

Project Lead Agency: City of Inglewood Public Works Department **Project Collaborators:** Los Angeles County Public Works (LACPW); City of Los Angeles Sanitation and Environment (LASAN)

Project Location

Edward Vincent Jr. Park 700 Warren Lane City of Inglewood, CA 90302 Project drains to the Centinela Creek in the Ballona Creek Watershed



Watershed Management Plan: Project included as a signature regional project in the Ballona Creek Enhanced Watershed Management Program (EWMP)

Existing Park Aerial



Disadvantaged Community (DAC)

City of Inglewood (DAC Place) Project site and communities surrounding the Park (DAC Block Groups)



Drainage Area Characteristics

- > Size: 895 acres
- > Jurisdictional breakdown:
 - >>> City of Inglewood (38%)
 - >> City of Los Angeles (31%)
 - >> Los Angeles County (31%)
- > Prominent land use: Residential

The Project captures, treats, and infiltrates the 85th percentile, 24-hour storm event from an 895-acre drainage area.





Design Elements

Key Project Components

- 3 diversions (2 from Los Angeles County Flood Control District storm drains and 1 from City of Los Angeles)
- > Infiltration chambers under the baseball diamonds
- Dry creek channel reintroduces historical path of Centinela Creek through the park, connecting the area near the Centinela Springs monument to the bioretention area
- Small lift station to provide additional flow to the dry creek channel and increase capacity in the infiltration chambers, as needed
- Bioretention area best management practice (BMP) with a sediment forebay and trash capture at the low-lying end of the park for additional nature-based treatment and educational opportunities
- Secured grate to cover exposed open storm drain to reduce health and safety concerns

BMP Capture and Treatment Summary

Parameter	Infiltration Chambers	Bioretention Area	Total Project					
Storage Volume	21 AF	1.75 AF	22.75 AF					
Effective Footprint Area	2.34 acres	1.25 acres	3.59 acres					
Infiltration Rate	1.85 in/hr	0.5 in/hr	1.7* in/hr					
24-hour BMP Capacity	31.3 AF	3.0 AF	34.3 AF					

Stormwater Improvements Layout



Above-Ground Park Amenities

- > Enhanced ball field area
- Channel-edge seating
- > Boardwalk over bioretention area
- Shade trees and native vegetation/habitat
- > Walking trails
- > Educational signage and additional opportunities

* Weighted average



Project Benefits Water Quality Benefits

- Captures full 85th percentile, 24-hour storm for the 895acre drainage area
- Reduces loading of metals, bacteria, trash, and total suspended solids to improve water quality in the Centinela Creek and Ballona Creek Estuary
- Long-term performance is >80% for pollutants of concern
 > 86.2% load reduction in zinc (197 pounds)
 > 84.5% load reduction in *E. coli* (1.99e+14)



Community Investment Benefits

- 1. Improves flood management and flood risk mitigation
- 2. Enhances park space with native vegetation and trees
- **3.** Improves public access to an urban waterway through reintroducing a historical creek feature through the Park
- 4. Enhances and creates recreational opportunities, including new walking paths, enhanced ball field area, and integrated channel-edge seating
- **5.** Reduces local heat island effect and increases shade with new trees
- **6.** Increases number of trees and native vegetation to sequester carbon and improve air quality

Above-Ground Project Features



Nature-Based Solutions

- Mimics natural processes through infiltration under the baseball diamonds, creating a dry creek channel for conveyance, and constructing a bioretention area for treatment
- 😥 Utilizes natural materials including soils, native vegetation, and trees



Previous outreach included EWMP workshops and coordination with Project stakeholders. Initial conversations with community-based organizations and community members were conducted during the Feasibility Study development. Community engagement events will occur at the onset of Project design to gather community input and strengthen community ownership of the Project.



Cost

Phase	Cost
Design	\$4,270,000
Construction	\$42,424,000
Total	\$46,694,000
Annual O&M	\$819,920
Life-cycle Cost (50 years)	\$66,525,295

Safe, Clean Water Program Scoring

Section	Score	Justification
Wet + Dry Weather	14	24-hour BMP Capacity Cost in \$Millions = 34.3 AF/\$42.4 Million = 0.81
Water Quality	30	Primary Pollutant: 86.2% load reduction in zinc (197 pounds) Secondary Pollutant: 84.5% load reduction in E. coli (1.99e+14)
Water Cumply	0	N/A
water Supply	0	N/A
Community Investment	10	Addresses 6 community investment benefits: (1) improves flood management; (2) enhances parks and creates habitat; (3) improves public access to waterways; (4) enhances and creates new recreational opportunities; (5) reduces heat island effect/ increases shade; (6) increases trees and native vegetation
Nature-Based Solutions	10	 Mimics natural processes to slow, detain, capture, and infiltrate water in a manner that protects and enhances habitat and usable open space Utilizes natural materials including soils and native vegetation
Leveraging Funds	0	Cost Share: None
and Community Support	4	Local Support: Demonstrates strong local, community-based support
Total	68	

Schedule

> Design: 2 years 4 months

- > Construction: 3 years 3 months
- > Monitoring: 2 years baseline; 3 years post- construction
- > Operations and Maintenance (O&M): 50-year project lifespan

Test	FY 2022-23				FY 2023-24			FY 2024-25			FY 2025-26			FY 2026-27			FY 2027-28			8				
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Funding Secured																								
Consultant Contracting																								
CEQA																								
Permitting																								
Preliminary Design (30%)																								
Final Design																								
Contract Services																								
Construction																								
Outreach																								
Monitoring																								