Lindberg Park Multi-Benefit Stormwater Capture

Technical Resources Program

Fiscal Year 2024-2025

Central Santa Monica Bay

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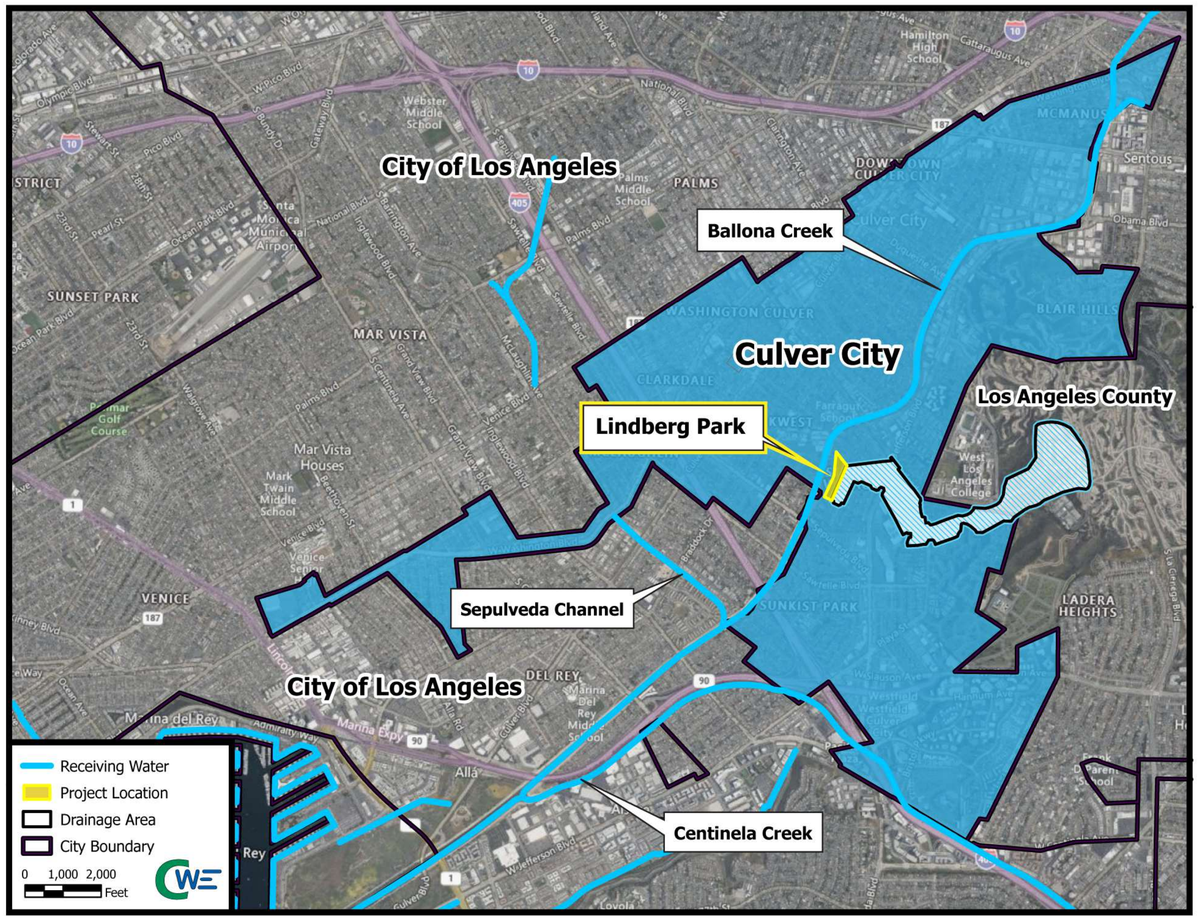
Previously Awarded TRP – No

Project Overview

Conduct a feasibility study for the Regional stormwater capture project at Lindberg Park consisting of two subsurface infiltration galleries; and diversion and pump structure.

- 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



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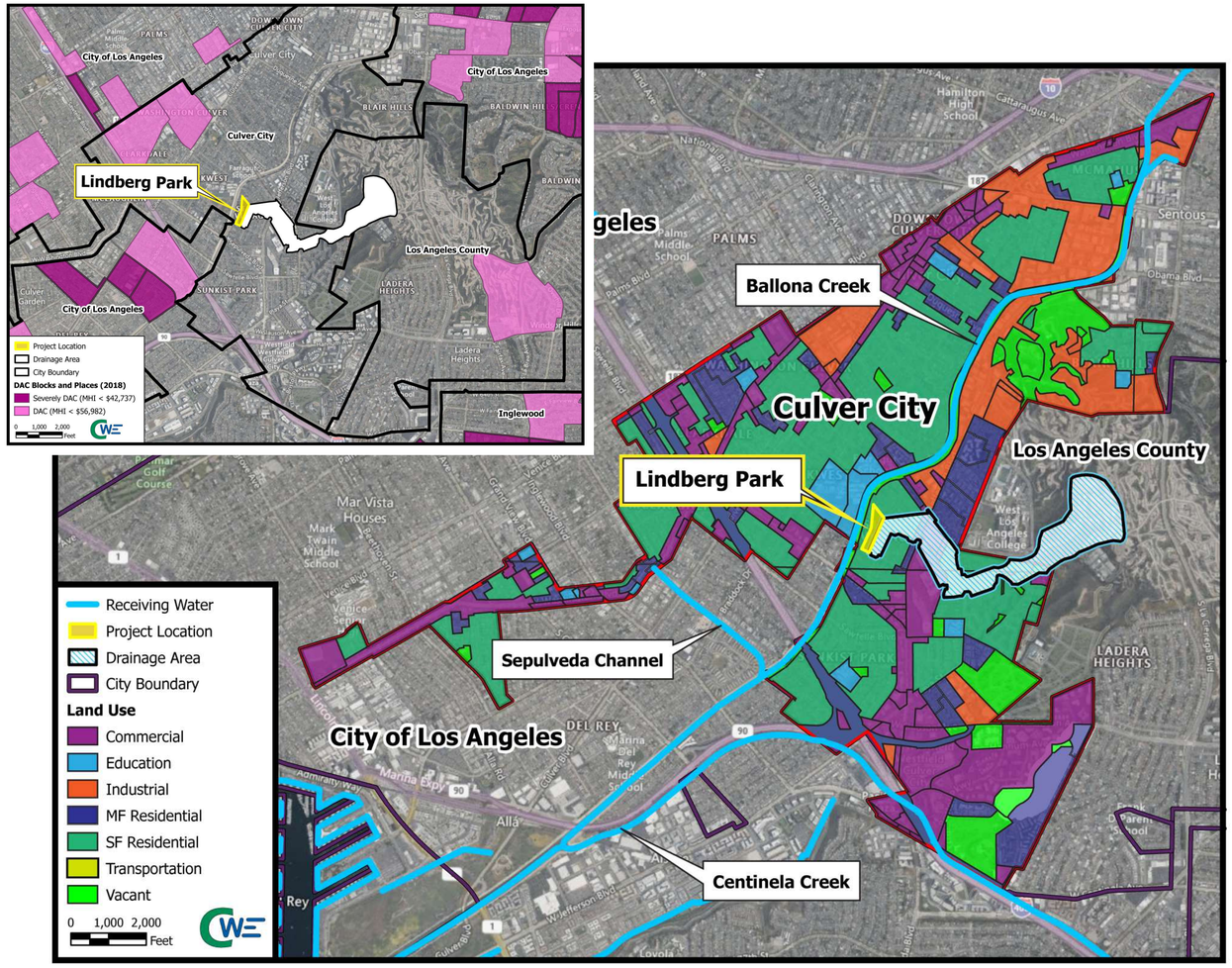
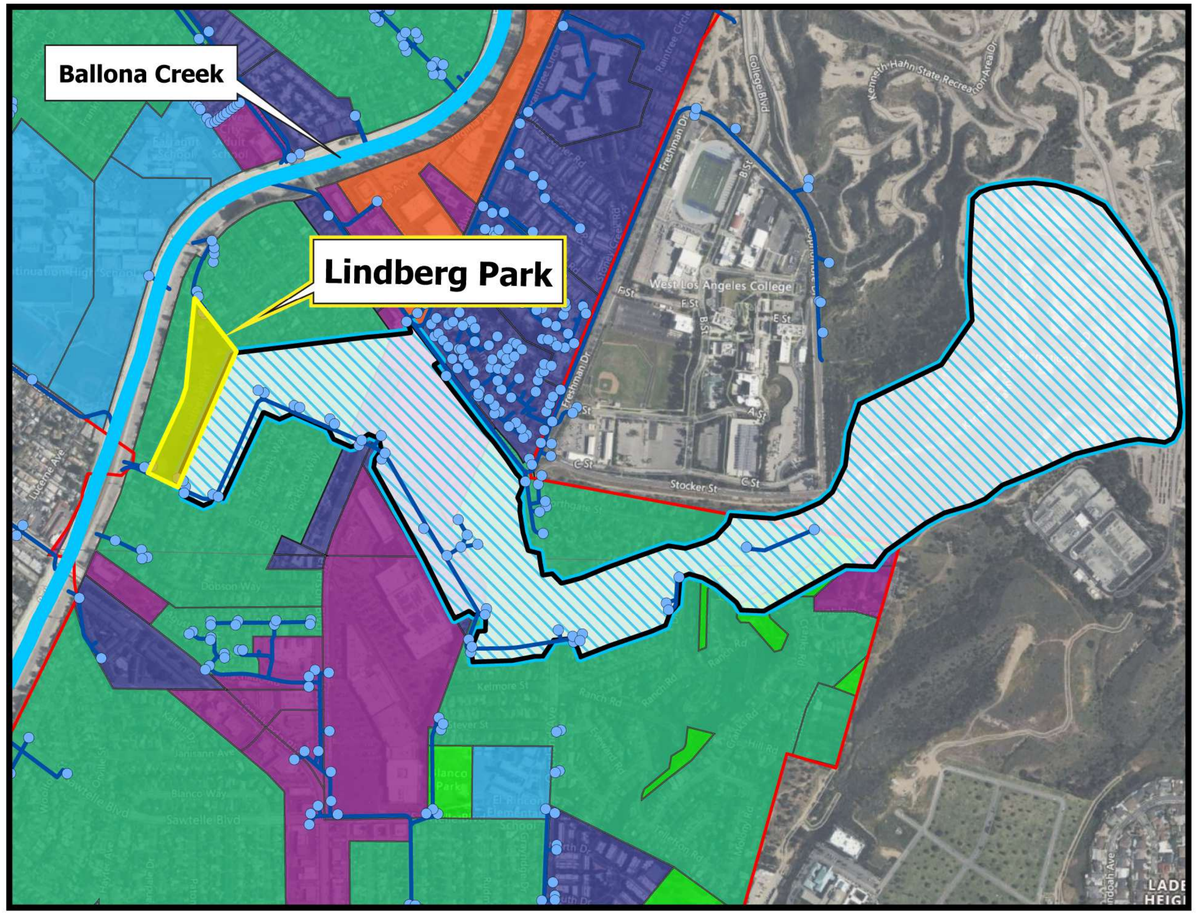




Project Background

- Why was the Project Location selected?
  - Improve water quality/supply in Ballona Creek and the Santa Monica Bay
  - Improve flood management
  - Address Ballona Creek Total Maximum Daily Load (TMDLs)
- How was the Project developed?
  - City's Stormwater Quality Master Plan (SWQMP)
  - Multi-benefit project - improve water quality and community benefits
  - High priority amongst 400 SWQMP proposed stormwater projects
- Which regional WMP includes the proposed project?
  - Ballona Creek Enhanced Watershed Management Program (EWMP) identifies Lindberg Park as an optimal location

Project Background

- Description of benefits to municipality/municipalities
  - Ballona Creek Bacteria and Metals TMDLs
  - Ballona Creek Watershed TMDLs for metals and bacteria require full compliance by 2026
  - Address dry weather flows
  - Improve vector control
  - Benefits Los Angeles County Unincorporated Area
- Description of benefits to Disadvantaged Communities
  - Improve water quality and water supply in Ballona Creek
  - 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 0.6 miles of buffer DAC areas. The general location nearest DACs is the vicinity of Berryman Avenue between the 405 freeway and Coolidge Avenue in the City of Culver City.

Partners

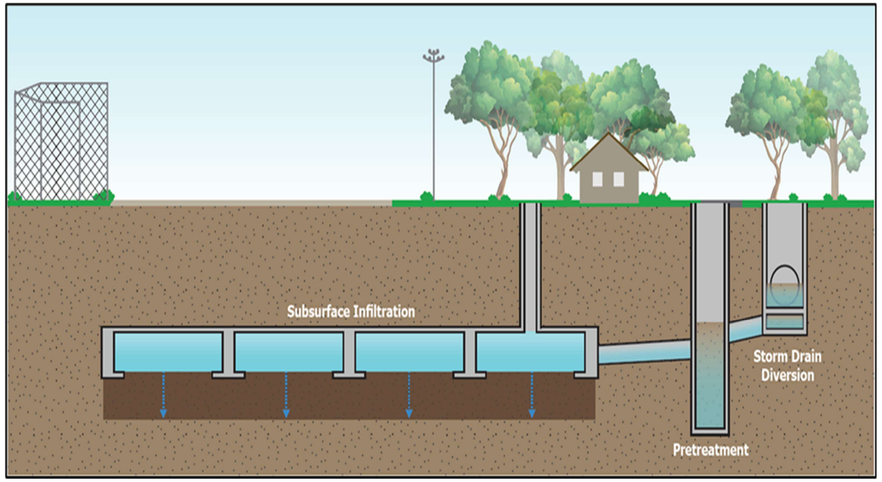
- Who are the implementation partners already identified?
  - The City of Culver City.
- What communities or groups have expressed support for the project?
  - Baldwin Hills and Urban Watersheds Conservancy, Ballona Creek Renaissance, and the Mayor's Office.
  - Multiple community organizations, residents, and businesses
- Letter of Concurrence from Culver City - Not Needed
- Letter of Concurrence from the Flood Control District
  - Runoff diverted from LACFCD storm drain, BI 0425 - Line H.
  - Requires LACFCD connection
- Will require coordination with the appropriate Vector Control District

Project Details

- Lindberg Park +/- 5 acres with a drainage area of 150 acres.
- Proposed improvements may include 2 subsurface infiltration chambers.
- Anticipated Project footprint is 1.9 acres
- Expected to capture the 85th percentile storm volume.
- Stormwater volumed is approximately 8.8 acre-ft

Project Details

- Existing 75-inch diameter LACFCD storm drain in Cota St.
- Diverted to pretreatment and subsurface infiltration systems.
- Captured runoff will be infiltrated onsite
- Nature based solutions include native, drought-tolerant vegetation
- Community investment benefits include:
  - Bioswales
  - Rain gardens
  - Other nature-based solutions
- Project also benefits Water Quality and Water Supply



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

- Interception of both Dry- and Wet-Weather flow
- Tributary Area approximately 150 acres
- Volume capacity approximately 8.8 ac-ft
- Pollutant Reduction of TMDLs (metal and bacteria)
- Annual capture to augment Water Supply Volume
- Water re-use for irrigation
- Anticipates a Cost Effective Approach to Design

Community Investment Benefits and Nature Based Solutions

- Community Investment Benefits
  - Enhances/restores park space/habitat
  - New recreational activities
  - Reduces heat local island effect
  - Trees, shade, and other vegetation
- Nature Based Solutions
  - Mimics natural processes through infiltration
  - Natural soil and native vegetation to enhance recreational areas
  - Decreased impermeable area TBD during Feasibility Study.

Leveraging Funds and Community Support

- Leveraging Funds
  - No leveraged funding identified at this time
- Community Support
  - Outreach with City's SWQMP and City's Park Plan
    - Community workshops
    - Webpages
    - Social media
  - Ongoing/Planned outreach
  - Letters of Support include:
    - Baldwin Hills and Urban Watersheds Conservancy,
    - Ballona Creek Renaissance
    - Mayor of the City of Culver City

Questions?

Javier De La Cruz

Katie Harrel