Watershed Free! Map



Thank you for keeping our washes clean!

If you encounter illegal dumping, persistent pet waste or other wash concerns within Tucson, call (520) 791-5843. Outside of city limits, call (520) 724-7400.

Household hazardous waste (HHW) items such as leftover oil and chemicals can be properly disposed of and recycled at multiple locations and events or scheduled for pickup. Call HHW at (520) 888-6947.

Additional resources, such as Regionwide Adopt-a-Site contacts, are available at PAGstorm.com.

This pocket guide is brought to you by Pima Association of Governments, the region's council of governments, metropolitan planning organization, and designated planning agency for areawide water quality planning, with a goal to enhance our region's livability by improving our regional mobility and sustainability.



Enjoy your watershed!

This map highlights destinations with flowing water, southwestern wildlife habitat and urban stormwater harvesting features that green our streets.

The neighborhood diagram illustrates tips for reducing pollution and shows how to better use stormwater in our yards.

The map is intended for educational purposes. Please use more detailed navig Please use more detailed navigational map resources when visiting sites. Tread lightly and safely as you visit the region's treasured water sites. Pima Association of Governments is in no way responsible for personal injury, damage to property, or violation of the law in connection with the use of this guide.

A Day in the Life of a Rain Drop

Once a raindrop hits the ground, it becomes stormwater. As stormwater flows, it picks up pollutants left on yards, sidewalks and driveways.

Stormwater pollutants include motor oil, brake and tire residue, pet waste, yard chemicals, litter, paint, and chemicals washed from cars, including soap.

- Our streets transport stormwater and additional pollutants through our neighborhoods.
- Stormwater flows from streets to stormdrains, which lead to underground pipes that empty directly into our desert waterways.

A common misconception is that stormwater gets cleaned at a treatment plant. This is not true in Pima County.

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As the water flows away or evaporates, pollutants and trash collected from across the watershed accumulate in our fragile desert washes.

7 Plants and animals depend on clean water as much as people do. Even when washes are dry, critters rely on healthy washes for food, shelter and passage.

Solutions to Pollution

- Don't forget to scoop the poop. Clean up after your pet.
- Welcome the desert rains into your landscape. When stormwater is harvested it breaks down pollutants and is purified within the soil, thus protecting our washes with the help of plants.
- Fix leaky vehicles. Use a drip pan and clean up spills with absorbent materials. Recycle used fluids at auto shops.
- Instead of driving your car, help prevent pollution by riding the bus, bike, carpool or walk.
- Use commercial car washes, where water is recycled. Or at home, use biodegradable soap and wash your car where the water can soak into the ground.
- Don't be a litterbug. Kudos to those who adopt a wash to help clean up.
- Properly dispose of chemicals at a Household Hazardous Waste facility. Never dump them onto the ground or into stormdrains.
- If you must use toxic products, such as herbicides, pesticides or fertilizers, store them safely and don't apply them outside if a storm is expected within three days.

Green our Streets

Enhance your habitat by digging a sunken rain garden filled with mulch and native vegetation to help capture stormwater.

Add raised earthen berms to help slow yard runoff and to keep yard chemical choices on site.

Install cisterns or rain barrels on your property to collect water from your roof.

Use gutter downspouts to direct water to your plants.

E Use porous materials that allow water to sink in, or direct runoff from hard surfaces to benefit your yard.

Use curb cuts with sediment traps (F to pull stormwater off the street and filter it in small basins.

Street bump-outs and roundabouts G can direct stormwater to landscaped areas while also calming neighborhood traffic for biking, walking and children at play.

> Vegetation thrives with this additional water resource. This green stormwater infrastructure additionally enhances our community livability because it shades pathways, cleans the air, saves potable water and improves soils!



Healthy water matters

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Pet waste can affect the health of our water. In fact, pet waste is a primary pollutant in stormwater.

IT ALL ADDS UP The 230,000 dogs in Pima County can produce 63 million 3 5 pounds of feces each year. Just I gram of pet waste can contain 23 million fecal coliform bacteria.

THE EVIDENCE IS HERE Locally, fecal contamination levels in stormwater have been found to be unsafe for swimming.

THE CONCERN IS REAL Bacteria, viruses and parasites in pet waste can cause intestinal illness and serious kidney disorders

in people and animals.

THE IMPACT IS LASTING Pet waste does not decompose easily into safe fertilizer. Certain parasites can survive in the soil for years.

GOOD NEWS Pet waste contamination in washes is preventable.

SCOOP IT. BAG IT. TRASH IT. Learn how stormwater harvesting helps to break down pollutants and prevent accumulation in our washes.















Catalina



Santa Catalina Mtns

<u>Igua Calient</u>



Natershed Map

Eastern Pima County, Arizona



Aaua Caliente Springs *Reparian areas support watchable wildlife*

Sustaining our watershed heritage

Our region has the longest history in North America of continuous cultivation of the land. This is possible due to our heritage of precious desert waters that also support renowned wildlife diversity.

As our communities grew, however, groundwater pumping and drought lowered the level of our groundwater table that had sustained creeks and sensitive riparian areas. Urban development also influenced the watershed by causing more runoff, erosion and heat. Stormwater runoff can carry pollutants from urban areas to desert washes, where contaminants accumulate in important wildlife habitat. Fortunately, the story doesn't end there.

Regional restoration and conservation efforts have made a positive impact on the watershed, placing our communities on the map as leaders in sustainability. Yearround flows, habitat and fish have returned to the Santa Cruz River in new areas through beneficial use of treated effluent. Streets designed with green infrastructure help to mimic natural washes by capturing stormwater to sustain vegetation. This process breaks down pollutants in soils, saves water, improves infiltration, provides cool tree shade, calms traffic and makes neighborhoods more vibrant. Visit restoration demonstration sites and our desert waterways to discover their sustaining role in our communities.

Santa Cruz River - then and now



Flows restored with high quality effluent



Flowing rivers attract ecotourists and birders

- Serpentine Walls on Desert Discovery 5 El Ojito Historic Spring by La Palita Museum 420 S. Main St.
 - 6 Mission Garden
 - 4,000-year-old flood plain agriculture site
 - Bank protection, ecosystem restoration and river park. Prehistoric pit houses. Site of mid-1800s Silver Lake. Dam supported a flour
 - mill, swimming, bath houses, hotel and
 - Gila Topminnow, an endangerred resident of perennial desert waters



Wild Burro Trail North End of Dove Mountain Blvd.

- 2 Silverbell Lake
- 4600 N. Silverbell Rd. 3 Arroyo Chico Wash Greenway
- 4 Julian Wash Greenway
- Southeast of Montrose Pools
- 7 Marshall Gulch Trailhead End of Mt Lemmon Hwy. 8 Seven Falls on Bear Canyon Trail
- Sabino Canyon Recreation Area or Bear Canyon Rd. Trail, N. of Snyder Rd. 9 Chiva Falls Off Reddington Rd.
- 10 Tanque Verde Falls S. of Redington Rd., Perennial flow







Keep our waterways clean. Always scoop poop along The Loop!

- 3100 3400 E. Arroyo Chico
- 5 Atterbury Wash, Lakeside Park
- South of Valencia Rd. on Kolb Rd. Golf Links Rd. / Sarnoff Drive Conserve2Enhance site
- **Christopher Columbus Park**

6 Romero Pools at Catalina State Park 11 Douglas Spring-Bridal Wreath Falls

- End of F. Speedway Blvd., Overnight permit required in Saguaro National Park 12 Rincon Creek
- Arizona Trail passage #8 via Hope Camp Trail
- 13 Posta Quemada Wash Trail, **Colosal Cave Mountain Park** 14 Las Cienegas National
- Conservation Area Hwy 83 & Empire Ranch Rd.

Whetstone Mtns

2 Marana Heritage River Park 12375 N. Heritage Park Drive 3 De Anza National Historic Trail

Picnic Area

Pima Association of Governments

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Spanish expedition followed the river in 1775, Trailhead at El Rio Preserve 4 Tumamoc Hill Desert Laboratory

Trail; Saguaro National Park West,

1930's CCC check dams, near Sus

Historic cistern renovation and prehistoric water-harvesting trincheras

Restoration of 18th century garden and 7 Paseo de las Iglesias Aio Way to Silverlake Road

