

Riverside County Flood Control and Water Conservation District

Jason Uhley
Assistant Chief Engineer



Riverside County Flood Control and Water Conservation District



☞ Water Quality

☞ Water
Conservation

☞ Flood Hazard
Management

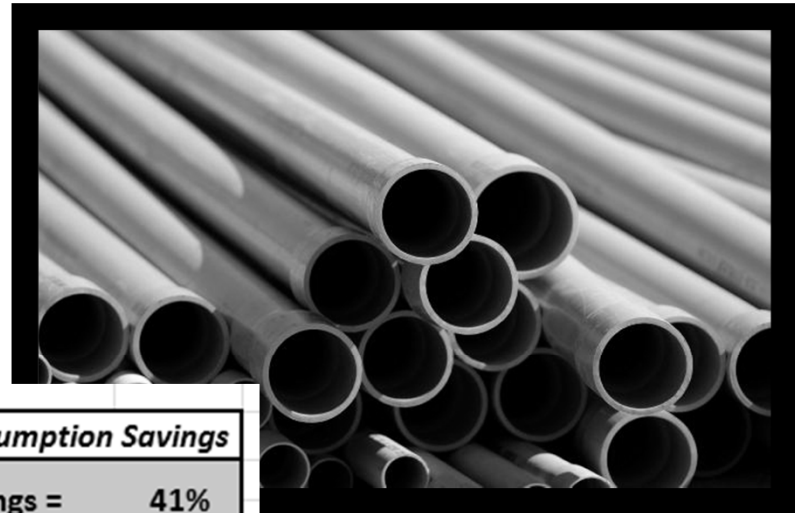
2011 Headquarters Low Impact Development and Water Conservation Retrofit



RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
Low Impact Development Testing and Demonstration Facility – Post-Project



2011 Headquarters Low Impact Development and Water Conservation Retrofit



Facility Water Consumption Savings

Dry Season Savings = 41%

Wet Season Savings = 29%

Water Conservation

California's Mediterranean climate includes long dry summers and the periodic absence of winter rains - water is a precious and often scarce resource. Riverside County averages only 12" of rainfall annually, with projected population growth. It is estimated that by 2020 the State will face annual water shortages, even during years of regular

rainfall. This makes water conservation a critical component of development. Water conservation is a management and drought tolerant landscape strategy that means increasing the capacity of the soil, fostering beneficial water recycling alternatives.

High-Efficiency Irrigation System

Every drop of water that is supplied to the landscape by irrigation should be protected from loss due to evaporation, overspray or runoff. Irrigation systems that do not leak, overspray or spray water are critical to conserving water.

High-efficiency irrigation systems include:

- Drip and subsurface irrigation technologies apply water accurately to the plant root zones.

Low flow sprinkler heads apply water uniformly and slowly and improve the efficiency of turf and groundcover irrigation.

Moisture sensors in the soil assess whether irrigation is required, so no water is used unnecessarily.

High-efficiency systems not only limit evaporation and runoff, but also prevent disease and minimize weed growth.

California Friendly Plants

Plantings in this installation make use of California native and Mediterranean plants that have evolved to live easily with our soils, wildlife and climate. Many natives, as well as many Mediterranean species, tolerate dry summers with little or no water once they are established. This greatly reduces the need for irrigation.

Approximately 210 plant markers are distributed throughout the site highlighting approximately 100 species of plants.

Appropriately sited native or Mediterranean type plants require less soil preparation, watering, mowing, fertilizing and spraying, all of which promotes healthy soil that stores water and nutrients.

As a storage reservoir for both water and nutrients, healthy soil has a greater holding capacity than soils that lack sufficient organisms, organic matter and pore spaces. Healthy soil regulates and partitions water flow, naturally

maintaining the water cycle by slowly discharging to streams, lakes and recharging aquifers. Healthy soil is the site of intensive physical, chemical and biological activity, thus it can prevent water and air pollution. Soil rich in organic matter contains microorganisms that can immobilize or degrade pollutants. A list of California Friendly plants can be found at www.rcfood.org/LID.aspx.

Recycled Water

Recycled water (also called reclaimed water) refers to treated wastewater of a quality suitable for landscape irrigation but not human consumption. Greywater (wastewater from bathroom sinks, showers, bathtubs and washing machines that is not contaminated by human waste) can also be used for irrigation.

While we have not yet implemented the practice, our high-efficiency irrigation system has been built to utilize recycled water when it becomes available.

Purple pipe denotes non-potable water.

Low Impact Development, Water Conservation Demonstration and Testing Facility

For more information about this project, please visit our website: www.rcfood.org/LID.aspx



Web Based Support Tools for Water Resource Planners, Developers, and the Public

The screenshot shows the homepage of the County of Riverside Drought Portal. The browser address bar displays <http://rcflood.org/DroughtPortal/>. The page features the County of Riverside logo and the title "Drought Portal". A navigation menu includes "Drought Home", "What You Should Know", "Conservation Tips", and "Rebates, Discounts and Loans". A central text block states: "Riverside County is facing an unprecedented drought. Without conscientious action by local residents, business and governments the drought has the potential to impact our quality of life, environment and economy. This site is dedicated to providing drought education, tools and resources that can help our communities effectively respond to this significant issue." Below this are three main content areas: 1) "Learn About the Drought" with a map of California showing drought-affected regions; 2) "Conservation tips for your Home or Business" with an image of a sprinkler; 3) "Rebates, Discounts, and Loans to assist with drought proofing your Home or Business" with a circular icon containing a house and a dollar sign. A "Drought Monitor" section includes a "Daily Water-Saving Tip" (turning off the faucet while brushing teeth, saving 54 gallons) and a gauge showing "Southern California's Water Reserve Levels" from 2012 (Full) to 2015 (Empty). A "Latest News" section lists links for California Drought Portal, Gov. Brown's Resolution, DWR Drought Portal, Bewaterwise.com, and OES and the Drought.

http://rcflood.org/DroughtPortal/

COUNTY OF RIVERSIDE CALIFORNIA

Drought Portal

Drought Home What You Should Know Conservation Tips Rebates, Discounts and Loans

Riverside County is facing an unprecedented drought. Without conscientious action by local residents, business and governments the drought has the potential to impact our quality of life, environment and economy. This site is dedicated to providing drought education, tools and resources that can help our communities effectively respond to this significant issue.

Learn About the Drought

Conservation tips for your Home or Business

Rebates, Discounts, and Loans to assist with drought proofing your Home or Business

DAILY WATER-SAVING TIP
54
Turn off the faucet while brushing your teeth.
WATER USE IT WISELY

How Significant is the Drought?
SOUTHERN CALIFORNIA'S WATER RESERVE LEVELS

FULL 2012
2013
2014
EMPTY 2015

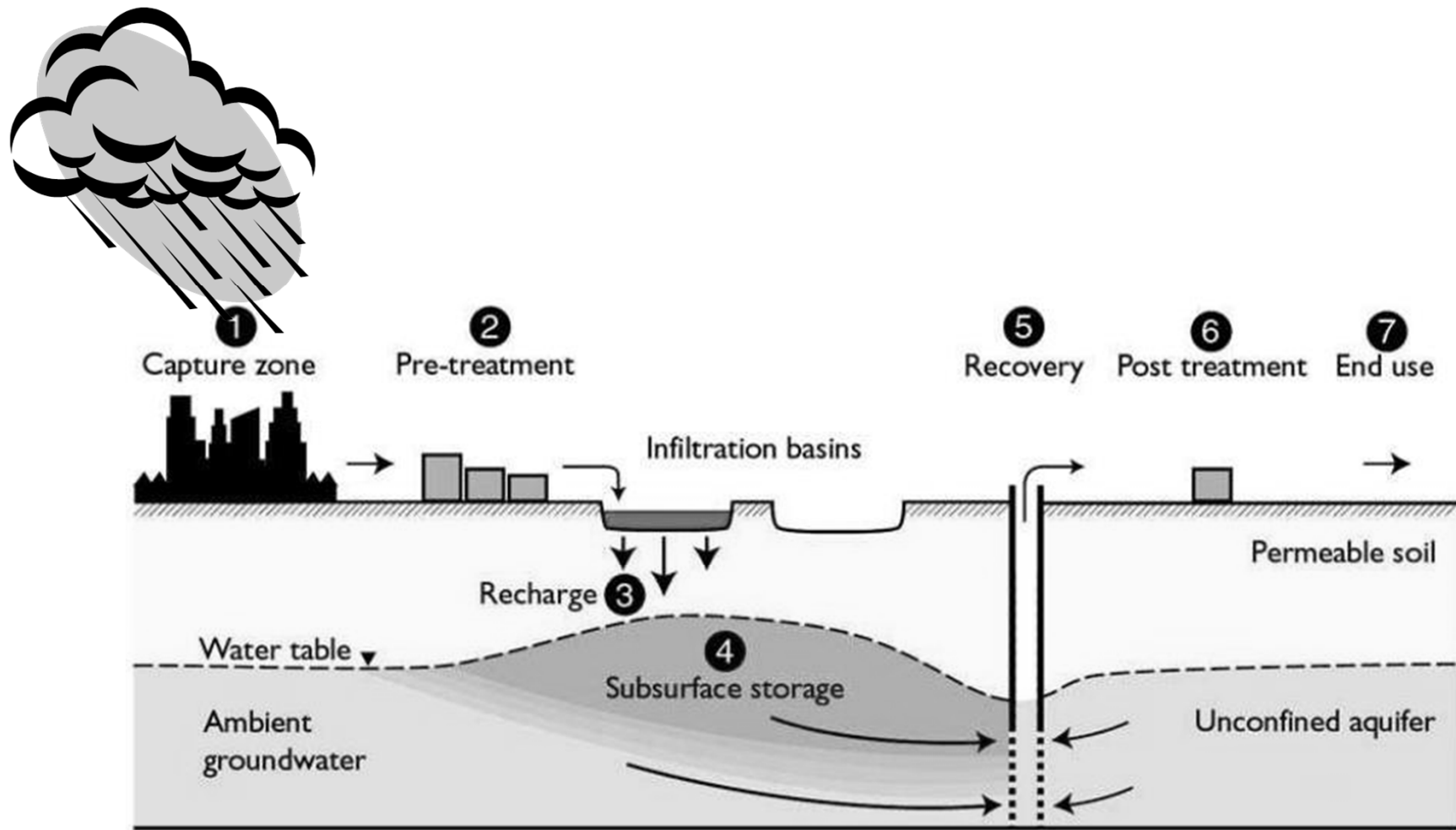
LEARN MORE:
ABOUT WATER RESERVES
WATER SAVING TIPS & REBATES

DON'T WASTE ANOTHER MINUTE WASTING WATER
KEEP THE NEEDLE IN THE BLUE

Drought Monitor

Latest News
California Drought Portal
Gov. Brown's Resolution
DWR Drought Portal
Bewaterwise.com
OES and the Drought

Enhancing Local Water Supplies and improving Water Quality through Stormwater Capture Partnerships



Desert LID Practices



Enhancing Local Supplies and Improving Drought Resilience through Effective Stormwater Management

Goal: Manage stormwater in a manner that supports livable communities, a healthy environment and continued economic growth.

- Today- Reduce water use
- Long Term – Manage stormwater as a resource

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Questions?

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