



Upper Santa Ana River Habitat Conservation Plan

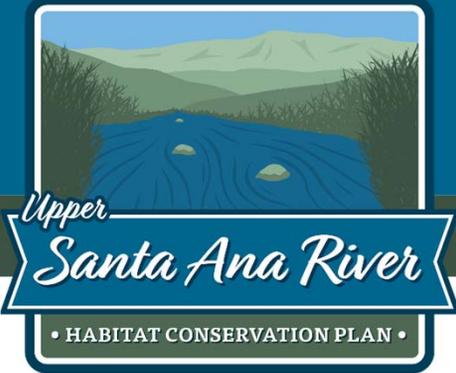
*Homeless Encampments: Unique Challenges and Solutions for
Effective Urban Stream Habitat Conservation*

National HCP Coalition Meeting
November 14, 2019



Heather Dyer M.S, M.B.A.
San Bernardino Valley
Municipal Water District

Upper Santa Ana River Watershed



HCP Driver: Cumulative Impacts to Species



Collaboration

➤ **HCP Team includes twelve participating agencies:**

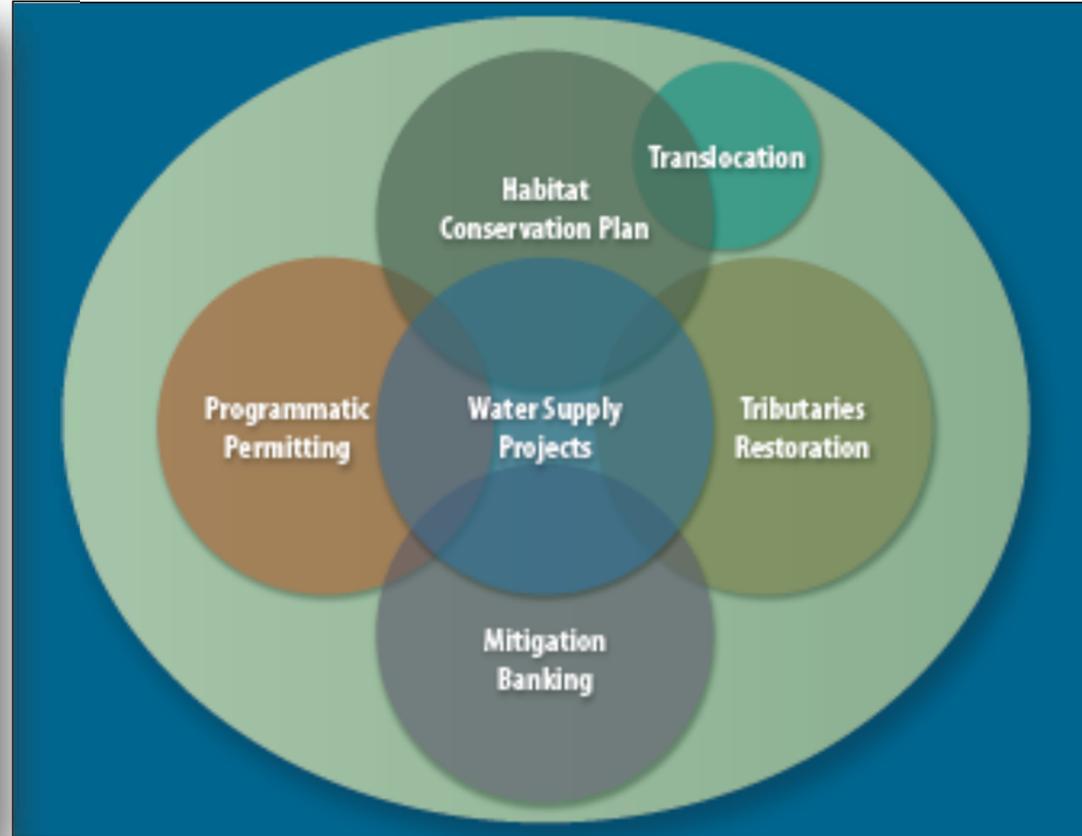
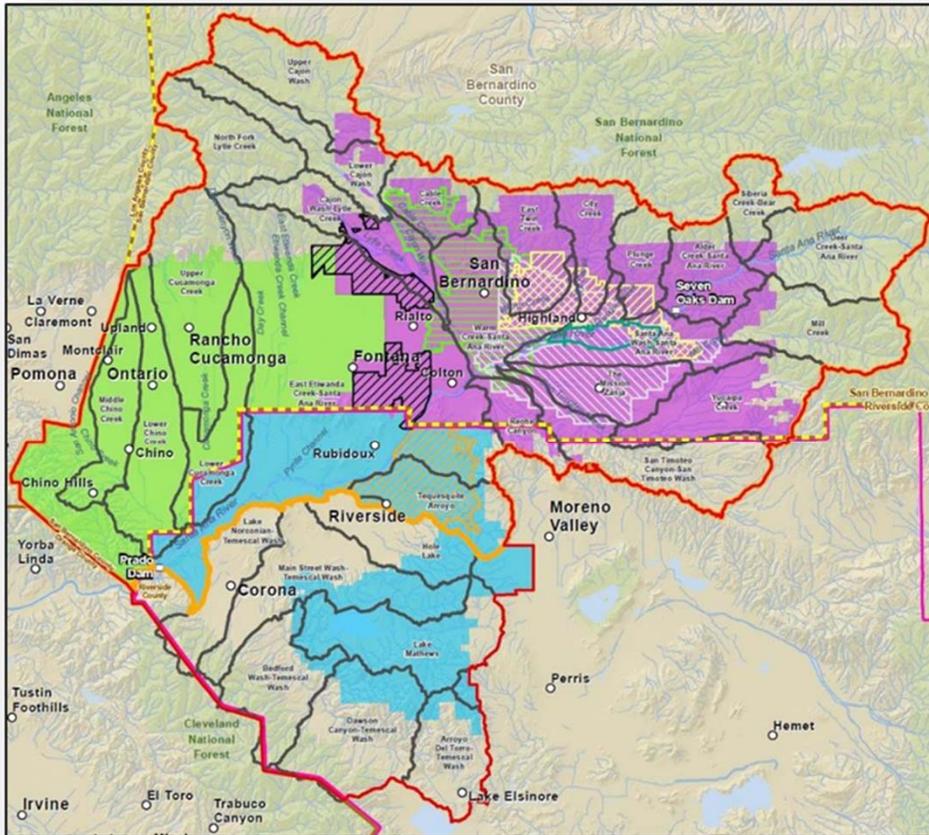
- San Bernardino Valley Municipal Water District
- San Bernardino Valley Water Conservation District
- San Bernardino Municipal Water Department
- Western Municipal Water District
- East Valley Water District
- West Valley Water District
- Riverside Public Utilities
- Inland Empire Utility Agency
- City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

Inland Empire water agencies pool resources to save Santa Ana sucker



Brett Mills (L), Tawny Hoemke (C), both of Southwest Resource Management Association and Heather Dyer (R), water resources project manager for San Bernardino Valley Municipal Water District, look to remove non-native predators that are threatening the Santa Ana sucker fish, in the Rialto Channel portion of the Santa Ana River, Tuesday, March 3, 2015. The goal is to ...

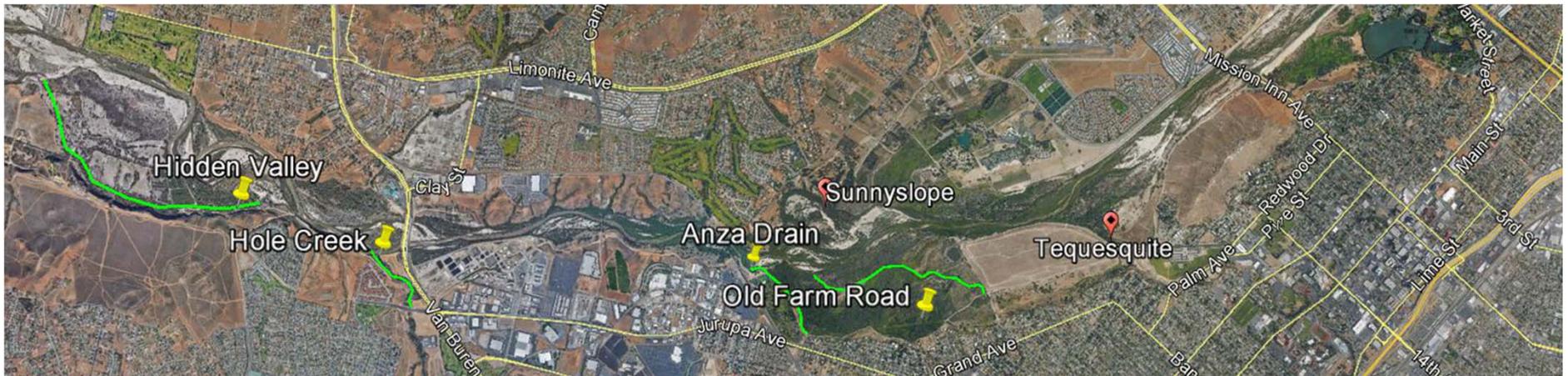
Integrated Compliance



Tributaries Restoration

Upper
Santa Ana River

• HABITAT CONSERVATION PLAN •

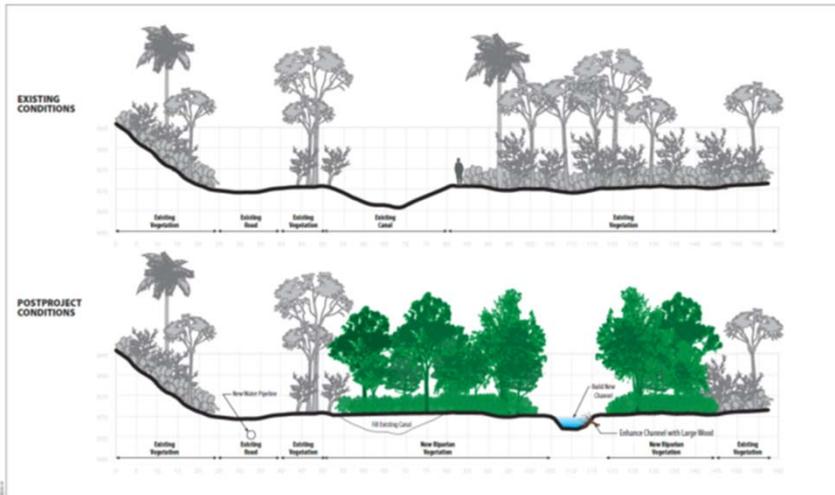


Six Restoration Sites include:

- Hidden Valley Creek – Construction 2020
- Lower Hole Creek – Construction 2021
- Anza Creek – Construction 2020
- Old Ranch Creek – Construction 2021
- Evans Creek – In Planning
- Sunnyslope Creek – In Planning

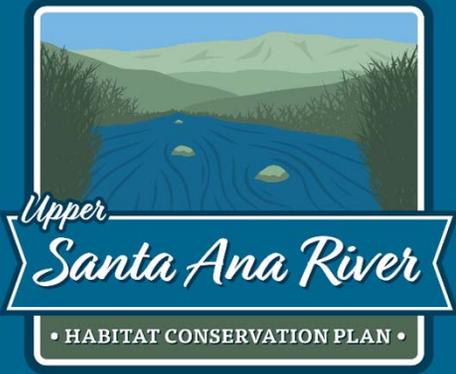


Increase Stream Function



- **Restoration/conservation activities include:**
 - Restoration, enhancement, creation of channels
 - Enhancements to existing riparian and floodplain habitats
 - Funded Ranger patrol of sites to prevent establishment of encampments
 - Conservation easements and non-wasting endowment
 - Development of combined Conservation/Mitigation Credit Program

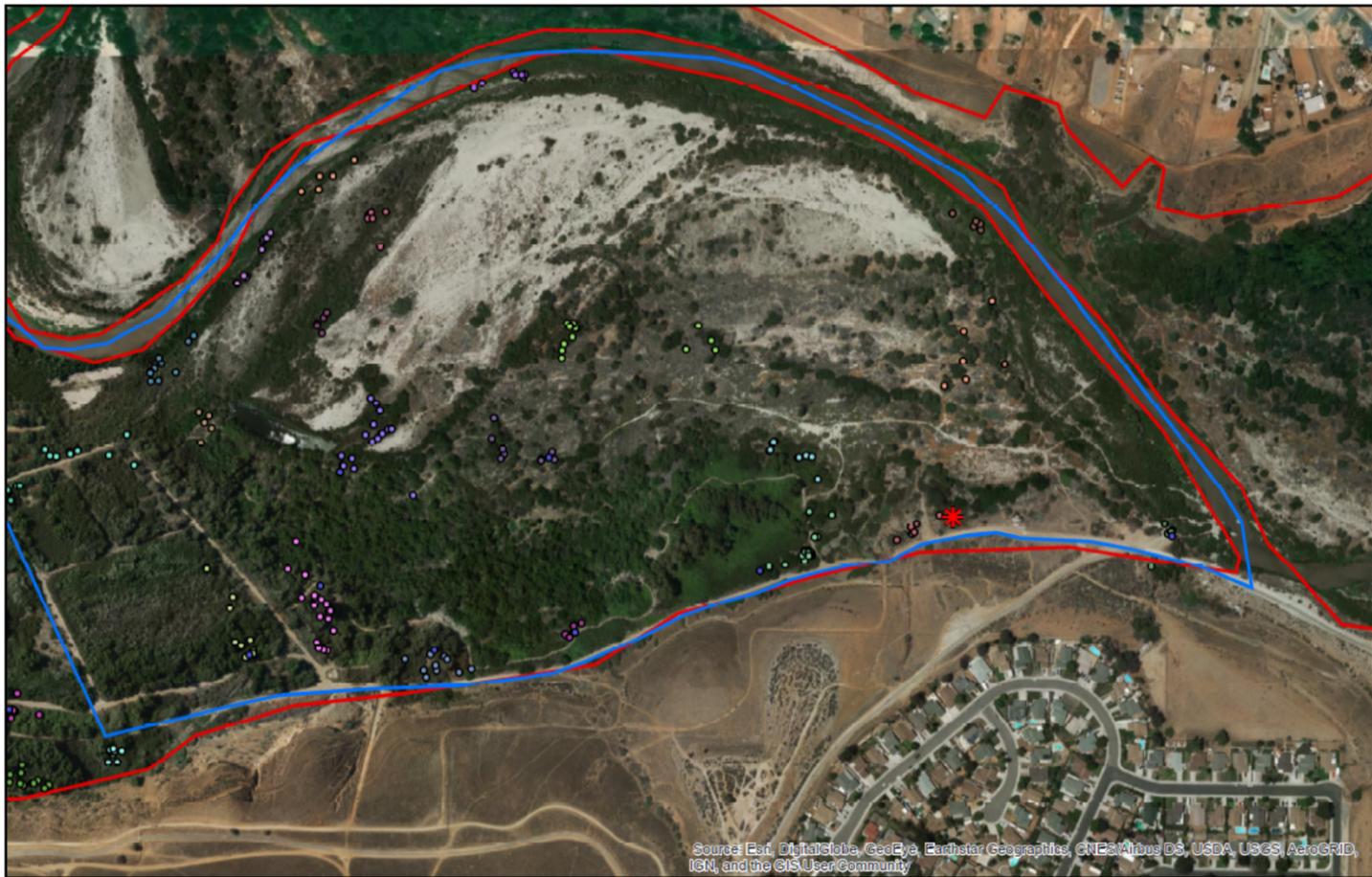




CHALLENGES



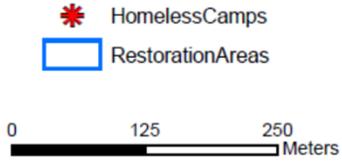




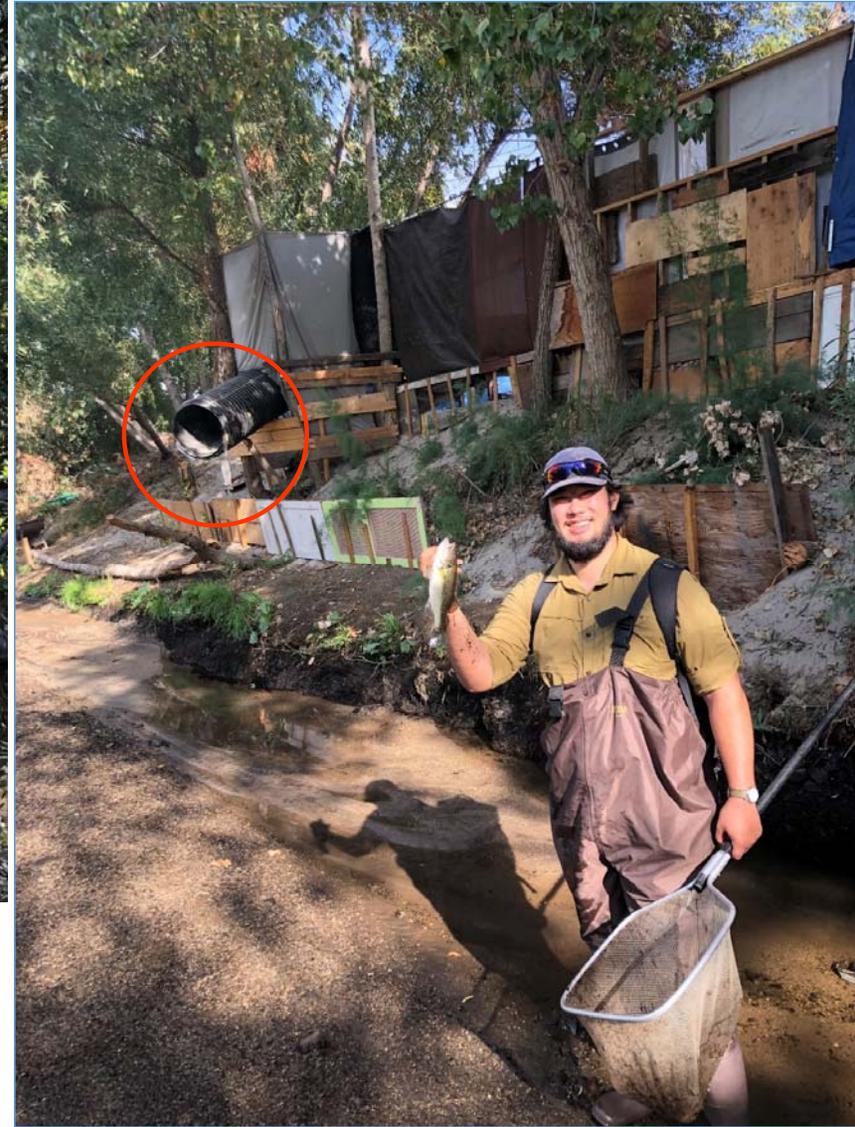
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Hidden Valley Homeless Camps

Coarse View - dots are LBVI points





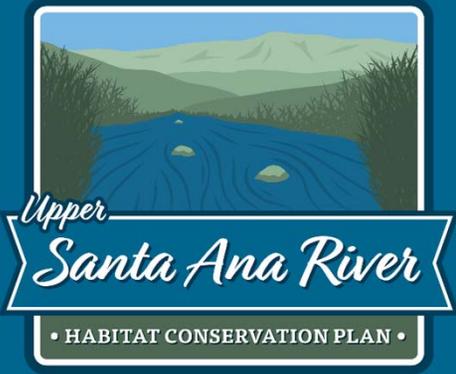




Fire

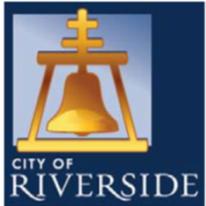






SOLUTIONS

Partnership



RIVERSIDE HOUSING FIRST PLAN

OFFICE OF HOMELESS SOLUTIONS

March 13, 2018
City Council and Housing Authority

RiversideCA.gov

OUTREACH EFFORTS



RiversideCA.gov

6

ENCAMPMENT CLEAN-UP EFFORTS

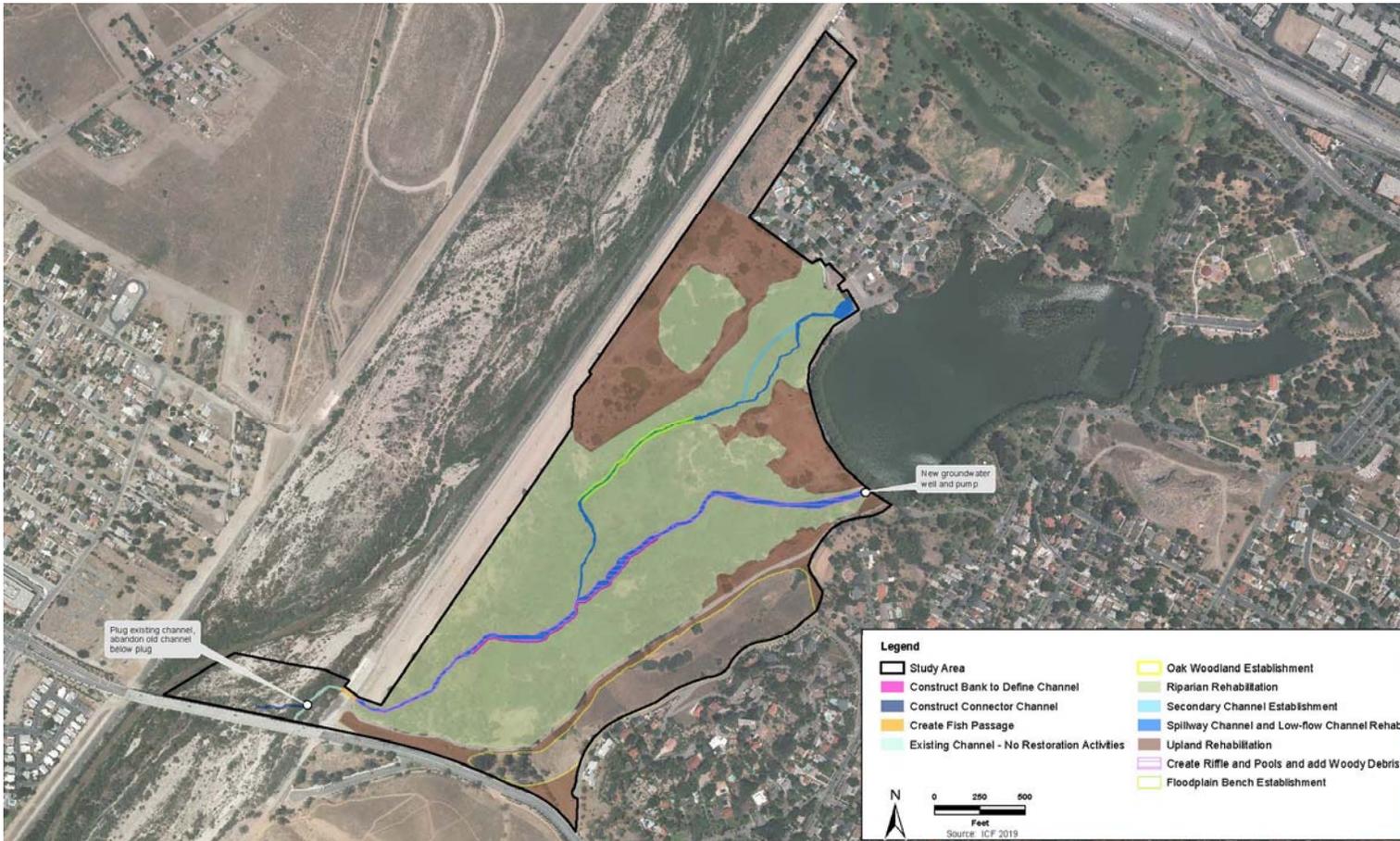


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8

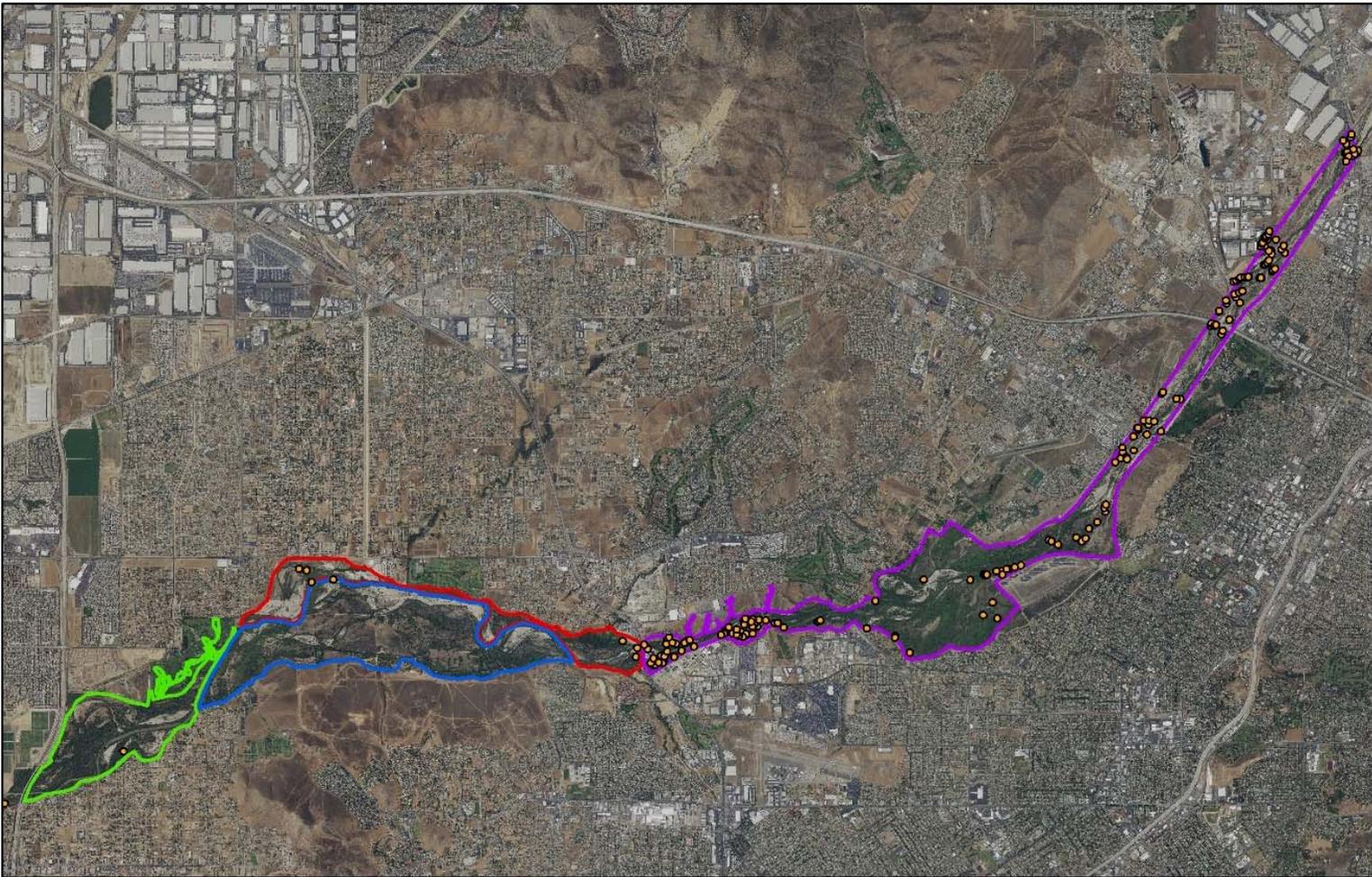


Public Use



- 65 acres in the City of Riverside
- Design includes habitat areas, education park and recreation features
- Supply of clean, perennial water supply
- Long-term management and funding

Patrol



2018 Santa Ana River Survey Areas



Questions?

