

# Protecting Our Stormwater

## *Stoppin' the Droppin' Campaign*

**Pima Dept. of Environmental Quality (PDEQ)**

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# Overview

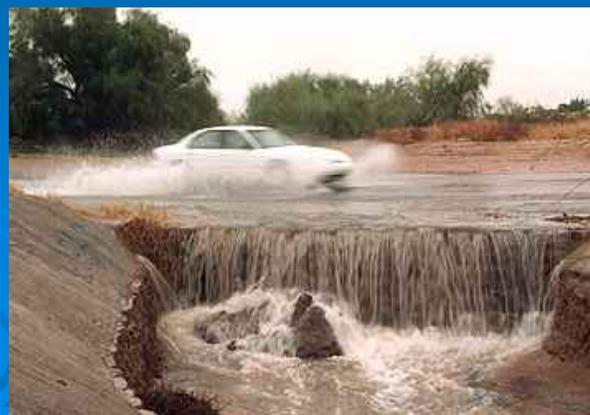
- ◆ Stormwater Management Program
- ◆ Stoppin' the Droppin' Campaign
- ◆ What we can do



# PDEQ Mission

Identify & respond to environmental issues by providing public services:

- Air, water & soil (illegal dumping) monitoring
- Permitting and compliance inspections
- Enforcement
- Education and outreach



# Stormwater Management Program

- Stormwater is rain water flowing on the ground (also called runoff or surface water)



- PDEQ Objective:

Maintain the water quality of surface water in our washes using:

- Flood control measures
- Pollution prevention

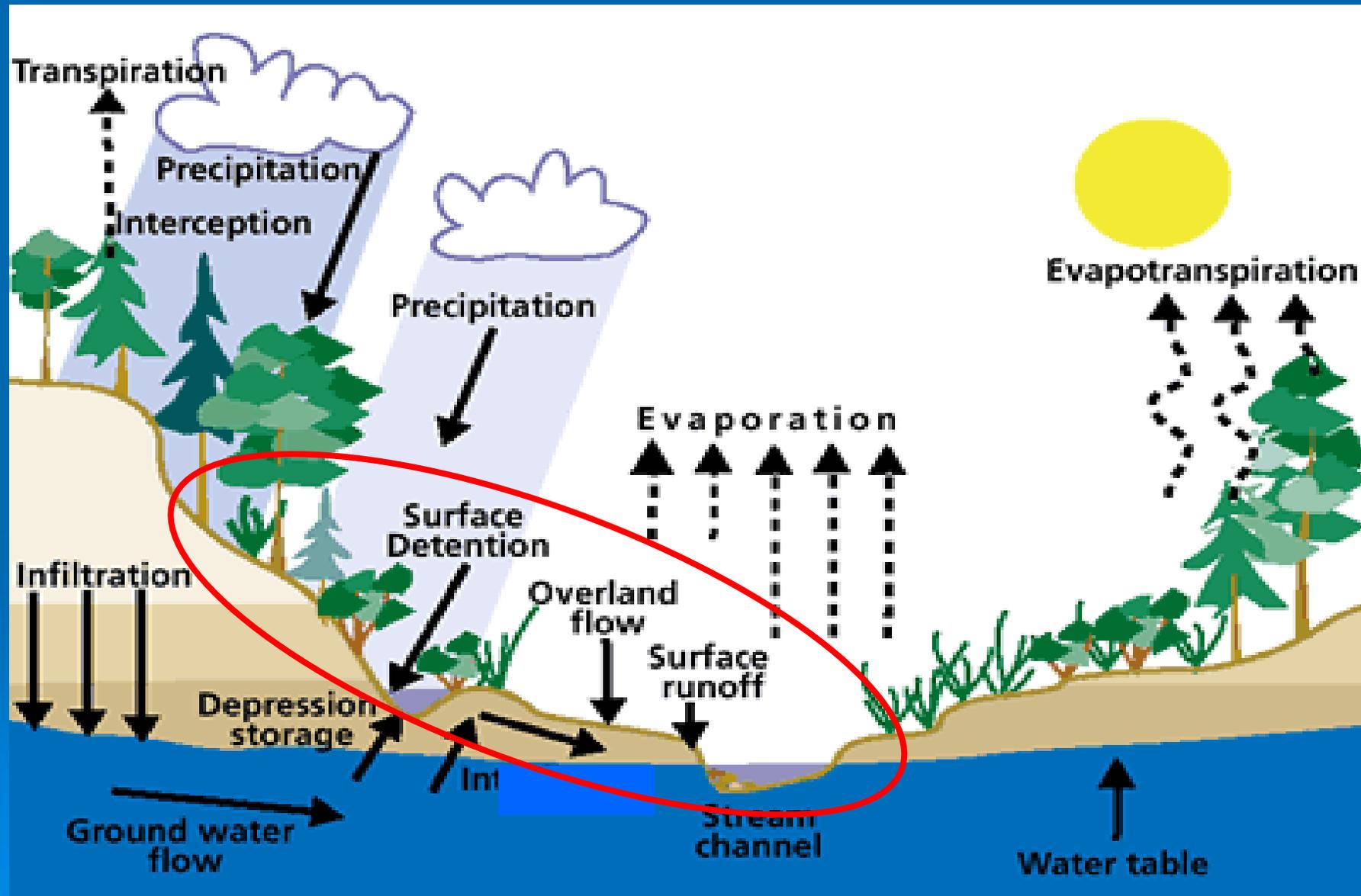


# Stormwater Pollution

occurs when runoff carries  
pollutants into our desert washes:

- ◆ Pet waste
- ◆ Oil & Grease
- ◆ Gasoline
- ◆ Trash
- ◆ Paints & Solvents

# Hydrologic Cycle and Water Sources



# Methods of Protecting Stormwater

- Public outreach
- Prevent pollution with good housekeeping practices
- Inspection of places likely to have pollutants
  - Construction Sites
  - Industrial Facilities
  - Storm drains and drainage channels
  - Reports of pollutants or suspicious looking water
- Monitor stormwater

# PDEQ's *Stoppin' the Droppin'* 2012 Campaign



# Myth buster Fact

Pet poop does **not** make good fertilizer.  
**It is toxic.**

- ◆ EPA deemed pet waste a “non-point” source of pollution in 1991, which put poop in the same category as oil & toxic chemicals.
- ◆ A single gram of dog poop can contain 23 million fecal coliform bacteria.

# Negative impact on water quality

- ◆ How many days of dog droppings from how many dogs does it take to close a bay & all watershed areas within 20 miles to swimming & shell fishing?

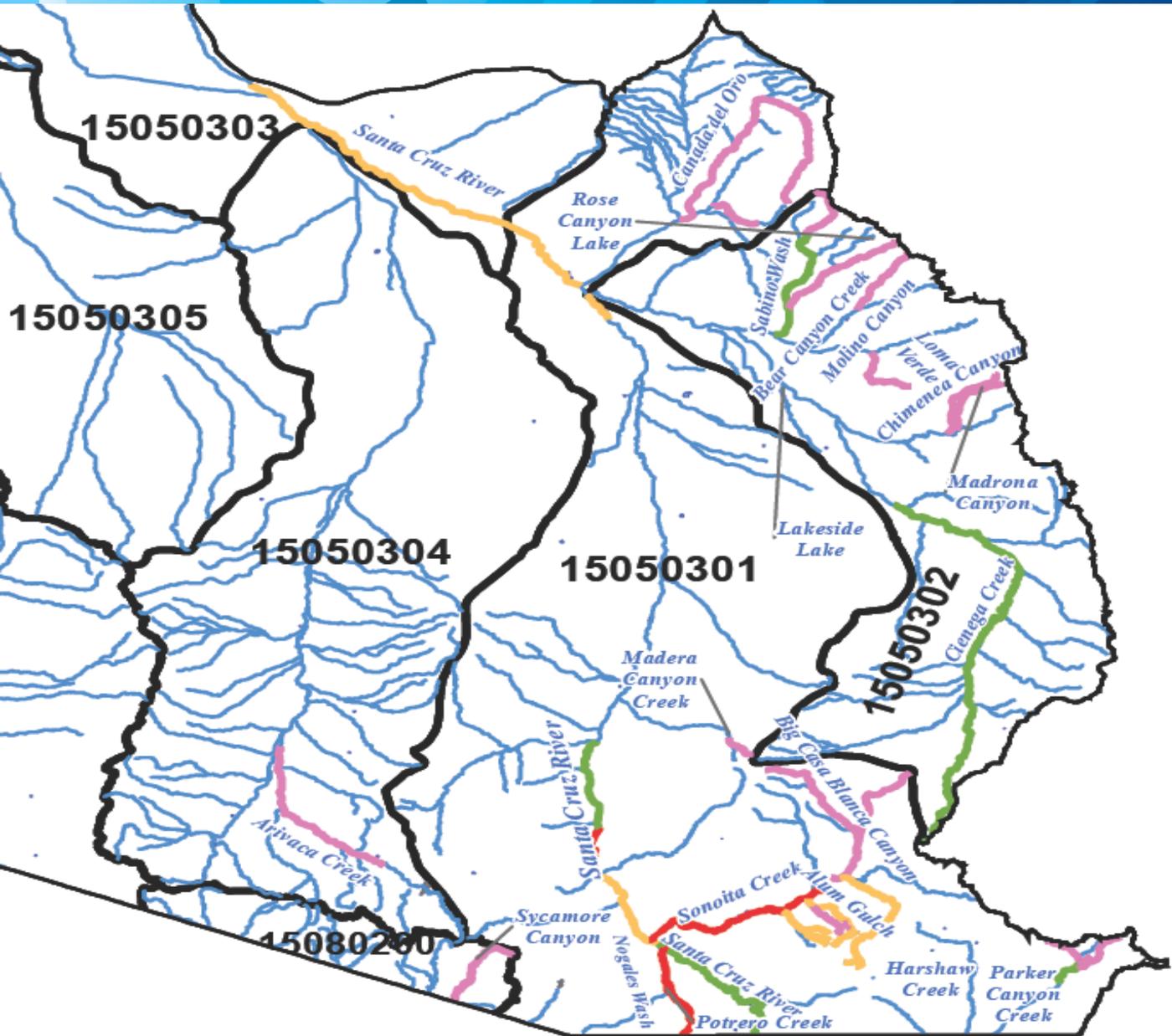


# Desert region vs. other regions



- ◆ Monsoons and winter rains
- ◆ Temporary water bodies
- ◆ Impact on desert watersheds

# Our Desert Region



**Legend**

- HUC Watershed Boundaries
- Lakes
- Streams

**Assessed Streams**  
**ADEQ and EPA Listings**

- Attaining
- Inconclusive
- Not Attaining
- Impaired
- EPA Impaired

**Assessed Lakes**  
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# Public health nuisance



# Stoppin' the Droppin' Art Gallery *E. coli*





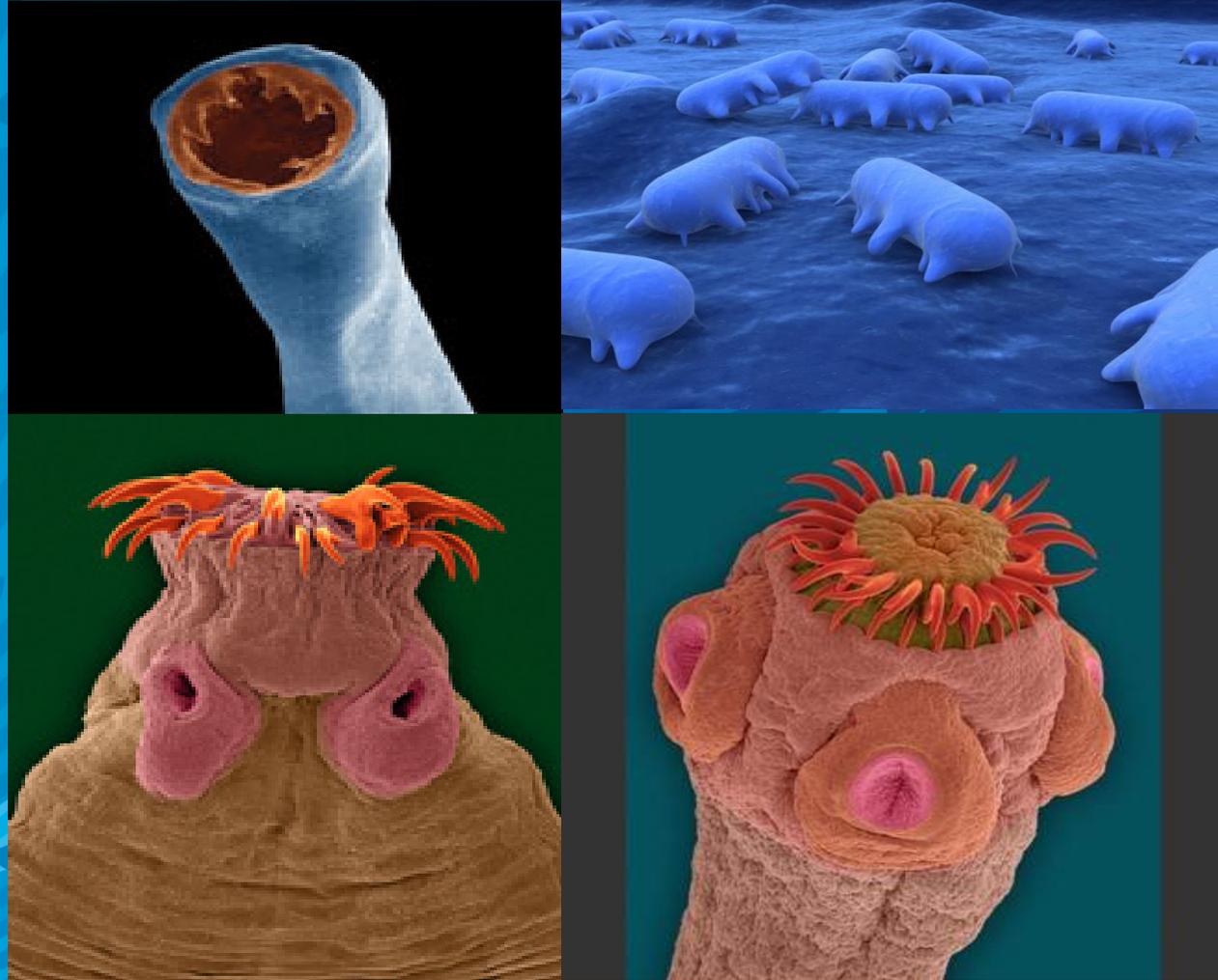
# Potential Health Impacts of Escherichia coli Bacteria

- Cramps
  - Diarrhea
  - Intestinal illness
  - Urinary tract and kidney infections
- 

# Stoppin' the Droppin' Art Gallery



# Stoppin' the Droppin' Art Gallery



# Protect Our Children & Pets



# We need clean water

1. Essential for **life support & vitality**
  - Hydration ~1/2 gal/day (~ 2 liters/day)
2. Essential for **hygiene** ~ 8 gal/day (~ 35 liters/day)
3. Essential for **food** ~1,700 gal/day (~ 7,742 liters/day)
  - Vegetables, fruit, grains
  - Fish, Poultry, Meat
4. Important for aesthetics & recreation

# Protecting the Nation's Waters

Constitution of United States

Clean Water Act  
(Pollution Prevention)

National  
Pollutant Discharge Elimination System

Arizona  
Pollutant Discharge Elimination System



# What We Can Doo!



# Install Pet Waste Station & Garbage Cans



# Slow it down & Soak it in!



# Good Housekeeping



- Store chemicals
- Apply pesticide, herbicide & fertilizer to minimize runoff

# Recycle Household Hazardous Waste



# Harvest Rainwater



# Let us know about environmental concerns!

- ◆ Contact us
  - ◆ Phone: 520-724-7400
  - ◆ Website: <http://www.deq.pima.gov/complaints/compform.html>
- ◆ Describe what you observe (see, hear, smell), where you observed it, and when.
- ◆ We perform inspections and work with the source of the concern to do clean-up!

# Ways to Protect our Stormwater Quality

- ◆ Scoop the poop
- ◆ Fix your leaky car
- ◆ Harvest rainwater
- ◆ Don't be a litterbug!
- ◆ Reduce, reuse, recycle
- ◆ Slow it down and soak it in
- ◆ Dispose of hazardous waste properly
- ◆ Apply pesticide, herbicide, & fertilizer to minimize runoff

# The Dung Beetle Story



# Outstanding Planetary Citizens!



# Taking Care of Business

**Until they can take care  
of their own business,  
it's your business.**



Let's keep Bend dog-friendly by being responsible dog owners. For your convenience, Bend Park and Recreation is providing dog clean-up stations in parks. But don't just rely on those. It's always a good idea to carry your own bags. So unless you've got your dog thoroughly toilet trained—don't forget, clean up after your pet. Find out how to get involved by contacting Softpaws, a volunteer group advocating responsible dog ownership, at [www.softpawskg.org](http://www.softpawskg.org).

**De-Poop-De-Park**

Dog Waste Clean-Up Campaign

Brought to you by Softpaws and Bull Wear.  
Together promoting responsible dog ownership.

Bend State Parks and Recreation District • Mt. Bachelor Ski Area • Deschutes Veterinary Clinic  
Bend Pet Supply • Bend Iron Bridge • Doggy Studies • Second Street Arts • The Bulletin



# Sources of Information

- Rainfall Data: <http://rfcd.pima.gov/wrd/alertsys/index.htm>
  
- Stormwater Information
  - Pima County:  
<http://www.deq.pima.gov/water/stwmngmprog.html>
  
  - Arizona:  
<http://www.azdeq.gov/environ/water/permits/stormwater.html>
  
  - EPA: [http://cfpub.epa.gov/npdes/home.cfm?program\\_id=6](http://cfpub.epa.gov/npdes/home.cfm?program_id=6)



# Contact Information

## Pima County Stormwater Management Program

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