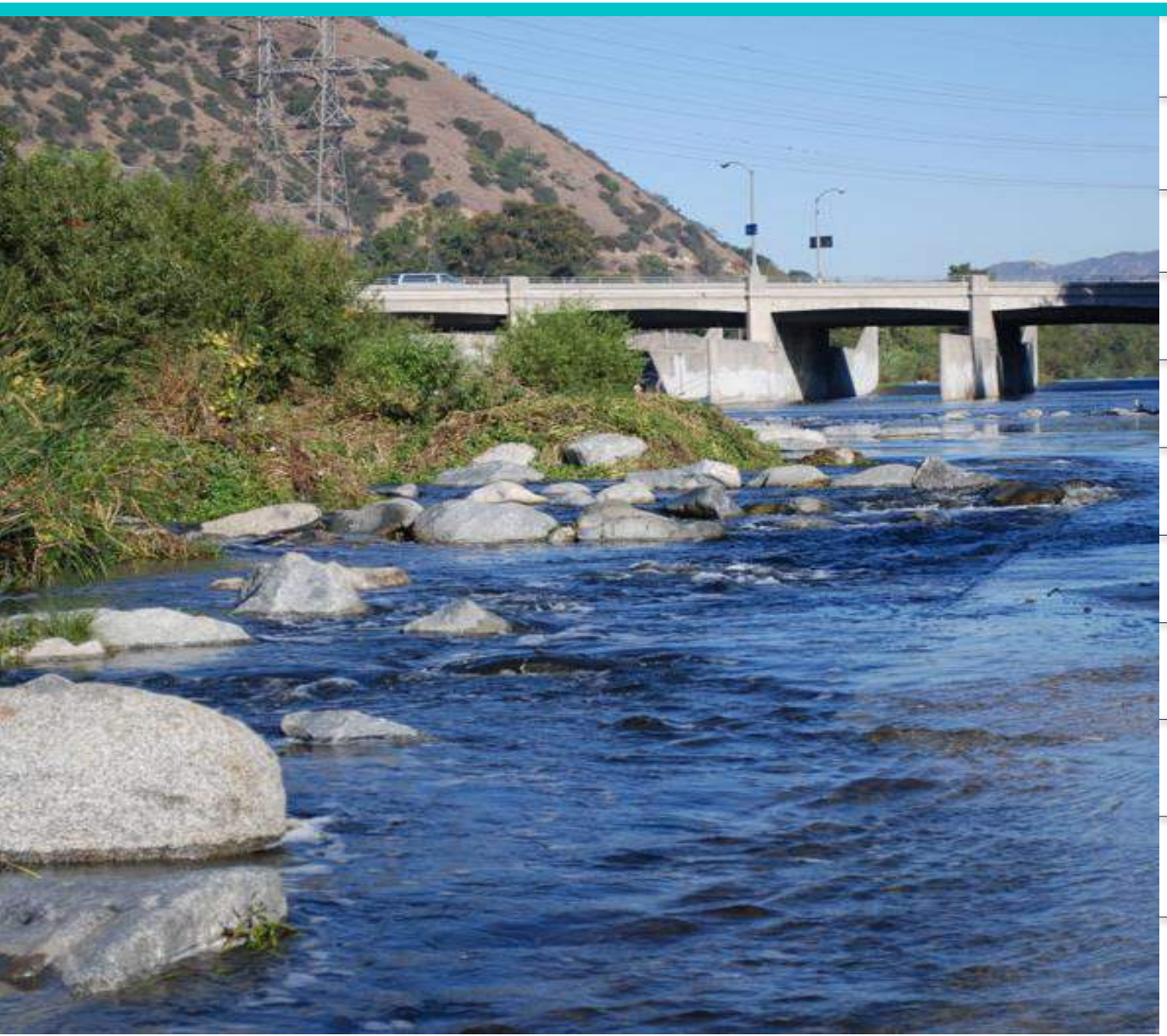
AB 466: Upper Los Angeles River and Tributaries Revitalization Plan

Water and Environment Committee

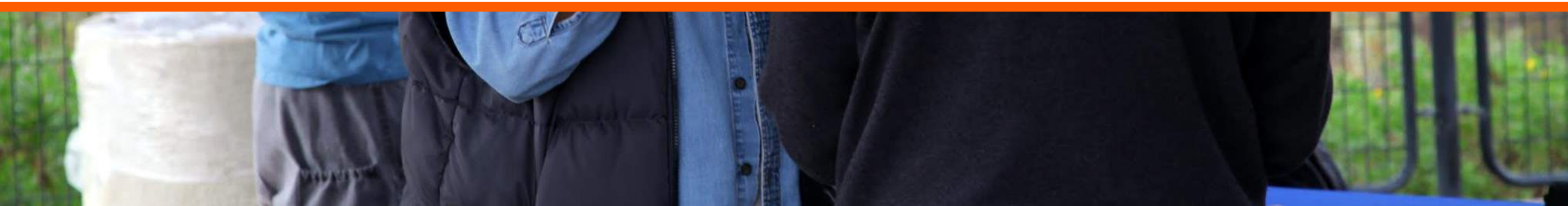
November 15, 2018

Meeting Agenda



1. Call to Order
2. Roll Call
3. Approval of Minutes
4. Comments from members of the public
5. Staff update
6. AB466 purpose, goals, objectives, and timeline
7. Tributaries overview and characterization
8. Presentation on relevant case studies and best practices
9. Presentation on the City of Los Angeles' Biodiversity Index
10. Committee member comments on matters not on the agenda
11. Announcement of future meetings and adjournment

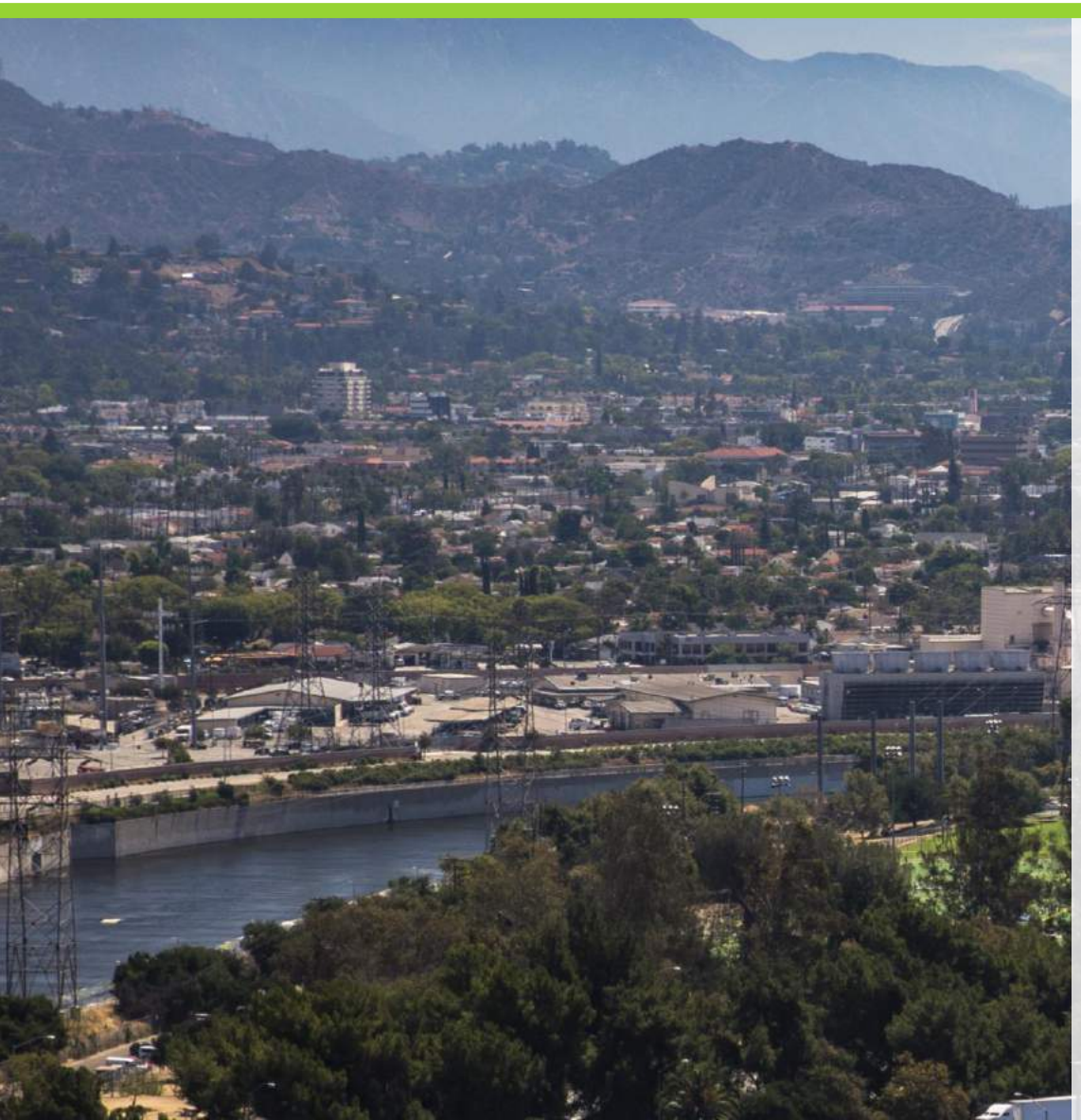
Item 4. Comments from members of the public



Item 5. Staff Update

Item 6. Purpose, Goals, and Objectives

AB 466 Plan Mission



The mission of the Upper LA River & Tributaries Revitalization Plan is to foster the creation of prioritized opportunities with the following components:

- Open space
- Multi-benefit
- Safe access
- based on community feedback
- Aligned with funding
- Nature based
- Reconciled with previous efforts

AB 466 Upper Los Angeles River and Tributaries Working Group
Water and Environment Committee

Plan Mission Statement

The mission of the Upper LA River & Tributaries Revitalization Plan is to foster the creation of prioritized opportunities with the following components:

- Open space
- Multi-benefit
- Safe access
- Aligned with community needs and feedback
- Aligned with funding
- Nature based watershed management
- Reconciled with previous efforts
- Reducing flood risk to communities where capacity Lacks / Manage existing flood risk

Draft 2 November 15, 2018

AB 466 Plan Goals and Objectives

- Focus on community engagement especially in underserved communities
- Focus on Tributaries where there is not already planning or project building efforts
- Refer to previous planning efforts whenever possible and fill in gaps

Water and Environment Committee Purpose

The purpose of the ~~***Hydrology***~~ ***Water and Environment Committee*** is to identify and prioritize the opportunities that focus on the community need for public safety and responsibility for a sustainable environment for the Upper Los Angeles River and its Tributaries using an Integrated approach (water resources/ conservation/ quality/ recreation source)

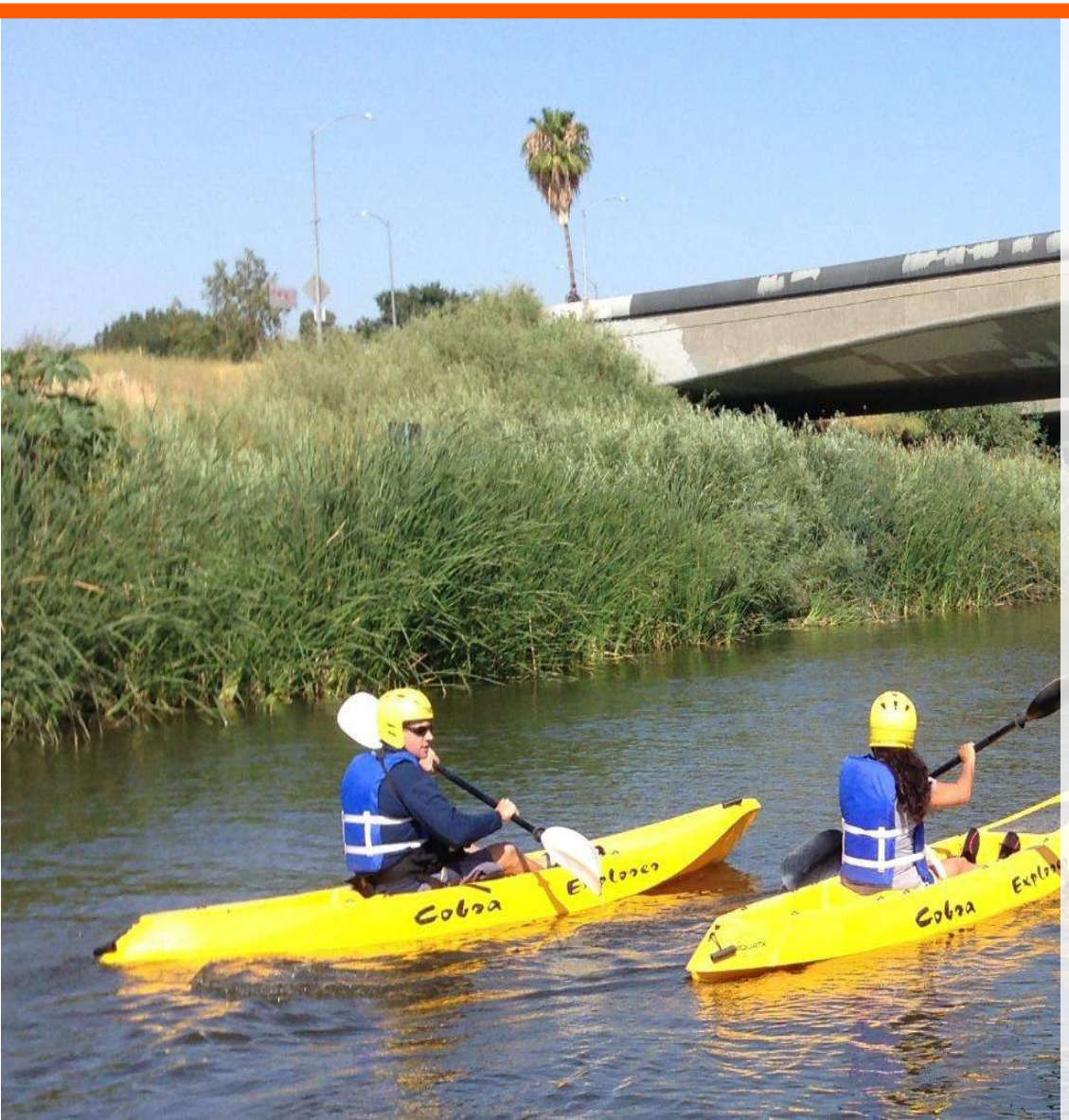
AB 466 Upper Los Angeles River and Tributaries Working Group
Water and Environment Committee

Committee Purpose Statement

The purpose of the *Water and Environment Committee* is to identify and prioritize the opportunities that focus on the community need for public safety and responsibility for a sustainable environment for the Upper Los Angeles River and its Tributaries using an Integrated approach (water resources/ conservation/ quality/ recreation source)

Draft 2 November 15, 2018

Water and Environment Committee Goals and Objectives



- Maintain or enhance flood management
- Create equitable opportunities to enhance the ecosystem, water supply, water quality, and watershed health
- ~~Enhanced opportunities for water supply and improved water quality~~
- Balance the utilization of available space and resources for both the environment and the community
- Assess all opportunities for Resiliency ~~in~~ to climate change

AB 466 Upper Los Angeles River and Tributaries Working Group
Water and Environment Committee

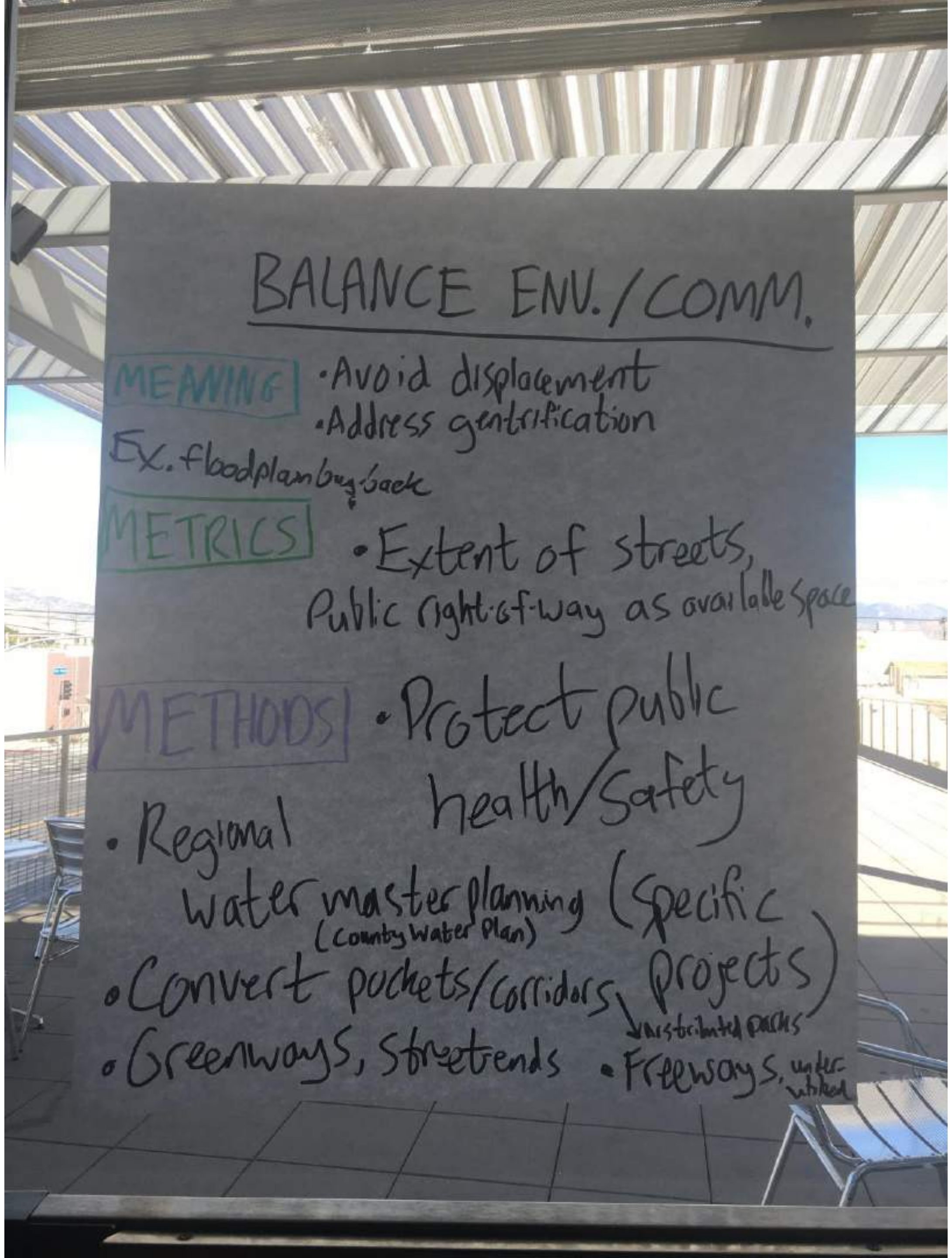
Committee Goals and Objectives

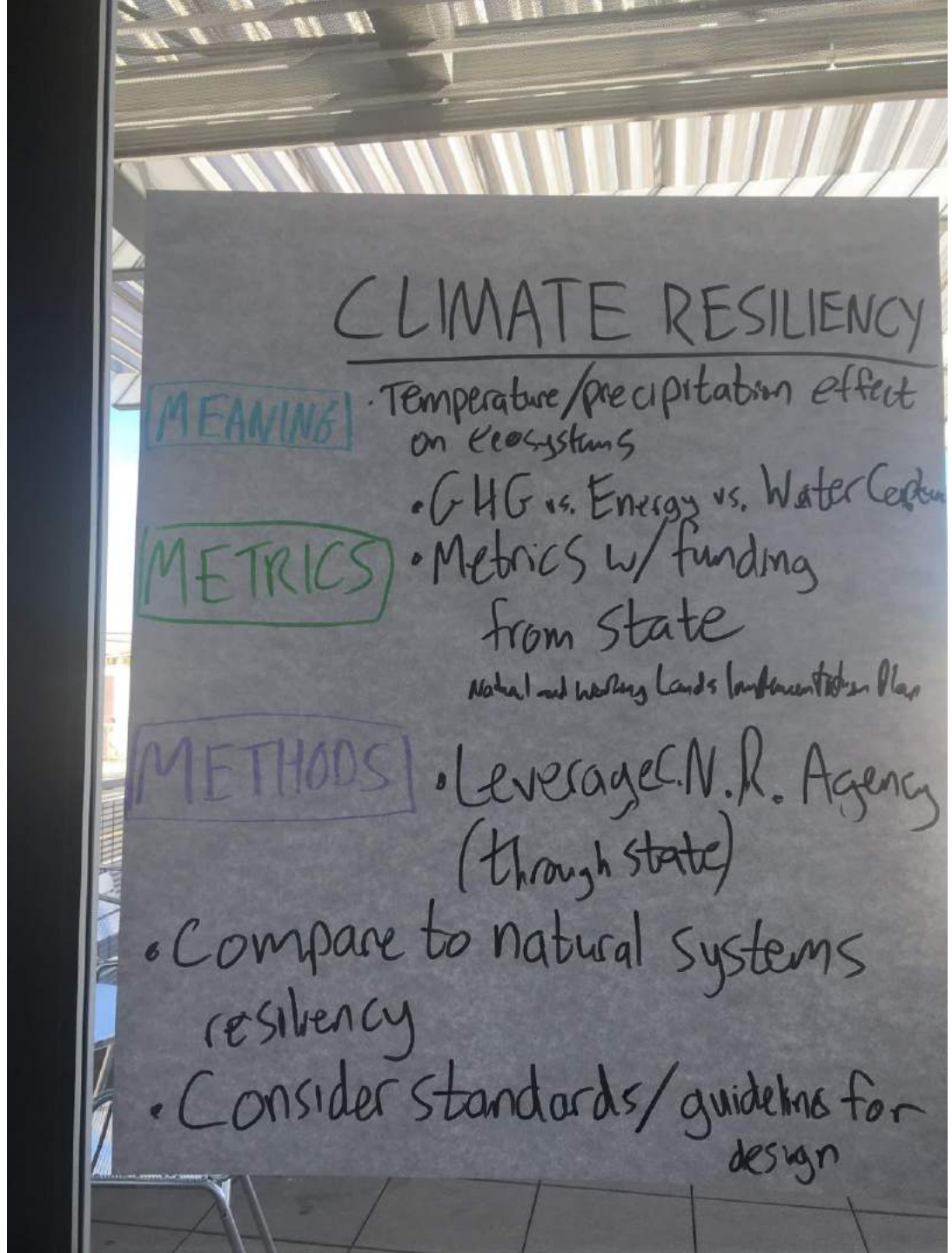
(2) • Maintain or enhance flood management

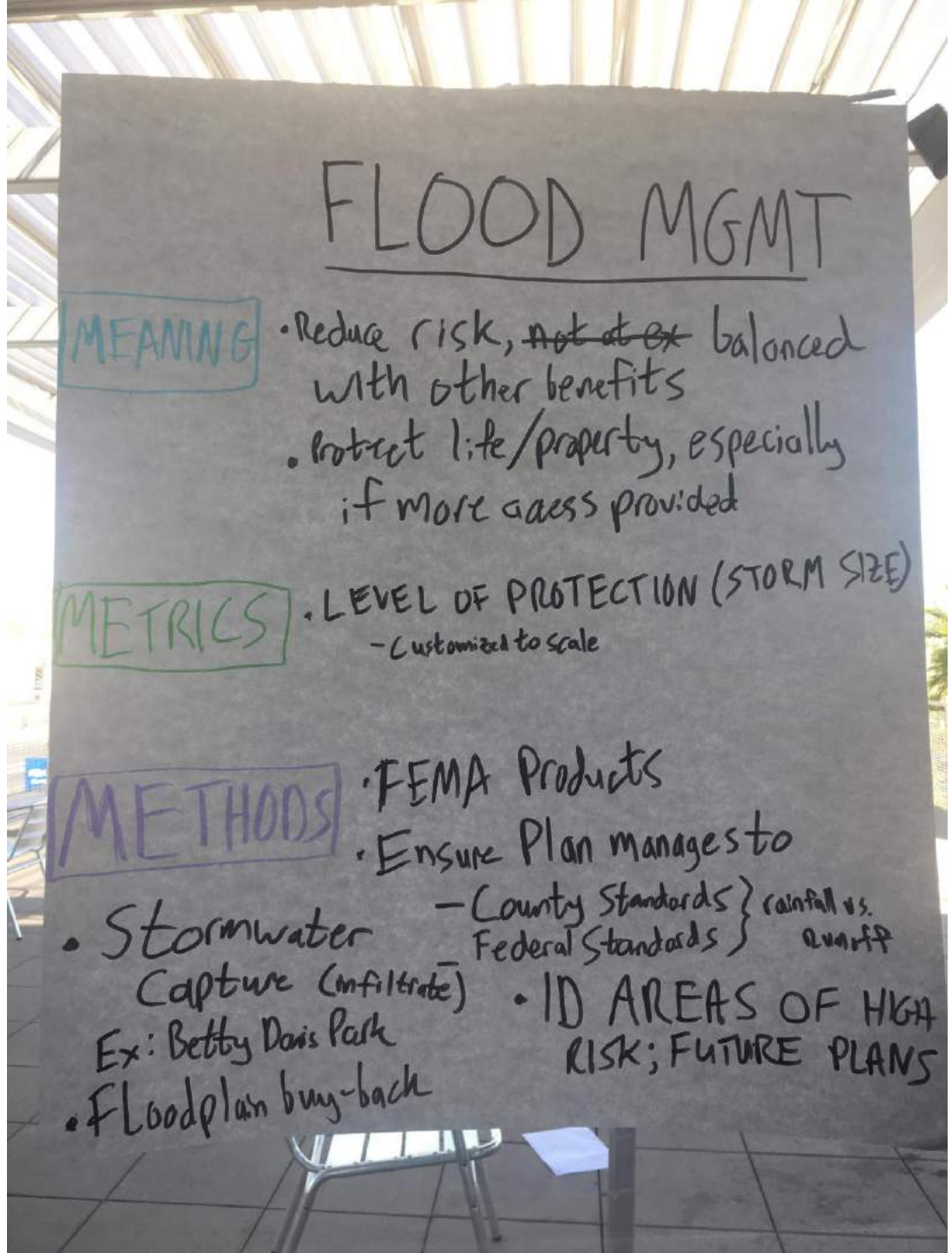
(1) • Create equitable opportunities to enhance the ecosystem, water supply, water quality, and watershed health

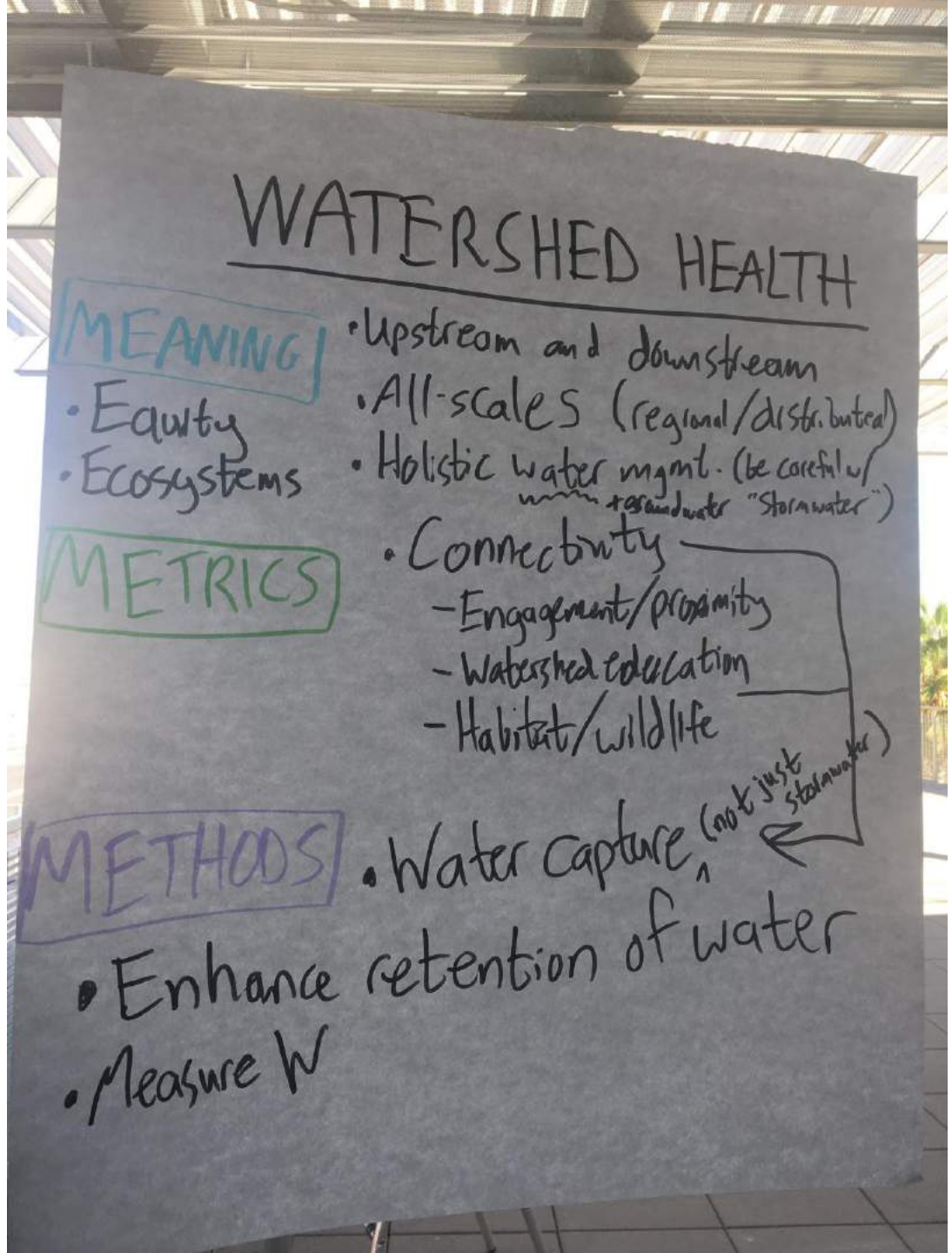
• Balance the utilization of available space and resources for both the environment and the community

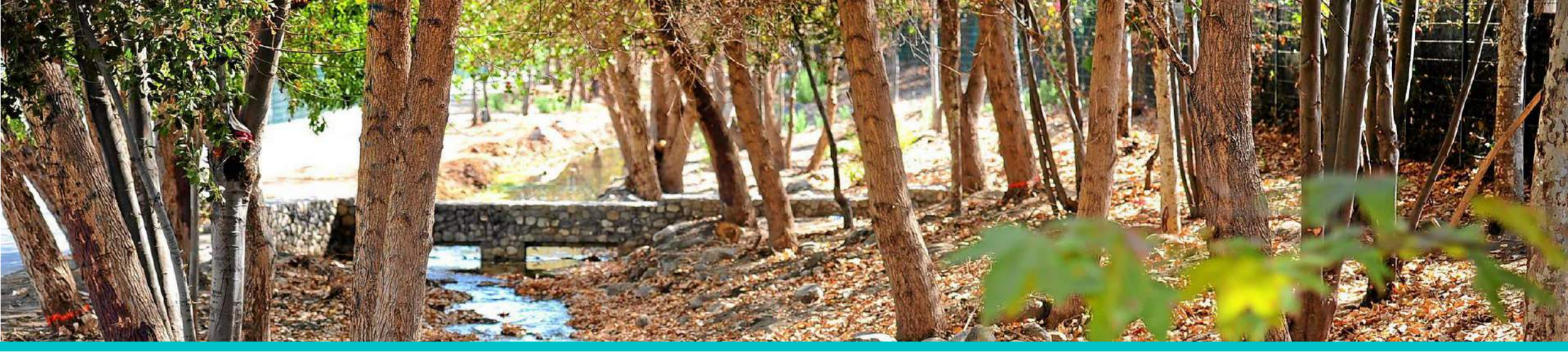
• Assess all opportunities for resiliency to climate change


BALANCE ENV./COMM.
MEANING
•Avoid displacement
•Address gentrification
Ex. floodplain buy-back
METRICS
•Extent of streets,
Public right-of-way as available space
METHODS
•Protect public health/Safety
•Regional water master planning (Specific projects)
(County Water Plan)
•Convert pockets/corridors
distributed parks
•Greenways, Street ends
•Freeways, under utilized


CLIMATE RESILIENCY
MEANING
· Temperature/precipitation effect on ecosystems
• GHG vs. Energy vs. Water Capture
METRICS
• Metrics w/ funding from State
Natural and Working Lands Implementation Plan
METHODS
• Leverage C.N.R. Agency (through state)
• Compare to natural systems resilvency
• Consider standards/ guidelines for design


FLOOD MGMT
MEANING
• Reduce risk, ~~not at ex~~ balanced with other benefits
• Protect life/property, especially if more access provided
METRICS
• LEVEL OF PROTECTION (STORM SIZE)
- Customized to scale
METHODS
• FEMA Products
• Ensure Plan manages to
- County Standards
Federal Standards
rainfall vs. runoff
• Stormwater Capture (infiltrate)
Ex: Betty Davis Park
• Floodplain buy-back
• ID AREAS OF HIGH RISK; FUTURE PLANS


WATERSHED HEALTH
MEANING
• Equity
• Ecosystems
• Upstream and downstream
• All-scales (regional/distributed)
• Holistic water mgmt. (be careful w/ groundwater "Stormwater")
METRICS
• Connectivity
- Engagement/proximity
- Watershed education
- Habitat/wildlife
METHODS
• Water capture (not just stormwater)
• Enhance retention of water
• Measure W



Item 7. Tributaries overview and characterization; review and discussion of gap areas

Data Inventory

Flood Risk	Active Transpiration	Water Supply	Ecosystem and Habitat	Water Quality	Open Space and Recreation	Disadvantaged Communities
• Tributary Channel design and engineering • Hydraulic river flows • Right of way • Tributary drainage area	• Pedestrian pathways • Bike trails • non-motorized vehicle trails • Public transportation locations • Public transportation data • River access and Points of interest	• Groundwater Basins • Soil permeability • Impervious land cover • Sewersheds • Stormwater outfalls • Drainage networks	• Historic ecology • Contemporary ecology • Habitat connectivity • Significant ecological areas • public land • Tree canopy	• Stormwater runoff volumes • Watersheds • land use • Tributary length • Water quality monitoring data	• Conservancy boundaries • Percent of people 1/2 mile from a park • Park provisions • Vacant Land • Park locations • Recreational areas	• Census data • Brownfields • CalEnviroScreen 3.0 • Environmentally contaminated areas • Household income • Zoning

Data Gap Highlights

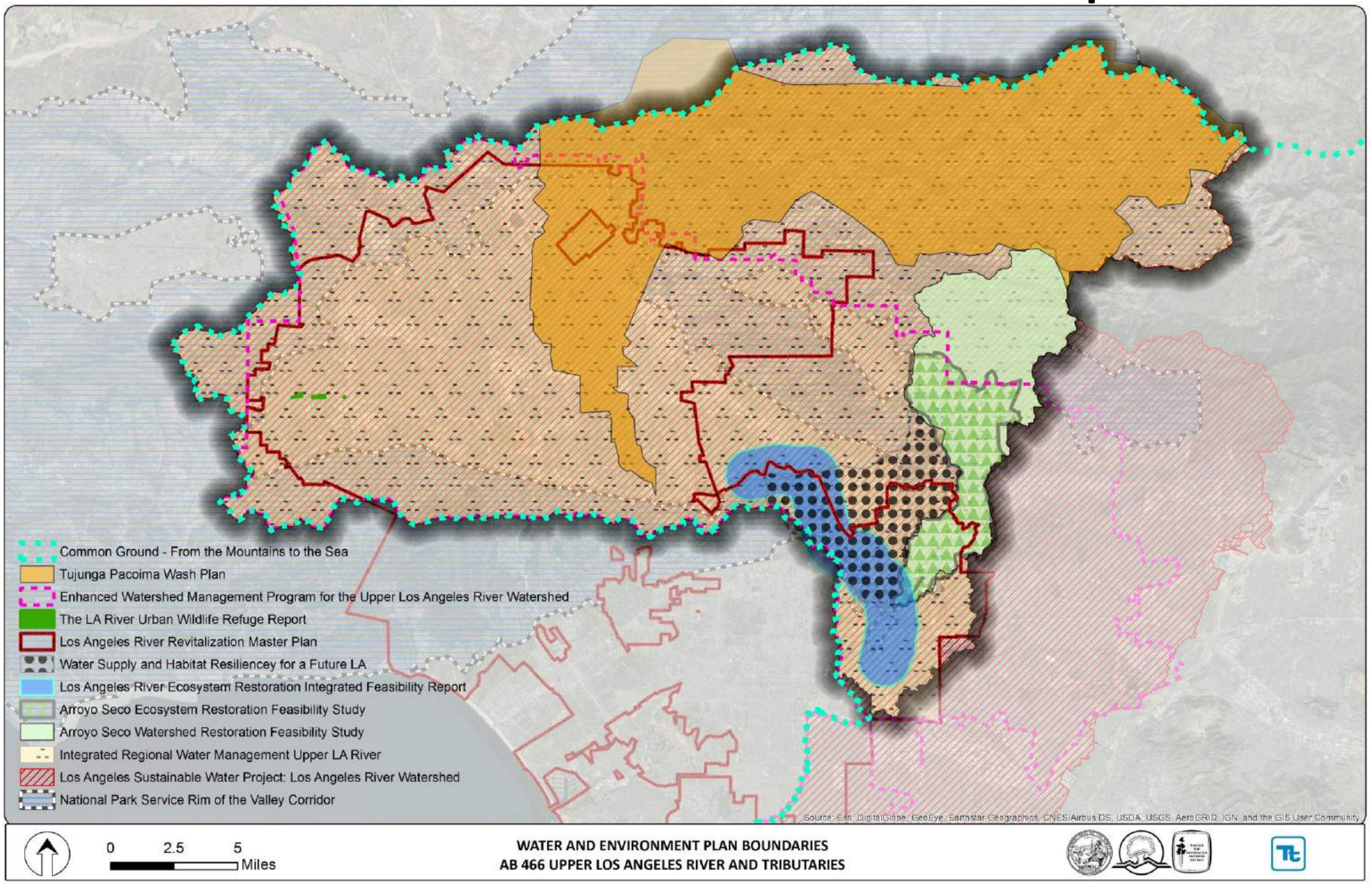
- What makes **each of the subwatersheds unique** and how they relate and connect to one another
- Planning for **network connectivity** for both nature and nonmotorized transportation throughout all the watersheds.
- **Consistency for the scale of planning**
- Suspected **discharges** to the river or its tributaries
- **Amenities** along the river
- Community or grant **funded park spaces**

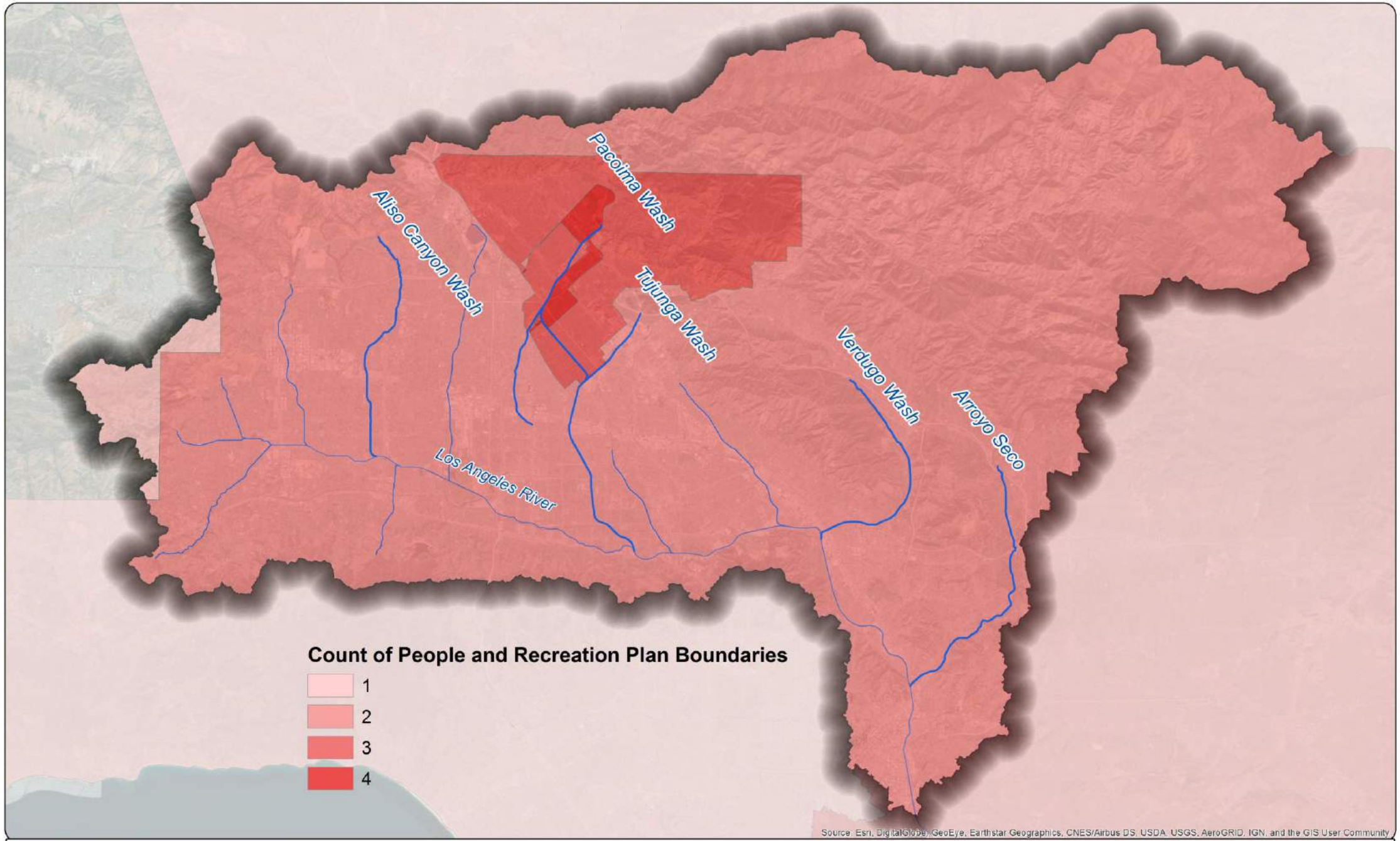
Tributary Screening Matrix

		Tujunga Wash	Pacoima Wash	Burbank Western Channel	Verdugo Wash	Arroyo Seco	Aliso Canyon Wash	Browns Canyon Wash	Arroyo Calabasas	Caballero Creek	Bull Creek	Central Branch Tujunga	Bell Creek	Chatsworth Creek
PEOPLE & RECREATION	A. % People More than 1/2 Mile from Park* Source: 2010 Census Data/LA County Park Assessment	5 (20%)	6 (20%)	4 (15%)	1 (3.0%)	2 (9.0%)	8 (30%)	11 (46%)	7 (25%)	12 (50%)	10 (46%)	9 (35%)	13 (60%)	3 (13%)
	B. Park Provision* acres of park space per 1,000 people Source: 2010 Census Data/LA County Park Assessment	11 (1.65)	12 (1.45)	8 (3.76)	5 (5.24)	3 (9.36)	9 (1.91)	1 (13)	13 (1.44)	10 (1.87)	4 (5.63)	7 (3.01)	6 (3.53)	2 (11.5)
	C. Population Density* people per acre Source: 2010 US Census	13(38)	4(18)	10 (26)	11(29)	8 (23)	6 (19)	9 (25)	2 (17)	12 (36)	1 (15)	3 (17)	7(21)	5 (18)
	D. Vacant Land* % of total Source: LA County GIS Portal	9 (6.1%)	8 (5.9%)	4 (3.5%)	11 (9.1%)	10 (6.5%)	7 (5.7%)	6 (5.6%)	13 (16.9)	12 (14.2%)	3 (1.4%)	2 (1.3%)	5 (3.7%)	1(1%)
BOTH	E. Household Income*$ Source: 2010 US Census	11 ($51K)	13 ($46K)	10 ($51K)	8 ($55K)	12 ($46K)	6 ($58K)	5 ($60K)	3 ($80K)	7 ($58K)	4 ($74K)	9 ($52K)	2 ($81K)	1 (82K)
	F. Community Burden (CES 3.0)* State percentile range Source: State of California, CES 3.0	12 (70)	13 (76)	11 (69)	5 (51)	9 (62)	8 (60)	7 (59)	4 (48)	3 (47)	6 (58)	10 (66)	1 (41)	2 (42)
HYDROLOGY & ENVIRONMENT	G. Impervious Land Cover* % total land cover Source: National Landcover Data Base, Model	9 (49%)	11 (53%)	13 (57%)	5 (39%)	2 (34%)	8 (42%)	10 (52%)	3 (34%)	4 (38%)	6 (40%)	12 (57%)	7(41%)	1 (33%)
	H. Tributary Length miles Source: USGS National Hydrography Dataset	12 (9.8)	w13 (11)	7(6.3)	8 (8.3)	11 (9.7)	9 (8.5)	5 (5.9)	7(6.3)	2 (3.3)	10 (9.3)	4 (4.2)	3 (3.7)	1(2.3)
	I. Tributary Drainage Area acres Source: LA County GIS Portal	13 (111K)	12 (38.7K)	9 (18.5K)	10 (19.4K)	11(30.2K)	7(13.6K)	8 (14K)	5 (9.2K)	1 (2.4K)	6 (12.8K)	2 (5.3K)	4 (8K)	3 (6.3K)
	J. Significant Ecological Area* acres Source: LA County GIS Portal	11(2,589)	5 (28)	13 (6,983)	10 (2,536)	2 (0)	4 (7)	12 (4,493)	6 (453)	7 (1,090)	8 (1,180)	2 (0)	3 (5)	9 (1,971)
	TOTAL SCORE	**106**	**97**	**89**	**74**	**70**	**72**	**74**	**63**	**70**	**58**	**60**	**51**	**28**

* within 0.5 miles of the tributary

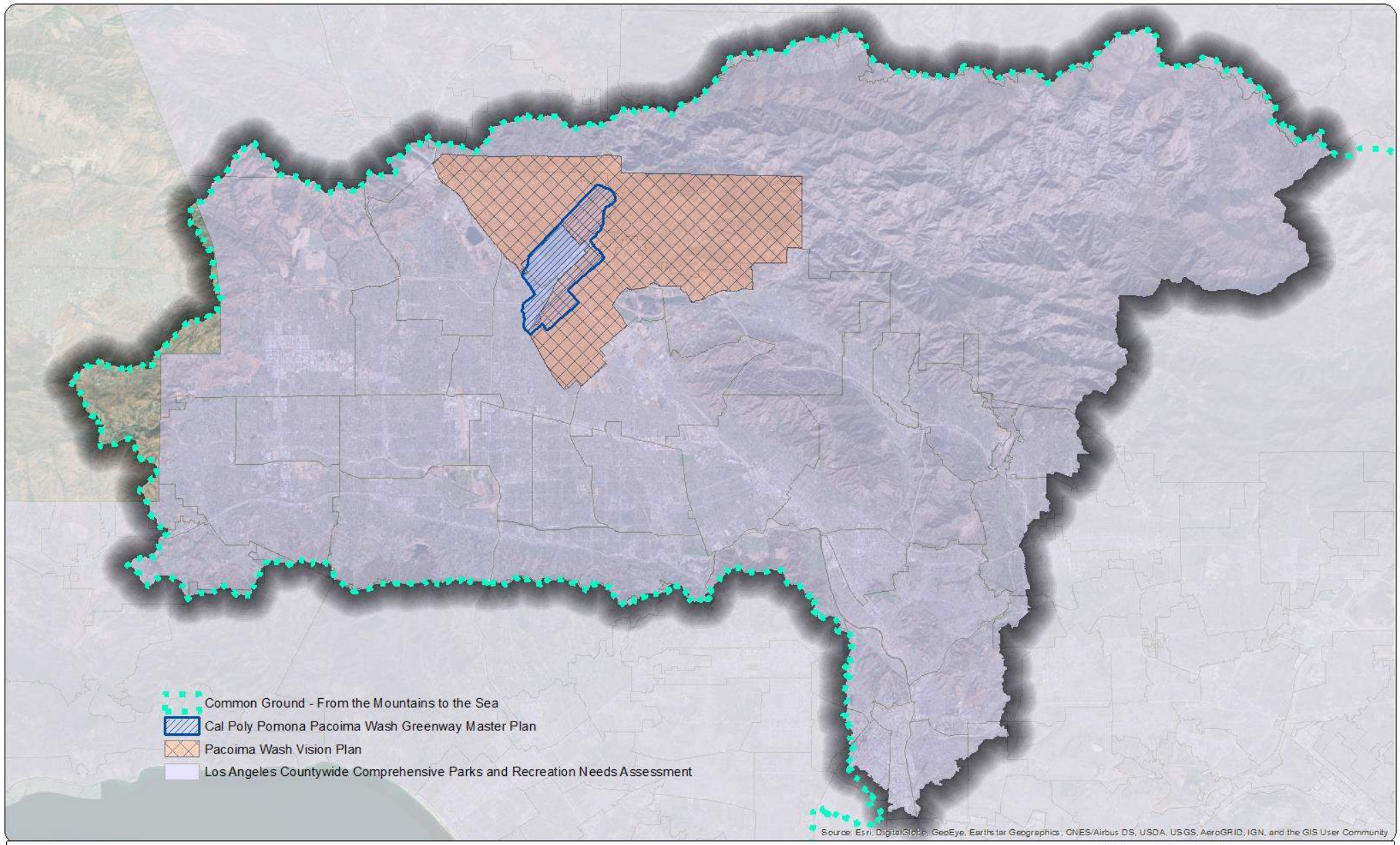
Water and Environemnt Gaps

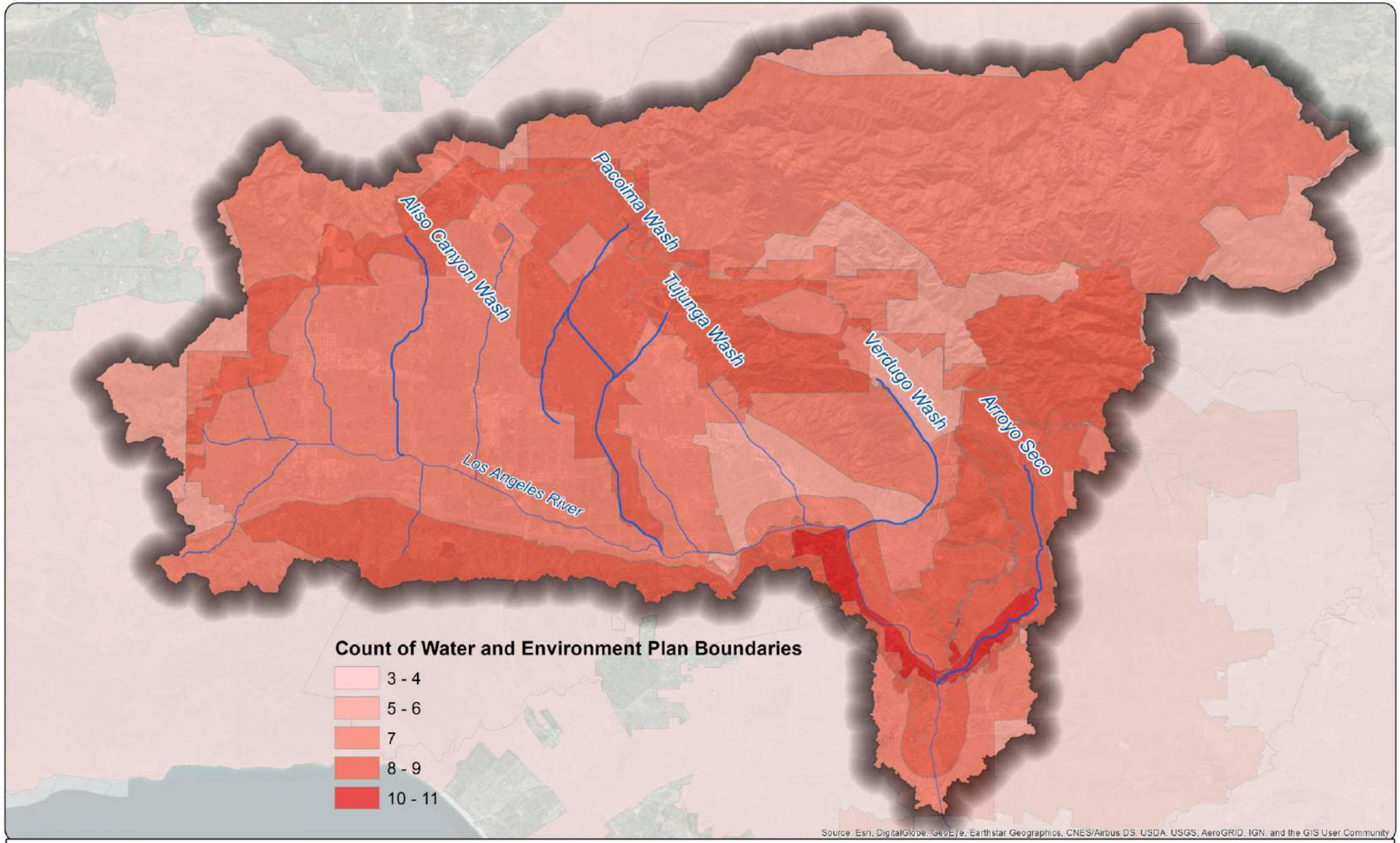


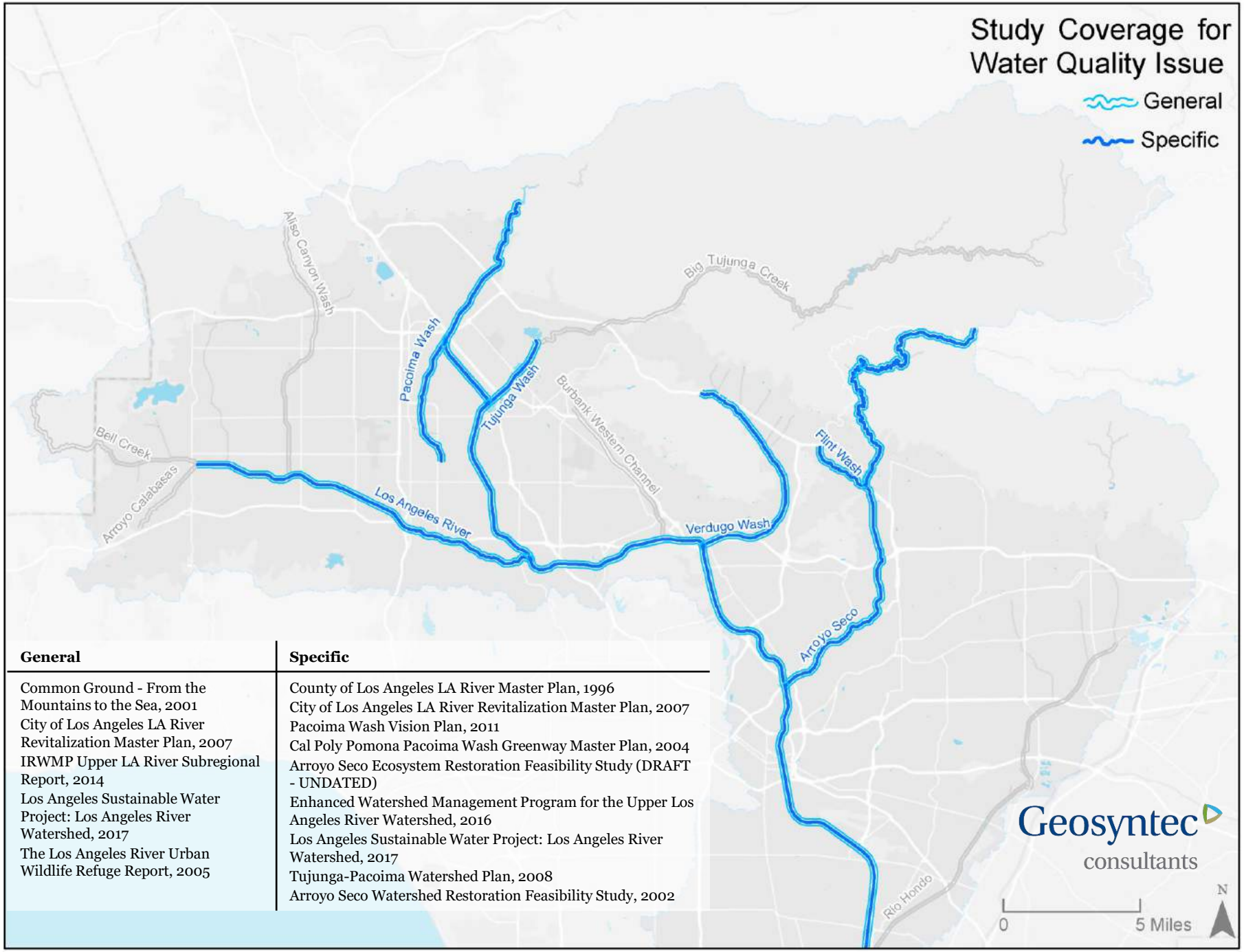


PEOPLE AND RECREATION PLAN BOUNDARIES
AB 466 UPPER LOS ANGELES RIVER AND TRIBUTARIES

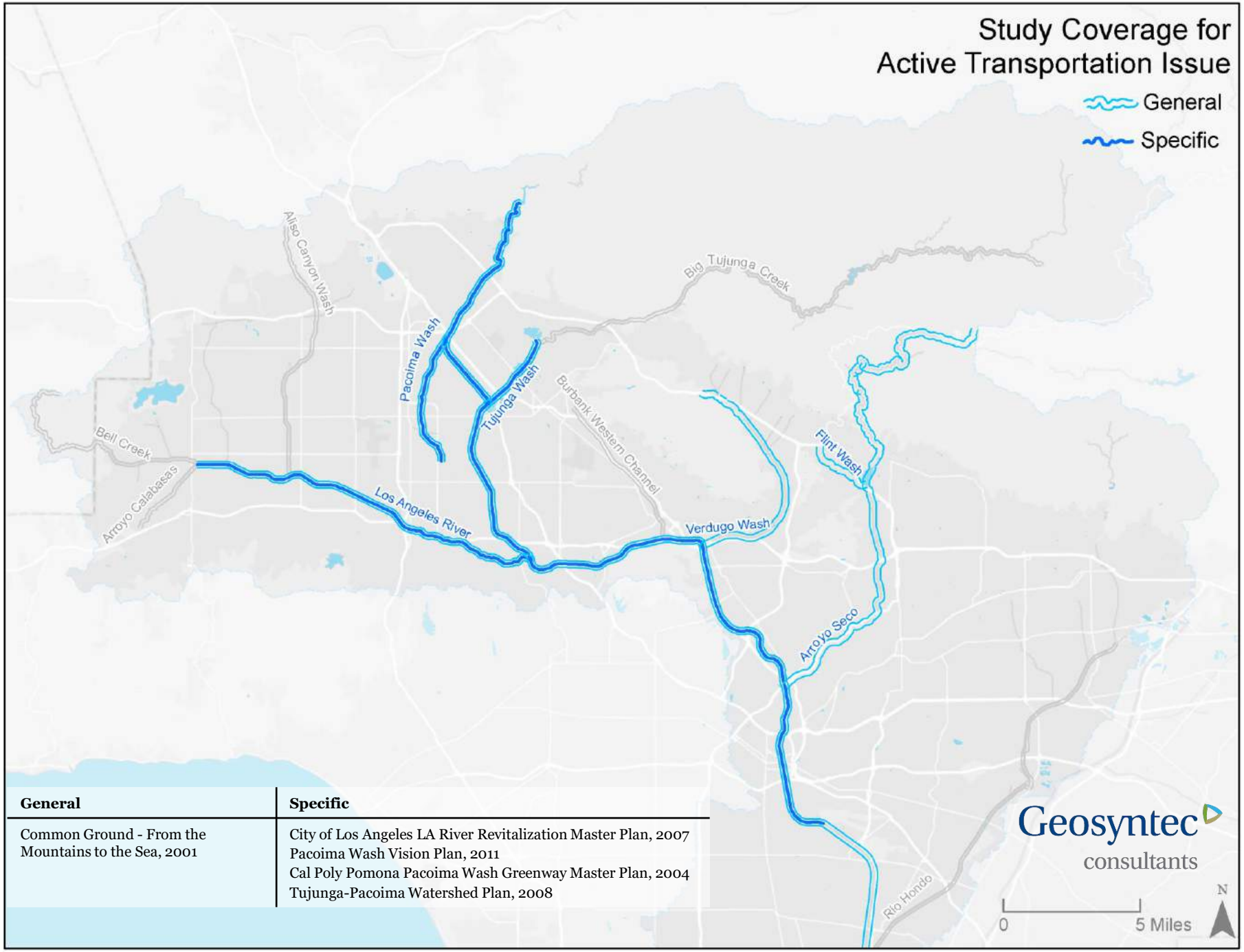
People and Recreation Gaps




Aliso Canyon Wash
Pacoima Wash
Tujunga Wash
Verdugo Wash
Arroyo Seco
Los Angeles River
Count of Water and Environment Plan Boundaries
3 - 4
5 - 6
7
8 - 9
10 - 11
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
0
2.5
5
Miles
WATER AND ENVIRONMENT PLAN BOUNDARIES
AB 466 UPPER LOS ANGELES RIVER AND TRIBUTARIES



General	Specific
Common Ground - From the Mountains to the Sea, 2001 City of Los Angeles LA River Revitalization Master Plan, 2007 IRWMP Upper LA River Subregional Report, 2014 Los Angeles Sustainable Water Project: Los Angeles River Watershed, 2017 The Los Angeles River Urban Wildlife Refuge Report, 2005	County of Los Angeles LA River Master Plan, 1996 City of Los Angeles LA River Revitalization Master Plan, 2007 Pacoima Wash Vision Plan, 2011 Cal Poly Pomona Pacoima Wash Greenway Master Plan, 2004 Arroyo Seco Ecosystem Restoration Feasibility Study (DRAFT - UNDATED) Enhanced Watershed Management Program for the Upper Los Angeles River Watershed, 2016 Los Angeles Sustainable Water Project: Los Angeles River Watershed, 2017 Tujunga-Pacoima Watershed Plan, 2008 Arroyo Seco Watershed Restoration Feasibility Study, 2002



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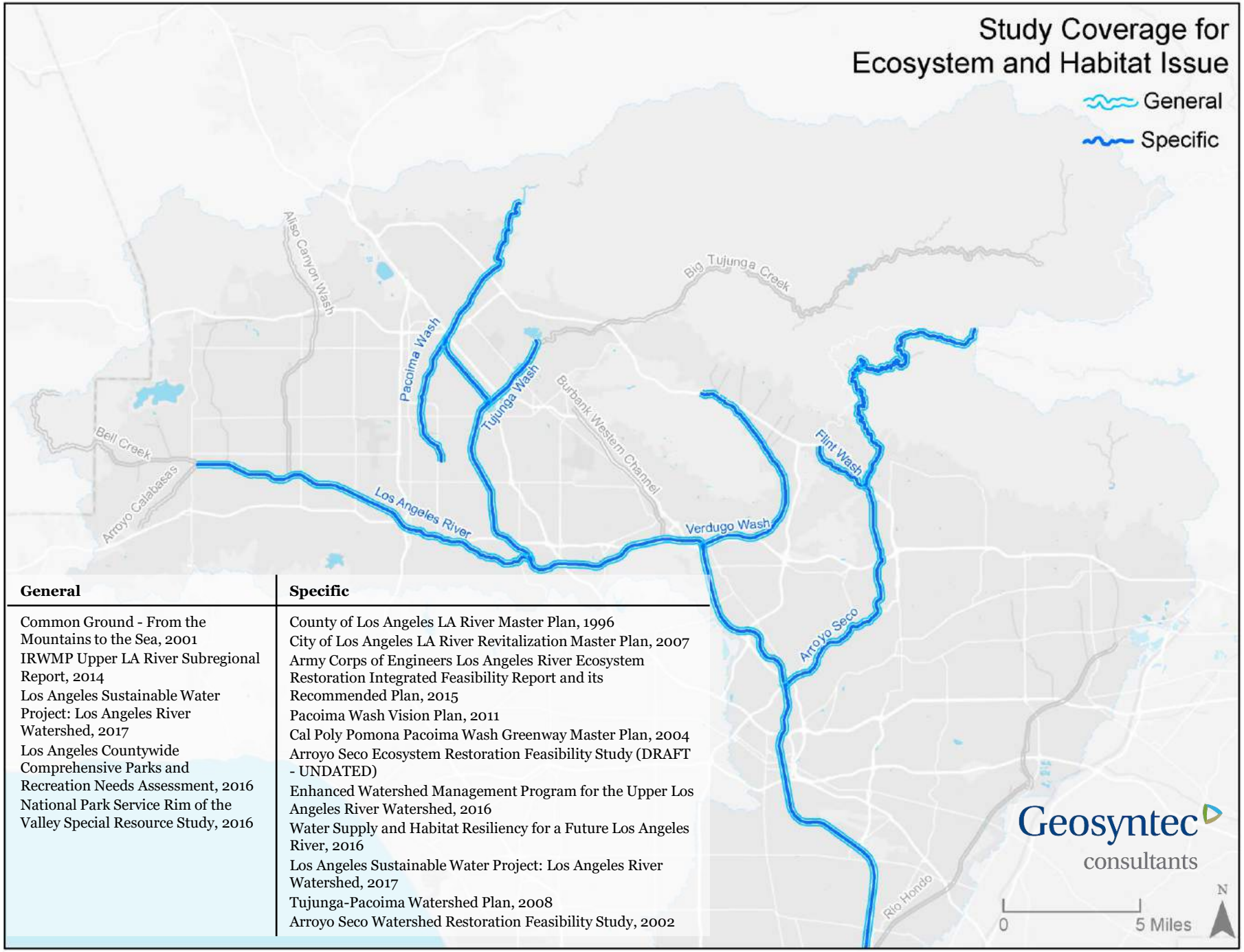

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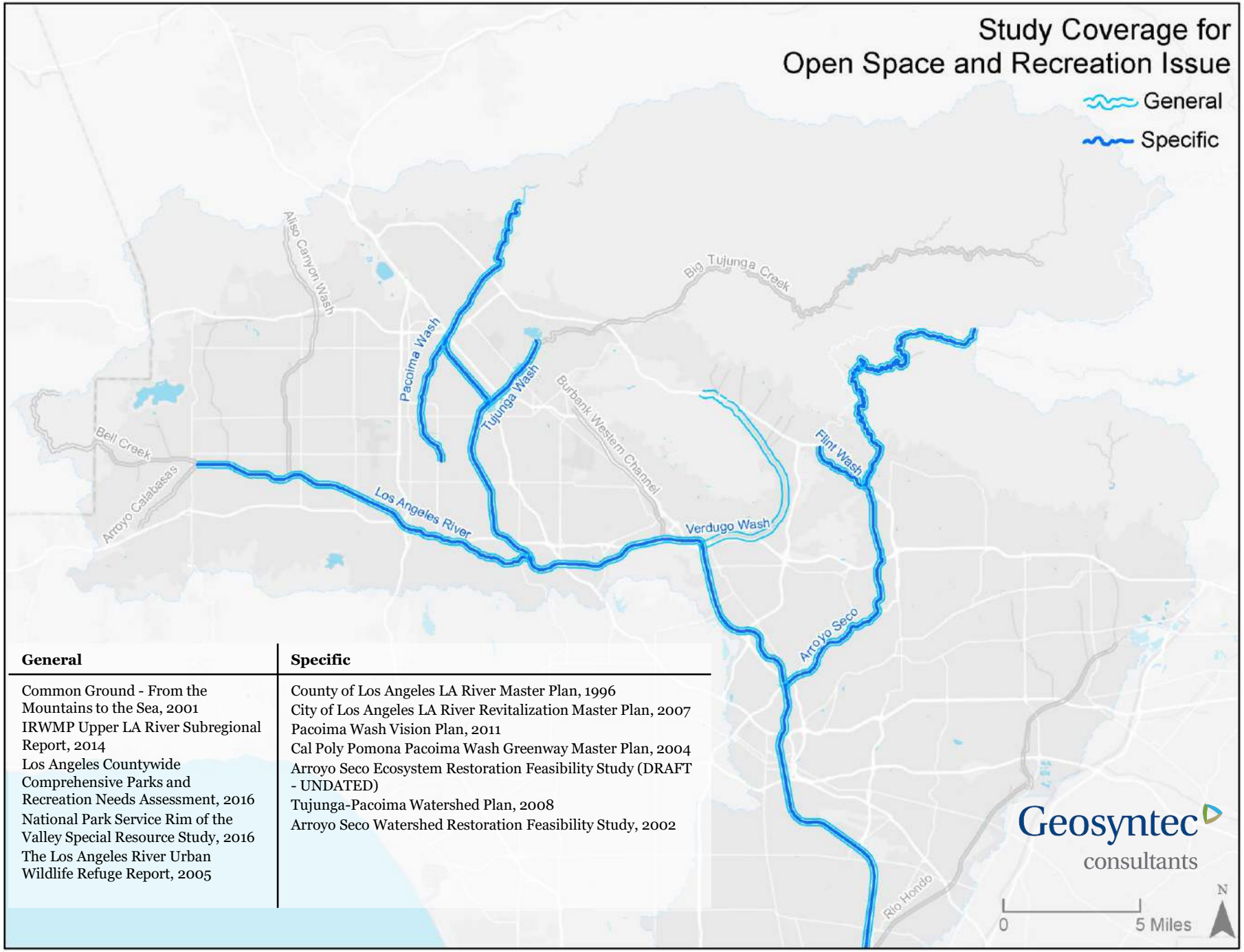
Los Angeles Sustainable Water Project: Los Angeles River Watershed, 2017	Army Corps of Engineers Los Angeles River Ecosystem Restoration Integrated Feasibility Report and its Recommended Plan, 2015
Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016	Pacoima Wash Vision Plan, 2011
National Park Service Rim of the Valley Special Resource Study, 2016	Cal Poly Pomona Pacoima Wash Greenway Master Plan, 2004
	Arroyo Seco Ecosystem Restoration Feasibility Study (DRAFT - UNDATED)
	Enhanced Watershed Management Program for the Upper Los Angeles River Watershed, 2016
	Water Supply and Habitat Resiliency for a Future Los Angeles River, 2016
	Los Angeles Sustainable Water Project: Los Angeles River Watershed, 2017
	Tujunga-Pacoima Watershed Plan, 2008
	Arroyo Seco Watershed Restoration Feasibility Study, 2002



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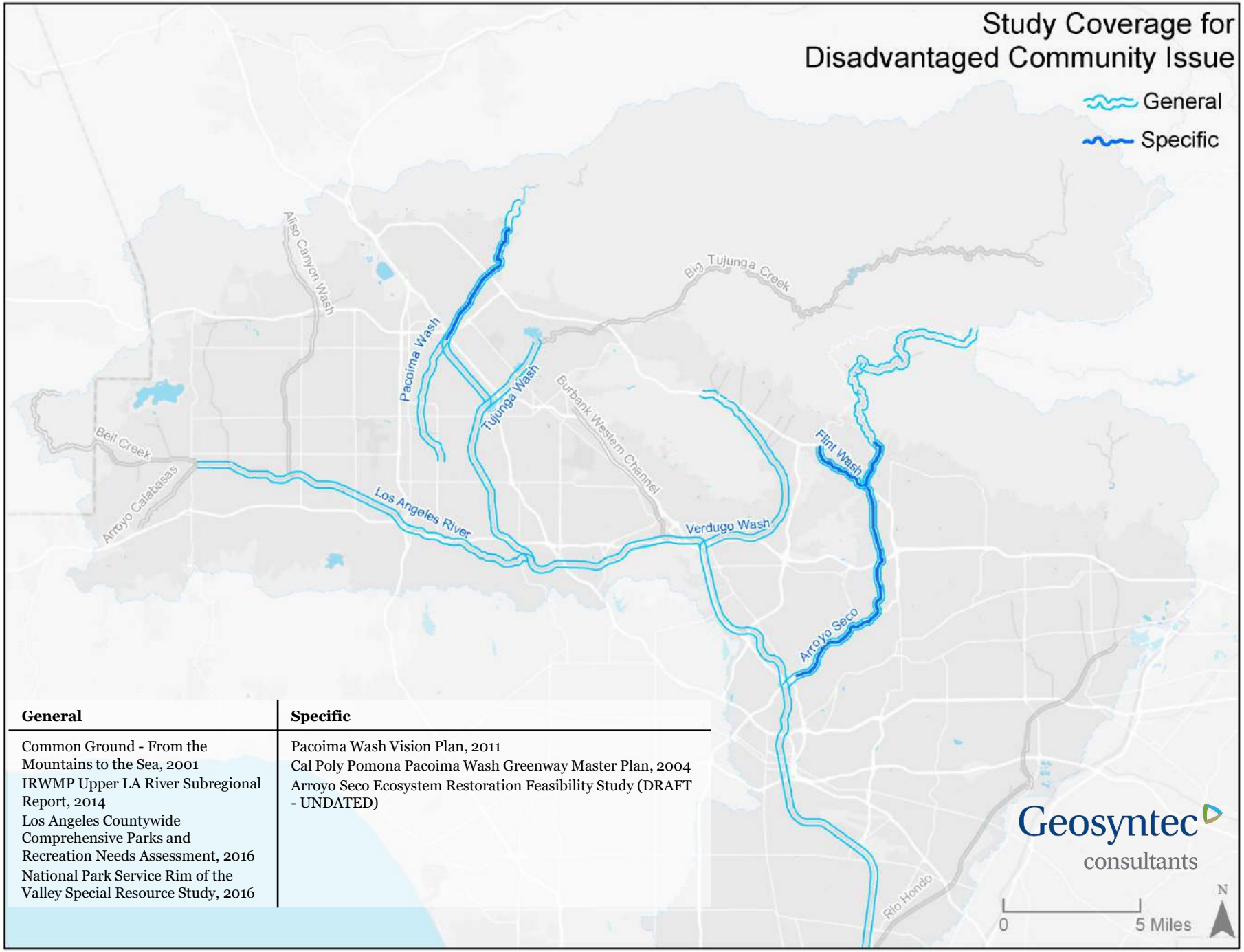

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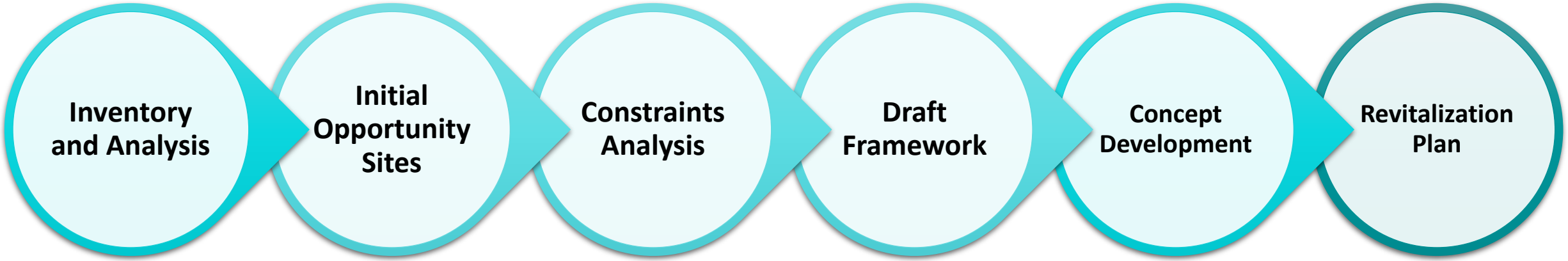
Plan Development Timeline

2018 | 2019



Community Engagement Plan

Community Outreach

TRIBUTARY CHARACTER

BROWNS CANYON

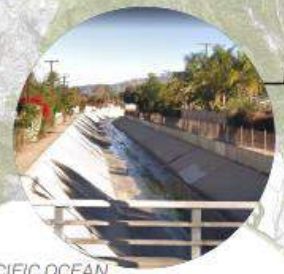
ALISO CANYON

CHATSWORTH CREEK

BELL CREEK

CABALLERO CREEK

ARROYO CALABASAS



BULL CREEK

CENTRAL BRANCH TUJUNGA

BURBANK CHANNEL

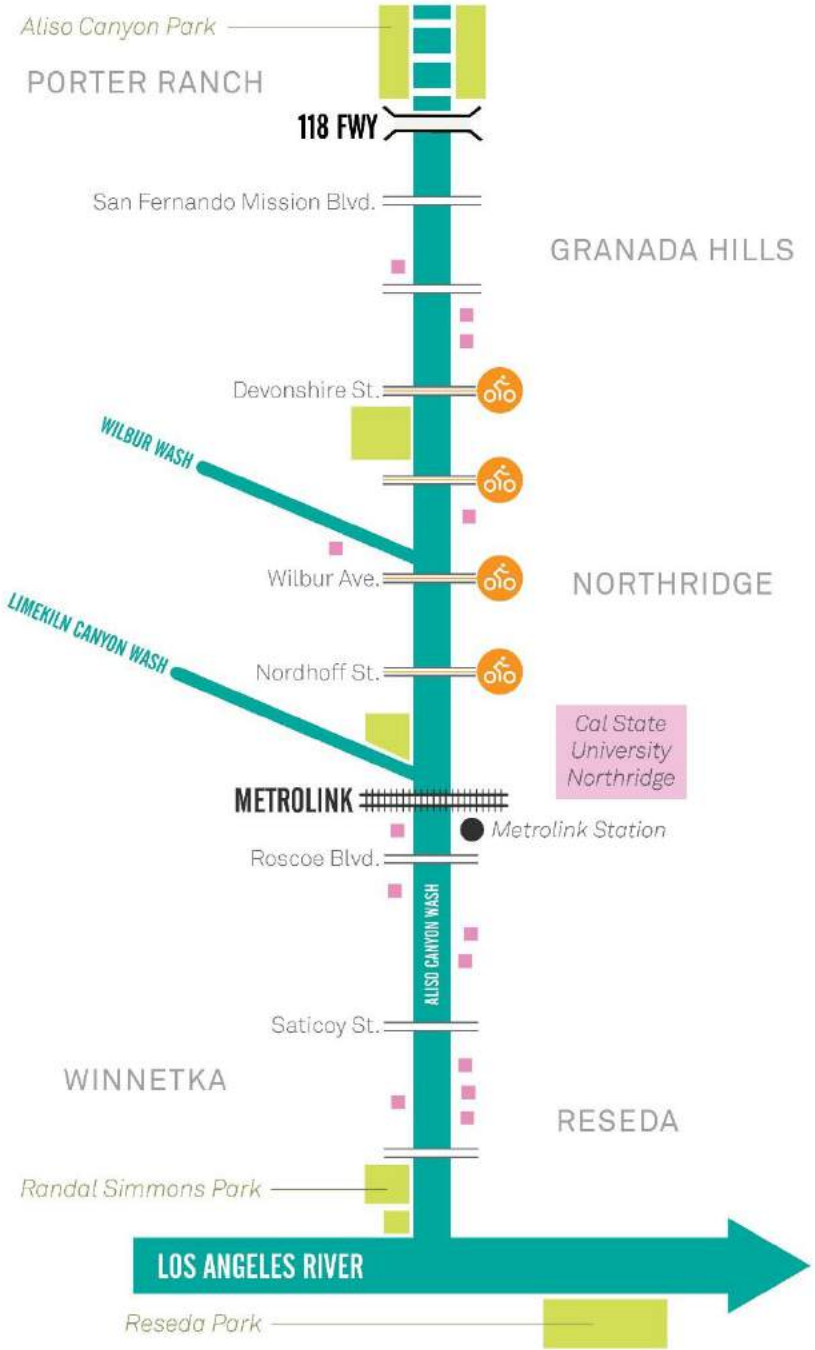
ANGELES NATIONAL FOREST

SANTA MONICA MOUNTAINS NATIONAL RECREATION AREA

PACIFIC OCEAN

San Fernando
Porter Ranch
Chatsworth
Winnetka
West Hills
Reseda
Van Nuys
Panorama City
Sherman Oaks
BURBANK
LOS ANGELES RIVER
VERDUGO MOUNTAINS
LA CANADA FLINTRIDGE
ALTADENA
PASADENA
GLENDALE
Eagle Rock
Atwater
Glassell Park
GRIFFITH PARK
Hollywood
HILLS
DOWNTOWN LOS ANGELES
SANTA MONICA
CULVER CITY
118
405
210
134
2
101
10
110
0 2 4 miles

ALISO CANYON



ALISO CANYON

Aliso Canyon Wash begins as an engineered channel exiting the Aliso Debris Basin just south of the Ronald Regan Freeway (SR 118) in Granada Hills, and flows through Northridge to its confluence with the Los Angeles River in Reseda. **The wash is concrete-lined with vertical walls throughout its 6.4-mile length.**

Equestrian Community along portions of tributary length that use portions of the unpaved path. Power corridor along sections. **Phase 1 of Aliso Creek Confluence Park opened in 2016.**

POPULATION WITHIN 0.5 MILES

- Density: 19 people/acre (LA County: 13)
- Household Income: $58K (LA County $54K)
- Community Burden: Bottom 40% of State

KEY ADJACENCIES INCLUDE

- Porter Ranch
- Cal State Northridge
- Northridge Recreation Center
- Northridge MetroLink Station
- Cleveland High School
- Blythe Street Elementary
- Randal D. Simmons Park
- Commercial zones on Zelah Ave and Nordhoff Way, Sherman Way

18 SCHOOLS WITHIN 0.5 MILES

PARK SPACE

- 1.91 acres per 1,000 people
- Mixture of local parks, and regional open spaces

SOME PREVIOUS PLANNING EFFORTS

- The Los Angeles River Revitalization Master Plan includes the development of the confluence of Aliso Canyon Creek and the Los Angeles River (Aliso Creek Confluence Park) as a proposed project.
- This area will provide opportunities for habitat restoration, greenways and bike trails as well as water quality treatment via restored wetlands.


KEY MAP
Aliso Canyon Park
PORTER RANCH
118 FWY
San Fernando Mission Blvd.
GRANADA HILLS
Devonshire
Wilbur Ave.
NORTHRIDGE
Nordhoff St.
Cal State University Northridge
METROLINK
Metrolink Station
Roscoe Blvd.
Sesnon Blvd.
Satsuma St.
WINNETKA
RESEDA
Ronald Simmons Park
OAKRIDGE ESTATE
RESIDENTIAL
10-15’
~20-25’
ALISO CANYON + DEVONSHIRE (facing south)

ALISO CANYON + VANOWEN ST (facing south)


KEY MAP
Aliso Canyon Park
PORTER RANCH
118 FWY
San Fernando Mission Blvd
GRANADA HILLS
Devonshire St
Wilbur Ave
NORTHRIDGE
Nordhoff St
Cal State University Northridge
METROLINK
Metrolink Station
Roscoe Blvd
Gaticoy St
WINNETKA
RESEDA
Randall Simmons Park
~10-15'
~10-15'
RESIDENTIAL
ALISO CREEK CONFLUENCE PARK
ALISO CANYON (LA River & Aliso Creek Confluence Park)


ANGELES NATIONAL FOREST
ALISO CANYON WASH
BROWNS CANYON WASH
BULL CREEK
PACOIMA WASH
TUJUNGA WASH
CHATSWORTH CREEK
BELL CREEK
BURBANK CHANNEL
VERDUGO WASH
VERDUGO MOUNTAINS
ARROYO SECO
CENTRAL BRANCH TUJUNGA
CABALLERO CREEK
LOS ANGELES RIVER
GRIFFITH PARK
San Fernando
Porter Ranch
Panorama City
Reseda
Van Nuys
Tarzana
Sherman Oaks
BURBANK
GLENDALE
Eagle Rock
Atwater
Glassell Park
Hollywood
118
210
405
101
134
2

ARROYO SECO

ARROYO SECO

The Arroyo Seco flows from its headwaters in the San Gabriel Mountains through the cities of La Canada Flintridge, Pasadena, and South Pasadena, to its confluence with the Los Angeles River near downtown Los Angeles. The upper half of the Arroyo Seco flows within the Angeles National Forest. Devils Gate Dam is located where the Arroyo Seco exits the forest.

The Arroyo Seco flows in a natural state above Devils Gate Dam and **is concrete lined the entire length below the dam**. The concrete walls of the engineered section have a trapezoidal configuration just upstream of the confluence with the Los Angeles River for about 3 miles then transitions to a vertical configuration where the 110 Freeway intersects Pasadena Avenue. It continues in this form until the Rose Bowl where it transitions back to a trapezoidal channel. **For most of its length, the creek flows through and adjacent to parks.**

The **Arroyo Seco bike path** runs adjacent to the creek for about 2-miles starting at East Avenue 43 . A major portion of this path descends into the creek bed and runs adjacent to the low-flow channel– allowing direct access to the creek. An **unpaved multi-use trail** runs adjacent to the creek for about two miles through Lower Arroyo Park. However, as it flows through the Brookside Golf Course no fencing is present and direct access to the creek is possible. A **new path section in South Pasadena** opened from York to Arroyo Seco Parkway.

POPULATION

- **Density: 23 people/acre (LA County: 13)**
- Household Income: $46K (LA County $54K)
- Community Burden: Bottom 38% of State

KEY ADJACENCIES INCLUDE

- Brookside Golf & Country Club
- Arroyo Park
- Arroyo Seco Golf Course
- Debs Regional Park
- Heritage Square Museum
- Sycamore Grove Park

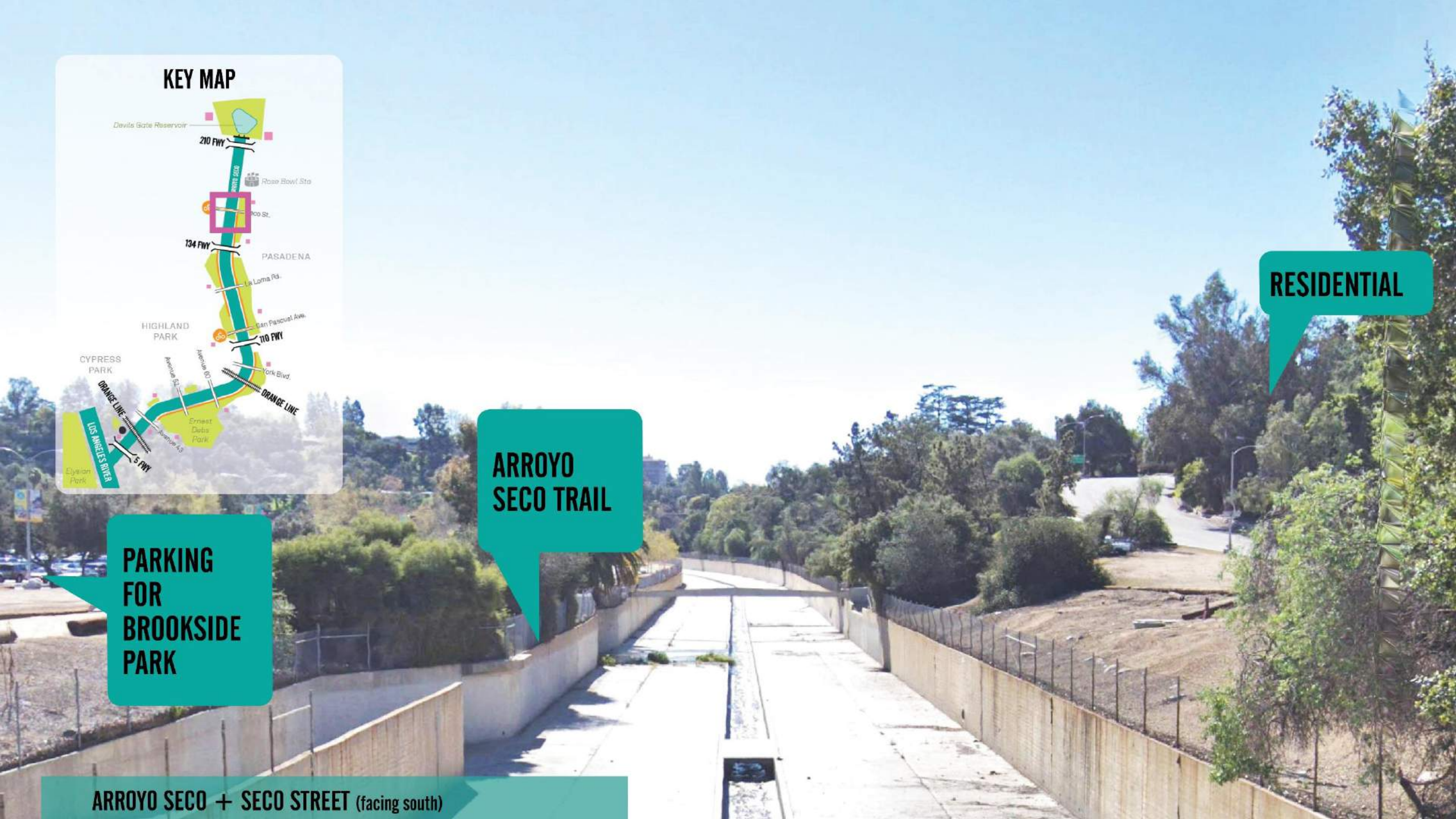
31 SCHOOLS WITHIN 0.5 MILES

PARK SPACE

- 9.36 acres per 1,000 people
- Most of Arroyo Seco flows through and adjacent to park

SOME PREVIOUS PLANNING EFFORTS

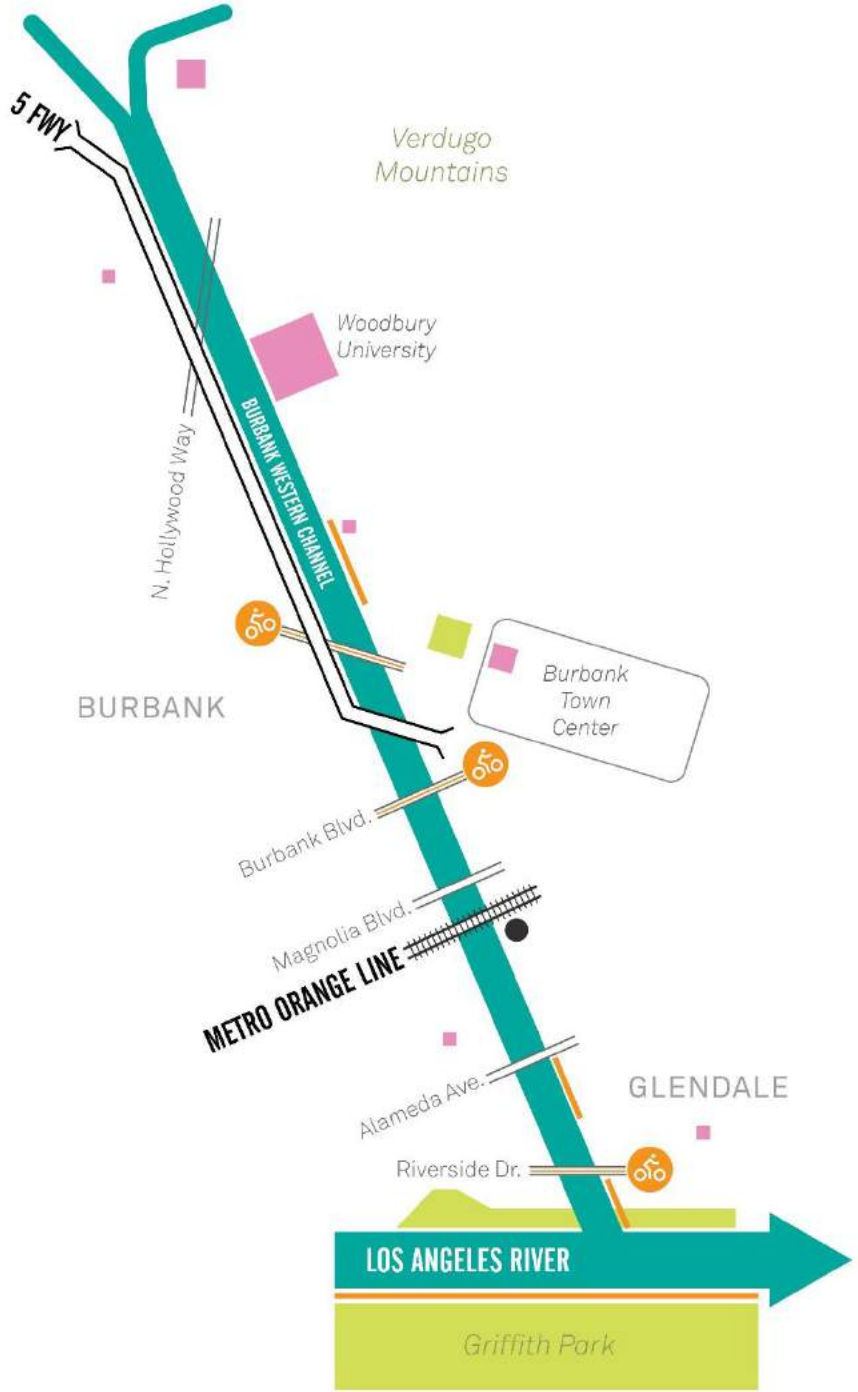
- One Arroyo Plan (2018)
- Arroyo Seco Watershed Assessment (2010)
- The Arroyo Seco Watershed Management and Restoration Plan (2006)
- The Los Angeles River Revitalization Master Plan identifies the Arroyo Seco's confluence with the Los Angeles River as an "opportunity area"


KEY MAP
Devils Gate Reservoir
210 FWY
ARROYO SECO
Rose Bowl Sta
Seco St.
134 FWY
PASADENA
La Loma Rd.
HIGHLAND PARK
San Pascual Ave.
110 FWY
CYPRESS PARK
Avenue 52
Avenue 60
York Blvd.
ORANGE LINE
ORANGE LINE
LOS ANGELES RIVER
Ernest Debs Park
Avenue 43
5 FWY
Elysian Park
RESIDENTIAL
ARROYO SECO TRAIL
PARKING FOR BROOKSIDE PARK
ARROYO SECO + SECO STREET (facing south)


KEY MAP
Devils Gate Reservoir
210 FWY
ARROYO SECO
Rose Bowl Sta
Seco St.
134 FWY
PASADENA
Loma Rd.
HIGHLAND PARK
San Pascual Ave.
110 FWY
CYPRESS PARK
Avenue 52
Avenue 60
York Blvd.
ORANGE LINE
ORANGE LINE
Ernest Debs Park
LOS ANGELES RIVER
Avenue 43
5 FWY
Elysian Park
ARROYO SECO TRAIL
LOWER ARROYO PARK
ARROYO SECO TRAIL
ARROYO SECO + LA LOMA (facing south)

ARROYO SECO + AVENUE26 (facing south)

BURBANK WESTERN CHANNEL



BURBANK WESTERN CHANNEL

The Burbank Western Channel is an **engineered channel** with its upstream end in the Sun Valley area of the City of Los Angeles, and the majority of its 6-mile length flowing through the City of Burbank. It eventually meets the Los Angeles River in the City of Los Angeles, just south of the borders of the cities of Burbank and Glendale.

The Burbank Western Channel **runs adjacent to the Santa Ana (5) Freeway for a significant portion** of its length. The entire channel is **concrete-lined with vertical walls.** Burbank Western Channel runs through the south-eastern corner of the Los Angeles Equestrian Center at its confluence with the Los Angeles River and an **equestrian trail** runs adjacent to the channel for about a quarter of a mile in this segment. There are also **segmented bike paths** along the channel, which is fenced on both sides, providing only visual access to it. There is a small pocket park -- Compass Park at Lake Street in Burbank which abuts the channel.

POPULATION WITHIN 0.5 MILES

- **Density: 26 people/acre (LA County: 13)**
- Household Income: $51K (LA County $54K)
- Community Burden: Bottom 31% of State

KEY ADJACENCIES INCLUDE

- Metro Link Station
- Metro Orange Line BRT station
- De Garmo Park
- Woodbury University
- Burbank Town Center
- George Washington Elementary School
- Commercial areas on Victory, San Fernando

17 SCHOOLS WITHIN 0.5 MILES

PARK SPACE

- 3.76 acres per 1,000 people
- Mixture of local parks, regional open spaces, and natural areas

SOME PREVIOUS PLANNING EFFORTS

In October 2009, Burbank reached an agreement on the 12-mile San Fernando Valley Bike way, a new bicycle path along San Fernando Boulevard from Sylmar to Burbank. This would include a portion next to the channel that connects to the Downtown Burbank MetroLink Station.

The Los Angeles River Revitalization Master Plan proposes a non-motorized bridge linking this path to a proposed Los Angeles River path in this segment

BURBANK WESTERN + NETTLETON STREET (facing south)


KEY MAP
5 FWY
Verdugo Mountains
Woodbury University
BURBANK WESTERN CHANNEL
N Hollywood Way
Burbank Town Center
BURBANK
Burbank Blvd
Magnolia Blvd
METRO ORANGE LINE
Alameda Ave
GLENDALE
Riverside Dr
LOS ANGELES RIVER
BUFFER TO GLENOAKS BLVD
~20-30'
BUFFER TO I-5
~10-20'
I-5
BURBANK WESTERN + LANARK STREET (facing south)

BURBANK WESTERN + BUENA VISTA STREET (facing south)

BURBANK WESTERN + SAN FERNANDO BLVD (facing south)

KEY MAP

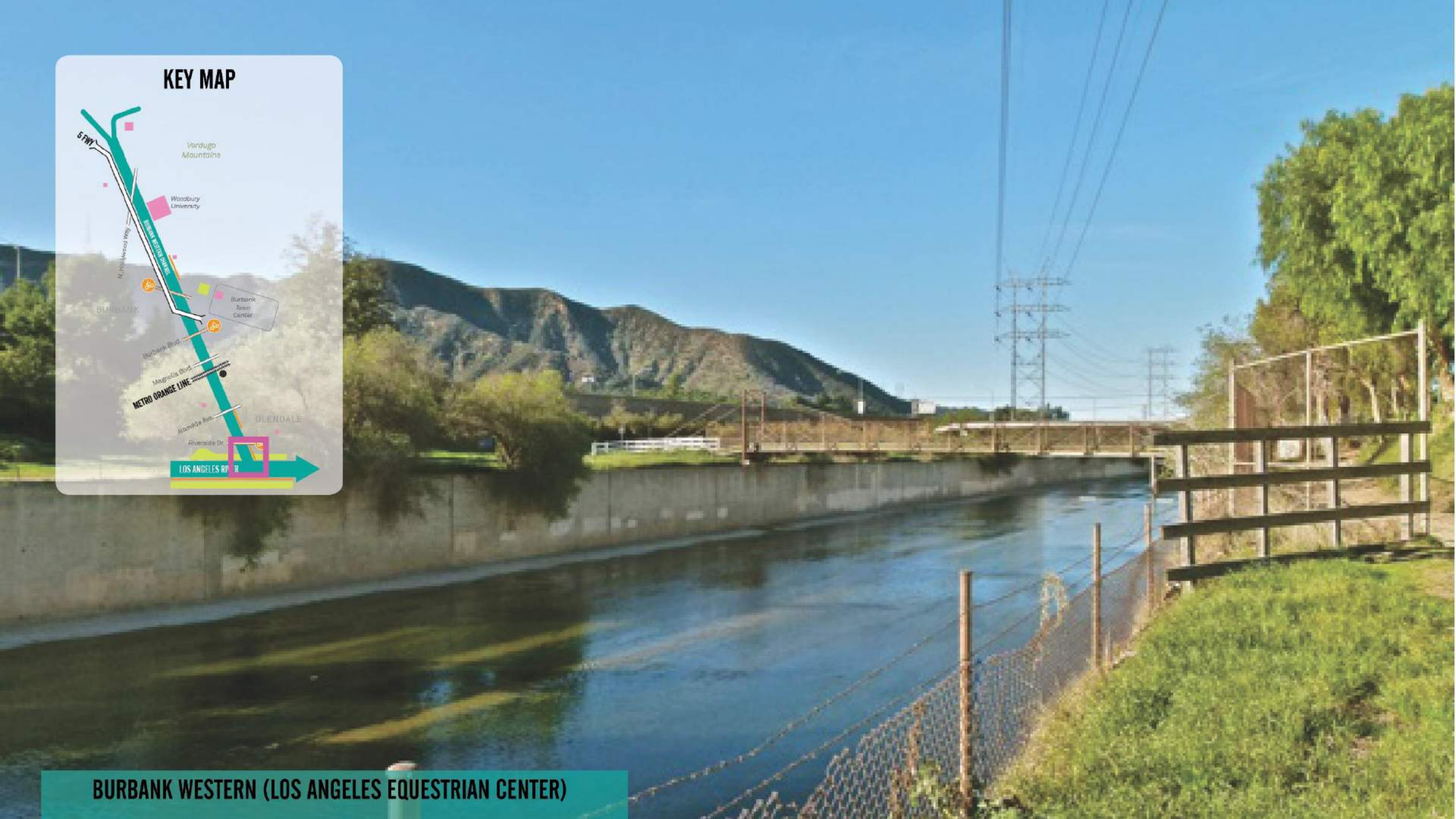
METROLINK RAIL

BURBANK WESTERN CHANNEL

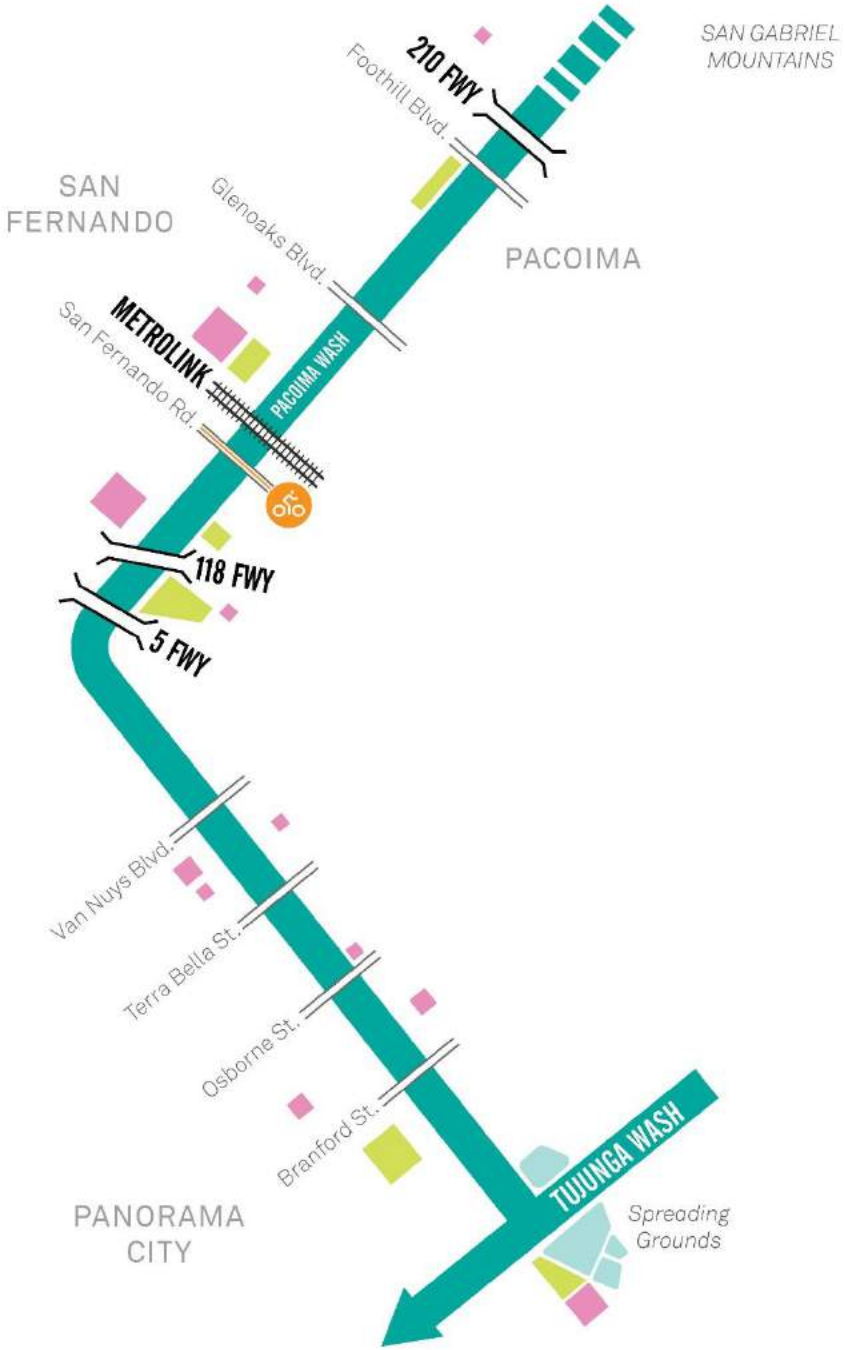
INDUSTRIAL

BURBANK WESTERN + BURBANK BLVD (facing south)

BURBANK WESTERN + PROVIDENCE AVE (facing south)


KEY MAP
5 FWY
Verdugo Mountains
Woodbury University
N. Hollywood Way
BURBANK WESTERN CHANNEL
BURBANK
Burbank Town Center
Burbank Blvd
Magnolia Blvd
METRO ORANGE LINE
Alameda Ave
GLENDALE
Riverside Dr
LOS ANGELES RIVER
BURBANK WESTERN (LOS ANGELES EQUESTRIAN CENTER)

PACOIMA WASH



PACOIMA WASH

Pacoima Wash is an **engineered channel** that begins immediately downstream of Lopez Dam, and flows through San Fernando, Pacoima, and Panorama City, before going underground and flowing through a covered channel to join Tujunga Wash in Van Nuys. The wash flows as a relatively shallow, gently sloping, trapezoidal channel throughout its length.

The **Pacoima - San Fernando - Sylmar path** is currently being planned. At present, there are no bike paths or multi-use trails along Pacoima Wash. The channel is fenced throughout its length. Pacoima Wash flows adjacent to Sepulveda Recreational Center in Panorama City and Paxton Park in Pacoima where it is visually accessible.

POPULATION WITHIN 0.5 MILES

- Density: 18 people/acre (LA County: 13)
- Household Income: $46K (LA County $54K)
- **Community Burden: Bottom 26% of State**

KEY ADJACENCIES INCLUDE

- Sepulveda Recreational Center
- Paxton Wash Natural Park
- Devonshire Arleta Park
- Commercial zone on Arroyo Street

40 SCHOOLS WITHIN 0.5 MILES

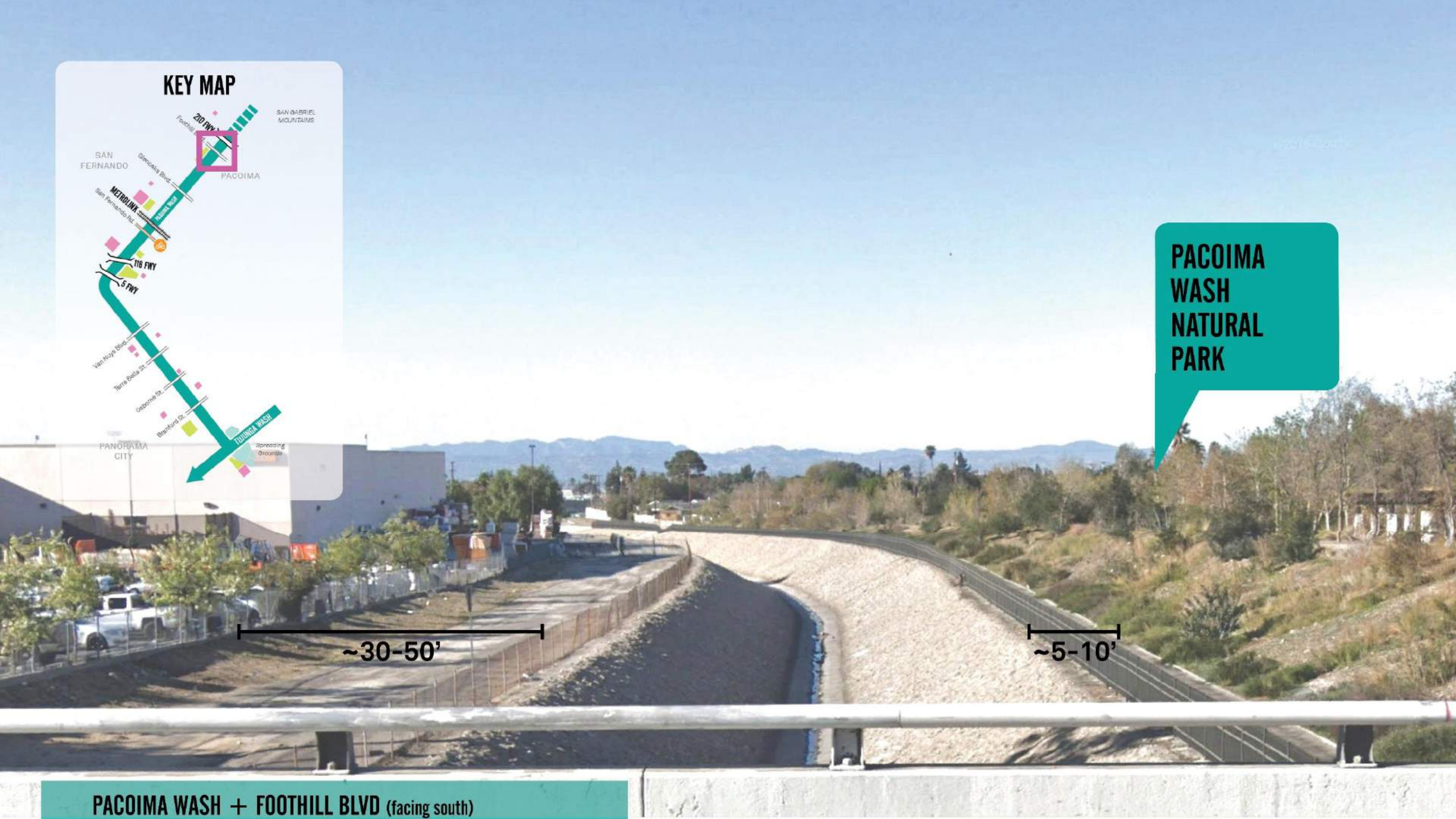
PARK SPACE

- 1.45 acres per 1,000 people
- Mainly local parks and natural areas

SOME PREVIOUS PLANNING EFFORTS

- The Tujunga Pacoima Watershed Plan includes proposed continuous separate bicycle and pedestrian paths along the wash, as well as adjacent parks and greenways to increase access.
- The Pacoima Wash Vision Plan developed by Pacoima Beautiful (a non-profit organization) echoes the goals of the management plan – proposing a series of parks, bike paths, and multi-use trails along the Wash.

PACOIMA WASH + 210 FREEWAY (facing south)

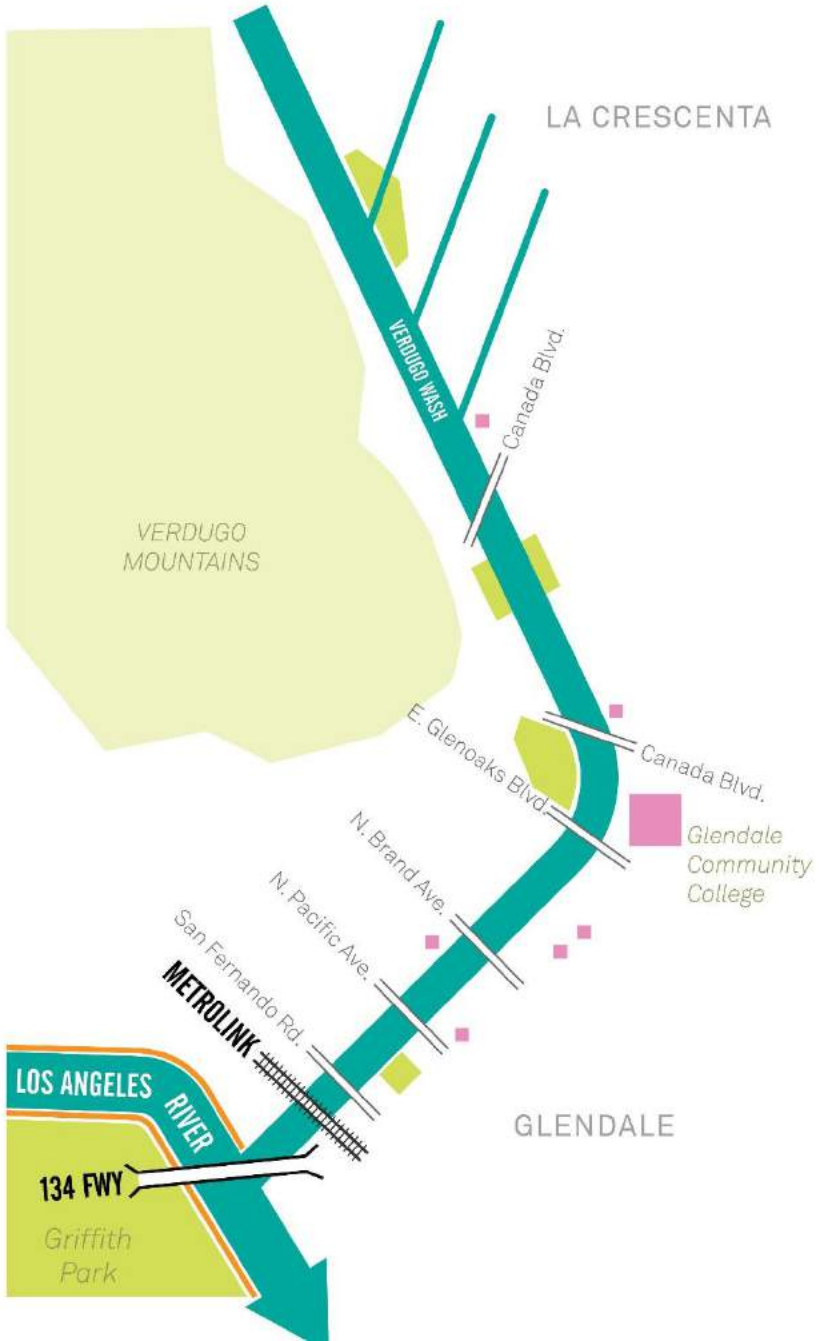


PACOIMA WASH + FOOTHILL BLVD (facing south)

PACOIMA WASH + LAUREL CANYON (facing south)

PACOIMA WASH + TERRA BELLA STREET (facing south)

VERDUGO WASH



VERDUGO WASH

Most of Verdugo Wash's course is within the City of Glendale - from the uppermost engineered section just upstream of Dunsmore Avenue and Honolulu Avenue in Crescenta Valley to its confluence with the Los Angeles River. The entire wash is **concrete-lined with vertical walls.**

There are **no bike paths or multi-use trail**s along Verdugo Wash. **The channel is fenced throughout its length**. It flows along the edge of the Crescenta Valley County Park, and through the Oakmont Country Club and Glorietta Park, providing visual access to the wash.

POPULATION WITHIN 0.5 MILES

- Density: 29 people/acre (LA County: 13)
- Household Income: $55K (LA County $54K)
- Community Burden: Bottom 49% of State

KEY ADJACENCIES INCLUDE

- Verdugo Park
- Glendale Community College
- Fremont Park
- Glorieta Park
- Crescenta Valley Park
- Oakmont Country Club
- Glendale Civic Auditorium
- Commercial zones on Glen Oaks and Foothill Boulevard

13 SCHOOLS WITHIN 0.5 MILES

PARK SPACE

- 5.24 acres per 1,000 people
- Mixture of small neighborhood parks, natural areas, and sport fields
- Key parks within 0.5 miles include: Griffith Park, Verdugo Mountains Open Space, Verdugo Park, Crescenta Valley Park

SOME PREVIOUS PLANNING EFFORTS

- Confluence with the Los Angeles River has been recognized as an "Opportunity Area" for potential development of recreational opportunities in the City of Los Angeles' Los Angeles River Revitalization Master Plan (LARRMP)
- Restoration of this confluence area also features as part of the Los Angeles River Ecosystem Restoration Integrated Feasibility Report, Alternative 20.


KEY MAP
LA CRESCENTA
VERDUGO MOUNTAINS
Foothill Blvd
Cañada Blvd
E. Glenoaks Blvd
Canada Blvd
Glendale Community College
N. Brand Ave
N. Pacific Ave
San Fernando Rd
METROLINK
LOS ANGELES RIVER
134 FWY
Griffith Park
GLENDALE
RESIDENTIAL
TRESPASSING, LOITERING FORBIDDEN BY LAW
NO DUMPING
THIS DRAINS TO OCEAN
TO REPORT ILLEGAL DUMPING CALL:
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
1-888-CLEAN LA
1-888-253-2652
RESIDENTIAL
VERDUGO WASH + MARKRIDGE ROAD (facing south)


KEY MAP
LA CRESCENTA
VERDUGO MOUNTAINS
Honolulu Ave
Ocanada Blvd
E Glenoaks Blvd
Canada Blvd
Glendale Community College
N Brand Ave
N Pacific Ave
San Fernando Rd
METROLINK
LOS ANGELES RIVER
134 FWY
Griffith Park
GLENDALE
CRESCENTA VALLEY PARK
VERDUGO WASH + HONOLULU AVE facing south)


KEY MAP
LA CRESCENTA
VERDUGO MOUNTAINS
Canada Blvd.
E. Glenoaks Blvd.
Glendale Community College
N. Brand Ave.
N. Pacific Ave.
San Fernando Rd.
METROLINK
LOS ANGELES RIVER
134 FWY
Griffith Park
GLENDALE
RESTAURANTS
INSURANCE AGENT
VERDUGO WASH + PACIFIC AVE (facing south)

TUJUNGA WASH

TUJUNGA WASH

Tujunga Wash is a major tributary in the Los Angeles River. The engineered section flows as a concrete-lined channel with vertical walls from its upstream end, below Hansen Dam, to its confluence with the Los Angeles River in the Studio City area of the City of Los Angeles.

The **Tujunga Wash Greenway** which includes a multi-use trail and a man-made stream run along both sides of Tujunga Wash for one-mile from Vanowen Street to Oxnard Street in the Valley Glen area of the City of Los Angeles. This provides visual access to the wash in this segment. However, the nature of the fencing prevents direct access to the wash. Also, just upstream of its confluence with the Los Angeles River, Tujunga Wash flows adjacent to Moorpark Park in Studio City, providing visual access.

POPULATION WITHIN 0.5 MILES

- **Density: 38 people/acre (LA County: 13)**
- Household Income: $51K (LA County $54K)
- Community Burden: Bottom 30% of State

KEY ADJACENCIES INCLUDE

- Hansen Dam
- Hansen Spreading Grounds
- Fulton Avenue Park
- Tujunga Greenbelt
- Monarch Stadium
- Moorpark Park
- Commercial zones on Victory Blvd and Coldwater Canyon Ave

25 SCHOOLS WITHIN 0.5 MILES

PARK SPACE

- 1.65 acres per 1,000 people
- Mainly local parks such as Valley Village and Woodbridge Park

SOME PREVIOUS PLANNING EFFORTS

- The Tujunga Pacoima Watershed Plan was developed by The River Project, an environmental organization, in 2008
- Proposed projects within the plan include construction of continuous and separate bicycle and pedestrian paths along the wash, as well as adjacent parks and greenways to increase access
- The Los Angeles River Revitalization Master Plan identifies the confluence of Tujunga Wash and the Los Angeles River as an opportunity area for development of a river greenway and for constructed wetlands for regional water quality treatment.

TUJUNGA WASH + GLENOAKS BLVD (facing south)


KEY MAP
Hansen Dam & Open Space
PACOIMA
Glenoaks Blvd
Hansen Spreading Grounds
San Fernando Rd
SUN VALLEY
5 FWY
Tujunga Wash
Spreading Grounds
PANORAMA CITY
Roscoe Blvd
METROLINK
Sherman Way
VALLEY GLEN
Victory Blvd
Tujunga Wash
Burbank Blvd
Chandler Blvd
Riverside Dr
101 FWY
LOS ANGELES RIVER
STUDIO CITY
UTILITY EASEMENT
I-5
RESIDENTIAL
~50-75'
TUJUNGA WASH + LAUREL CANYON (facing south)

TUJUNGA WASH + ROSCOE BLVD (facing south)

TUJUNGA WASH + SHERMAN WAY (facing south)


KEY MAP
Hansen Dam & Open Space
PACOIMA
Glenoaks Blvd.
Hansen Spreading Grounds
San Fernando Rd.
SUN VALLEY
5 FWY
Spreading Grounds
PANORAMA CITY
Roscoe Blvd.
METROLINK
Sherman Way
VALLEY GLEN
Victory Blvd.
Burbank Blvd.
Chandler Blvd.
Riverside Dr.
101 FWY
LOS ANGELES RIVER
STUDIO CITY
BURBANK BLVD.
12800 W.
TUJUNGA GREENBELT
~50-75'
TUJUNGA WASH + BURBANK BLVD (facing south)

Tributary Resident Questions

- Tell us a story of what it is like living here
- What is your life like?
- Is it noisy? Crowded? Trash/Litter?
- What is transportation/traffic like? Do you see bicyclists? A lot of Pedestrians? People taking the bus?
- Is there shade? Do you see Landscaping?
- What should we know about your tributary/community?

Item 8. Case Studies and Best Practices

01 GUADALUPE RIVER PARK (1995-2005)

San Jose, California
Length: 2 miles

Integrating flood control site, wildlife, and recreation

WHY IS IT SIMILAR?

- Mix of commercial, dense residential, and freeways
- Existing trails that didn't connect
- Provide protection from 100-year flood events
- Opportunity for recreation and wildlife

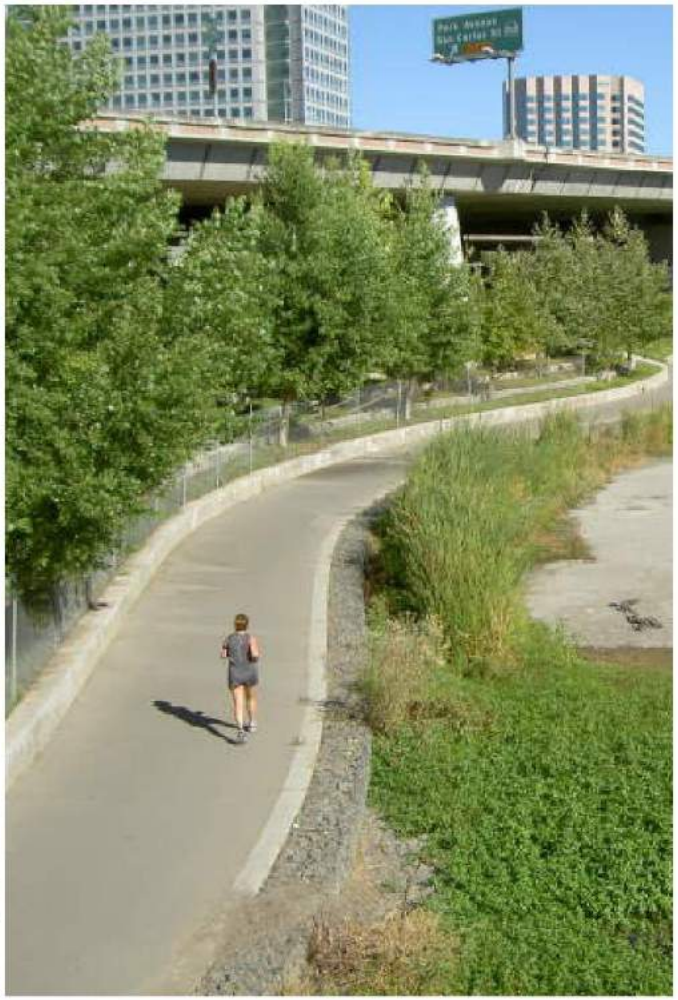
01 GUADALUPE RIVER PARK (1995-2005)

San Jose, California
Length: 3 miles

Integrating flood control site, wildlife, and recreation

STRATEGIES

- Underground flood water bypass channel overlaid with open space
- Connected trail system
- Purchased homes next to the river to create spreading grounds
- Used recycled water to meet irrigation needs



02 CONWAY URBAN WATERSHED FRAMEWORK PLAN (2016)

Little Creek-Palarm Creek Sub-watershed
Conway, Arkansas
Length: 10 miles

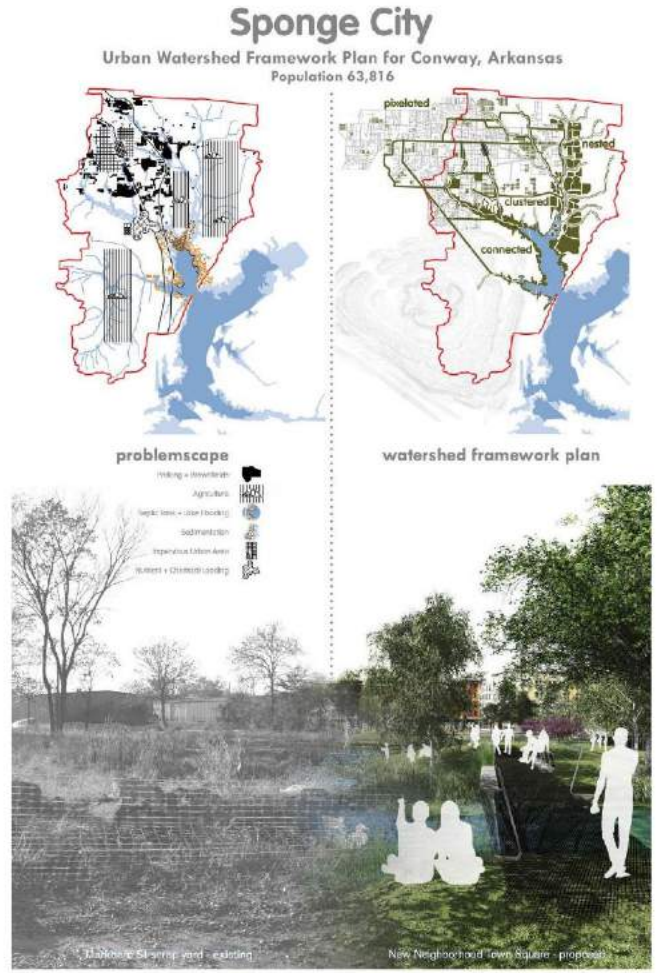
A plan for urban growth and biodiversity

WHY IS IT SIMILAR

- Growing city with development needs
- Unique ecological conditions
- Desire for flexible typologies that could be context specific

STRATEGIES

- Portfolio of typologies that mix green and urban needs
  - Green streets
  - Water treatment art parks
  - Urban eco-farms
  - Parking gardens
  - City greenway—complementing mainstream infrastructural investments.



https://www.villanova.edu/content/dam/villanova/engineering/vcase/sym-presentations/2001/A31.pdf
http://www.wplp.net/


City Greenway
protects the riparian landscape as a continuous ecosystem for optimum recreational and watershed functioning that provide **provisioning** and **cultural services,** including continuous wildlife corridors and sustained genetic diversity in **supporting services**.
Neighborhood Drifts
combine linear remediation landscapes for auto parking, providing water and disturbance **regulating services,** with wildlife corridors and extensive habitat as **supporting services**.
Vegetated Riparian Bank
combines **regulating** and **cultural services** by capitalizing on the intrinsic aesthetics of the floodplain as residential frontage, protecting riparian functioning while increasing property values.
Floodplain Terraces
reconstruct wetland plant communities at the decommissioned waste water treatment plant providing water and disturbance **regulating services,** while offering **cultural services** through recreational amenities.

03 MILL CREEK WATERSHED (Late 1990s)

Community-first planning effort

Mill Creek Watershed Redevelopment Project
+ West Philadelphia Landscape Project
West Philadelphia, Pa
Length: 5 Miles

WHY IS IT SIMILAR

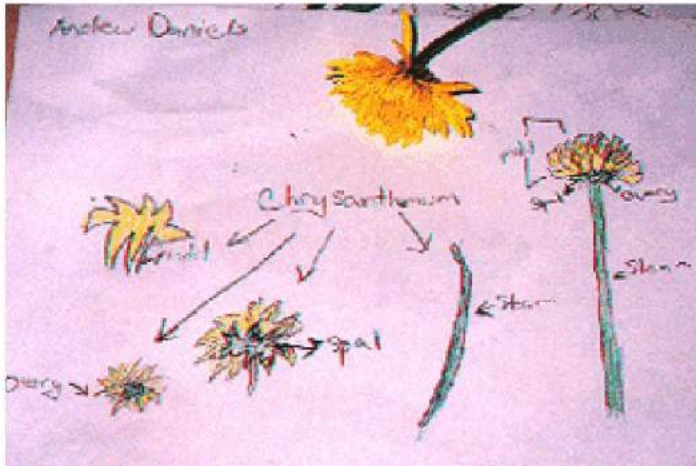
- Neglect of Mill Creek led to cave-ins, polluted water downstream, and disadvantage for communities along the creek
- Vacant land along the creek was an opportunity to restore nature and rebuild neighborhoods

STRATEGIES

- Multi-year, multi-platform, deep community engagement
- Community art for placemaking
- Reconnect communities to the natural and urban water resource
- Enhance the science and environmental curriculum at the neighborhood's Sulzberger Middle School
- Leverage multi-level government policies to create incentives for Stormwater BMP projects

https://www.villanova.edu/content/dam/villanova/engineering/vcase/sym-presentations/2001/A31.pdf
http://www.wplp.net/


Process
to
Topic
fting
Topic


Andrew Daniels
Chrysanthemum

04 SAN PEDRO CREEK (2015-Ongoing)

Using the Creek to the tell the story of San Antonio

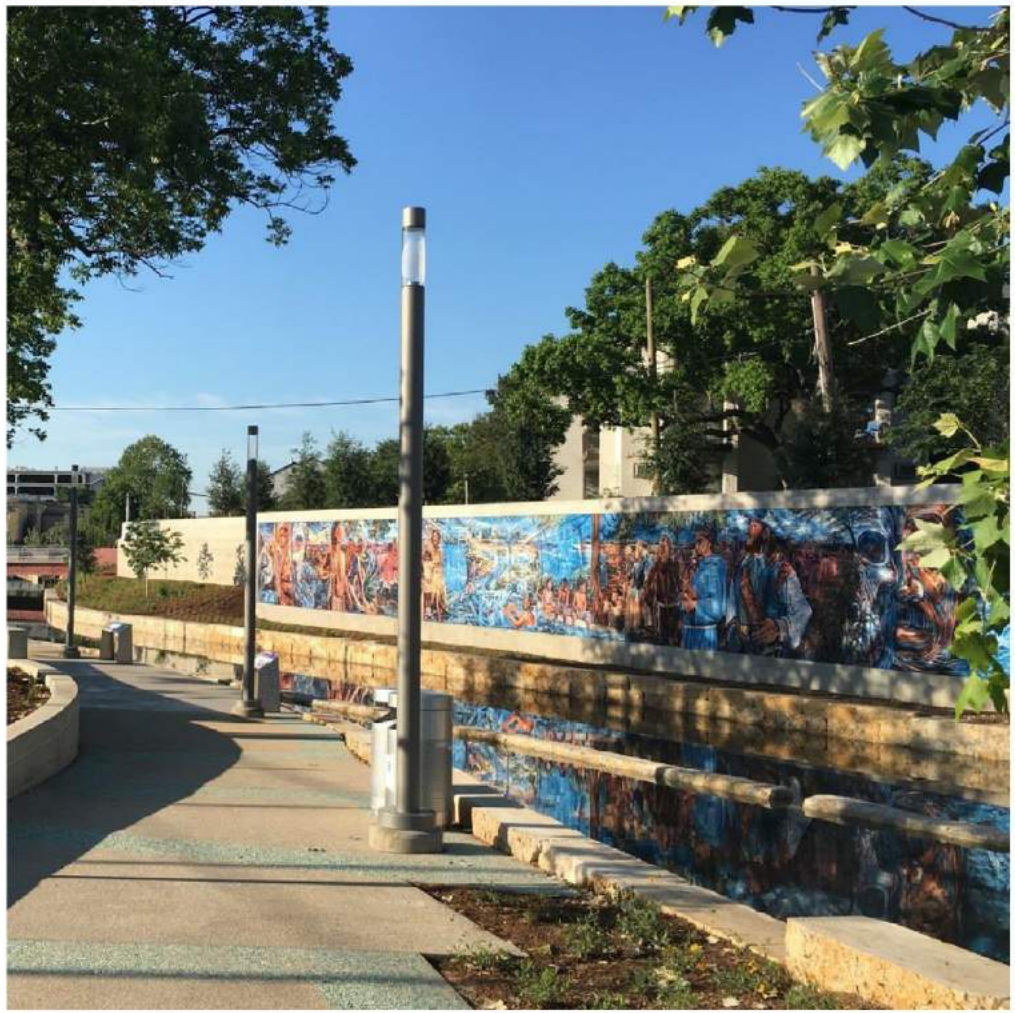
San Antonio Watershed Authority+ San Pedro Creek Culture Park
San Antonio, Texas
Length: 2 Miles

WHY IS IT SIMILAR

- Need to upgrade existing stormwater infrastructure and increase access to the river
- Developed in an urban area west of downtown

STRATEGIES

- Fuses public art, landscaping, and placemaking
  - 60,000 feet of new walls, murals and artwork
  - Four miles of walking trails
  - 11 acres of landscaping,
  - Eight restored and redesigned bridges.
- Green schools and place-based education



PARK DESIGN

Interpretive, and innovative, recreational opportunities

Access to Water

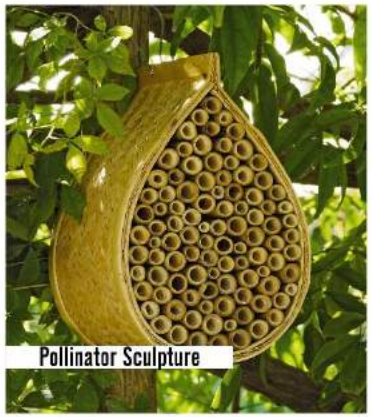
Promote community values and local culture

HABITAT RESTORATION

Ecological connections


Riparian Corridor BMPs


Habitat Crossings


Pollinator Sculpture


Bat Boxes


Living Structures


Bird Houses

Support Habitats


Stormwater Filtration


Stormwater Filtration

Clean Water

GREEN INFRASTRUCTURE

Flood Management


Streetscape Infiltration


Water Treatment


Stormwater Filtration

Treatment & Filtration


Water Re-Use Project


Floating Wettland

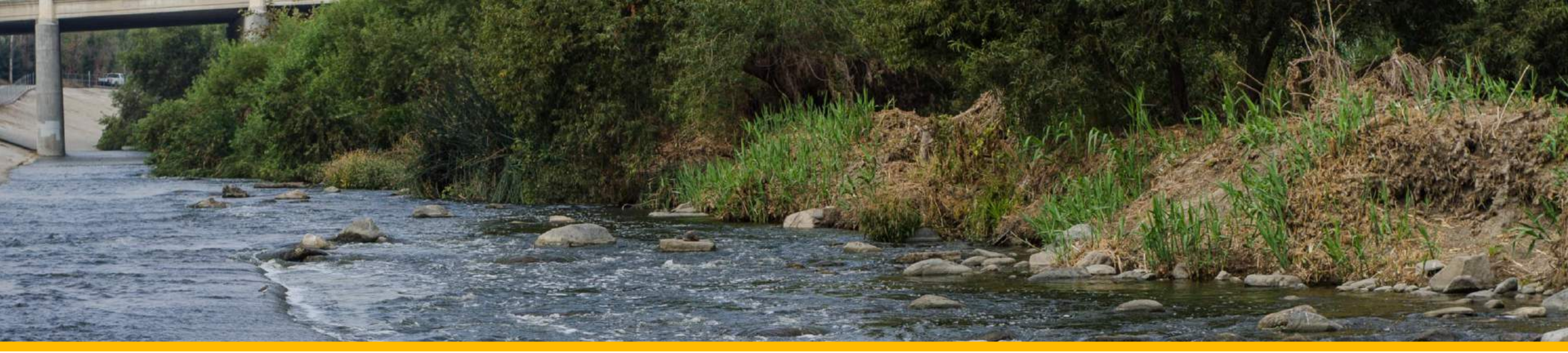
CONNECTIVITY

Trails, Paths & Bridges

Wayfinding & Interpretive Signage

Item 9. Biodiversity Index Presentation

Item 10. Committee Member Comments



Item 11. Announcement of future meetings and adjournment

Contact Information

Santa Monica Mountains Conservancy, Board Secretary

- Tel. No. (310) 589-3200, Extension 118
- Email: river@smmc.ca.gov

Mountains Recreation and Conservation Authority

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- Email: sarah.rascon@mrca.ca.gov
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AB 466: Upper Los Angeles River and Tributaries Revitalization Plan

Water and Environment Committee

November 15, 2018