle	15	Residential	COM	Salt	SRP-MIC	Salt	-111.700421	33.494536	
204	SWFT2322	SWMH6521	Recker & Tinto	4216	N	Ranier	NA	12	Residential	COM	Salt	SRP-MIC	Salt	-111.701233	33.492179	
205	SWFT2321	SWCB14413	Recker & Trailridge	4162	N	Signal	Cir	15	Residential	COM	Salt	SRP-MIC	Salt	-111.701223	33.490927	
206	SWMH6520	SWMH6520	Recker & Trailridge	4108	E	Trailridge	Street	27	Residential	COM	Salt	SRP-MIC	Salt	-111.700794	33.490411	Field verified. Structure is not a retention basin as provided but a park park.
207	SWFT2313	SWFT2313	Recker & Star Valley	3913	N	Recker	Road	18	Residential	COM	Salt	SRP-MIC	Salt	-111.701548	33.486761	
208	SWHW3778	SWHW3778	Thomas & Recker	5802	E	Thomas	Road	24	Residential	COM	Salt	SRP-MIC	Salt	-111.704837	33.481019	
401	SWMH801	SWMH801	Country Club & 202	2116	N	Country Club	Drive	72	Residential, Commercial, Industrial	COM	Salt	ADOT	Salt	-111.839704	33.454641	SWMH 801 is located on Dobson Road in the far left SB left turn lane under LOOP 202 bridge.
402	SWMH297	SWMH301	Alma School & McLellan	1564	N	Alma School	Road	48	Residential, Commercial	COM	Retention Basin	ADOT	Salt	-111.856557	33.443963	SWMH 297 could not be located at time of evaluation (potentially buried). Use SWMH 301 if target asset cannot be located. SWMH 301 is located on the right SB lane of Alma School at the end of McClellan. Formerly sampled for dry-weather as #12.
403	SWFT146	SWFT146	Alma School & Bass Pro Drive	1161	N	Alma School	Road	30	Residential	COM	Salt	ADOT	Salt	-111.855958	33.436827	
404	SWFT84	SWFT84	Alma School & Bass Pro Drive	1150	N	Alma School	Road	48	Commercial & Residential	MC	Tempe Wasteway	MC	Salt	-111.856521	33.436828	Formerly sampled for dry-weather as outfall 03. Double-barrel.
405	SWMH290	SWMH317	Dobson & 202	1137	N	Dobson	Road	36	Commercial	COM	Retention Basin	ADOT	Salt	-111.869714	33.436813	SWMH 317 is located in the Dobson Road median.
406	SWHW37	SWMH26	Riverview Auto Drive & Dobson Road	2039	W	Riverview Auto	Drive	72	Commercial, Residential	COM	Retention Basin	ADOT	Salt	-111.874303	33.436732	
407	SWCB911	SWMH307	Riverview Auto Drive & Cubs Way	2039	W	Riverview Auto	Drive	48	Commercial, Residential	COM	Retention Basin	ADOT	Salt	-111.874023	33.435817	
408	SWHW5085	SWHW5085	Riverview & Cubs Way	960	N	Riverview	Drive	8	Park	COM	Retention Basin	ADOT	Salt	-111.878344	33.434800	
409	SWFT4277	SWFT4277	Riverview & Cubs Way	2414	W	Rio Salado	Pkwy	NA	Park	COM	Retention Basin	ADOT	Salt	-111.888891	33.431731	Cannel. Crest width 79 ft.; Base width 65 ft.; Depth 3.75 ft.
410	SWHW5076	SWHW5076	Rio Saldo & LOOP 101	2630	W	Rio Salado	Pkwy	8	Park	COM	Channel	ADOT	Salt	-111.889567	33.430714	
411	SWMH11	SWFT1	Rio Saldo & LOOP 101	2630	W	Rio Salado	Pkwy	54	Residential	COM	Channel	ADOT	Salt	-111.889834	33.429314	
501	SWMH78	SWMH78	Broadway & Tempe Canal	2620	W	Broadway	Road	60	Industrial, Commercial	COM	Price Road Drain	COT	Salt	-111.888290	33.407918	Discharges to Tempe but then discharges directly to Price Road Drain.
502	SWHW26	SWHW26	US60 & Tempe Canal	1500	S	Dobson	Road	NA	Residential, Commercial	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.879832	33.386781	Double box culvert (72"x120").
503	SWFT42	SWFT42	Dobson & US60	1500	S	Dobson	Road	24	Commercial	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.874969	33.386823	
504	SWFT5105	SWFT5105	Longmore & US60	1520	S	Longmore	NA	30	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.864121	33.386465	
505	SWDP4901	SWDP4901	Alma School & US 60	1425	S	Alma School	Road	54	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.857719	33.386893	Previously reported as SWHW81 but that is the headwall associated with the bridge over the channel.
506	SWFT195	SWFT195	US 60 & Extension	1515	S	Extension	Road	NA	Residential, Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.849096	33.386484	Drains city retention basin (City owned property, but privately operated). Also has a direct connection to City system upgradient so monitoring location is applicable.
507	SWDP4904	SWDP4904	US 60 & Extension	1515	S	Extension	Road	24	Streets	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.849014	33.386540	
508	SWCB1879	SWMN8009	Country Club & US 60	1510	S	Country Club	Drive	18	Commercial, Industrial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.840263	33.387156	Discharge locations drains city streets at catch basin upgradient of monitoring location.
509	SWFT2741	SWFT2741	US 60 & Mesa Drive	357	E	Holmes	Avenue	24	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.823130	33.387084	Discharge point in under bridge. May need to monitor at SWMH7638.

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
510	SWFT2742	SWFT2742	US 60 & Mesa Drive	1453	S	Mesa	Drive	24	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.822717	33.387086	Discharge point in under bridge. May need to monitor at SWMH7639.
511	SWFT5075	SWFT5075	Horne & US60	1460	S	Horne	NA	18	Streets	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.814331	33.386666	Discharge point is under bridge (Stormwater Junction Object ID 980). May need to monitor at upgradient catch basin.
512	SWFT451	SWFT451	US60 & Stapley	1464	S	Stapley	Drive	18	Commercial	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.805689	33.387162	Discharge point far into bridge under roadway. Recommend monitoring at manhole monitoring location.
513	SWFT4972	SWFT4972	US60 & Stapley	1455	S	Stapley	Drive	30	Commercial & Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.803897	33.387190	Drainage confusing. Appears to drain city retention basin and private commercial property. May drain US60 channel, but unlikely. Monitor for now until resolved.
514	SWFT5076	SWFT5076	US60 & Harris	1530	S	Harris	Drive	18	Streets	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.797029	33.383844	Discharge point is under bridge (Stormwater Junction Object ID 1100). May need to monitor at upgradient catch basin.
515	SWFT505	SWFT505	US 60 & Gilbert	1560	S	Gilbert	Road	18	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.788490	33.387287	Under bridge. May need to monitor upgradient at SWMH1753.
516	SWFT726	SWFT726	US 60 & Val Vista	1440	S	Val Vista	Drive	24	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.754080	33.387427	Asset is under bridge. Should be visible.
517	SWDP4905	SWDP4905	US 60 & Val Vista	1561	S	Val Vista	Drive	18	Commercial & Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.753605	33.387438	Asset ID appears to be the headwall associated with the ADOT culvert under the street, not the specific outfall. This is associated with SWMN13384.
518	SWFT843	SWFT843	US 60 & 39th St	3903	E	Holmes	Avenue	18	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.747601	33.387442	
519	SWFT851	SWFT851	US 60 at Greenfield	1525	S	Greenfield	Road	24	Residential, Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.737024	33.387465	
520	SWFT963	SWFT963	Greenfield to 48th Street	1556	S	Pico	Circle	18	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.734409	33.387474	
521	SWFT962	SWFT962	Greenfield to 48th Street	1558	S	Parkcrest	Circle	12	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.733363	33.387479	
522	SWFT956	SWFT956	Greenfield to 48th Street	1556	S	Quinn	Circle	30	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.732205	33.387485	
523	SWFT961	SWFT961	Greenfield to 48th Street	1550	S	Quail	Circle	12	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.730914	33.387491	
524	SWFT960	SWFT960	Greenfield to 48th Street	1552	S	Reseda	Circle	15	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.729859	33.387498	
525	SWFT959	SWFT959	Greenfield to 48th Street	4758	E	Hopi	Circle	12	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.728786	33.387512	
526	SWMH3311	SWMH3311	US 60 & 48th St	4746	E	Hopi	Circle	18	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.728118	33.388170	
527	SWFT969	SWFT969	US 60 at Higley	1440	S	Higley	Road	24	Residential, Commercial	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.719797	33.387555	
528	SWFT1080	SWFT1080	US 60- Higley to EMF	1520	S	Sunnyvale	Circle	30	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.714559	33.387569	3 of 9.
529	SWFT1084	SWFT1084	US 60- Higley to EMF	1533	S	Somerset	Circle	24	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.710136	33.387576	5 of 9.
601	SWMH234	New 601	Baseline & Price	2667	W	Baseline	Road	24	Commercial	COM	Price Road Drain	ADOT	Salt	-111.892534	33.378256	Monitor at unnamed catch basin west of adjacent development's catch basin (SWCB719). Plate access at unnamed catch basin.

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
602	SWMH6719	SWMH6713	Guadalupe & Price	2860	S	Carriage	Lane	36	Commercial, Residential	COM	Price Road Drain	ADOT	Salt	-111.893660	33.362364	Discharges between MH4256 and MH5872 would be either those entering CB8663 to the east or from privately owned stormwater infrastructure (retention basins) form office complex to north.
603	SWMH6721	SWCB14675	Carriage Lane & Onza	2731	W	Onza	Circle	12	Residential	COM	Price Road Drain	ADOT	Salt	-111.893656	33.361983	
604	SWMH6720	SWCB14674	Carriage Lane & Ocaso	2728	W	Ocaso	Circle	12	Residential	COM	Price Road Drain	ADOT	Salt	-111.893651	33.361392	
605	SWMH6722	SWCB14676	Carriage Lane & Obispo	2732	W	Obispo	Circle	15	Residential	COM	Price Road Drain	ADOT	Salt	-111.893641	33.360260	
606	SWMH6714	SWCB14677	Carriage Lane & Plata	3128	S	Noche De Paz	NA	18	Residential	COM	Price Road Drain	ADOT	Salt	-111.893625	33.358378	
607	SWMH448	SWMH448	US 60 & Longmore	1360	W	Longmore	NA	18	Residential	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.863712	33.385313	Discharges to storm sewer lines under US 60 flows west to ADOT Pump Station 218, and discharges to US 60 ADOT Channel.
608	SWMH677	SWMH677	US 60 & Extension	1515	S	Extension	Road	18	Residential	COM	US 60 ADOT Channel (west)	ADOT	Salt	-111.848845	33.385257	Discharges to storm sewer lines under US 60 flows west to ADOT Pump Station 17, and discharges to US 60 ADOT Channel.
609	SWCB3076	See Notes	US 60 & Country Club	1655	S	Country Club	Drive	18	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.839937	33.385644	Discharges to storm sewer lines under US 60 flows west to ADOT Pump Station 219, and discharges to US 60 ADOT Channel. No access to discharge location. Monitor for flows upgradient into SWCB3075 and SWCB1911.
701	SWCB4383	See Notes	US 60 & Gilbert Rd	1710	S	Gilbert	Road	18	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.789318	33.385776	Discharges to storm sewer lines under US 60 flows west to ADOT Pump Station 73, and discharges to US 60 ADOT Channel. No access to discharge location. Monitor for flows upgradient into SWCB4397 and SWCB5259.
702	SWMH3003	SWMH3003	US 60 & Greenfield	1710	S	Greenfield	Road	24	Commercial	ADOT	US 60 ADOT Channel (west)	ADOT	Salt	-111.736830	33.386081	Suggest monitoring downgradient at SWHW815 north of highway.
801	SWHW889	SWHW889	NE Brown & EMF	1236	N	46th	Street	84	Industrial, Commercial	COM	EMF	FCDMC	EMF	-111.734063	33.439023	
802	SWFT894	SWSP100	NE Brown & EMF	1236	N	46th	Street	24	Residential, Commercial	COM	EMF	FCDMC	EMF	-111.733937	33.438791	Small swale. Drains Maricopa County EMF pathway.
803	SWHW911	SWMH3141	SW Brown & EMF	4500	E	Brown	Road	15	Residential	COM	EMF	FCDMC	EMF	-111.733000	33.437025	
804	SWDP2160	SWDP2160	SE Brown & EMF	4601	E	Fairbrook	Circle	NA	Residential	COM	EMF	FCDMC	EMF	-111.732601	33.436971	Lined channel along Brown Road east of EMF. Crest width 15'7", base width 5', depth 1'8".
805	SWHW910	SWHW910	SE Brown & EMF	4601	E	Fairbrook	Circle	54	Residential, Commercial	COM	EMF	FCDMC	EMF	-111.732535	33.436972	
806	SWFT904	SWFT904	Adobe & 48th St	820	N	Quail	Circle	12	Residential	COM	EMF	FCDMC	EMF	-111.729106	33.430166	Discharges under north side of bridge. Drains city retention basin.
807	SWFT915	SWFT915	Adobe & 48th St	4801	E	Dixon	Street	12	Residential	COM	EMF	FCDMC	EMF	-111.729001	33.429974	Discharges under south side of bridge.
808	SWHW954	SWHW954	SE University & EMF	5055	E	University	Drive	84	Residential	COM	EMF	FCDMC	EMF	-111.724627	33.422650	
809	SWIN4100	SWIN4100	NWC Higley & Main	5207	E	Main	Street	NA	Commercial & Residential	COM	EMF	FCDMC	EMF	-111.719265	33.416271	Large street scupper draining intersection of Higley & Main. Crest width 290', base width 270', depth 5".
810	SWFT1030	SWFT1030	SEC Higley & Main	5207	E	Main	Street	72	Commercial & Residential	COM	EMF	FCDMC	EMF	-111.718788	33.414821	FCDMC ID 125-15
811	SWHW5445	SWHW5445	SEC Main & Higley	5207	E	Main	Street	NA	Commercial & Residential	COM	EMF	FCDMC	EMF	-111.718099	33.414480	Two box culverts, base 8', height 7'.
812	SWHW1023	SWHW1023	54th Street & EMF	221	S	54th	Street	42	Residential	COM	EMF	FCDMC	EMF	-111.714931	33.411243	
813	SWIN3046	SWIN3046	54th Street & EMF	5442	E	Baywood	Avenue	NA	Residential	COM	EMF	FCDMC	EMF	-111.713546	33.409843	Crest width 17'8", base width 13'8", depth 7".
814	SWHW1106	SWHW1106	SE Southern & EMF	5845	E	Southern	Avenue	42	Commercial	COM	EMF	FCDMC	EMF	-111.705352	33.393774	Formerly sampled for dry-weather flows as #20.
815	SWFT1227	SWMH4102	US 60 & Superstition Springs	6315	E	Auto Park	Drive	30	Industrial	COM	US 60 ADOT Channel (central)	ADOT	EMF	-111.694381	33.387506	
816	SWFT1234	SWFT1234	SWC Power & US 60	1516	S	Power	Road	54	Commercial & Residential	COM	US 60 ADOT Channel (central)	ADOT	EMF	-111.685237	33.387576	Often overgrown with plants. Difficult to access.
817	SWFT1428	SWFT1428	Clearview & US 60	1529	S	Clearview	Avenue	84	Commercial, Industrial	COM	US 60 ADOT Channel (central)	ADOT	EMF	-111.678795	33.387683	
818	SWFT1472	SWFT1472	Clearview to Sossaman	7307	E	Hampton	Road	NA	Commercial	COM	US 60 ADOT Channel (central)	ADOT	EMF	-111.671987	33.387849	Crest width 32', base width 12', depth 7'5".
819	SWFT1477	SWFT1477	Sossaman & US 60	1444	S	Sossaman	Road	48	Commercial, Residential	COM	US 60 ADOT Channel (central)	ADOT	EMF	-111.668396	33.387793	
820	SWHW2047	SWHW2047	Southern & 78th Street	1201	S	Palo Verde	Street	18	Residential	COM	Sossaman Channel	ADOT	EMF	-111.663381	33.393270	Three box culverts, width 10', height 6'.

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
821	SWFT1657	SWFT1657	Southern & 78th Street	1201	S	Palo Verde	Street	18	Residential	COM	Sossaman Channel	ADOT	EMF	-111.663300	33.393242	Reported as 18" in GIS, field verified as 48" corrugated metal pipe.
822	SWFT1662	SWFT1662	Haws & US 60	84	E	Oriole	Boulevard	NA	Residential	COM	US 60 ADOT Channel (east)	ADOT	EMF	-111.650362	33.387644	Crest width 25', base width 8', depth 5.
901	SWMH4233	SWMH4234	US 60 & Power	1710	S	Power	Road	24	Commercial	ADOT	US 60 ADOT Channel (central)	ADOT	EMF	-111.685145	33.386176	Could not locate discharge ID. Monitoring location moved up-gradient.
902	SWMH7632	SWMH7618	Power & Baseline	6542	E	Baseline	Road	24	Commercial	ADOT	EMF	TOG	EMF	-111.695494	33.379173	Could only locate one manhole at discharge location. Uncertain if it belongs to this storm lateral or the neighboring line. Could not locate the other sets of manholes to the west of this monitoring location.
903	SWMH7633	SWMH7619	Power & Baseline	6542	E	Baseline	Road	24	Commercial	ADOT	EMF	TOG	EMF	-111.695526	33.379181	Could only locate one manhole at discharge location. Uncertain if it belongs to this storm lateral or the neighboring line. Could not locate the other sets of manholes to the west of this monitoring location.
904	SWFT2452	SWFT2452	Power & Guadalupe	6810	E	Guadalupe	Road	30	Roadway	FCDMC	Guadalupe Box Channel	FCDMC	EMF	-111.687279	33.364694	
905	SWFT1538	SWFT1538	Guadalupe- Power to Sossaman	6810	E	Guadalupe	Road	18	Roadway	COM	Guadalupe Box Channel	FCDMC	EMF	-111.686583	33.365243	FCDMC ID 3+31
906	SWFT1537	SWFT1537	Guadalupe- Power to Sossaman	6912	E	Guadalupe	Road	18	Roadway	COM	Guadalupe Box Channel	FCDMC	EMF	-111.683195	33.365224	FCDMC ID 13+64.
907	SWFT1546	SWFT1546	Guadalupe- Power to Sossaman	7223	E	Naranja	Avenue	18	Roadway	FCDMC	Guadalupe Box Channel	FCDMC	EMF	-111.679277	33.365201	FCDMC ID 25+74
908	SWFT1540	SWFT1540	Guadalupe- Power to Sossaman	7363	E	Naranja	Avenue	42	Residential	FCDMC	Guadalupe Box Channel	FCDMC	EMF	-111.675934	33.365175	FCDMC ID 35+87.
909	SWFT1547	SWFT1547	Guadalupe- Power to Sossaman	7439	E	Naranja	Avenue	18	Roadway	FCDMC	Guadalupe Box Channel	FCDMC	EMF	-111.674247	33.365164	FCDMC ID 40+97.
910	SWFT1545	SWFT1545	Guadalupe- Power to Sossaman	7459	E	Naranja	Avenue	18	Roadway	COM	Guadalupe Box Channel	FCDMC	EMF	-111.673383	33.365157	FCDMC ID 43+61.
911	SWFT5104	SWFT5104	Sossaman & Guadalupe	2736	S	Sossaman	Road	24	Roadway	FCDMC	Sossaman Channel	FCDMC	EMF	-111.670917	33.365096	Catch basin plumbed to 24-inch line directly into channel under bridge at the northwest corner of Sossaman and Guadalupe.
912	SWFT1674	SWFT1674	Sossaman & Guadalupe	2736	S	Sossaman	Road	24	Roadway	FCDMC	Sossaman Channel	FCDMC	EMF	-111.670485	33.365071	Under bridge.
913	SWHW2056	SWHW2056	Sossaman & Guadalupe	2736	S	Sossaman	Road	60	Residential	COM	Sossaman Channel	FCDMC	EMF	-111.670408	33.365109	
914	SWFT1669	SWFT1669	Sossaman & Baseline	7559	E	Lompoc	Circle	18	Roadway	COM	Sossaman Channel	FCDMC	EMF	-111.668586	33.375800	
915	SWFT1666	SWFT1666	Sossaman & Baseline	2049	S	Ananea		18	Residential	COM	Sossaman Channel	FCDMC	EMF	-111.667624	33.376995	
916	SWHW2050	SWHW2050	Baseline & Sossaman	7610	E	Baseline	Road	54	Residential	FCDMC	Sossaman Channel	FCDMC	EMF	-111.666405	33.379465	FCDMC ID 56+35. Double-barrel system. 2-54" pipes that combine up-gradient.
1101	SWMH5529	SWCB12369	Ellsworth & US 60	1630	S	Rialto		24	Streets	COM	US 60 ADOT Channel (east)	ADOT	EMF	-111.633045	33.386198	Drains to ADOT then to US60 canal west of 202. Could not locate discharge location or manhole west of monitoring location.
1102	SWMH5623	SWMH5614	LOOP 202 - Guadalupe to Elliot	8843	E	Guadalupe	Road	42	Residential	ADOT	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.641853	33.364775	
1103	SWFT2467	SWMH6879	Elliot & Ellsworth	9237	E	Prairie	Ave	NA	Commercial and Residential	COM	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.635814	33.355214	Discharge location is under culvert. Too difficult to access for sampling purposes.
1104	SWHW4374	SWMN21224	Elliot & Ellsworth	9237	E	Prairie	Ave	NA	Commercial and Residential	COM	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.635571	33.355267	
1105	SWHW4598	SWHW4598	Elliot & Ellsworth	3801	S	Ellsworth	Road	102	Commercial and Residential	COM	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.635961	33.345938	Double-barrel system. 2-102" pipes that combine up-gradient.

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
1106	SWFT2594	SWFT2594	LOOP 202 - Hawes to Sossaman	7800	E	Ray	Road	48	Roadway	COM	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.665414	33.327819	
1107	SWFT2587	SWFT2587	LOOP 202 - Sossaman to Power	7400	E	Ray	Road	40	Roadway	COM	LOOP 202 ADOT Channel (southeast)	ADOT	EMF	-111.673361	33.327769	
1108	SWHW4723	SWHW4723	EMF - Ray & Sossaman	7104	E	Ray	Road	36	Industrial	COM	EMF	FCDMC	EMF	-111.681983	33.321690	Access could be hazardous.
1109	SWHW4722	SWHW4722	Powerline Floodway - Ray & Sossaman	7104	E	Ray	Road	30	Industrial, Public	COM	Powerline Floodway	FCDMC	EMF	-111.680066	33.321609	Access could be hazardous.
1110	SWFT2646	SWFT2646	Ellsworth S. of Ray	NA	NA	NA	NA	60	Industrial, Agriculture	COM	Powerline Floodway	FCDMC	EMF	-111.635750	33.321271	Drains large portion of Ellsworth Road to the north.
1111	SWHW4888	SWHW4888	Ellsworth to North Airport Access Road	NA	NA	NA	NA	30	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.636173	33.315222	Drains one set of catch basins on Ellsworth Road.
1112	SWHW4886	SWHW4886	Ellsworth to North Airport Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635856	33.314273	Drains one set of catch basins on Ellsworth Road.
1113	SWHW4900	SWHW4900	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635802	33.312955	Drains one set of catch basins on Ellsworth Road.
1114	SWHW4899	SWHW4899	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635794	33.311607	Drains one set of catch basins on Ellsworth Road.
1115	SWHW4898	SWHW4898	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635706	33.310244	Drains one set of catch basins on Ellsworth Road.
1116	SWHW4897	SWHW4897	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635687	33.309987	Drains one set of catch basins on Ellsworth Road.
1117	SWHW4895	SWHW4895	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635668	33.309935	Drains one set of catch basins on Ellsworth Road.
1118	SWHW4896	SWHW4896	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635692	33.309276	Drains one set of catch basins on Ellsworth Road.
1119	SWHW4891	SWHW4891	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635669	33.308838	Drains one set of catch basins on Ellsworth Road.
1120	SWHW4893	SWHW4893	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635672	33.308745	Drains one set of catch basins on Ellsworth Road.
1121	SWHW4892	SWHW4892	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635671	33.307569	Drains one set of catch basins on Ellsworth Road.
1122	SWHW4889	SWHW4889	Ellsworth - North Airport Access Road to Central Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635631	33.307084	Drains one set of catch basins on Ellsworth Road.
1123	SWHW4944	SWHW4944	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635593	33.305911	Drains one set of catch basins on Ellsworth Road.
1124	SWHW4945	SWHW4945	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635553	33.305056	Drains one set of catch basins on Ellsworth Road.
1125	SWHW4943	SWHW4943	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635574	33.304829	Drains one set of catch basins on Ellsworth Road.
1126	SWHW4942	SWHW4942	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635516	33.304055	Drains one set of catch basins on Ellsworth Road.
1127	SWHW4938	SWHW4938	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635555	33.303928	Drains one set of catch basins on Ellsworth Road.
1128	SWHW4941	SWHW4941	Ellsworth - Central Airport Access Road to Southern Access Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635502	33.303368	Drains one set of catch basins on Ellsworth Road.

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
1129	SWHW4937	SWHW4937	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635523	33.302911	Drains one set of catch basins on Ellsworth Road.
1130	SWHW4948	SWHW4948	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635563	33.302295	Drains one set of catch basins on Ellsworth Road.
1131	SWHW4936	SWHW4936	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635491	33.300406	Drains one set of catch basins on Ellsworth Road.
1132	SWHW4954	SWHW4954	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635421	33.299086	Drains one set of catch basins on Ellsworth Road.
1133	SWHW4953	SWHW4953	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635442	33.298520	Drains one set of catch basins on Ellsworth Road.
1134	SWHW4952	SWHW4952	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635403	33.297566	Drains one set of catch basins on Ellsworth Road.
1135	SWHW4951	SWHW4951	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635423	33.297016	Drains one set of catch basins on Ellsworth Road.
1136	SWHW4950	SWHW4950	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635335	33.293995	Drains one set of catch basins on Ellsworth Road.
1137	SWHW4949	SWHW4949	Ellsworth - South Airport Access Road to East Pecos Road	NA	NA	NA	NA	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635268	33.293605	Drains one set of catch basins on Ellsworth Road.
1138	SWHW4980	SWHW4980	Ellsworth - South Airport Access Road to East Pecos Road	6815	S	Ellsworth	Road	42	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635308	33.292154	Drains one set of catch basins on Ellsworth Road.
1139	SWHW4979	SWHW4979	Ellsworth - South Airport Access Road to East Pecos Road	6815	S	Ellsworth	Road	42	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.635285	33.291339	Drains one set of catch basins on Ellsworth Road.
1140	SWHW4995	SWHW4995	Ellsworth - South Airport Access Road to Germann Road	7300	S	Ellsworth	Road	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634525	33.289174	
1141	SWHW4994	SWHW4994	Ellsworth - South Airport Access Road to Germann Road	7400	S	Ellsworth	Road	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634516	33.288602	
1142	SWHW4989	SWHW4989	Ellsworth - South Airport Access Road to Germann Road	7500	S	Ellsworth	Road	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634585	33.287248	
1143	SWHW4988	SWHW4988	Ellsworth - South Airport Access Road to Germann Road	7600	S	Ellsworth	Road	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634579	33.286850	
1144	SWHW4987	SWHW4987	Ellsworth - South Airport Access Road to Germann Road	7700	S	Ellsworth	Road	18	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634579	33.286712	
1145	SWHW4990	SWHW4990	Ellsworth - South Airport Access Road to Germann Road	7800	S	Ellsworth	Road	24	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634493	33.285846	
1146	SWHW4986	SWHW4986	Ellsworth - South Airport Access Road to Germann Road	7900	S	Ellsworth	Road	30	Industrial	COM	Ellsworth Road Channel	FCDMC	EMF	-111.634532	33.285164	Drains two sets of catch basins on Ellsworth Road.
1147	SWDP3607	SWDP3607	Pecos & Power	NA	NA	NA	NA	NA	Roadway	COM	Rittenhouse Road Channel	FCDMC	EMF	-111.684438	33.289015	Oblong pipe 19" x 23"
1148	SWDP3608	SWDP3608	Pecos & Power	NA	NA	NA	NA	10	Roadway	COM	Rittenhouse Road Channel	FCDMC	EMF	-111.684371	33.288553	
1149	SWDP3588	SWDP3588	Williams Field & Power	NA	NA	NA	NA	18	Roadway	COM	Open Channel	FCDMC	EMF	-111.686403	33.306277	Pipe discharges at north wall under culvert.
1150	SWHW4915	SWHW4915	Williams Field & Power	NA	NA	NA	NA	42	Roadway	COM	Open Channel	FCDMC	EMF	-111.683457	33.306771	Two 24" pipes on north wall of box headwall structure.
1151	SWHW4863	SWMH7450	Sossaman and Williams Field	5615	S	Sossaman	Road	30	Roadway	Private	Open Channel	FCDMC	EMF	-111.679096	33.314698	

Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
1201	SWHW3665	SWHW3665	US 60 & Signal Butte	1224	S	Signal Butte	Road	NA	Residential, Commercial	COM	US 60 ADOT Channel (far-far east)	ADOT	EMF	-111.597852	33.392904	5' x 4' box culvert. CAUTION - Watch for traffic.
1202	SWFT2167	SWFT2167	Signal Butte & Southern	1458	S	Signal Butte	Road	36	Vacant Land	ADOT	US 60 ADOT Channel (far-far east)	ADOT	EMF	-111.598099	33.387573	Monitoring location visible in culvert.
1203	SWFT2146	SWFT2146	US 60 - Signal Butte to Crismon	10325	E	Hampton	Avenue	NA	Vacant - Business	ADOT	US 60 ADOT Channel (far east)	ADOT	EMF	-111.607176	33.387585	Two 4' x 8' box culverts.
1204	SWFT2148	SWFT2148	Crismon & US 60	1553	S	Crismon	Road	48	Commercial & Residential	COM	US 60 ADOT Channel (far east)	ADOT	EMF	-111.615106	33.387584	Double-barrel.
1205	SWMH7774	SWHW2823	Ellsworth & Southern	1229	S	Ellsworth	Road	NA	Residential	ADOT	US 60 ADOT Channel (far east)	ADOT	EMF	-111.632515	33.393026	Culvert 10' x 3'.
1206	SWFT4610	SWMH8834	90th Street & Broadway	8963	E	Butternut	Avenue	36	Residential	COM	US 60 ADOT Channel (far east)	ADOT	EMF	-111.637071	33.408036	Cone deployment necessary on SE corner of intersection.
1207	SWHW2777	SWHW2777	University & Ellsworth	929	E	University	Drive	36	Residential	COM	LOOP 202 Channel	ADOT	EMF	-111.632431	33.421436	
1401	SWHW1457	SWHW1457	McDowell Road - Sossaman to Ridgecrest	7503	E	Oasis	Circle	54	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.668995	33.466765	Double barrel 54" pipes.
1402	SWDP2523	SWDP2523	McDowell Road - Sossaman to Ridgecrest	2823	N	Avery	Circle	12	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.670610	33.466504	
1403	SWHW1460	SWHW1460	NEC McDowell & Ridgecrest	2830	N	Rowen	Circle	18	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.672223	33.466724	
1404	SWFT1303	SWFT1303	Ridgecrest & Red Mountain	2958	N	Avoca	Circle	15	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.671980	33.469122	
1405	SWDP2520	SWDP2520	Boulder Canyon & Red Mountain	3025	N	Red Mountain	NA	12	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.673870	33.470310	
1406	SWDP2516	SWDP2516	Sonoran Hills & Red Mountain	3017	N	Sonoran Hills	NA	15	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.675369	33.471228	
1407	SWDP2482	SWDP2482	Portia & Red Mountain	3120	N	Red Mountain	NA	15	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.676690	33.473248	
1408	SWDP2480	SWFT1263	Quartz & Red Mountain	3244	N	Brighton	NA	18	Residential	PVT	Spk Hill Fdwy	FCDMC	Salt	-111.677803	33.474951	
1409	SWDP3349	SWFT2362	Eagle Crest & Sonoran Heights	7555	E	Eagle Crest	Drive	18	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.671539	33.491546	Configuration is not correct. Fitting is actually a manhole. Discharge point is approximately 125 feet NW of manhole (33.49166, -111.67216)
1410	SWFT3988	SWMH6599	Eagle Crest & Boulder Canyon	4238	N	Boulder Canyon	NA	21	Residential	PVT	Spk Hill Fdwy	FCDMC	Salt	-111.673901	33.491937	
1411	SWDP3329	SWCB14518	Eagle Crest Southwest of Boulder Canyon	7234	E	Tyndall	Street	18	Residential	COM	PVT	NA	NA	-111.678428	33.490442	Drains to private residential properties. No access point.
1412	SWMH6581	SWMH6581	Trailridge & Sonoran Hills	6952	E	Trailridge	Circle	48	Residential	PVT	Spk Hill Fdwy	FCDMC	Salt	-111.679788	33.488722	
1413	SWMH6589	SWMH6589	Saddleback Circle & Sonoran Hills	3851	N	Sonoran Hills	NA	48	Residential	PVT	Spk Hill Fdwy	FCDMC	Salt	-111.680177	33.485714	
1414	SWMH6584	SWMH6584	Eagle Crest & Snowdon St.	6948	E	Snowdon	Street	60	Residential	PVT	Spk Hill Fdwy	FCDMC	Salt	-111.679981	33.484551	Caution, access gate opens toward the asset. Best to enter development through Sayan Street, exist through gate by asset, and park outside reach of gate swing.
1415	SWFT2353	SWFT2353	Spook Hill Floodway - North of Thomas	3614	N	Sonoran Hills		12	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.682334	33.481041	
1416	SWFT1266	SWFT1266	Spook Hill Floodway - South of Thomas	3558	N	Red Mountain		15	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.682334	33.480621	FCDMC 130+60. Monitor at flush graded drain pipe east of SWHW1402.
1417	SWDP3344	SWDP3344	Eagle Crest & Red Mountain	3588	N	Sonoran Hills	NA	12	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.680911	33.480978	GIS indicates structure discharge is east of Red Mountain, but flow discharges to the west (see Lat/Long).
1418	SWFT1261	SWFT1261	Russel & Red Mountain	3250	N	Red Mountain	NA	12	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.678662	33.475461	
1419	SWDP2521	SWDP2521	NWC McDowell & Ridgecrest	2830	N	Rowen	Circle	18	Residential	COM	Spk Hill Fdwy	FCDMC	Salt	-111.672674	33.466731	
1420	SWFT1280	SWFT1280	SHFRS - NEC McDowell & 202	2758	N	Augustine	NA	24	Residential	ADOT	SHFRS	FCDMC	Salt	-111.677374	33.466802	
1421	SWCB10969	SWDP2567	SHFRS - Hermosa Vista to McKellips	2026	N	76th	Street	24	Residential	FCDMC	SHFRS	FCDMC	Salt	-111.667162	33.451939	May need to monitor at SWDP2568.
1422	SWCB11044	SWCB11044	SHFRS - McKellips to McLellan	NA	NA	NA	NA	NA	Undeveloped and residential	COM	SHFRS	FCDMC	Salt	-111.659149	33.444637	Drains aqueduct on City property.
1423	SWDP2787	SWDP2787	SHFRS - McLellan to Brown	8037	E	McLellan	Road	36	Undeveloped	COM	SHFRS	COM	Salt	-111.658240	33.443638	Drains COM aqueduct.
1424	SWDP2788	SWDP2788	SHFRS - McLellan to Brown	8037	E	McLellan	Road	24	Undeveloped	COM	SHFRS	COM	Salt	-111.657586	33.443243	Drains COM aqueduct.
1425	SWDP2789	SWDP2789	SHFRS - McLellan to Brown	8037	E	McLellan	Road	30	Undeveloped	COM	SHFRS	COM	Salt	-111.656941	33.442623	Drains COM aqueduct.
1426	SWDP2781	SWDP2781	SHFRS - McLellan to Brown	NA	NA	NA	NA	NA	Undeveloped and residential	COM	SHFRS	COM	Salt	-111.655744	33.441974	Crest width 120 ft., base 75 ft., depth 2.5 ft.
1427	SWDP2790	SWDP2790	SHFRS - McLellan to Brown	NA	NA	NA	NA	42	Undeveloped	COM	SHFRS	COM	Salt	-111.654547	33.440744	Drains COM aqueduct.
1428	SWDP2791	SWDP2791	SHFRS - McLellan to Brown	NA	NA	NA	NA	42	Undeveloped	COM	SHFRS	COM	Salt	-111.653813	33.440369	Drains COM aqueduct. Double barrel pipe.
1429	SWDP2792	SWDP2792	SHFRS - McLellan to Brown	NA	NA	NA	NA	42	Undeveloped	COM	SHFRS	COM	Salt	-111.653225	33.439958	Drains COM aqueduct. Double barrel pipe.
1430	SWDP2780	SWDP2780	SHFRS - McLellan to Brown	NA	NA	NA	NA	NA	Undeveloped and residential	COM	SHFRS	COM	Salt	-111.652619	33.439592	Crest width 120 ft., base 30 ft., depth 2 ft.
1431	SWDP2793	SWDP2793	SHFRS - McLellan to Brown	NA	NA	NA	NA	24	Undeveloped	COM	SHFRS	COM	Salt	-111.651663	33.438756	Drains COM aqueduct.
1432	SWDP2794	SWDP2794	SHFRS - McLellan to Brown	NA	NA	NA	NA	36	Undeveloped	COM	SHFRS	COM	Salt	-111.651131	33.438339	Drains COM aqueduct.
1433	SWDP2795	SWDP2795	SHFRS - McLellan to Brown	NA	NA	NA	NA	36	Undeveloped	COM	SHFRS	COM	Salt	-111.650243	33.437952	Drains COM aqueduct.
1434	SWFT5109	SWFT5109	SWC of Ellsworth & Brown	9152	E	Brown	Road	36	Commercial	COM	SBFW	FCDMC	Salt	-111.632907	33.436703	Drains private retention basin and City streets.



Map ID	Discharge ID	Monitoring Location ID	General Location	Street No.	Street Direction	Street Name	Street Type	Diameter	Land Use	Owner	Receiving Structure	Receiving MS4	Receiving W of US	Longitude	Latitude	Notes
1435	SWFT1913	SWFT1913	Signal Butte Floodway - Ellsworth to Crismon	9339	E	Grandview	Street	NA	Residential	FCDMC	SBFW	FCDMC	Salt	-111.628434	33.439427	Crest width 75 ft., base 60 ft., depth 3.5 ft.
1436	SWHW2664	SWMN18920	Signal Butte Floodway - Ellsworth to Crismon	9339	E	Grandview	Street	30	Residential	FCDMC	SBFW	FCDMC	Salt	-111.625796	33.442399	
1437	SWIN34	SWMN18962	Crismon Road & Indingo	1541	N	Crismon	Road	8	Industrial	COM	SBFW	FCDMC	Salt	-111.615724	33.444076	Drains city water facility. A manhole appears to exist at this location. Verify.
1438	SWMH5646	SWMH5646	Crismon & Princess	9925	E	Grandview	Street	42	Residential	COM	SBFW	FCDMC	Salt	-111.631813	33.439695	
1439	SWHW2677	SWHW2677	Crismon & McLellan	9549	E	McLellan	Road	16	Residential	COM	SBFW	FCDMC	Salt	-111.623970	33.443830	
1440	SWHW2667	SWMN4398	Aaron & McLellan	1441	N	Aaron	Circle	15	Residential	COM	SBFW	FCDMC	Salt	-111.627162	33.441653	
1441	SWFT1776	SWFT1776	86th Street & Glencove	8606	E	Glencove	Street	18	Residential	COM	SBFW	FCDMC	Salt	-111.645450	33.438124	
1442	SWFT1773	SWFT1773	86th Street & Hillview	8559	E	Hillview	Circle	18	Residential	COM	SBFW	FCDMC	Salt	-111.645413	33.442408	
1443	SWFT1769	SWFT1769	McLellan & 86th Street	8646	E	Hannibal	Street	36	Residential	COM	SBFW	FCDMC	Salt	-111.644237	33.443979	
1444	SWFT1770	SWFT1770	McLellan & 86th Street	8646	E	Hannibal	Street	36	Residential	COM	SBFW	FCDMC	Salt	-111.644145	33.443979	
1445	SWHW2293	SWMH5341	McLellan & 67 Place	8712	E	Hannibal	Street	42	Residential	COM	SBFW	FCDMC	Salt	-111.642929	33.443981	
1446	SWMH4894	SWHW1921	McKellips & Mountainbridge	1905	N	83rd	Place	48	Residential	COM	SBFW	FCDMC	Salt	-111.650186	33.451134	
1447	SWHW1935	SWHW1935	McKellips & Channing	8222	E	Jaeger	Street	30	Residential	COM	SBFW	FCDMC	Salt	-111.653611	33.451243	

**NOTES:**

- |                       |  |
|-----------------------|--|
| CB - Catch Basin      | MN - Gravity Main  |
| DP - Discharge Point  | OD - Open Drain  |
| FT - Fitting          | PM - Pump  |
| HW - Headwall         | SW - Stormwater  |
| HP - Historical Point | <b>Red</b> records are also wet-weather sampling locations |
| MH - Manhole          |  |

## **APPENDIX D**

# **FIELD SCREENING TEST QUANTITATIVE METHODS & THRESHOLDS**



**DRY-WEATHER SCREENING PROGRAM  
TEST METHODS AND MONITORING THRESHOLDS**

Below is a table that summarizes the parameters that are tracked as part of the City's dry-weather screening program. A flow is considered to be significantly polluted for the purpose of conducting an investigation immediately upon detection if any one of the parameters are observed above the established threshold.

<b>Parameter</b>	<b>Test Method</b>	<b>Range</b>	<b>Accuracy</b>	<b>Threshold</b>
pH	Ion-Selective Electrode	0.00 – 14.00 s.u.	0.01 s.u.	pH<5.50 pH>8.50
Chlorine (total)	N,N Diethyl-1,4 Phenylenediamine Sulfate (DPD)	0 - 3.5 mg/L	0.1 mg/L	1.0 mg/L
Copper (total)	Bicinchoninate Hydrosulfite Reduction	0 – 5 mg/L	0.1 mg/L	1.0 mg/L
Phenol	4-Aminoantipyrine	0 – 5 mg/L 0 – 1 mg/L	0.1 mg/L 0.05 mg/L	1.0 ml/L
Detergents	Toluidine Blue-O	0 – 1 mg/L	0.05 mg/L	0.50 mg/L
Turbidity	HACH Turbidity Meter	0 – 1,000 ntu	2%	100 ntu

## **APPENDIX E**

# **BASIC CODE ENFORCEMENT PROCESS WORK INSTRUCTIONS**



## BASIC CASE ENFORCEMENT PROCESS WORK INSTRUCTIONS

The City's Basic Case Enforcement Process Work Instructions have been developed to provide a general schedule for obtaining compliance with parts of the Mesa City Code that have been delegated for enforcement to the City's Environmental Management & Sustainability Department (ESD). The goal of the Work Instructions is to obtain voluntary and prompt compliance whenever possible while also building evidence if a civil or criminal action is needed. The time allowed to gain voluntary compliance will be only that necessary to prove to a reasonable person that voluntary compliance was not immediately forthcoming.

Under these work procedures, the option of voluntary compliance may be given to responsible parties to implement corrective actions within a timeframe of no less than 24 calendar days of identifying the violation. Additional time may be given to implement corrective actions depending on the severity and hazards associated with the type of violation(s), the necessity for submitting plans and/or obtaining permits from the City or other agencies, and the availability of services or materials. Timeframes provided below may also be shortened based on the severity and hazards associated with the type of violation and whether the violation was a conducted in a knowingly or willful manner.

Code cases are created in Accela by ESD personnel upon receipt of a citizen complaint or through an in-person observation by a ESD inspector in the field. The Department's goal is for the ESD inspector to investigate a complaint within 3 days.

### **NO VIOLATION:**

1. **COMPLAINT:** Where in response to a complaint there are no violations identified, a case is opened, photographs will be taken, and the case is closed with a "No Violation" notation and the reasoning behind the "No Violation" finding will be provided.
2. **PROACTIVE OR SCHEDULED INSPECTION :** Where as a result of a proactive or scheduled inspection is conducted and no violations are identified, a case or inspection record is opened, photographs may be taken, and the case or inspection record is closed or noted with a "No Violation" notation.

### **VOLUNTARY COMPLIANCE SCHEDULE:**

1. **VIOLATION FIRST IDENTIFIED:** Where a violation(s) is identified in response to a complaint or as a result of a proactive or scheduled inspection, photographs are taken, and a Courtesy Notice is issued detailing corrective actions that are required, and a follow-up inspection is generally scheduled within ten (10) calendar days of the identification of a violation(s).
2. **FIRST FOLLOW-UP INSPECTION:** If during the first follow-up inspection, the violation(s) has been abated, photographs are taken, and the case is closed with a "Closed - After Courtesy Notice" notation. If the violation(s) has not been abated, photographs are taken, and a "Notice of Ordinance Violation" is issued again detailing the corrective actions that are required, and a second follow-up inspection is generally scheduled seven (7) calendar days after the date of the first follow-up inspection.
3. **ATTEMPT TO CONTACT:** If during the second follow-up inspection, the violation(s) has been abated, photographs are taken, and the case is closed with a "Closed – After NOV" notation. If the violation(s) has not been abated, the City inspector will attempt to make personal contact with the responsible party by phone or by leaving a business card to discuss the corrective actions that are required. If at any time during this voluntary compliance process personal contact is made, the City inspector will inform the responsible party of the issue(s) and required corrective actions and set a reasonable timeframe for completion.



## BASIC CASE ENFORCEMENT PROCESS WORK INSTRUCTIONS

### **CIVIL VIOLATION & CITATION:**

If all attempts at gaining personal contact fails [no longer than seven (7) calendar days] and/or there is no attempt on the part of the responsible party to implement the required corrective actions, an enforcement action in the form of a “Civil Citation” will be issued. Once a Civil Citation is issued, the responsible party has ten (10) calendar days to respond to the charges. After each citation, an additional follow-up inspection will be scheduled generally within seven (7) calendar days, depending on the severity and conditions associated with the type of violation(s). Additional citations will be issued until such time that the issue(s) have been abated.

### **NOTICE TO ABATE:**

The City inspector has the authority to issue a “Notice to Abate” which requires abatement of the issue(s) within thirty (30) calendar days from the date this is issued. If the issue(s) is not addressed in that timeframe, the City has the authority to abate the issue(s) and to recover the costs associated with the abatement. The Notice to Abate order will provide a statement indicating that the 30 calendar day notice does not apply to emergency abatements (for example in the case of the existence of an imminent hazard) which will allow the City to abate the issue(s) as soon as practicable. City inspectors may issue a Notice to Abate at any point during case enforcement process.

### **SUSPENSION OF CONSTRUCTION PERMIT OR LICENSE:**

The City inspector has the authority to suspend any construction permit or license issued by the City which authorizes work resulting in a violation of certain sections of the Mesa City Code until the violation is abated. In general, this action is limited to construction related activities and is the primary enforcement actions taken with respect to these types of operations. In enforcing this procedure, the City inspector may simply take the action of not approving work performed until such time that compliance with the Mesa City Code has been obtained.

### **HABITUAL OFFENDER:**

Upon response to any complaint or prior to any proactive or scheduled inspection or investigation, the City inspector will review the City’s database to determine what violations have occurred at the responsible party’s address. Where any person has committed a violation of the same chapter of the Mesa City Code after previously having been found responsible for committing civil violations of the same chapter on three (3) separate dates and within a thirty-six (36) month period, whether by admission, by payment of the fine, by default, or by judgment after hearing, may be considered a habitual offender and be charged with a Class 1 criminal misdemeanor.

# **APPENDIX F**

## **CITY FACILITY INVENTORY**

CITY FACILITY INVENTORY					
Facility Inventory					Stormwater Permits
Facility Name	Address	Latitude	Longitude	Facility Activities	Stormwater Permit Coverage (Type)
AJ Pump Station 1 – Waterbury	2762 N. Waterbury Road	33.47	-111.65	Water distribution	DMGP
AJ Pump Station 2 – County Line North	3851 N. 80th Street	33.49	-111.66	Water distribution	DMGP
Arizona Museum of Natural History	53 N. MacDonald	33.42	-111.83	Museum	
Arizona Museum of Natural History Annex	112 W. Pepper Place	33.42	-111.83	Artifact processing	
Baseline Campus	708 W. Baseline	33.38	-111.84	Offices, fleet maintenance, warehouse, dispatch	
Brimhall Jr. High Pool	4949 E. Southern Avenue	33.39	-111.73	Swimming pool	
Broadway Recreation Center	59 E. Broadway Road	33.41	-111.83	Recreation Center	
Brooks Pump Station	310 S. Brooks	33.41	-111.86	Water distribution	DMGP
Brown Road Water Treatment Plant	7750 E. Brown Road	33.44	-111.66	Water distribution	DMGP
Carson Jr. High Pool	525 N. Westwood	33.42	-111.85	Swimming pool	
Centennial Hall	201 N. Center Street	33.42	-111.83	Civic Center	
Center Street Yard (Solid Waste)	2412 N. Center Street	33.46	-111.83	Solid waste container maintenance, cleaning, and storage; household hazardous materials facility	
Central Police Substation	120 N. Robson	33.42	-111.84	Offices, criminal confinement	
Chaparral Park Lift Station	1645 N. Gilbert Road	33.45	-111.79	Water distribution	DMGP
City Cemetery	1212 N. Center Street	33.44	-111.83	Cemetery	
Communication Building	161 E. 6th Place	33.43	-111.83	Offices complex	
Dobson Ranch Golf Course	2155 S. Dobson Road	33.38	-111.88	Golf course	
Eagle Crest Pump Station	7039 E. Sierra Morena Circle	33.48	-111.68	Water distribution	DMGP
Eagles Park and Community Center	828 E. Broadway Road	33.41	-111.81	Recreation Center	
East Mesa Waste Storage Area	7041 E. Adobe Street	33.43	-111.68	Hazardous material storage	
Elmwood Pump Station	9802 E. Elmwood Street	33.43	-111.62	Water distribution	DMGP
Falcon Field (Airport Administration)	4800 E. Falcon Drive	33.46	-111.73	Offices	MSGP
Falcon Field Maintenance	5154 E. Roadrunner Drive	33.46	-111.72	Offices and maintenance supplies	MSGP
Falcon Police Hanger (Police Aviation)	5100 E. Falcon Drive	33.46	-111.72	Helicopter and plane fueling, maintenance, and storage	MSGP
Federal Building	26 N. MacDonald	33.42	-111.83	Unoccupied	
Fiesta District Police Station	1010 W. Grove Avenue	33.39	-111.85	Police Station, fueling	
Fire Station 201	360 E. 1st Street	33.42	-111.82	Fire station	
Fire Station 202	830 S. Stapley Road	33.40	-111.81	Fire station	
Fire Station 203	324 S. Alma School Road	33.40	-111.86	Fire station	
Fire Station 204	1426 S. Extension Road	33.39	-111.85	Fire station	
Fire Station 205	730 S. Greenfield Road	33.40	-111.74	Fire station	
Fire Station 206	815 N. Lindsay Road	33.43	-111.77	Fire station	
Fire Station 206 Support Building	2830 E. Adobe Street	33.43	-111.77	Volunteer Center	
Fire Station 207	2505 S. Dobson Road	33.37	-111.88	Police/Fire station	
Fire Station 208	4530 E. McKellips Road	33.45	-111.73	Fire station	
Fire Station 209	7035 E. Southern Avenue	33.39	-111.68	Fire station	
Fire Station 210	1502 S. 24th Street	33.39	-111.78	Fire station	
Fire Station 211	2130 N. Horne	33.45	-111.81	Fire station	
Fire Station 212	2430 S. Ellsworth Road	33.37	-111.64	Fire station	
Fire Station 213	7816 E. University Drive	33.42	-111.66	Fire station	
Fire Station 214	5950 E. Virginia Street	33.48	-111.70	Fire station	
Fire Station 215	6353 S. Downwind	33.31	-111.67	Fire station	
Fire Station 216	7966 E. McDowell Road	33.47	-111.66	Fire station	
Fire Station 217	10434 E. Baseline Road	33.38	-111.61	Fire station	
Fire Station 218	845 N. Alma School Road	33.43	-111.86	Fire station	
Fire Station 219	3361 S. Signal Butte Road	33.35	-111.60	Fire station	
Fire Station 220	32 S. 58th Street	33.42	-111.71	Fire station	
Fire Station 2202	1105 E. 2nd Avenue	33.41	-111.81	Former Fire Station	
Fire Station 2203	1340 W. University	33.42	-111.86	Former Fire Station	
Fire Station 221	9320 E. Point Twenty-Two Blvd.	33.33	-111.63	Fire station	
Fitch Park Maintenance (Training Center)	141 E. Athletics way	33.43	-111.83	Offices, indoor training, and ball fields	
Fleet Support Services	310 E. 6th Street	33.43	-111.83	Vehicle maintenance, washing, fueling	
Fleet Support Services	6935 E. Decatur Street	33.43	-111.68	Vehicle maintenance, washing, fueling	
Fremont Jr. High Pool	1001 N. Power Road	33.43	-111.68	Swimming pool	
Gene Autry Baseball	4125 E. McKellips Road	33.45	-111.74	Ball field, maintenance	
Greenfield Water Reclamation Plant	4400 S. Greenfield Road, Gilbert	33.27	-111.74	POTW	MSGP
Higley Booster Pump Station	2208 N. Higley Road	33.46	-111.72	Water distribution	DMGP



Facility Inventory					Stormwater Permits
Facility Name	Address	Latitude	Longitude	Facility Activities	Stormwater Permit Coverage (Type)
Hohokam Stadium	1235 N. Center Street	33.44	-111.83	Ball field & entertainment venue	
i.d.e.a Museum	35 N. Robson	33.42	-111.84	Museum	
Jefferson Gym & Rec Ctr.	120 S. Jefferson Avenue	33.41	-111.68	Recreation Center	
Kino Jr. High Pool	848 N. Horne	33.43	-111.81	Swimming pool	
Lindsay Pump Station 3	3130 E. Adobe Street	33.43	-111.76	Water distribution	DMGP
Materials & Supply – East	7041 E. Adobe Street	33.43	-111.68	Warehouse	
Materials & Supply – West	316 E. 6th Street	33.43	-111.82	Warehouse; Printing & Graphics (west end)	
Materials Lab	320 E. 6th Street	33.43	-111.82	Material testing	
Mesa Amphitheater	232 N. Centennial Way	33.42	-111.83	Civic center	
Mesa Arts Center	1 E. Main Street	33.41	-111.83	Civic center	
Mesa Center for Higher Education	245 E. 1st Street	33.42	-111.84	Education offices, classrooms, and laboratories	
Northwest Water Reclamation Plant	960 N. Riverview	33.43	-111.88	POTW	MSGP
Old Fire Station #1	13 W. 1st Street	33.42	-111.83	Offices	
Parks Storage	125 N. Hobson	33.42	-111.82	Storage	
Parks Storage Annex	630 E. 1st Street	33.42	-111.82	Storage	
Pasadena Pump Station 1	601 N. Pasadena	33.43	-111.83	Water distribution	DMGP
Police Department Headquarters	130 N. Robson	33.42	-111.84	Police station, holding cells	
Police Department Metro Services	255 W. Juanita Avenue	33.38	-111.83	Police	
Police Firing Range	2550 N. Center Street	33.46	-111.83	Firing Range	
Police Technical Services Building	133 N. Morris	33.42	-111.84	Police forensics	
Poston Jr. High Pool	2433 E. Adobe Street	33.43	-111.78	Swimming Pool	
Public Safety Training Facility	3260 N. 40th Street	33.47	-111.74	Offices, classrooms, and fire training exhibitions	
Quail Run Sports Complex	4155 E. Virginia Street	33.48	-111.74	Sports fields	
Recker TS2 Transfer Station	2951 N. Recker Road	33.47	-111.70	Water distribution	DMGP
Red Mountain Police Substation	4333 E. University Drive	33.42	-111.74	Offices and vehicle fueling	
Red Mtn Multigenerational Center	7550 E. Adobe Street	33.43	-111.67	Recreation center	
Red Mtn. Baseball Complex	8008 E. Brown Road	33.44	-111.66	Ball field	
Red Mtn. Soccer Complex	905 N. Sunvalley Boulevard	33.43	-111.67	Ball field	
Red Mtn. Softball Complex	7808 E. Brown Road	33.44	-111.66	Ball field	
Rendezvous Center	263 N. Center Street	33.42	-111.83	Offices and customer service	
Rhodes Jr. High Pool	1860 S. Longmore	33.38	-111.87	Swimming pool	
Riverview Park Maintenance	2414 W. Rio Salado	33.43	-111.88	Maintenance/operations	
Sagewood Pump Station	3631 N. Sagewood Circle	33.48	-111.68	Water distribution	DMGP
Scarlet Pump Station	8425 E. Scarlet Circle	33.48	-111.65	Water distribution	DMGP
SE City Zone Booster Pump Station 5	761 S. Val Vista Drive	33.40	-111.75	Water distribution	DMGP
Senior Center	247 N. MacDonald	33.42	-111.83	Recreation center	
Shepherd Jr. High Pool	1407 N. Alta Mesa Drive	33.44	-111.71	Swimming pool	
Signal Butte Water Treatment Plant	10950 E. Elliot Road	33.35	-111.60	POTW	MSGP
Skyline Aquatic Center	845 S. Crismon Road	33.40	-111.61	Swimming pool	
Skyline Softball Complex	655 S. Crismon Road	33.40	-111.62	Ball field	
South Center Scene Shop	200 S. Center Street	33.41	-111.83		
South Center Street Campus	200 S. Center Street	33.41	-111.83	Offices and maintenance supplies	
South Robson Substation	265 S. Robson	33.41	-111.84	Electrical substation	
Southeast Water Reclamation Plant	6308 E. Baseline Road	33.38	-111.70	POTW	MSGP
Stapley Jr. High Pool	3250 E. Hermosa Vista Drive	33.46	-111.76	Swimming pool	
Superstition Police Substation	2430 S. Ellsworth Road	33.37	-111.64	Offices and vehicle fueling	
Taylor Jr. High Pool	705 S. 32nd Street	33.40	-111.76	Swimming pool	
Transportation Building	300 E. 6th Street	33.43	-111.83	Shop operations	
Usery Pump Station	8059 E. McLellan Road	33.44	-111.66	Water distribution	DMGP
Utilities - EMSC	7115 E. Adobe Street	33.43	-111.68	Offices and field service center	
Utilities Building	640 N. Mesa Drive	33.43	-111.82	Offices and field service center	
Utilities Operations Building - Facilities Maintenance	340 E. 6th Street	33.43	-111.82		
Washington Activity Center	44 E. 5th Street	33.42	-111.83	Recreation center	
Webster Gym & Rec Ctr.	202 N. Sycamore	33.42	-111.87	Recreation center	

## **APPENDIX G**

### **LISTING OF NON-CITY MSGP CATEGORICAL INDUSTRIAL FACILITIES**

**(LIST AVAILABLE UPON REQUEST)**