

Overview of Riverside Public Utilities - Water & Riverside Habitat, Parks, and Water Project

INLAND EMPIRE CHAPTER WATER REUSE ASSOCIATION

May 21, 2019





City of Riverside Mayor & City Council

Rusty Bailey Mayor



Chuck Conder Ward 4

Mike Gardner Ward 1





Chris Mac Arthur Ward 5

Andy Melendrez Ward 2





Jim Perry Ward 6

Mike Soubirous
Ward 3





Steve Adams
Ward 7

City of Riverside Board of Public Utilities Members



Jo Lynne Russo-Pereya Board Chair Ward 4/Citywide



David Crohn Ward 1/Citywide



David Austin Ward 4



Jennifer O'Farrell Ward 1



Andrew Walcker Ward 5



Ana Miramontes Ward 2



Jeanette Hernandez Ward 6



Elizabeth Sanchez-Monville Ward 3



Gil Oceguera Ward 7

City of Riverside Public Utilities Executive Management

Todd Corbin Utilities General Manager





Daniel E. Garcia
AGM – Power Resources



George Hanson AGM – Energy Delivery



Brian Seinturier Fiscal Manager



Todd Jorgenson AGM - Water



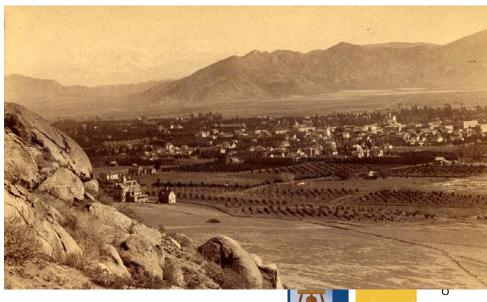
WATER DIVISION OVERVIEW

- 1. Riverside's Municipal Water Utility was established in 1913
- 2. Service Area Size: 74 square miles
- Provide potable, non-potable, and recycled water to retail and wholesale customers.
- 4. 157 Employees.
- 5. Replacement value of the Water System is estimated at over a billion dollars.

EARLY RIVERSIDE

- 1. Southern California Colony Association, 1870
- 2. First Santa Ana River diversion, 1871





CITRUS









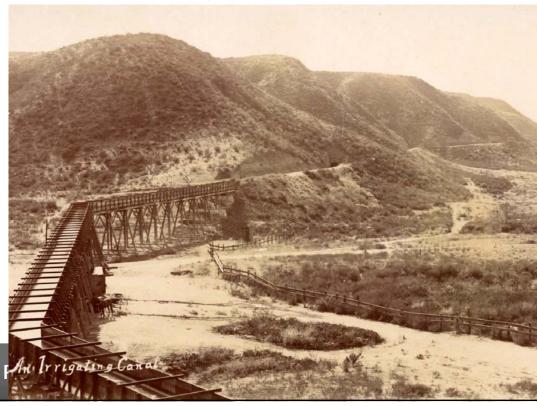
EARLY WATER DEVELOPMENT



WATER RIGHTS

1. Established Riparian & Appropriative Rights

2. Consolidation



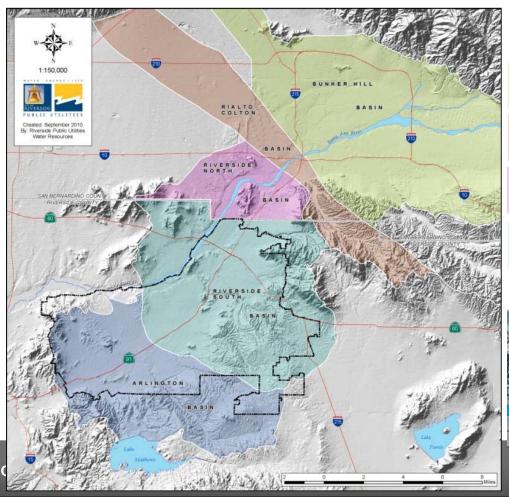


WATER SYSTEM

- 1. 56 Domestic wells
- 2. 65,428 meters
- 3. 144 Booster station pumps
- 4. 1,003 miles of pipeline
- 5. 6 Treatment Plants
- 6. 16 Reservoirs



RIVERSIDE'S GROUNDWATER RIGHTS



Extraction/Export Rights

Bunker Hill

• 55,263 AFY Export

Colton

• 2,728 AFY Export

Riverside North

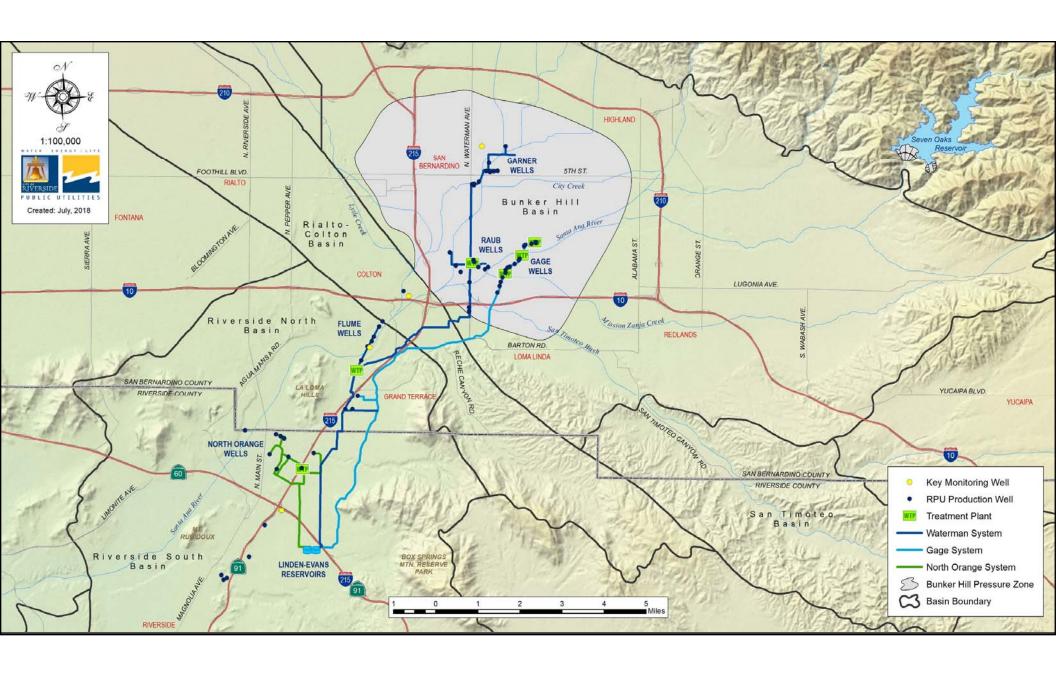
• 10,902 AFY Export

Riverside South

• 16,880 AFY Extraction

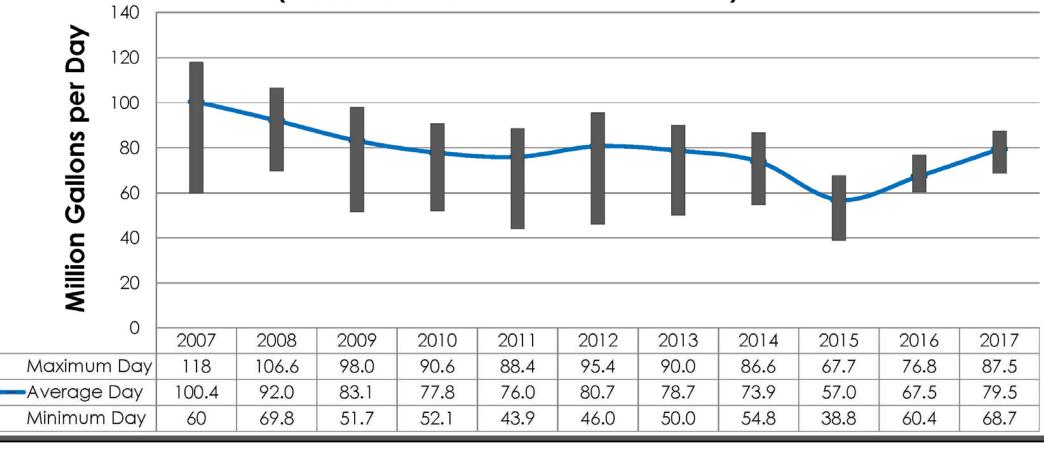
85,773 AFY Total





WATER DEMAND

RPU Summer Period Water Consumption Variation (Summer Period = June 15 to October 15)



WATER SUPPLY OPPORTUNITIES

Begins with Cooperative Partnerships

- 1. Stormwater
 - a. Enhanced Recharge (SBVMWD/WMWD/RPU)
 - b. Active Recharge (SBVMWD/WMWD/RPU)
 - c. Rubber Dam (SBVMWD/WMWD/RPU)
 - d. Local Flood Control Basins (Riv County Flood/RPU)
- 2. Recycled Water Reuse
 - a. Riverside Habitat, Parks, and Water Project (SBVMWD/HCP/RPU)
 - b. Jackson Street Pipeline, Phase 2 (WMWD/RPU)
- 3. Water Conservation
 - a. Water Use Efficiency Programs (WMWD/RPU)
 - b. Demand Management



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SAR HABITAT CONSERVATION PLAN

- Water Agencies working with Wildlife Agencies & NGOs to promote and mitigate the impacts to endangered species, enabling construction of new water supply projects on a regional scale
- 2. Pre-mitigating for potential impacts to 23 native species and creating bank
- 3. Protects minimum flow needs for species
- 4. Provides platform to maximize ecological value of water



SAR HCP RESTORATION EFFORTS

- 1. Tributaries
 - a. Anza (prop 84)
 - b. Old Ranch Creek (prop 84)
 - c. Hole Creek (prop 84)
 - d. Hidden Valley Creek (prop 84)
- 2. Hidden Valley Wetlands
- 3. Evans Creek & Wilderness area











NEED RELIABLE WATER SUPPLY



Old Farm Rd.



Hole Creek

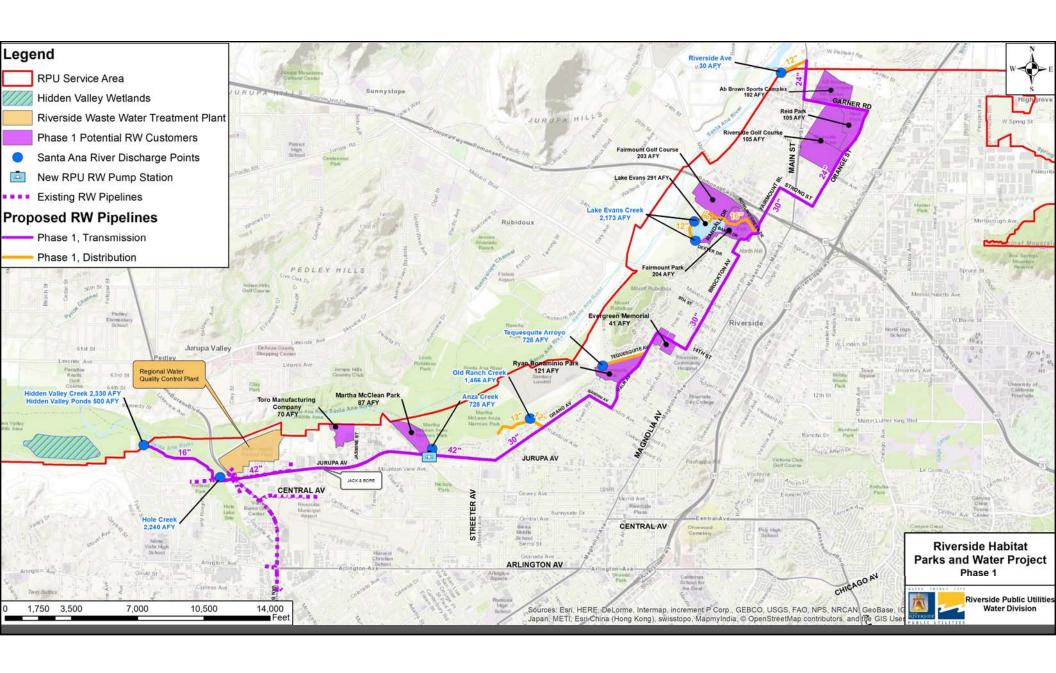


Hidden Valley



RIVERSIDE HABITAT, PARKS & WATER PROJECT BACKGROUND

- 1. Regional Recycled Water Concept Study, WSC 2016
 - a. Collaborative effort led by Valley District to build partnerships, identify regional recycled water projects & rank the projects in terms of cost and benefit
 - b. Project was conceived to support the HCP and to deliver recycled water to irrigation customers.
 - Recognized as one of the top recycled water projects within the region because of its financial, social & environmental strengths



PROJECT DISCHARGE BASICS

- 1. Riverside Narrows Discharge (15,250 afa)
 - a. Hidden Valley Wetlands c. Hole Creek
 - b. Hidden Valley Creekd. RWQCP Outfall
- 2. Upstream Discharge (5,000 afa)
 - a. Anza Creek

c. Tequesquite Arroyo

- b. Old Ranch Creek
- d. Evans Creek
- 3. Recycled Water (4,750 afa)

PROJECT BENEFITS

- 1. Water Reuse on regional, integrated scale
- 2. Habitat creation, improvement & sustainability
- 3. Enables construction of HCP water supply projects
- 4. Provides a drought proof supply to tributaries and parks and provides a primary/secondary water supply
- 5. Creates a new production right from the SBBA for RPU
- 6. Improved water quality (replacing dry-weather flow)
- 7. Public outreach & education components



NEXT STEPS

- Initiate the Riverside-Valley District Partnership through an MOU & present it to respective governing Boards/Council for consideration & support (2019)
- 2. Collaborate with Environmental groups (2019)
- 3. Planning/Design/Permits/Agreements (begin in 2019)
- 4. Construction (TBD)



