



# Lynwood City Park Stormwater Capture Project

Infrastructure Program

Fiscal Year 2024-2025

Lower Los Angeles River WASC

Project Lead: City of Lynwood

Presented by John Hunter

Funding Request for Construction

Project scored by Scoring Committee on 10/23/23

Project was Previously Awarded SCW Funds for Design (2020)



# Project Overview

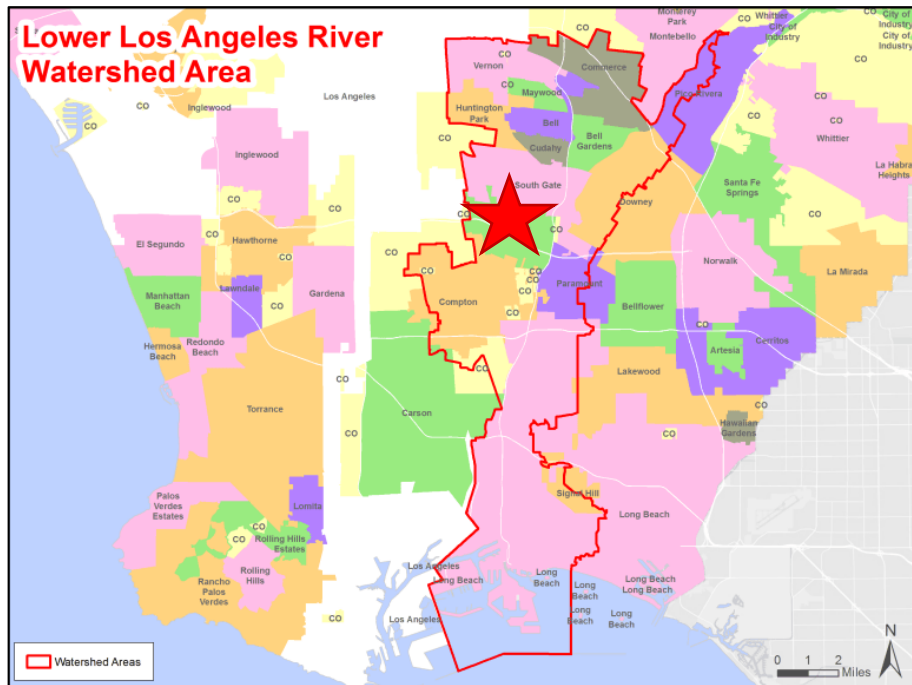
Regional stormwater infiltration and treatment project that includes installation of a new permeable parking lot, soccer field, and ephemeral stream

- Primary Objective:
  - Improve water quality within the Los Angeles River Watershed
  - Potentially increase water supply
- Secondary Objectives:
  - Enhance recreational opportunities and rehabilitate park facilities
  - Implement nature-based solutions
- Project Status: Construction
- Total Funding Requested: \$22,200,000 over 5 years for construction

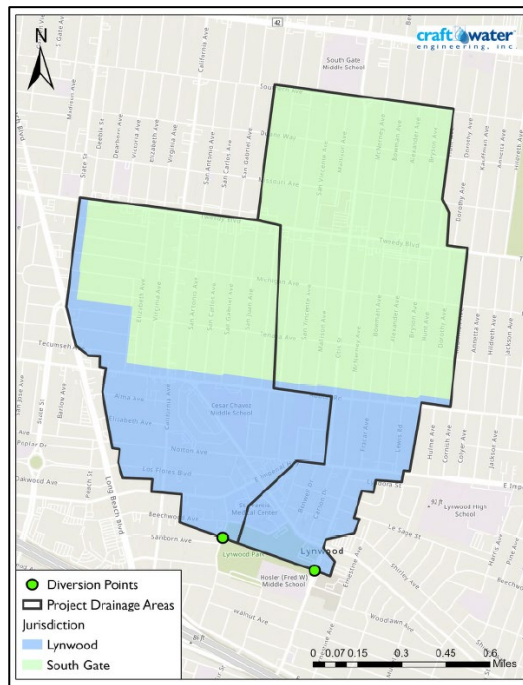




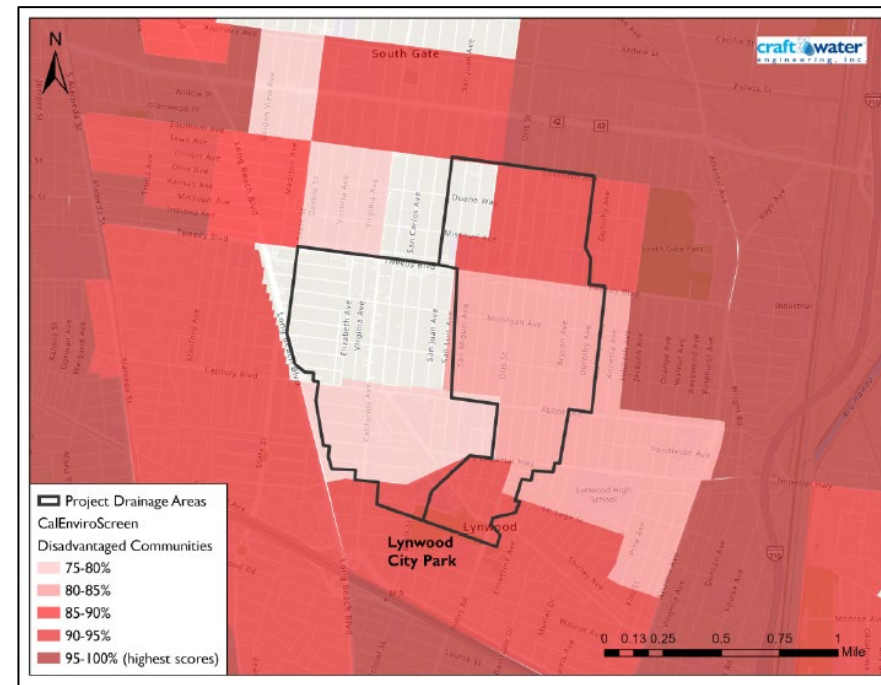
# Project Location



The project is located in the City of Lynwood, within the Lower Los Angeles River Watershed Area



The project has a total drainage area of 955 acres, encompassing portions of Lynwood (~351 acres) and South Gate (~604 acres)

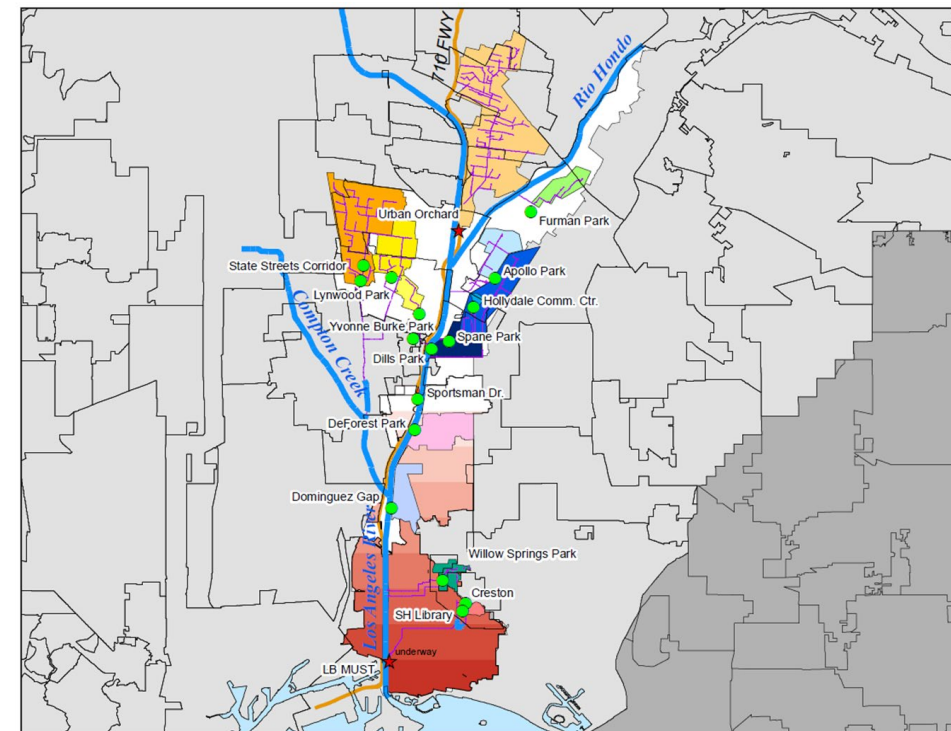


The project contains multiple DACs within its drainage area and is itself located within a DAC



# Project Background

- Lynwood City Park was identified in the LLAR WMP (2015) as a priority regional project site
- The LLAR Watershed Management Group funded geotechnical testing (2016) and a feasibility study (2020)
- The LLAR WASC funded project design in FY 21-22 for \$1,691,629
- The project will improve stormwater quality, achieving progress toward compliance with the MS4 Permit and applicable TMDL milestones
- Local DACs will benefit from improved park utility and recreational facilities (e.g. soccer field with new turf grass, ephemeral stream with a bird/butterfly garden, native vegetation)

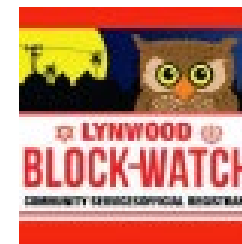


The project is part of the overall Stormwater Corridor approach being taken by the LLAR Watershed Management Group



# Partners

- The City of Lynwood is the project lead, additional project collaborators are the City of South Gate and the Lower Los Angeles WMG
- Neighboring organizations have shown support of the project, including: Hosler Middle School, the Lynwood Neighborhood Block Watch Organization, and Lynwood Sports Association.
- The City of Lynwood is the landowner of the Lynwood City Park site.
- The Flood Control District provided a letter of conceptual approval for the project
- The City has not yet engaged the vector control district





# Project Details



Soccer Fields

East Parking Lot



Bullis Road

- Project will divert flow from the storm drain and permeable pavement, then treat the flow through a series of baffle boxes and filters to remove sediment and trash
- Capture the water in a 10.3 ac-ft infiltration/storage gallery under the soccer fields
- Flow will also be diverted to an ephemeral stream and pond
- If both the infiltration gallery and ephemeral stream are full, treated flow will be discharged back into the storm drains

WATER QUALITY IMPROVEMENT	
PRIMARY POLLUTANT (ZINC) POLLUTANT REDUCTION	127 lb/yr (80%)
SECONDARY POLLUTANT (BACTERIA) POLLUTANT REDUCTION	2.7 x 10 <sup>14</sup> MPN (98%)
DESIGN DIVERSION RATE	Birch Diversion: 20 cfs Bullis Diversion: 25 cfs
STORAGE CAPACITY FOR SUBSURFACE STORAGE STRUCTURE	10.3 acre-ft (3.35 MG)
24-HOUR CAPACITY	27.3 acre-ft
CONSTRUCTION COST ESTIMATE	\$19,632,446



# Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Completed under prior design funding	\$143,187	08/2023
Design	Completed during previous design award	\$954,581	08/2024
Bid/Award	Bid Award and Ancillary Permitting	\$100,000.00	01/2025
Construction	Construction Survey	\$10,000	04/2025
Construction	Administration and Construction	\$20,000,000	12/2028
Construction	End of Project Close-out, Final Surface Improvements	\$2,089,998	06/2029
<b>TOTAL</b>		<b>\$23,297,766</b>	

- Description of Annual Costs: \$1,369,987
- Project Lifespan: 50 years & Lifecycle Cost: \$32,871,332



# Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$8,880,000.00	Construction	selection of contractor(s) mobilization and initial construction
2	\$8,000,000.00	Construction	continued construction, construction administration and agency management
3	\$3,000,000.00	Construction	close out primary construction activities
4	\$2,186,502.00	Construction	Final construction activities, surface amenities, fine tuning equipment
5	\$133,498.00	Construction	final close out activities, initial monitoring, continued fine tuning of equipment
<b>TOTAL</b>	<b>\$22,200,000.00</b>		

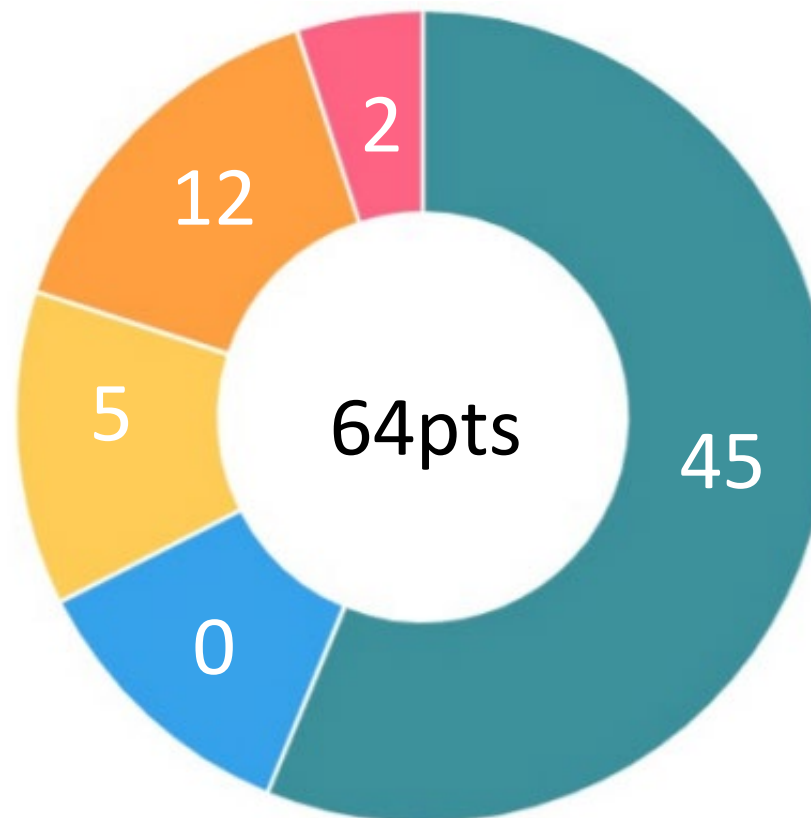
- There may be O&M requests starting in Year 6





# Score as confirmed by the Scoring Committee

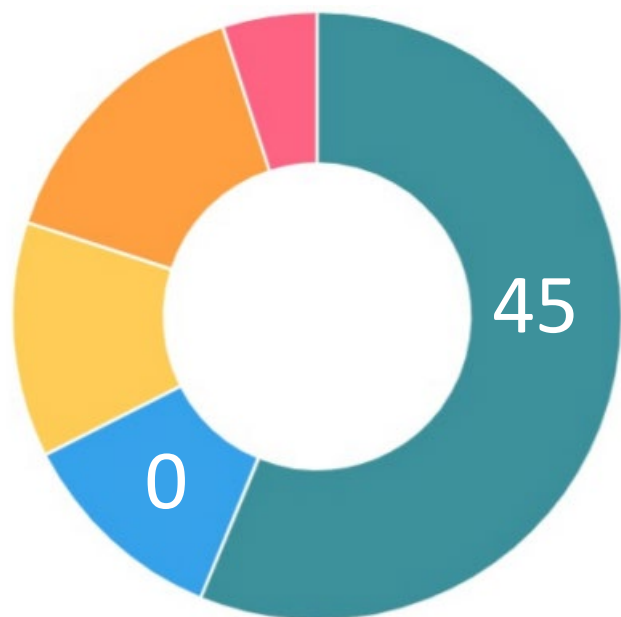
- Water Quality
- Water Supply
- Community Investment Benefits
- Nature Based Solutions
- Leveraged Funds and Community Support



The Scoring Committee revised the project score on 10/23/23.



# Water Quality Benefits

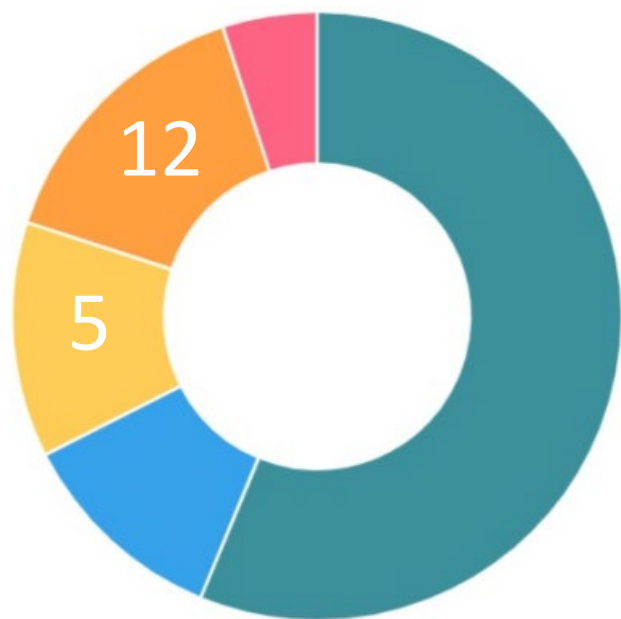


Scored on 10/23/23

- Primary mechanisms:
  - Runoff/pollutant capture through two diversion points
  - Infiltration in the 10.3 ac-ft underground storage reservoir
  - Filtration through the ephemeral stream bioswale
  - Finally, discharge of treated flow to the storm drain
- Wet Weather Project
- Project will help the City of Lynwood and the over LLAR WMG achieve water quality improvement goals
- Tributary Area: 955 acres
- Capacity: 10.3 ac-ft
- Pollutant Reduction:
  - 80% Reduction for Zinc (Limiting Pollutant)
  - 98% Reduction for Bacteria (Category 1 Pollutant)



# Community Investment Benefits and Nature Based Solutions



Scored on 10/23/23

- Community Investment Benefits

- Enhanced Park Space and Recreational Opportunities:
  - Removal and replacement of the parking lot and soccer field
  - Installation of a new ephemeral stream with bird and butterfly garden
- Reduced Heat Island Effect
  - Landscape plans include additional native vegetation
  - The ephemeral bioretention stream and associated bird and butterfly garden will increase the on-site native vegetation that will provide additional shade and cooling effects



Ephemeral Stream

- Nature Based Solutions

- Ephemeral bioretention stream
- Permeable pavement
- Bioswales



Permeable Pavement



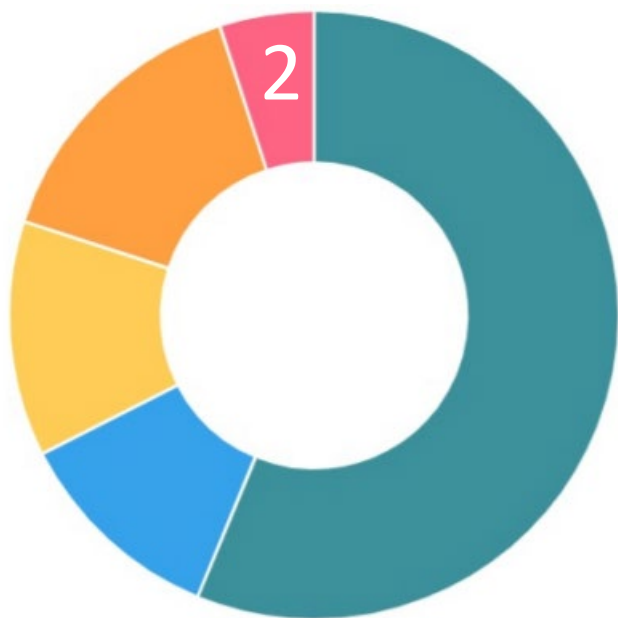
# Leveraging Funds and Community Support (I)

## • Leveraging Funds

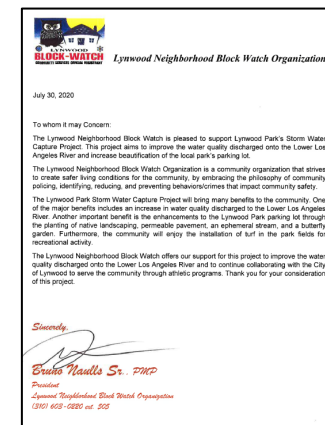
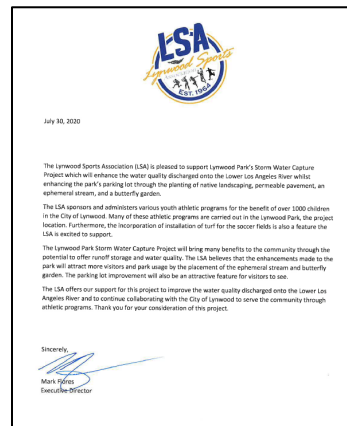
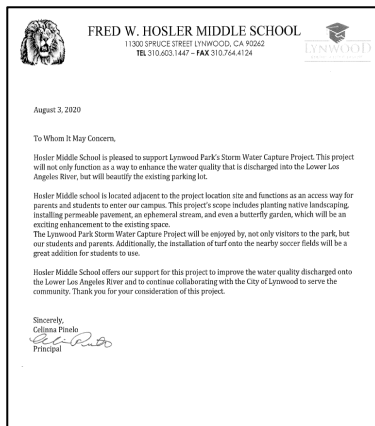
- The LLAR Watershed Management Group provided funding for the Feasibility Study (including 10% design plans) and the preliminary geotechnical testing for the project

## • Community Support

- The project has received letters of support from the Lynwood Neighborhood Block Watch Organization, Lynwood Sports Association (LSA), and Fred W. Hosler Middle School



Scored on 10/23/23



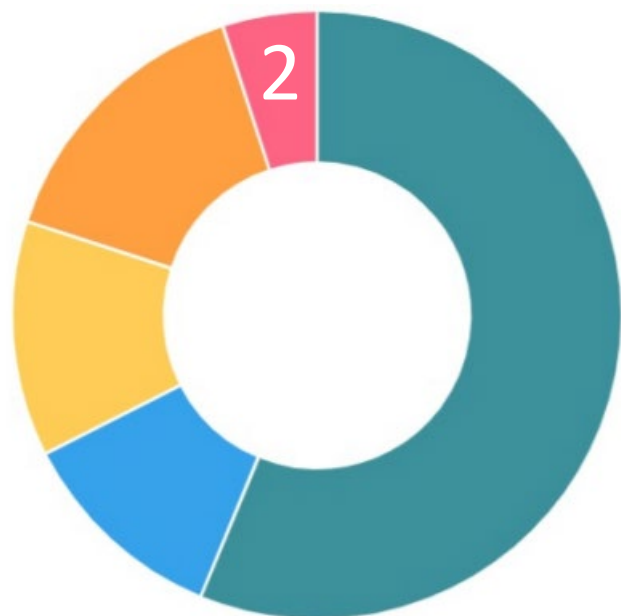




# Leveraging Funds and Community Support (III)

- Community Support – Outreach Plan

- The current outreach during the design phase will continue through the end of 2023 with opportunities for community participation and feedback
- The City will host community outreach/update meetings concurrent with the beginning of the project implementation
- A Pre-Construction Community Meeting will be conducted to inform the residents of the construction activities including the schedule, haul routes, traffic controls, and other potential community impacts.
- Construction signage will be on-site with the appropriate City representatives.



Scored on 10/23/23



# Questions?

**John Hunter**

**Oliver Galang**