

Project Background

Phase 2 includes constructing a pump station and cistern within a new park and connecting 5 existing pump stations to the Facility.

Project Objectives: Treat runoff for water quality compliance and create additional water supply

Project Status: SCW funding is being requested for Design and Construction

Total Funding Requested: \$10,387,527

Project Overview

- Project location: The identification of potential facility locations was based on: a) General evaluation of watershed opportunities, b) Development of regional/subregional project

- opportunity categories, and c) Preliminary opportunity identification and screening based on watershed land uses, drainage patterns, and limitations
- Project is included in the Lower Los Angeles River (LLAR) Watershed Management Program
- Benefits for Cities of Long Beach and Signal Hill:
 - Increased water quality, water supply, & urban green space
 - Improved air quality & public health
 - Public education & community engagement opportunities
- The Project is located within a severely Disadvantaged Community (DAC) and will serve DACs through the environmental and community benefits listed above.

Project Details

- The Phase 2 Project includes constructing a pump station, cistern, and bioswale within a new park (**Figure 1**). The cistern will be used to hold treated water from the LB MUST Facility to be used for irrigation at Cesar Chavez Park.
- Phase 2 also includes connecting 5 existing pump stations to the LB MUST Facility (orange shading in **Figure 2**). These connections will convey additional dry weather and first flush flows from a combined area of 3,672 acres. Treated non-brackish water will be used as an alternative water supply.

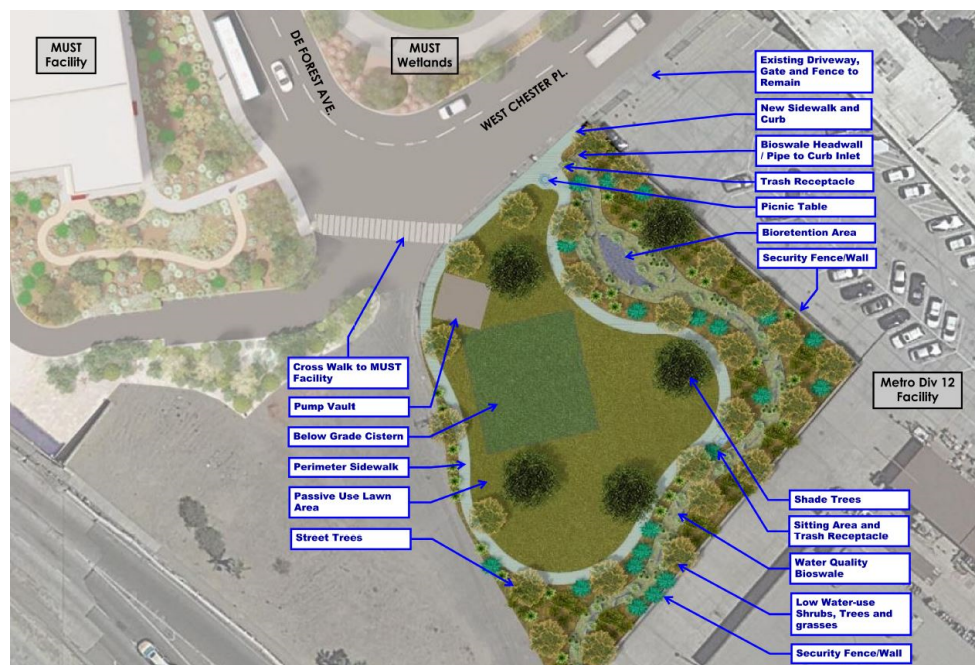


Figure 1. LB MUST Phase 2 Park Project Site and Features

Long Beach Municipal Urban Stormwater Treatment – Phase 2 Infrastructure Program Executive Summary Lower Los Angeles River, City of Long Beach, 2023-2024

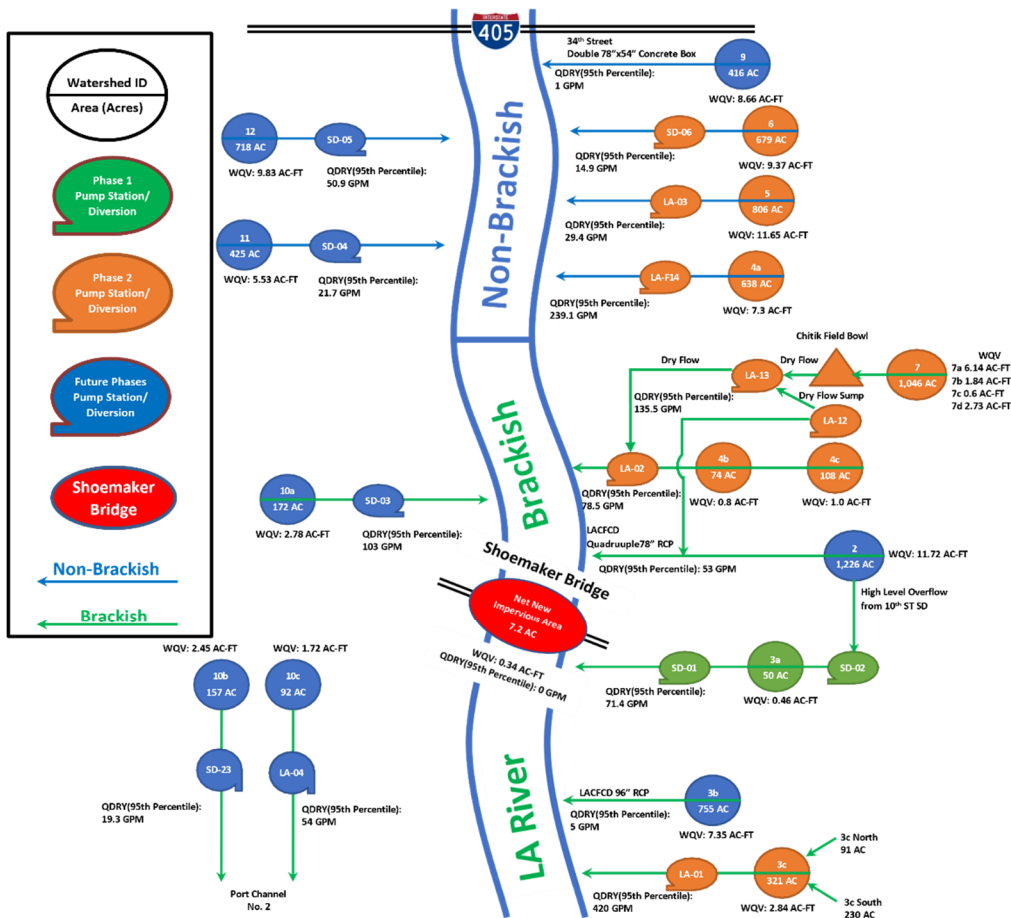


Figure 2. LB MUST Watershed Operations

- LACFCD operates 4 of the 5 Phase 2 pump stations (LA-01, LA-02, LA-F14, and LA-03). The City of Long Beach owns the park parcel and one of the Phase 2 pump stations (SD-06). All of these pump stations are active.
- The new park will be located in an unutilized industrial area owned by the City of Long Beach. This park is located adjacent to the new wetland and treatment facility.
- Multiple studies and analyses have been completed for the project area including the LB MUST Facility Master Plan, LB MUST Initial Study/Mitigated Negative Declaration, and LB MUST Basis of Design Report, preliminary testing for asbestos contamination, geotechnical analyses, and site evaluations.

Project Location

See Figure 3 and 4 for the watershed area and the DACs, respectively.

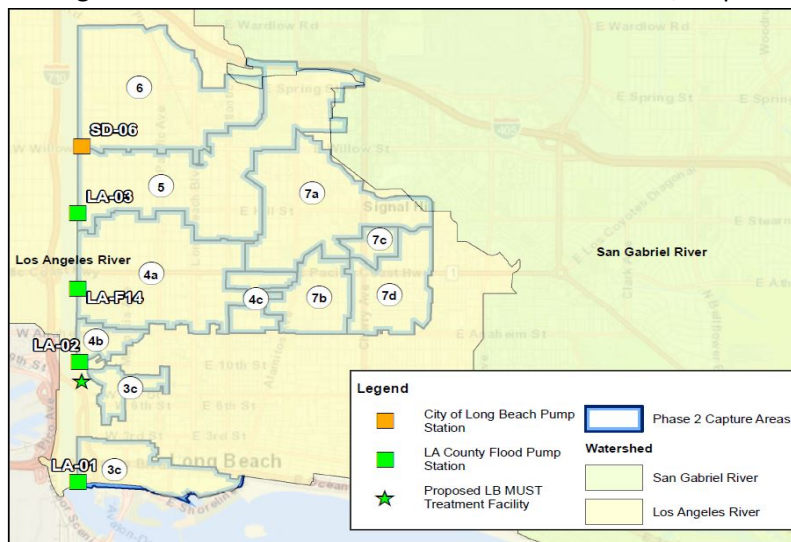


Figure 3. LB MUST Watershed Area

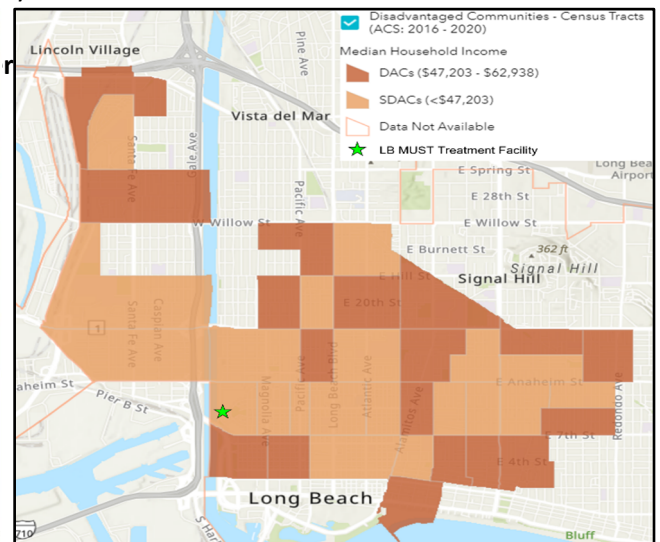


Figure 4. LB MUST DACs

Long Beach Municipal Urban Stormwater Treatment – Phase 2
Infrastructure Program Executive Summary
Lower Los Angeles River, City of Long Beach, 2023-2024



See Figures 5 and 6, respectively, for the municipalities that will benefit from the Project and the supervisorial district.

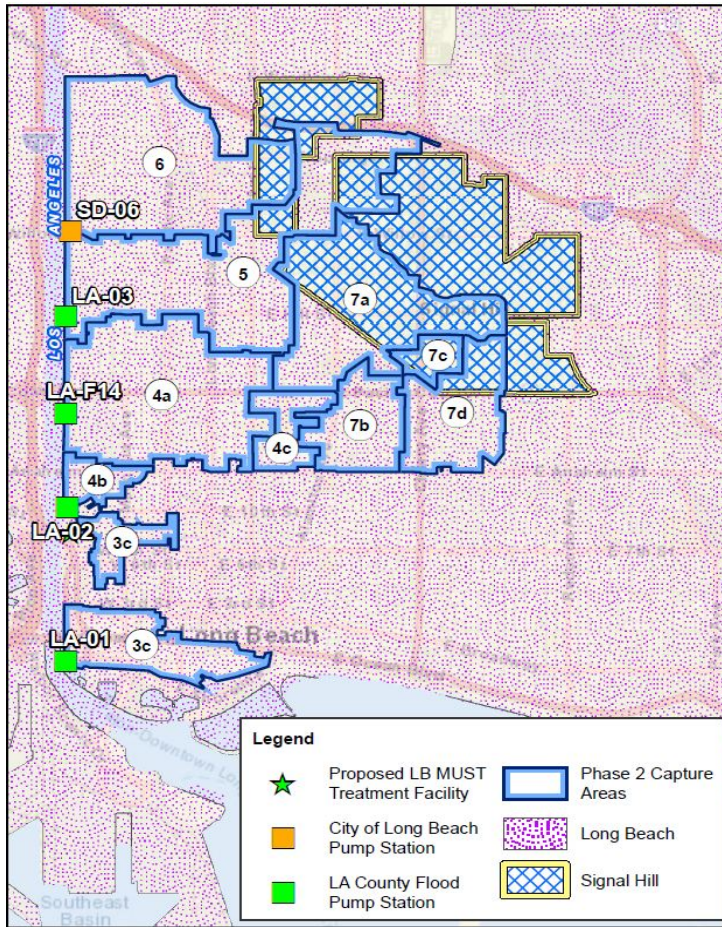


Figure 5. LB MUST Municipalities

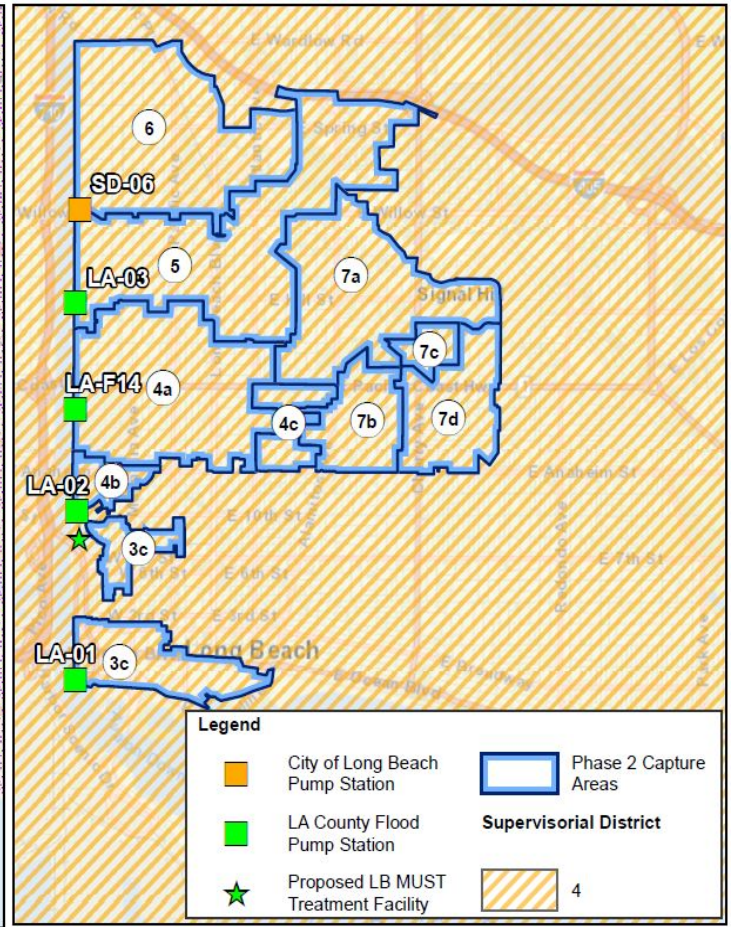


Figure 6. LB MUST Supervisorial District

Preliminary Score		
Benefit	Score	Description
Water Quality	40	- Expands the conveyance system so that dry weather and first flush flows from a drainage area of 3,672 acres can be treated - The LB MUST Treatment Facility has an initial capacity to treat 2 MGD. The Phase 2 pump stations will contribute 1.1 MGD to the Facility.
Water Supply	2	- A 125,000 gallon cistern and pump station will be constructed in a new park to allocate treated water to irrigate Cesar Chavez Park and landscaped areas on Shoreline Drive - The annual average capture for water supply from Phase 2 is 81.6 acre-feet, which will be used for irrigation.
Community Investment	10	Community investment benefits include creation of a new park at a former industrial area, which serves as a recreation amenity for the local DAC/EDA and continues to improve public access to the LA River, improvement of flood management through the extension of an existing bioswale, and reduction of heat island effect and increased shade through the planting of trees/vegetation in the park.

Long Beach Municipal Urban Stormwater Treatment – Phase 2

Infrastructure Program Executive Summary

Lower Los Angeles River, City of Long Beach, 2023-2024



Benefit	Score	Description
Nature Based Solutions	14	An impermeable parcel will be replaced with a park, containing an underground cistern and pump station. A bioswale will be constructed within the park to extend an existing bioswale, providing a natural flow pathway to a catch basin.
Leveraged Funds	3	A Proposition 1 Storm Water Grant was awarded for \$3,973,140. The City of Long Beach agreed to match the funding amount of \$3,973,140 using Measure W Local Return funding.
Community Support	4	- Local community involvement since project inception including two charettes and community meetings. - Local community support, including from the Willmore City Heritage Association - Project facilities will be used as platforms to educate the public on water quality issues and measures to address them.
TOTAL	73	

Project Cost & Schedule			
Phase	Description	Cost	Completion Date
Planning	Planning for Phase 2: Phase I and II Site Assessment, Asbestos, Lead-based Paint, and Hazardous Materials Survey, and CEQA Addendum	\$95,000	6/2024
Design	Design for Phase 2: New park green space and cistern, conveyance, pump station (electrical, mechanical, and I&C)	\$912,557	6/2024
Construction	Construction of cistern/pump station, performing site improvements in new park, and installation of new pumps and conveyance for Phase 2 pump stations	\$17,326,250	6/2027
TOTAL		\$18,333,807	

- For a life span of 30 years, the annualized life-cycle cost is \$1,114,284.27.

Funding Request			
Year	SCW Funding Request	Phase	Efforts during Phase and Year
2	\$3,522,551	Construction	Construction for cistern/pump station, park site improvements, pipe conveyance for LA-01 to LB MUST, pipe conveyance for LA-F14 to LB MUST, and new pumps at LA-01, LA-02, and LA-F14.
3	\$3,797,892	Construction	Construction for conveyance from LA-F14 to LA-03 and new pump at LA-03.
4	\$3,067,084	Construction	Construction for conveyance from LA-03 to SD-06 and new pump at SD-06.
TOTAL	\$10,387,527		