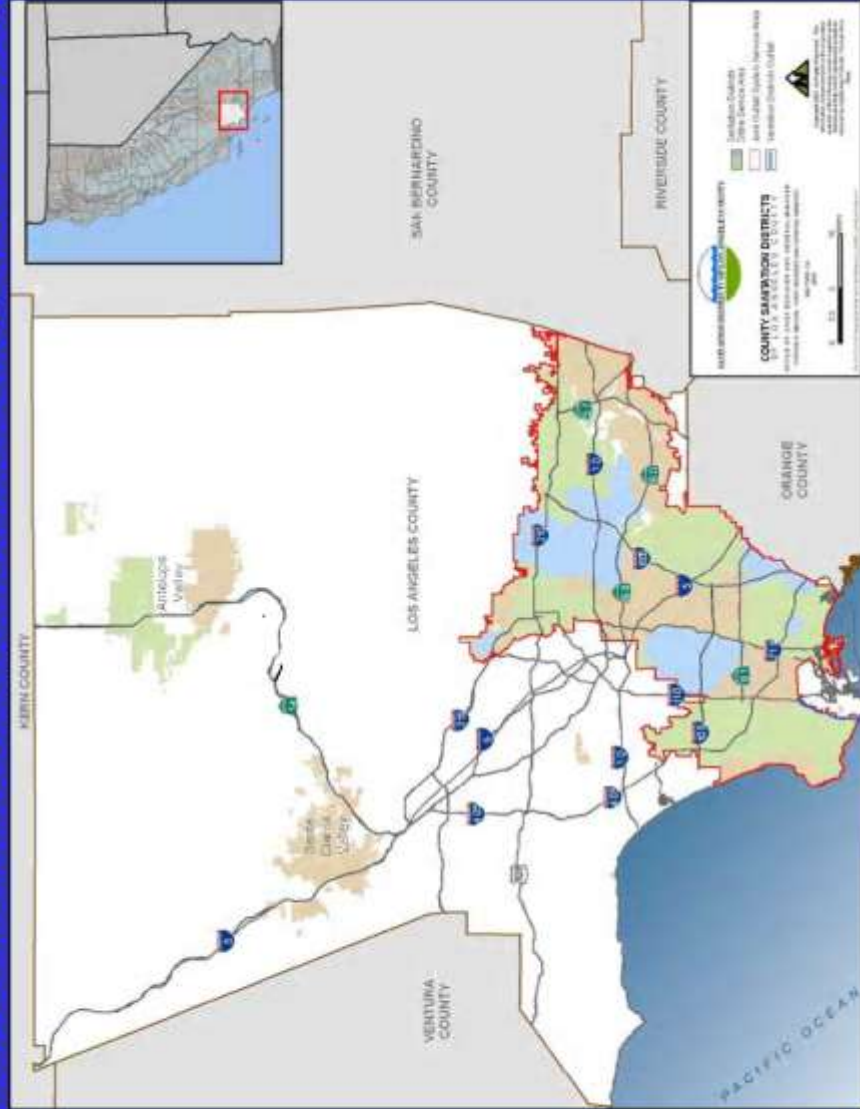


CLEARWATER Program 2011 Update

Sanitation Districts of Los Angeles County



Sanitation Districts of Los Angeles County



Joint Outfall System (JOS)



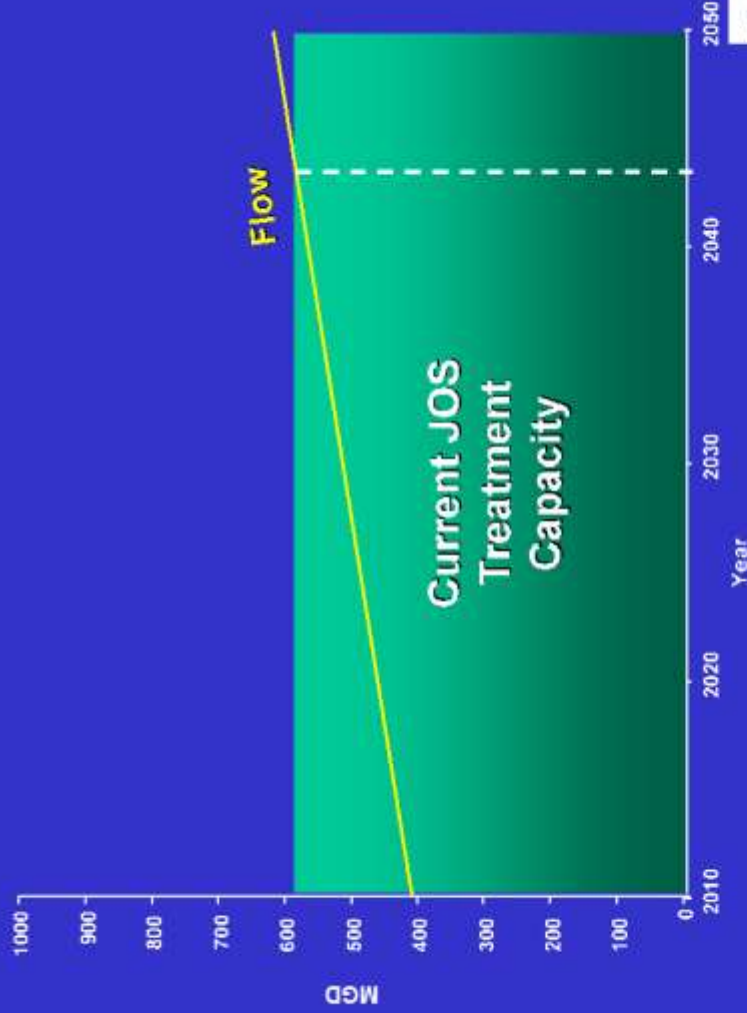
JOS Master Facilities Plan

Identifies future needs and recommends solutions



CLEARWATER PROGRAM

Meeting the needs of a growing population



CLEARWATER PROGRAM

Supporting the beneficial use of recycled water

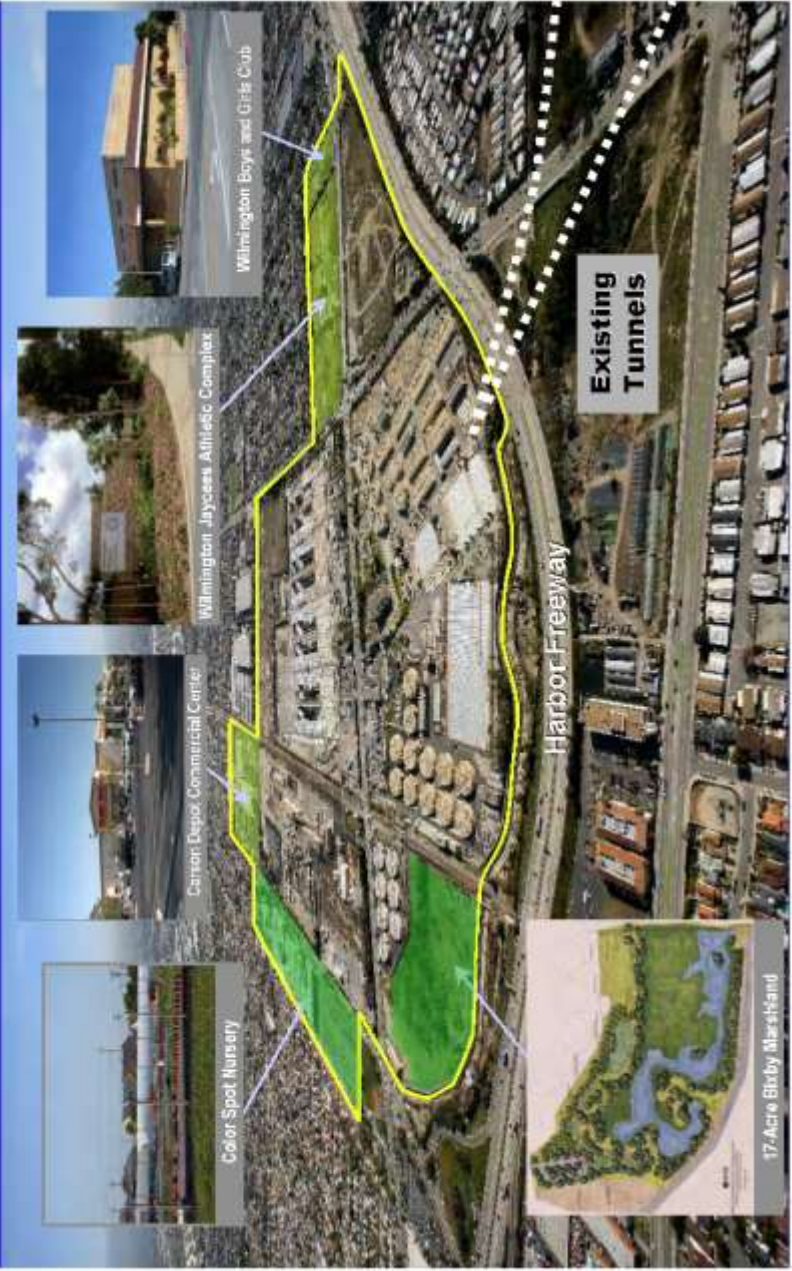


CLEARWATER PROGRAM

Meeting regulatory water quality requirements

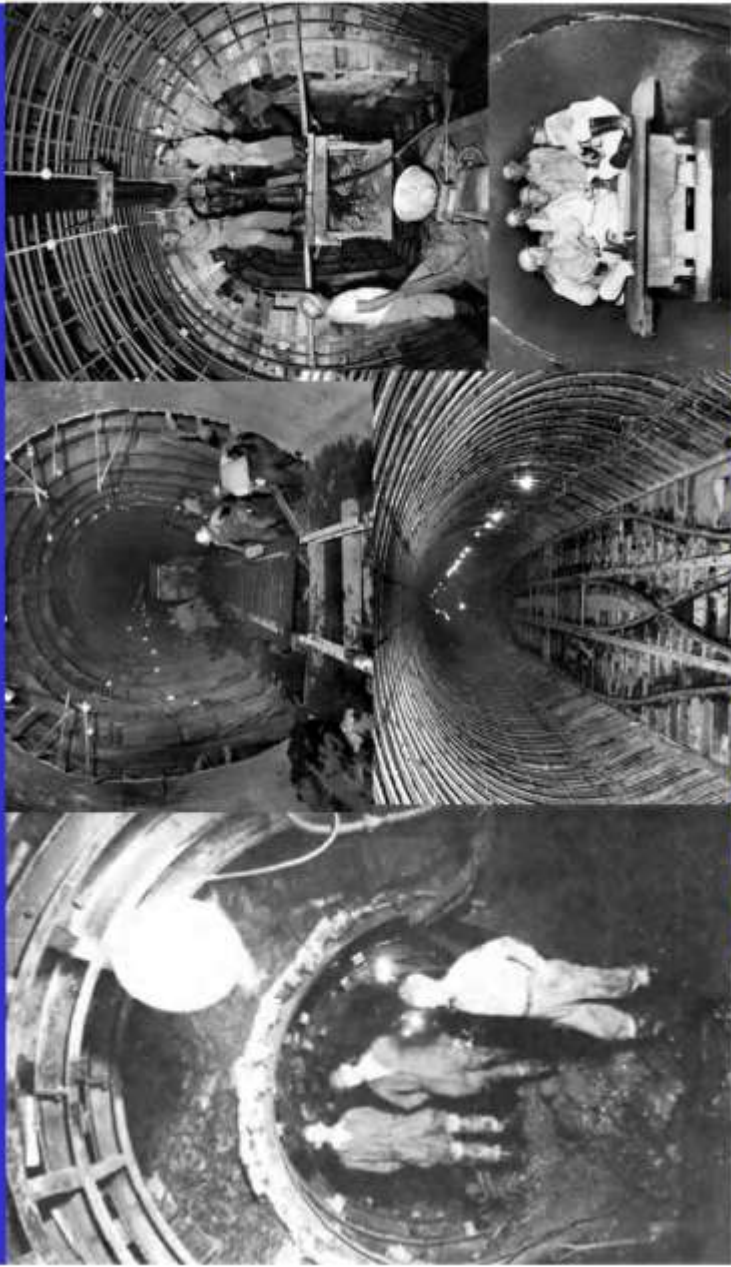


Joint Water Pollution Control Plant (JWPCP)



CLEARWATER PROGRAM

Addressing aging infrastructure to provide system reliability

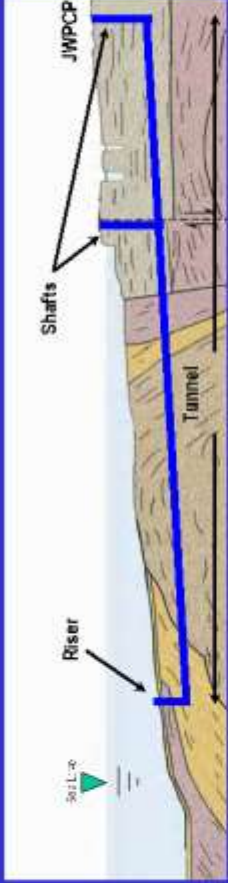


8- & 12-Foot Tunnels (1937/1958)

Tunnel and Ocean Outfall Study Area



Tunnel Construction



Tunnel Boring Machine (TBM)



Shaft Site



Preliminary Alignments & Shaft Sites



Agency Scoping & Public Outreach



U.S. Army Corps of Engineers
(NEPA Lead Agency)



California Office of Historic Preservation



Regional Water Quality Control Board



Rancho Palos Verdes



City of Carson



U.S. Fish & Wildlife Service



National Marine Fisheries Service



U.S. EPA



U.S. Coast Guard

Four Feasible Alignments



Alignment 1



Alignment 1

Alignment 2



Alignment 2

Alignment 3



Alignment 3

Alignment 4



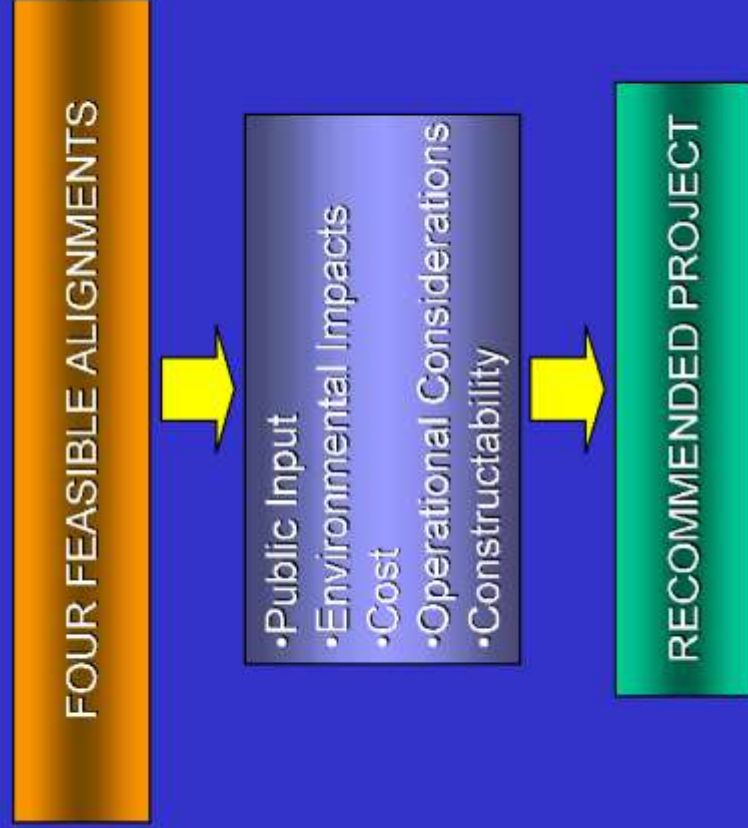
Existing Ocean Outfalls



Preliminary Cost Estimates



Evaluation Process



Clearwater Schedule

