

# STORMWATER AWARENESS TRAINING

JUNE 2017

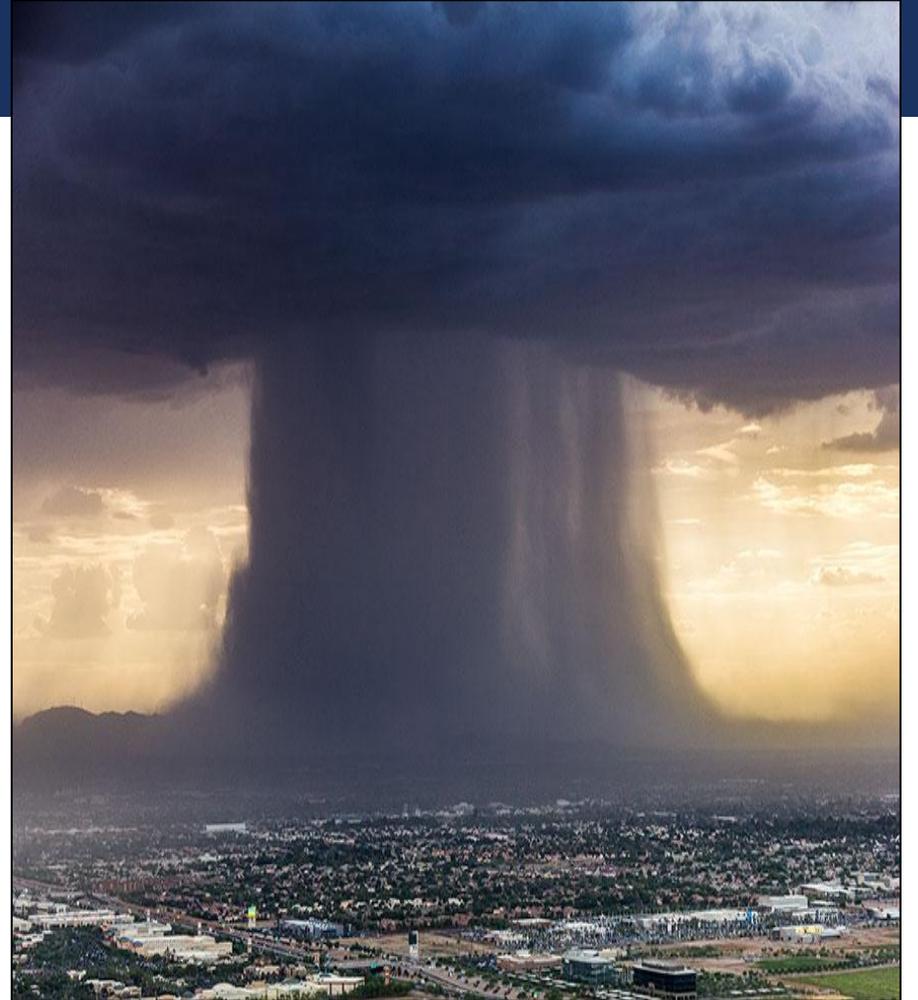
# AGENDA

- What is stormwater?
- MS4 Permit
- Illicit Discharges
- Recognizing Illicit Discharges
- Allowable Discharges
- Reporting
- Permit Compliance
- Enforcement



# STORMWATER?

- Stormwater is runoff due to rain or snow melt
- The runoff enters streams and rivers via natural geologic features such as channels as well as urbanized features such as storm drains and gutters **WITHOUT** treatment



# WHY CARE ABOUT STORMWATER?



Stormwater has the potential to transport pollutants to surface waters that are used for:

- wildlife habitat
- recreation (fishing, boating, etc.)
- domestic uses (drinking, cooking, etc)

# TYPES OF ILLICIT DISCHARGES

Anything entering the **MS4** that is not allowed or stormwater is an illicit discharge

- Illegal dumping
- Illicit connections
- Household hazardous waste (HHW)
- Grey water discharges



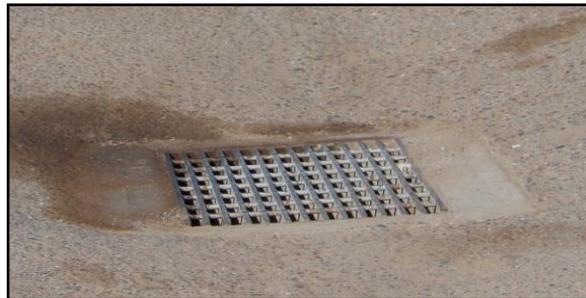
# WHAT IS AN MS4?

Municipal Separate Storm Sewer System (MS4) – a system to move stormwater, owned by a state, city, or public entity that discharges to the waters of the US.

- Ditches
- Pipes
- Tunnels
- Catch basins
- Storm drains
- Curbs and gutters
- Man-made cannels



# ILLICIT DISCHARGE EXAMPLES



# ILLEGAL DUMPING AND LITTERING

## Illegal Dumping:

- Disposal of solid wastes in any location that has not been approved to accept waste
- Often times appearing overnight in washes or alleys (“hidden areas”)



## Littering:

- Improper disposal of waste in public



***Both are illicit discharges!***

# ILLICIT CONNECTIONS

- Connection of a non-stormwater source directly to the storm drain system
- Common examples:
  - Shop drains
  - Loading docks
  - Hoses



# RECOGNIZING POTENTIAL ILLICIT DISCHARGES

- Flow in the gutters without a rainfall event
- Pavement staining (oil, debris, etc.)
- Small volumes of water in an outfall without a significant rainfall event



# ALLOWABLE NON-STORMWATER DISCHARGES

1. Water line flushing and other discharges from drinking water sources;
2. Landscape irrigation and lawn watering;
3. Irrigation water;
4. Diverted stream flow;
5. Rising ground water;
6. Uncontaminated groundwater infiltration, pumped groundwater, foundation and footing drains, and water from crawl space pumps;
7. Air conditioning condensation and evaporative cooler run-off;
8. Natural springs;
9. Individual residential car washing;
10. Footing and foundation drains;
11. Flows resulting from firefighting activities;
12. Discharges from potable water sources;
13. Street wash water
14. Dechlorinated swimming pool water
15. Any other activity that is exempted under the city's AZPDES storm water permit.

***Discharges MUST be pollutant free!***

# REMEMBER

If it's not *allowable* or  
*rain*...



...then it's illicit!

# REPORTING ILLICIT DISCHARGING

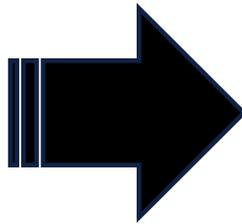
If a potential illicit discharge is identified:

- Identify discharge...the more info the better!
- Report to Matt Killeen (Environmental Coordinator) at [928-777-1651](tel:928-777-1651)
- Online Pollution Reporting [goo.gl/87geFr](https://goo.gl/87geFr)



# REGULATORY FLOW DOWN

- Since 1972 the EPA has administered the Clean Water Act.
- In 2002, EPA delegated authority to ADEQ to administer a state-based stormwater program



# PERMIT COMPLIANCE

- Small MS4 General Permit applies to small Cities (such as Prescott)
  - Authorizes stormwater discharges from small MS4s in Arizona to Waters of the United States
- Permit became effective on September 30, 2016
- Requires the City to conduct a number of activities, such as:
  - Develop and implement a SWMP
  - Inspections
  - Visual assessments
  - Sampling and analysis
  - Training
  - Reporting



# IDDE MS4 PERMIT ENFORCEMENT REQUIREMENTS

▪ INVESTIGATE ID



▪ ELIMINATE ID



▪ ENFORCE



▪ REPORT



# HOW CAN YOU HELP?



## As a Resident...

- Maintain your vehicles
- Wash your vehicles at car washes
- Do not over fertilize plants and lawns
- Do not litter
- Pick up pet waste
- Maintain septic systems

## As an Employee...

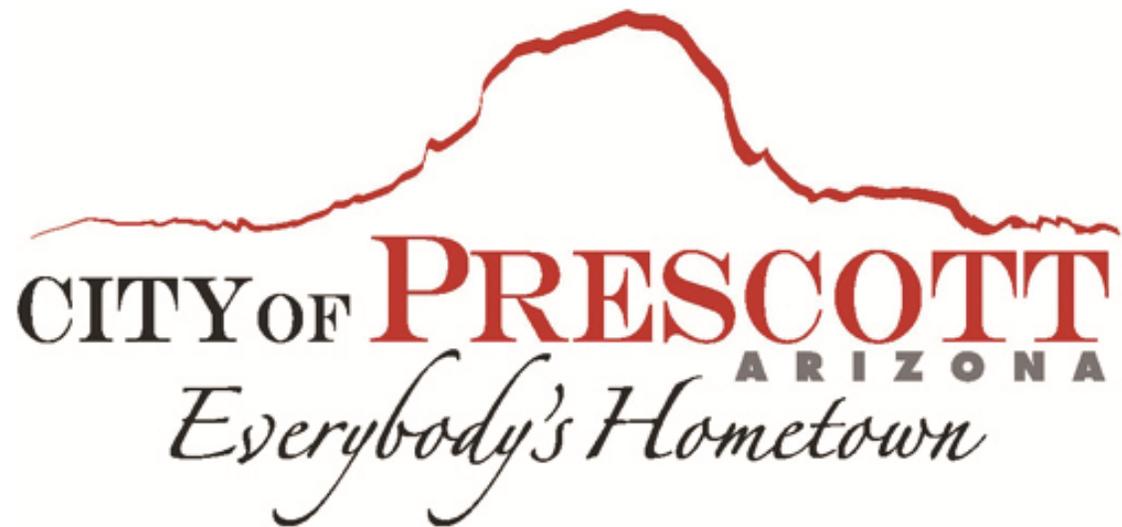
- Service City vehicles as needed
- Clean vehicles and equipment in designated areas
- Implement good housekeeping practices
- Properly track and report any illicit discharges

# QUIZ QUESTIONS

1. Why do we care about stormwater?
2. What is an illicit discharge?
3. Why is protecting the MS4 important?
4. How can you report an illicit discharge?
5. What can you do to reduce illicit discharges?

# QUESTIONS/COMMENTS?

Any questions or concerns...



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