



Fox Hills Park Multi-Benefit Stormwater Capture

Technical Resources Program

Fiscal Year 2024-2025

Central Santa Monica Bay

Sean Singletary, City of Culver City

Javier De La Cruz, City of Culver City

Larry Tortuya, CWE

Previously Awarded TRP – No



Project Overview

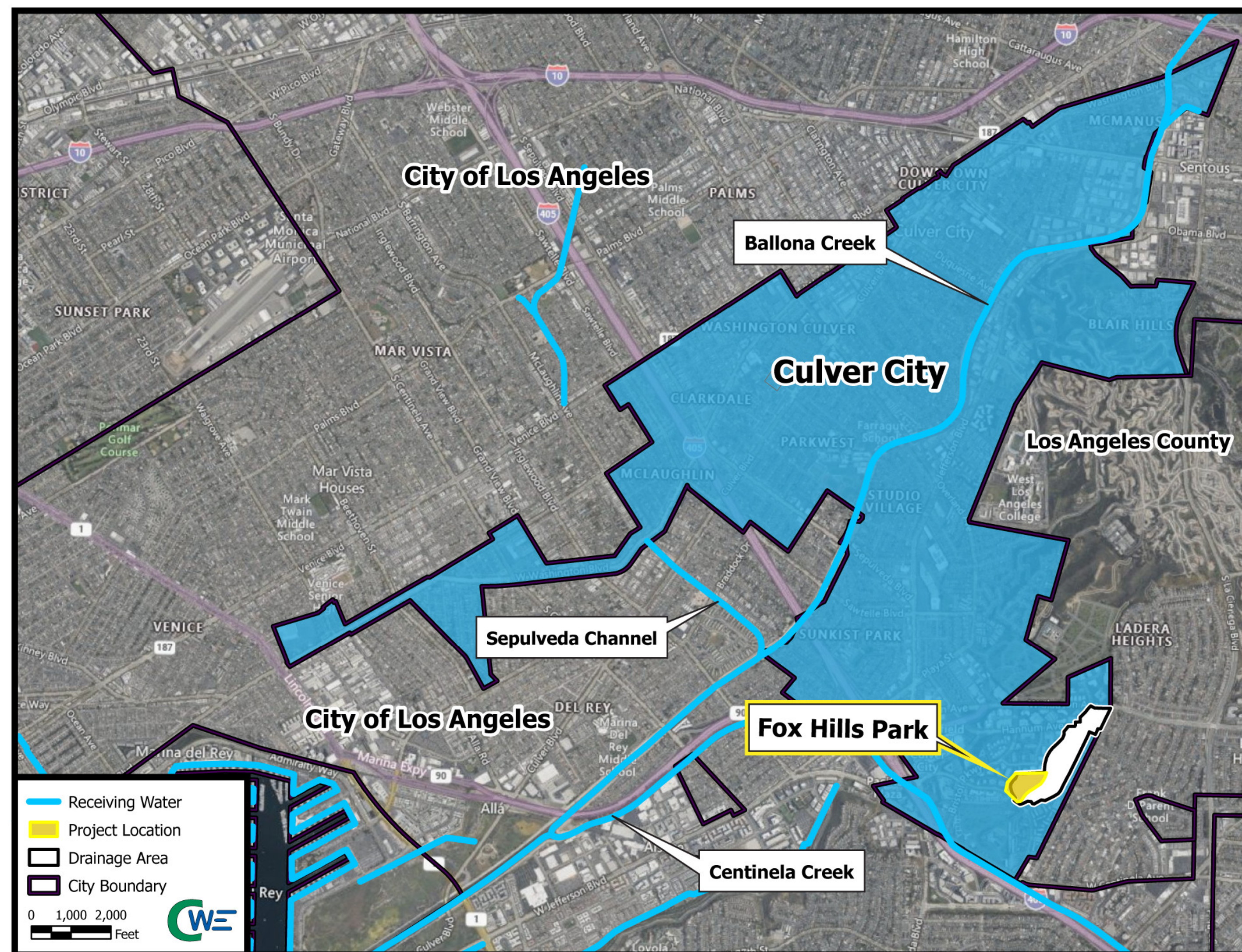
Conduct a feasibility study for the Project, which would capture and infiltrate runoff at Fox Hills Park to assist in meeting TMDL targets.

- Primary Objective: Capturing, pretreating, and infiltrating (or treating) dry- and wet-weather runoff to improve water quality in alignment with existing Total Maximum Daily Loads (TMDLs) for Ballona Creek.
- Secondary Objectives: Increasing water supply and mitigating flood risk within the City and downstream jurisdiction. Additionally incorporating multiple benefits, including surface improvements, public education, and nature-based solutions.
- Project Status: Planning
- Total Funding Requested: \$400,000



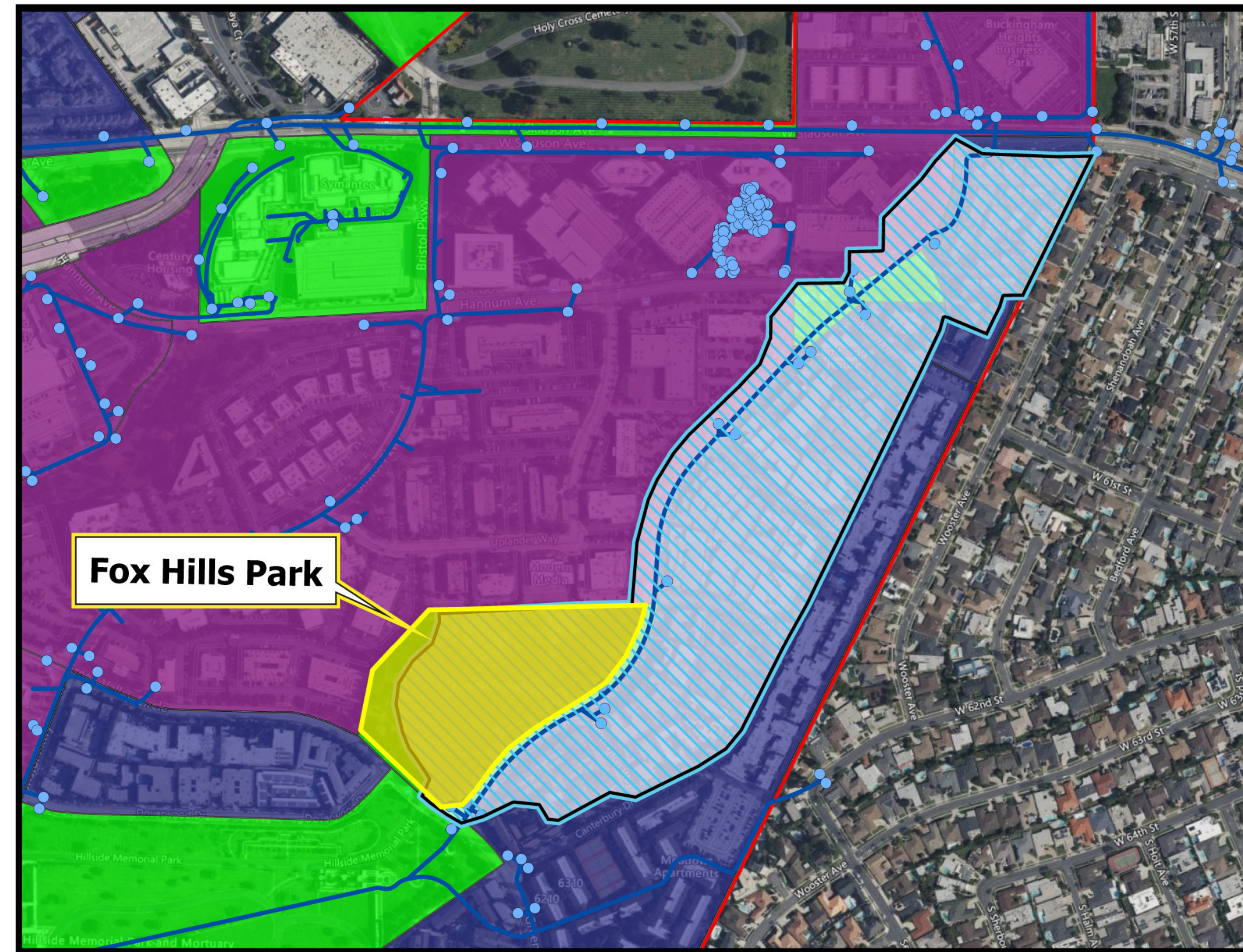
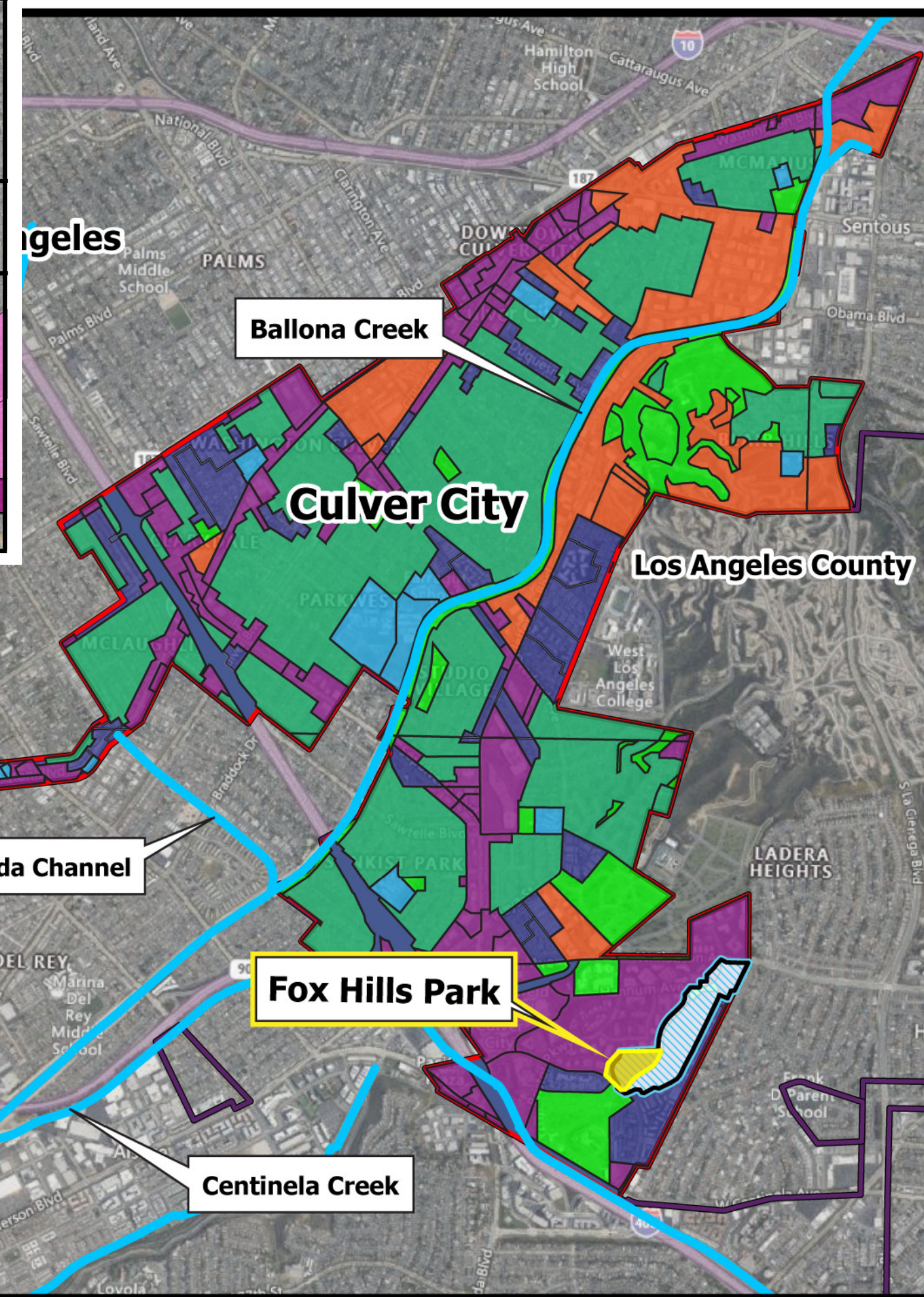
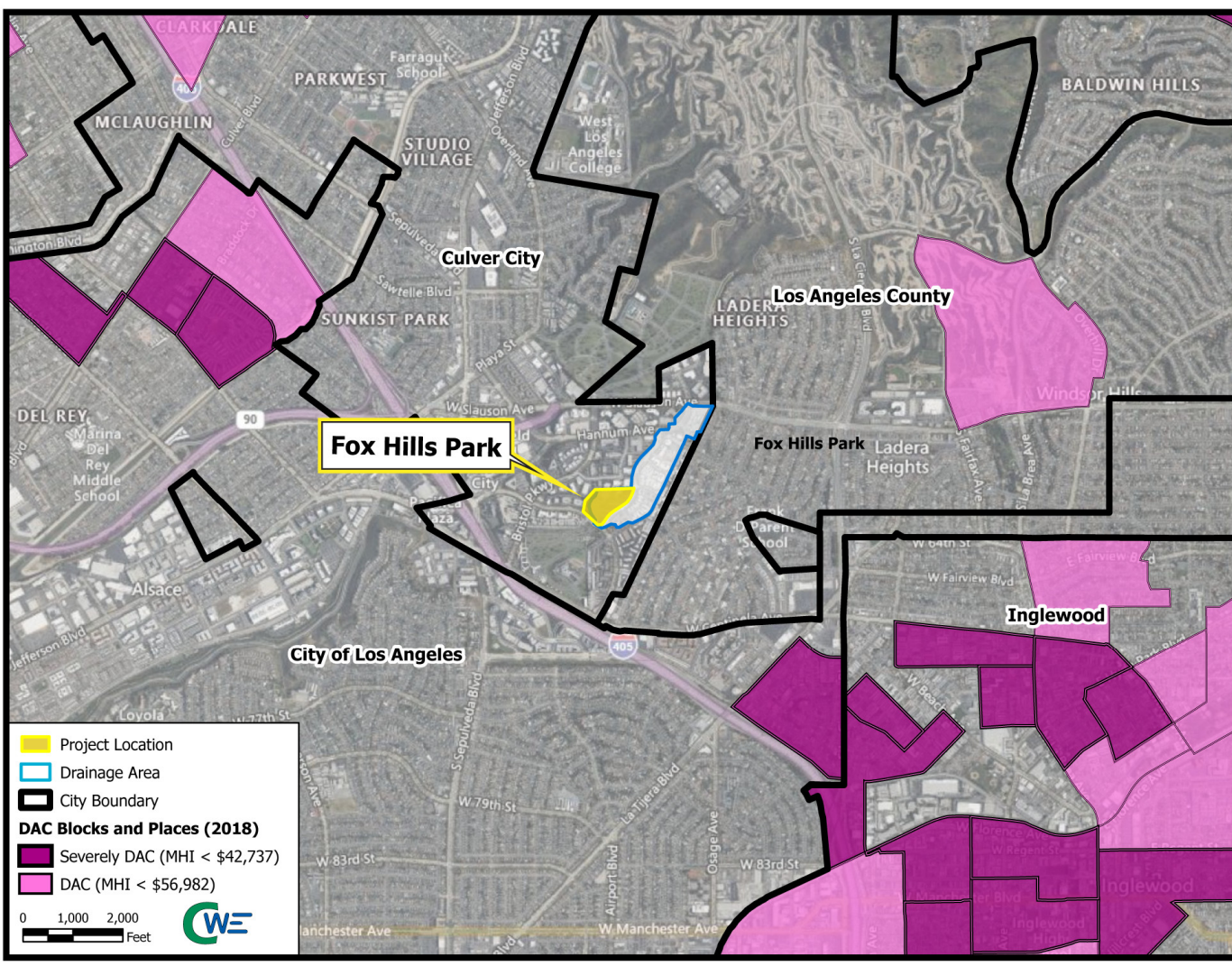


Project Location





Project Location





Project Background

- Why was the Project Location selected?
 - Ideal open space location adjacent to drainage facility
 - Good potential for improvements Water Quality, Water Supply, and Flood Management
 - Location Provides local residents with Community Investment and Nature Based benefits
- How was the Project developed?
 - A multi-benefit project under the City's Stormwater Quality Master Plan (SWQMP)
- Which regional water management plan includes the proposed project?
 - The Ballona Creek Enhanced Watershed Management Program (EWMP) group



Project Background

- **Description of benefits to municipality/municipalities**
 - Address the Ballona Creek Bacteria TMDLs
 - RWQCB and MS4 Permit
 - Subject to TMDLs for metals and bacteria which require full compliance by 2026
 - Eliminate a portion of dry weather flows
 - Vector Control benefits
- **Description of benefits to Disadvantaged Communities**
 - Improve water quality and water supply
 - Improve flood management/reduce flood risks
 - Enhancing park space and recreational opportunities
 - Reduce heat local island effect
 - Incorporate nature-based solutions
 - Beautify the public park and improve the community's quality of life
 - Focused outreach and engagement

*The project area is not within a mapped DAC. The project site is within 0.5 miles buffer of DAC areas. The general location of the nearest DAC is in the vicinity of 64th Street and Halm Ave in incorporated LA County.



Partners

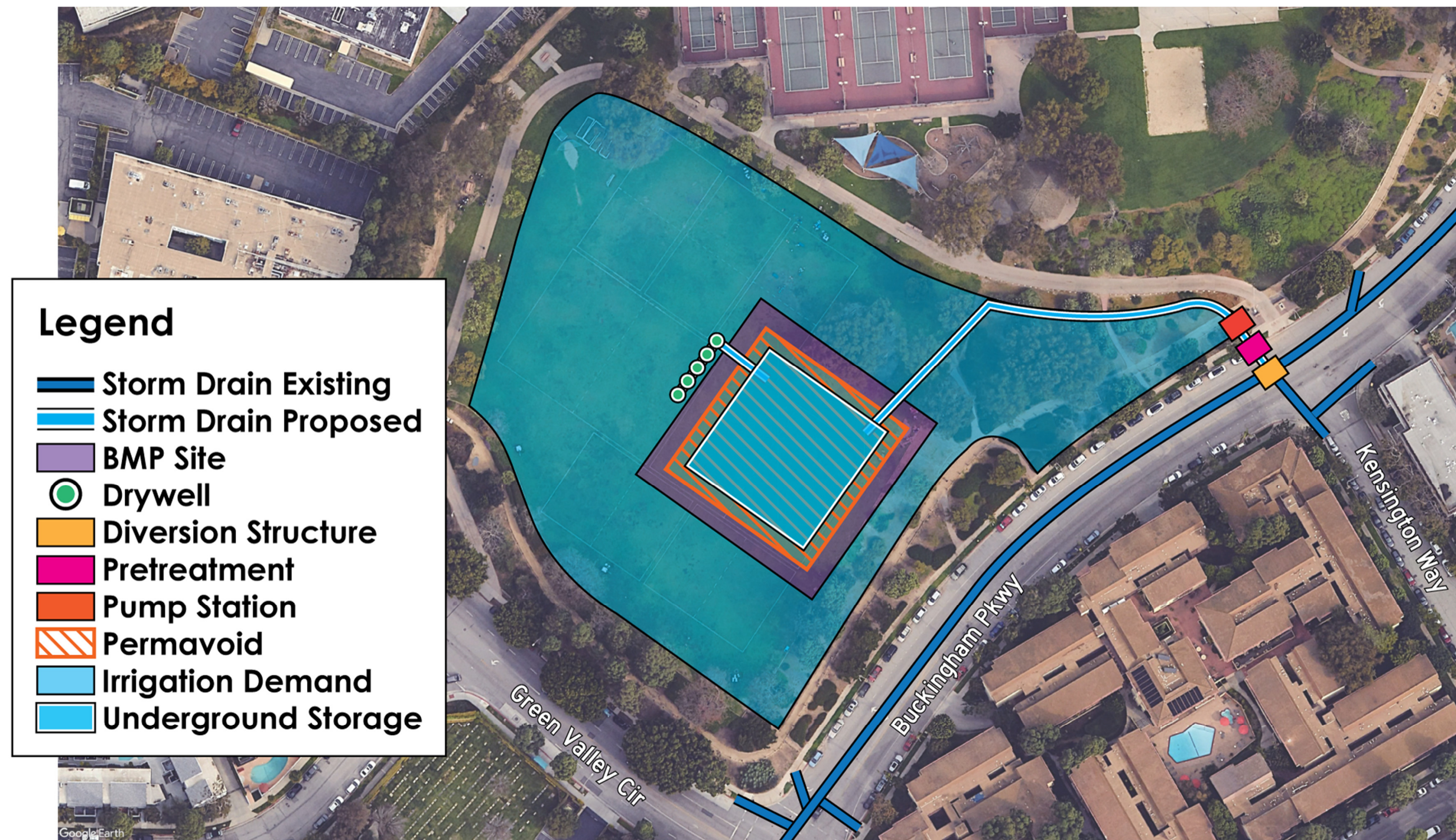


- Who are the implementation partners already identified?
 - The City of Culver City.
- What communities or groups have expressed support for the project?
 - Baldwin Hills and Urban Watersheds Conservancy, Ballona Creek Renaissance, and the Mayor's Office.
 - Multiple community organizations, residents, and businesses
- Letter of Concurrence
 - Municipality - Not Needed
 - Flood Control District - Not Needed
- Will require coordination with appropriate Vector Control District





Project Details

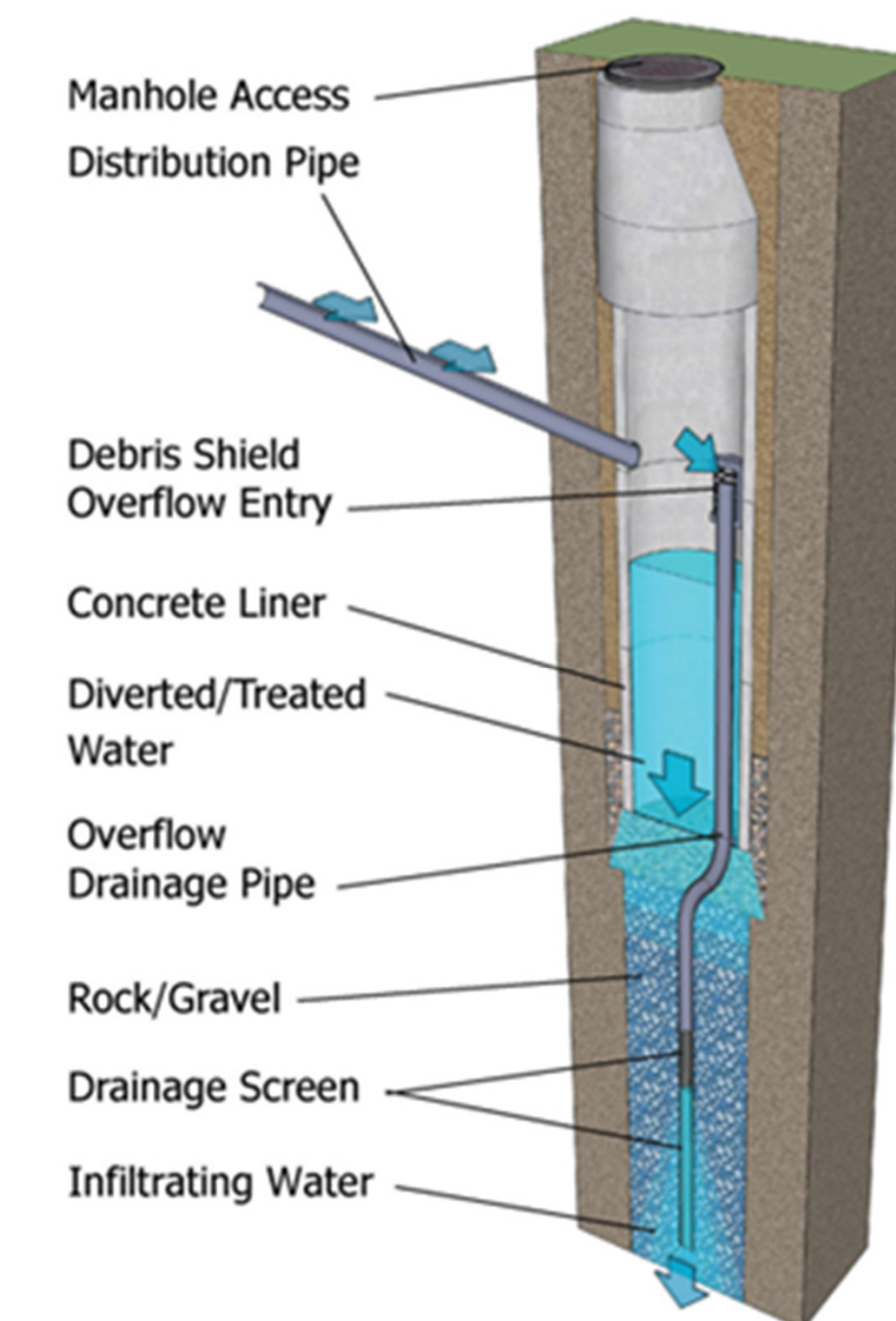
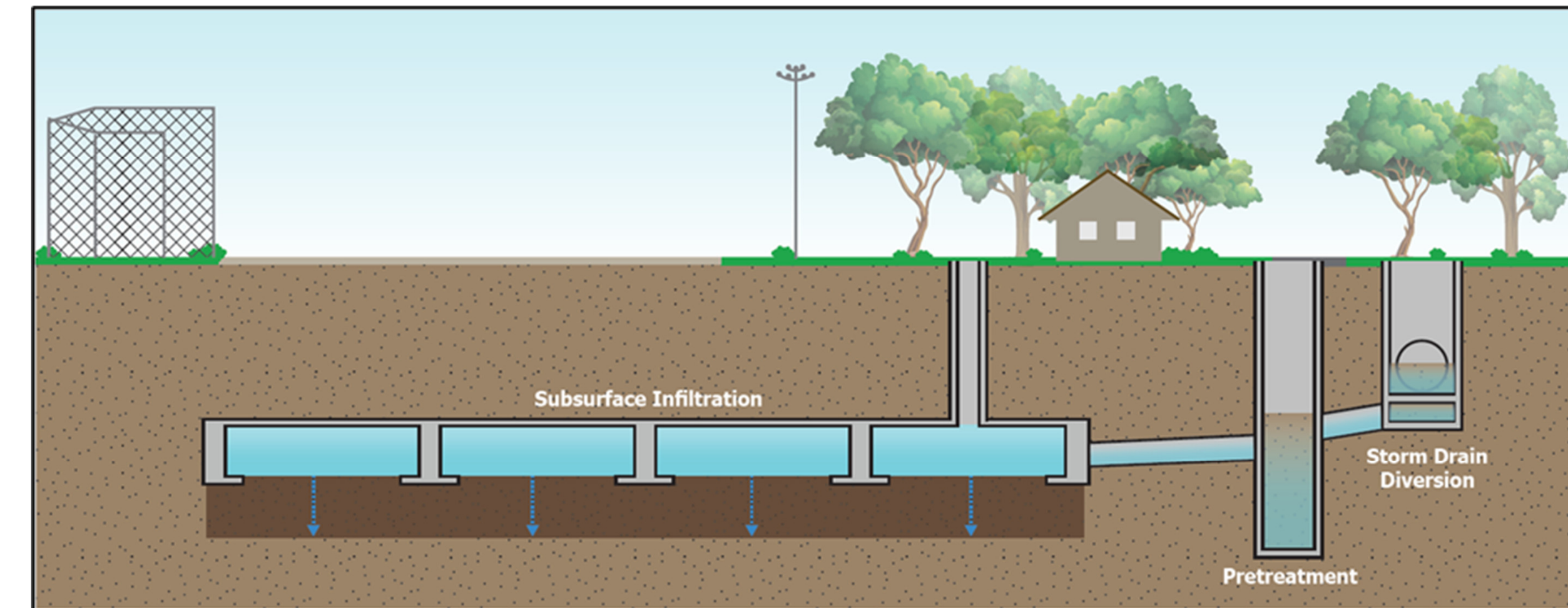


- Regional stormwater infiltration facility
 - Diversion from approximately 45 acres of tributary area
 - underground storage for infiltration and drywells
 - Anticipated approximately 2 ac-ft Capacity
 - Project footprint is 0.37 acres
- City's SWQMP developed the Project's preliminary conceptual plan/cost estimate.
- A top ten project to help the City attain EWMP water quality goals



Project Details

- Runoff diverted from City-owned storm drain in Buckingham Parkway to a subsurface infiltration structure and drywells
- A pump structure may be required as part of the diversion
- Runoff stored beneath park's multi-purpose field within infiltration structure/drywells
- Polluted stormwater infiltrates and removes pollutants
- Geotechnical Investigation required to evaluate soil permeability
- Potential opportunities to include urban runoff for onsite irrigation and toilet flushing
- Opportunities for nature-based solutions
 - Bioswales
 - Rain gardens





Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Feasibility Study	\$400,000	Pending SIP
Design	TBD pending TRP	TBD	TBD
Implementation	TBD pending TRP	TBD	TBD
O&M	O&M following implementation	TBD	TBD
Monitoring	Monitor/assess effectiveness	TBD	TBD
TOTAL		\$400,000	

- The Stormwater Implementation Plan (SIP) uses the information determined in the Feasibility Study for the above project areas to decide budget, schedule and funding for SCWP projects.
- Annual Costs, Project Lifespan & Lifecycle Cost will be assessed during the Planning Phase
- Life cycle is expected to be 50-years



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$400,000	Planning	FY24-25 TRP, feasibility study, funding pursuit
2	TBD	Design	Design of recommended implementation
3	TBD	Implementation	Construction based on design
4	TBD	Implementation	Construction based on design
5	TBD	O&M/Monitoring	Perform maintenance and monitor effectiveness
TOTAL	\$400,000		

- Leveraged Funding TBD following TRP
- Future SCW funding requests are anticipated pending findings of TRP



Water Quality & Water Supply Benefits

- Intercept, treat, recycle/reuse, and infiltrate dry- and wet-weather flows.
- Tributary Area +/- 45 acres.
- Volume capacity approximately 2 ac-ft
- Pollutant Reduction for dry- and wet-weather TMDLs (metal/bacteria)
- Annual Water Supply Volume - Feasibility Study.
- Potential water supply use
 - Irrigation
 - water recycling
 - water supply aquifer
- Cost effectiveness - Feasibility Study



Community Investment Benefits and Nature Based Solutions

- Community Investment Benefits
 - Enhanced park space/habitat
 - New recreational activities
 - Reduces heat local island effect/increases shade
 - Trees, shade, and other vegetation
- Nature Based Solutions
 - Mimics natural processes - Runoff infiltrates
 - Natural soil and native vegetation in recreational areas
 - Decreased impermeable area - Feasibility Study



Leveraging Funds and Community Support

- Leveraging Funds
 - No leveraged funding included - Feasibility Study.
- Community Support
 - The City's SWQMP conducted outreach
 - Community workshops
 - Webpages
 - Social media
 - Outreach and engagement is ongoing - City's Park Plan project
 - Letters of Support include:
 - Baldwin Hills and Urban Watersheds Conservancy,
 - Ballona Creek Renaissance
 - Mayor of the City of Culver City

A man with a beard is seen in profile, pointing at a whiteboard. The whiteboard is covered with numerous yellow sticky notes, some of which contain handwritten text in Portuguese. The scene is dimly lit, with light coming from a window with blinds in the background. A semi-transparent white banner with the word 'Questions?' is overlaid on the center of the image.

Questions?

Javier De La Cruz

Larry Tortuya