

THE UPPER SANTA ANA RIVER WATERSHED INFRASTRUCTURE FINANCING AUTHORITY JPA

Public Utilities Department

City Council September 6, 2022

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Upper Santa Ana River Habitat Conservation Plan (HCP)

From Conflict to Collaboration



Santa Ana River Watershed Challenge







- ☐ How do we meet water supply needs while protecting the needs of a functional riverine ecosystem
- ☐ How do we work together to maximize the value of local water resources for all agencies

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Old Strategy: Litigation Santa Ana River Lawsuit Appeals Expanded Critical Habitat Santa Ana Sucker, Little Fish at Center of Water Agencies' Suit Against Feds, Gets a **Legal Assist** Submitted by Matt Williams on Wed, 06/05/2013 - 1:01pm in Endangered and BY MATT COKER TUESDAY NOVEMBER 22 2011 -for Santa Ana Sucker Threatened Sucker Fish, Strangles Water Supplies Santa Ana Sucker Fish Critical Habitat Designation ENDANGERED SPECIES: Challenged in Court Calif, suit over fish habitat balts hook for Supreme Court Southern California water agencies file lawsuit August 24, 2011 Greenwire: Thursday, October 22, 2015 Supreme Court keeps protections for Santa Ana sucker fish

New Strategy: Partnership



- Accept Reality and Plan Accordingly
 - · People need water and so do fish.
 - What's good for the River is good for people.
 - The watershed is interconnected with many stakeholders.
- Failure is not an option
 - · Nobody benefits if we do nothing.
 - The cost is too great for doing nothing.
 - · Working together is the only way forward.
- Inter-Agency Collaboration
 - · Water Districts, NGOs, and Wildlife Agencies work together to find win-win solutions.

Inland Empire water agencies pool resources to save Santa Ana sucker



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HCP: Purpose



Partnership and Collaboration

Regional, comprehensive program:

- ☐ Framework to protect, enhance, restore habitat for species
- ☐ Streamline permitting for projects



HCP Permittees



> HCP Team:

- > 11 water agencies
- San Bernardino Valley Municipal Water District
- San Bernardino Valley Water Conservation District
- San Bernardino Municipal Water Department
- Western Municipal Water District
- East Valley Water District
- West Valley Water District
- Riverside Public Utilities
- Inland Empire Utility Agency
- City of Rialto
- Orange County Water District
- Metropolitan Water District of Southern California
- > Southern California Edison

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ESA Permitting for Covered Species



Plants

Slender-horned spineflower Santa Ana River woolly-star

Fishes

Santa Ana sucker

Arroyo chub

Santa Ana speckled dace

Amphibians and Reptiles

Western spadefoot

Mountain yellow-legged frog

Western pond turtle

South coast garter snake California glossy snake

Mammals

San Bernardino kangaroo rat Los Angeles pocket mouse

<u>Birds</u>

Least Bell's vireo

Southwestern willow flycatcher

Yellow-breasted chat

Western yellow-billed cuckoo

Tricolored blackbird

Burrowing owl

Coastal California gnatcatcher

Cactus wren

Fully avoided species
Delhi Sands flower-loving fly

Arroyo toad



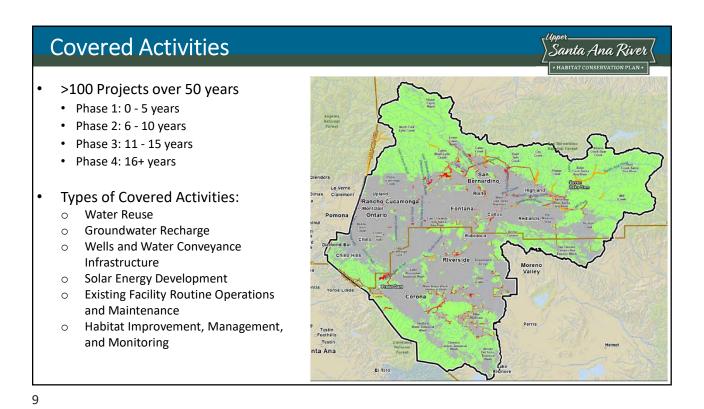




Photo: Connell Lab of Orniti



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Conservation Strategy

PROTECT & REDUCE THREATS

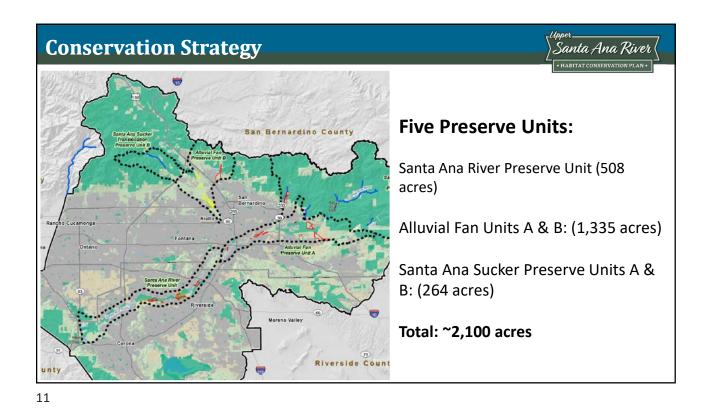
REDUCE THREATS

CREATE MORE HABITAT

CREATE MORE HABITAT

CREATE MORE POPULATIONS

ESTABLISH ADDITIONAL POPULATIONS



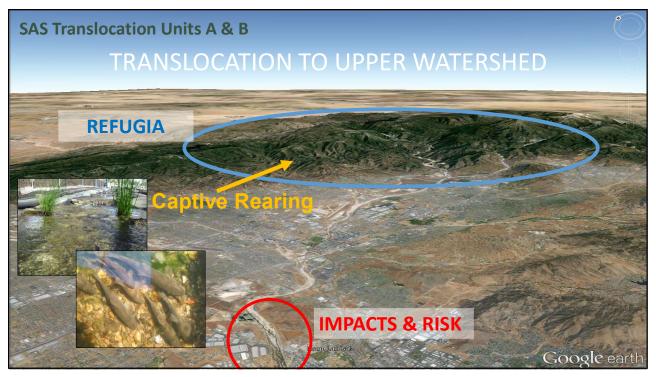


Restoration Sites along Santa Ana River

- Restore riparian habitat
- Create stream habitat
- Conserve and manage
- Provide water supply







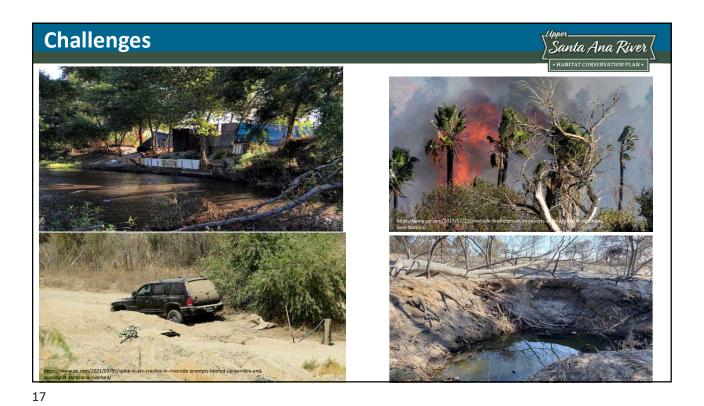


Challenges & Opportunities



Multiple Benefits for Habitat, People, Property

- Creating/Improve habitat
- Provide permanent water supply to restoration sites
- Long-term management and monitoring
- Funded Ranger patrol of restoration sites
- Conservation easements and endowments



Partnerships
Incorporate fire fighting into planning process
Site protection
Strategic access control
Ranger patrols
Trash collection

Trash collection

Prendect go:

Trash collection

Prendect go:

Riverside HOUSING FIRST PLAN
OFFICE OF HOMELESS SOLUTIONS

March 13, 2018
City Council and Housing Authority

Prendect A go:

Riverside Housing First PLAN
OFFICE OF HOMELESS SOLUTIONS

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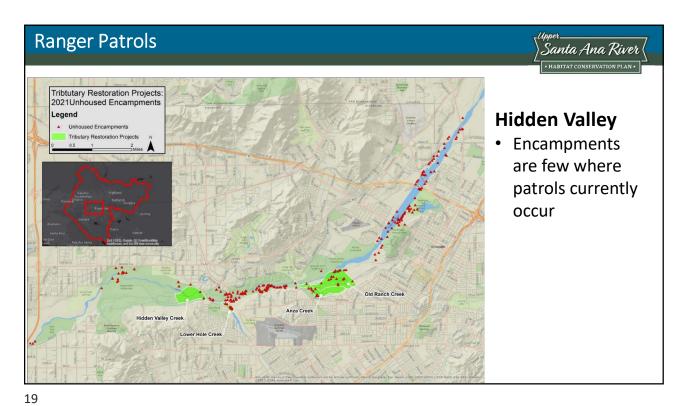
Riverside Housing First PLAN
OFFICE OF HOMELESS SOLUTIONS

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Riverside Housing Authority

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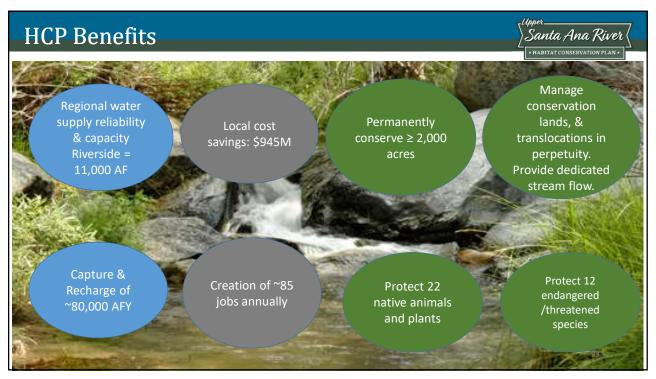
Riverside Housing Authority













BACKGROUND

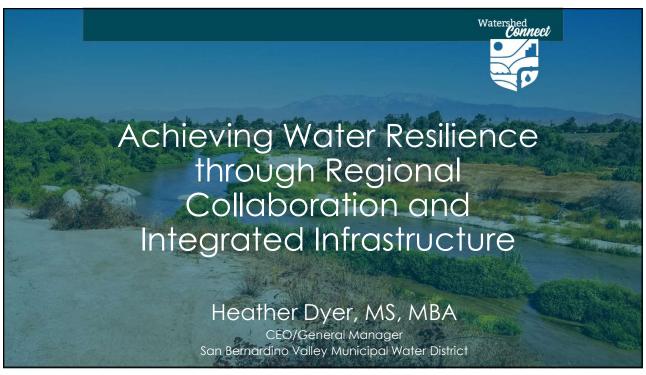
- 1. The Water Infrastructure Finance and Innovation Act of 2014 established the WIFIA Program.
- 2. Administered by the EPA for eligible water and wastewater infrastructure projects, offering low interest, favorable financing.
- 3. San Bernardino Valley Municipal Water District is leading an effort to make WIFIA financing available for the region.
- 4. RPU has an opportunity to partner with the region to be eligible for WIFIA financing for future water supply projects.



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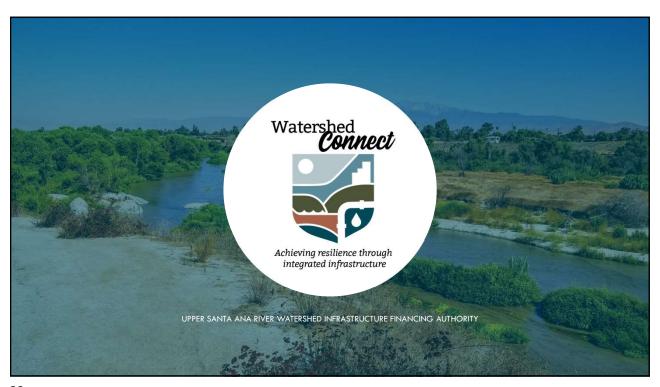
Proactive Water Resources Planning

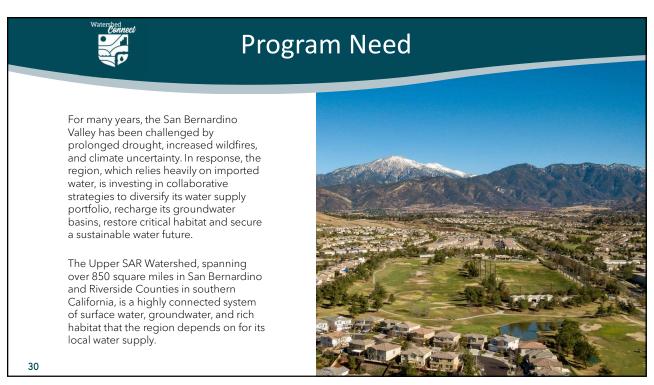
- Stormwater capture maximize local resources
- Recycled Water drought proof supply
- Conjunctive Use Projects shared infrastructure/shared resources
- Groundwater management Proactive/adaptive













Program Description

WATERSHED CONNECT is a **regional infrastructure program**, a network of forward-looking projects designed to achieve water supply reliability, climate resilience, and long-term ecological health of the Upper Santa Ana River (Upper SAR) Watershed.

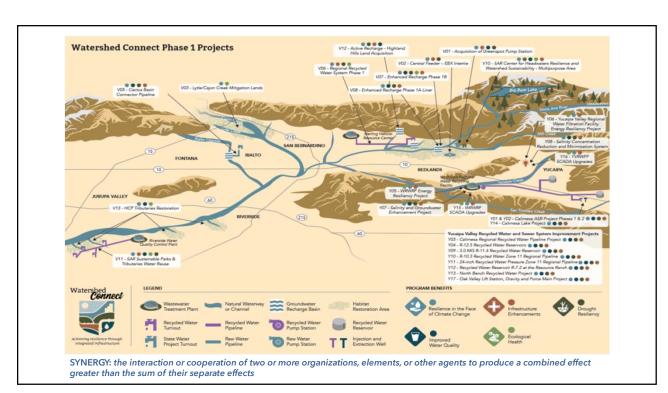
WATERSHED CONNECT is a **multiphase program** comprised of interconnected water capture, recharge, storage, treatment, and conveyance projects. This comprehensive package of infrastructure projects are expected to collectively maximize the use and reuse of local water resources, while attaining a healthy, functional river ecosystem that supports 22 federally and state-protected species

WATERSHED CONNECT innovative approach is expected to maximize program value and offers synergistic benefits to the watershed and its people.

WATERSHED CONNECT's purpose is to achieve regional water supply security, resilience to extended drought and the effects of climate change and holistically enhance the health of the Upper SAR Watershed.

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Opportunity

Water Infrastructure Finance and Innovation Act (WIFIA) is an innovative, federal low-cost, and flexible infrastructure financing mechanism

Valley District and other local water agencies created the Financing JPA and the Watershed Connect Program (~\$0.5 billion of interconnected projects) in 2021 to take advantage of WIFIA

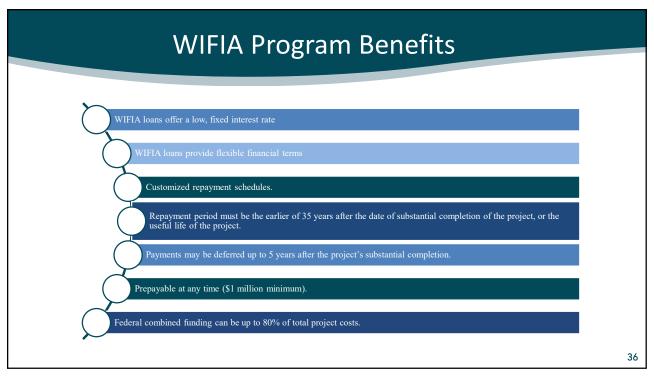
Letter of Interest Submitted on June 23, 2021; Watershed Connect invited to submit a loan application in December 2021

Application submitted in late May for Phase I; regionally approved for WIFIA loan up to \$231 million for capital program

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Phase 1 Projects					
Project Name	Lead Agency				
Acquisition of Greenspot Pump Station	San Bernardino Valley Municipal Water District	\$ 14,000,000			
Central Feeder - EBX Intertie	San Bernardino Valley Municipal Water District	\$ 2,327,000			
Lytle Creek-Cajon Creek Mitigation Lands	San Bernardino Valley Municipal Water District	\$ 11,590,000			
Cactus Basin Connector Pipeline	San Bernardino Valley Municipal Water District	\$ 2,211,000			
Regional Recycled Water System Phase 1	San Bernardino Valley Municipal Water District	\$ 53,073,000			
Enhance Recharge Phase 1B	San Bernardino Valley Municipal Water District	\$ 65,583,000			
Enhance Recharge Phase 1A Liner	San Bernardino Valley Municipal Water District	\$ 970,000			
Headwaters Resiliency Multipurpose Area	San Bernardino Valley Municipal Water District	\$ 32,500,000			
SAR Sustainable Parks and Tributaries Water Reuse	San Bernardino Valley Municipal Water District	\$ 27,745,675			
Active Recharge - Highland Hills Land Acquisition	San Bernardino Valley Municipal Water District	\$ 7,247,000			
HCP Tributaries Restoration	San Bernardino Valley Municipal Water District	\$ 14,294,000			
Calimesa Aquifer Storage and Recovery Project Phase 1	Yucaipa Valley Water District	\$ 12,114,925			
Calimesa Aquifer Storage and Recovery Project Phase 2	Yucaipa Valley Water District	\$ 4,337,448			
Calimesa Regional Recycled Water Pipeline Project	Yucaipa Valley Water District	\$ 5,665,383			
R-12.5 Recycled Water Reservoirs	Yucaipa Valley Water District	\$ 4,752,500			
Wochholz Regional Water Recycling Facility Energy Resliency Project	Yucaipa Valley Water District	\$ 29,967,497			
Yucaipa Valley Regional Water Filtration Facility Energy Resiliency Project	Yucaipa Valley Water District	\$ 16,298,861			
Salinity and Groundwater Enhancement Project	Yucaipa Valley Water District	\$ 34,149,320			
Salinity Concentration Reduction and Minimization System	Yucaipa Valley Water District	\$ 9,501,283			
3.0 MG R-11.4 Recycled Water Reservoir	Yucaipa Valley Water District	\$ 10,864,424			
R-10.3 Recycled Water Booster to R-11.4 Recycled Water Reservoir	Yucaipa Valley Water District	\$ 1,748,520			
24-inch Recycled Water Pressure Zone 11 Regional Pipeline	Yucaipa Valley Water District	\$ 9,370,560			
Recycled Water Reservoir R-7.2 at the Resource Ranch	Yucaipa Valley Water District	\$ 7,664,800			
North Bench Recycled Water Project	Yucaipa Valley Water District	\$ 21,982,020			
Calimesa Lake Project	Yucaipa Valley Water District	\$ 10,001,380			
Wochholz Regional Water Recycling Facility - SCADA Upgrades	Yucaipa Valley Water District	\$ 1,892,576			
Yucaipa Valley Regional Water Filtration Facility - SCADA Upgrades	Yucaipa Valley Water District	\$ 2,830,000			
Oak Valley Sewer Lift Station, Force Mainlines and Gravity System Improvements	Yucaipa Valley Water District	\$ 27,710,060			
Bolded projects are expected to be funded with WIFIA Loan Proceeds.	Valley District Phase 1 Total	\$ 231,540,675			
	YVWD Phase 1 Total	\$ 210,851,557			
	Phase 1 Total	\$ 442,157,232			
	Filase 1 Total	442,137,232			

Project Name		Pro	ject Costs
Acquisition of Greenspot Pump Station	SWP Reserves	\$	14,000,000
Central Feeder - EBX Intertie	SWP Reserves	\$	2,327,000
Lytle Creek-Cajon Creek Mitigation Lands	GF Reserves, Grants	\$	11,590,000
Cactus Basin Connector Pipeline	GF Reserves, Grants	\$	2,211,000
Regional Recycled Water System Phase 1	GF Reserves	\$	53,073,000
Enhance Recharge Phase 1B	Project Partners, WIFIA Loan, Grants	\$	65,583,000
Enhance Recharge Phase 1A Liner	Project Partners, WIFIA Loan	\$	970,000
Headwaters Resiliency Multipurpose Area	GF Reserves	\$	32,500,000
SAR Sustainable Parks and Tributaries Water Reuse	Project Partner, HCP Partners, WIFIA Loan	\$	27,745,675
Active Recharge - Highland Hills Land Acquisition	SBVWCD Active Recharge Transfer Fund	\$	7,247,000
HCP Tributaries Restoration	HCP Partners	\$	14,294,000
Valley District Phase 1 Total		\$	231,540,675



Upper Santa Ana River Watershed Infrastructure Financing Authority

The Upper Santa Ana River Watershed Infrastructure Financing Authority (USAR WIFA), a Joint Powers Authority comprised of water agencies, all of whom rely upon the highly connected tributaries, groundwater basins, and natural ecosystems of the Santa Ana River.











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Joint Powers Agreement

- Agreement was entered into for purposes of assisting in the financing and potential refinancing of projects of the Members
- Members pay into JPA based on proportion of benefits received from program (loan)
- Installment Purchase Agreements ("IPA") authorized by the Authority and Members will set forth rights and obligations of the Members and the Authority with respect to debt and will ensure compliance with provisions of any legal document related to such IPA
- · Members own and operate their facilities/projects
- Any amendment to the JPA requires concurrence by all Members at that time
- The JPA is governed by one Director for each Member

Current USARWIFA Directors					
Paul Kielhold	Chair	Valley District			
Lonni Granlund	Member	YVWD			
Daniel Cozad	Member	SBVW Conservation District			
Miguel Guerrero	Member	SB Municipal Utilities Department			



Benefits



Resiliency in the face of climate change: The collection of forward-looking recycled water, stormwater capture, groundwater storage, alternative energy, and ecosystem restoration projects are expected to improve water supply security. Investments in alternative water supplies, emergency storage, and system redundancies enhance the regions' resilience to climate threats.

Infrastructure Enhancements:

infrastructure combined with

new conveyance systems are planned to create enhanced

water resources. Upgrades,

vulnerabilities and ensure reliable services during natural

disasters.

including pipeline protection initiatives and solar energy projects, are expected to reduce climate-related

Modernization of existing



Drought Resiliency: The program's ambitious stormwater capture, groundwater recharge, and water reuse projects are expected to position the region to sustain short and long-term droughts.



Improved Water Quality:

Advanced treatment upgrades are expected to improve regional water quality by reducing the amount of salt, nutrients, and emerging contaminants introduced to surface waters and groundwater basins. Proposed stormwater capture and treatments projects are expected to produce high-quality water for blending with groundwater supplies high in total dissolved solids.



Ecological Health: The proposed habitat mitigation and restoration initiatives are expected to enhance the health of the Upper SAR Watershed, supporting the region's urban, environmental, recreational, and economic needs.

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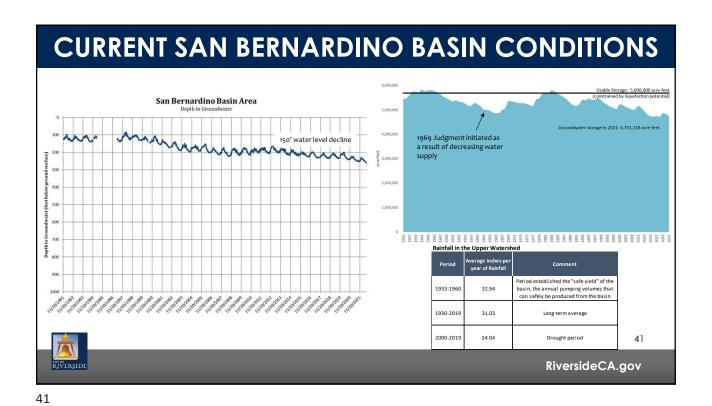
Watershed Connect

Achieving resilience through integrated infrastructure



Project Type	Number Projects	Benefits
Water Supply and Groundwater Recharge	10	35,760 acre-feet per year
Habitat Restoration	4	641 acres and 1 mile of stream
Recycled Water Distribution	7	6,600 connections
Energy Resilience	2	7 Megawatts
Infrastructure Resilience	5	Multiple
TOTAL	28	

- Valley District is leading 11 projects
- Yucaipa Valley Water District is leading 17 projects



CURRENT SAN BERNARDINO BASIN CONDITIONS

- Region is experiencing a long-term dry period resulting in decreased water levels.
- 2. As a result of lower water levels:
 - a. Pumps are being lowered.
 - b. Well production volumes are lower because they cannot pump at the same rate as they did when water levels were higher.
 - c. Older wells are pumping much more air and in some cases need to be replaced with deeper wells.
- 3. Western-San Bernardino Watermaster is leading efforts to explore basin management options that would invest in efforts to stabilize and/or improve groundwater conditions to ensure the region's water supply remains resilient and sustainable into the future.



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STRATEGIC PLAN ALIGNMENT



Strategic Priority No. 4 – Environmental Stewardship

Goal 4.2 –Sustainably manage local water resources to maximize reliability and advance water reuse to ensure sage, reliable and affordable water to our community the item aligns with.



Strategic Priority No. 5 – High Performing Government

Goal 5.4 – Achieve and maintain financial health by addressing gaps between revenues and expenditure and aligning resources with strategic priorities to yield the greatest impact.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility





Equity



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RECOMMENDATIONS

That the City Council:

- Approve joining the Upper Santa Ana River Watershed Infrastructure Financing Authority through the execution of a Joint Exercise of Powers Agreement and authorize the City Manager, or his designee, to execute any required documents;
- 2. Designate the Mayor or designee to represent the City of Riverside on the governing board of the Upper Santa Ana River Watershed Infrastructure Financing Authority; and
- 3. Approve an expenditure not to exceed \$270,000 to fund Riverside's portion of submitting a funding application and Water Infrastructure Finance and Innovation Act loan package to the U.S. Environmental Protection Agency for a regional suite of infrastructure projects.



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