

Infrastructure Program Executive Summary

Central Santa Monica Bay, City of Los Angeles Sanitation and Environment, Fiscal Year 2023 - 2024

Executive Summary

Project Background

Multi-benefit Project located along Imperial Highway designed to capture and treat the 85th percentile storm using infiltration drywells and bioswales. It captures 15 AF annually from a 19.7-acre drainage area

Project objectives include:

- ✓ Improve water quality at Dockweiler State Beach by removing stormwater pollutants using drywells and bioswales.
- ✓ Improve flood management and flood conveyance.
- ✓ Increase nature-based solutions by replacing 13,000 square feet of impervious surface with green space.
- ✓ Improve public access to recreational opportunities by improving the bicycle path with safety features.
- ✓ Provide street highway improvements including the replacement of deteriorated curb, removal of trash and debris, and the addition of safety signage.

The Project is requesting SCW funding for the following phases: Planning, Design, Construction, and O&M.

Project Overview

LASAN worked with Los Angeles World Airport Authority (LAWA), and City of El Segundo to identify an area in which all agencies could collaborate in the development of multi-benefit stormwater Project. This section of the Imperial Highway has been identified as an area of need of water quality and community investment benefits.

The Project benefits the cities of Los Angeles and El Segundo as it collects water from both municipalities. Furthermore, safety, pedestrian, and recreational improvements will benefit all residents that use this section of the highway.

While the Project site is not located within a DAC, it will provide access to abundant recreational activities leading up to and along Dockweiler State Beach. This portion of the Imperial Highway provides commuter access to the main entrance to Dockweiler State Beach, located at the western terminus of the Project site. The Project will enhance water quality and provide safe pedestrian and bicycle access to the beach for all surrounding communities.



The Project site is located in a 1.7-mile section of the Imperial Highway within the City of Los Angeles. This portion of the highway is located within a predominantly high-density residential area, which provides commuter access to Dockweiler State Beach, LAX facilities, and City of El Segundo. Due to high urbanization the area faces many challenges from poor water quality of urban runoff, heat island effect, deterioration of road infrastructure, and poor pedestrian safety.

Total Funding Requested: \$5,232,000



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The following illustration shows the proposed above features along the new section of median including trees, bioswales, California native landscape, and the hedge.



Project Maps







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Preliminary Score

Benefit	Score	Description		
Water Quality	30	 The Project will use infiltration drywells to achieve water quality and water supply benefits It is a wet weather Project with a 24-hour BMP capacity of 2.92 AF It will capture and infiltrate 15 AF annually of surface runoff from a 19.7-acre drainage area It achieves a pollutant load reduction of 92% for Zinc and 100% for trash 		
Water Supply	0	 Water quality cost effectiveness is 0.3 AF per \$Million Water supply cost effectiveness is \$47,250 per AF 		
Community Investment	10	 The Project addresses flooding Restores natural habitat along the highway improves public access to Dockweiler State Beach 	 Enhances and improves recreational opportunities Reduces heat island effect Increases number of trees and vegetation 	
Nature Based Solutions	14	 The Project will maximize nature-based solutions by utilizing natural processes including: ✓ The addition of 2,000 square feet of median bioswales will provide vegetated area through which stormwater will be filtered ✓ Replace about 13,000 square feet of impervious surface with green space. 		
Leveraged Funds	6	 LASAN has allocated \$1,916,000, LAWA has committed \$4,000,000, and City of El Segundo has allocated \$500,000. The total funding match for this Project is \$6,416,000 and it represents a 55% funding match. 		
Community Support	4	• The Project has received multiple letters of support and has engaged with representatives to hear the needs of the residents.		
TOTAL	64			

Project Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Planning, Public Outreach, CEQA, and Permitting	\$360,000	06/2024
Design	Design, Construction Management, and Monitoring	\$3,256,000	06/2028
Construction	Construction	\$7,799,000	06/2027
O&M	Operations and Maintenance	\$233,000	06/2028
	TOTAL	\$11,648,000	

The Project has an annualized life-cycle cost of \$718,457 and a life-cycle of 50-years.

Funding Request							
Year	SCW Funding Request	Phase	Efforts during Phase and Year				
1	\$173,000	Planning, Pre-design, and Monitoring	Public outreach, environmental planning (CEQA), and permitting - 2024				
2	\$216,000	Design	Design - 2025				
3	\$339,000	Construction	Construction - 2026 to 2027				
4	\$4,504,000	Construction, Monitoring, and O&M	Construction, Monitoring, and O&M - 2028				
TOTAL	\$5,232,000						