

Water Quality and Environmental Justice Initiatives

James Vernon

Manager of Water Quality 2/27/20

- Founded in 1911
- City of Long Beach-Harbor Dept.
- 6 Container Terminals
- 7,600 Acres
 - 3,000 Acres of Land
 - 4,600 Acres of Water
- State Tidelands Trust
- Non-Taxpayer Supported
 Governed by a 5-Member Board of Harbor Commissioners





7.9 MILLION TEUs in 2019



2.6 MILLION NATIONAL JOBS

FACTS AT A GLANCE

576,000REGIONAL
JOBS



GREEN PORT POLICY

- Protect community
- Distinguish Port as leader
 - Promote sustainability
 - Employ best technology
- Engage and educate community

Water Quality Programs



- Dredge compliance
- Mitigation banking
- Biological resources
- Total Maximum Daily Load (TMDL) Program
- Stormwater Program
- Water conservation
- Climate resiliency











60% MORE PLANTS AND ANIMALS



Biological Survey

- Performed every five years
- Shared effort between Port of Long Beach and Los Angeles



Study Elements

- Physical characteristics (water quality/sediment size)
- Benthic infauna
- Ichthyoplankton
- Demersal fish and macroinvertebrates
- Pelagic and shallow-water fishes
- Riprap epifauna
- Kelp and macroalgae
- Eelgrass
- Birds
- Marine mammals
- Presence of non-native species



Initial 2018 Bio Survey Results

6 new fish species identified

- Horn shark (*Heterodontus francisci*)
- Senorita (Oxyjulis californica)
- CA Sheephead (Semicossyphus pulcher)
- Garibaldi (*Hypsypops rubicundus*)
- Opaleye (Girella nigricans)
- Halfmoon (*Medialuna californiensis*)
- Blacksmith (*Chromis punctipinnis*)





Initial 2018 Bio Survey Results

3 new mollusks identified



White abalone (endangered in CA)



Pink abalone



Green abalone

Title 22 Recycled Water

AWT Recycled Water Stormwater Harvesting

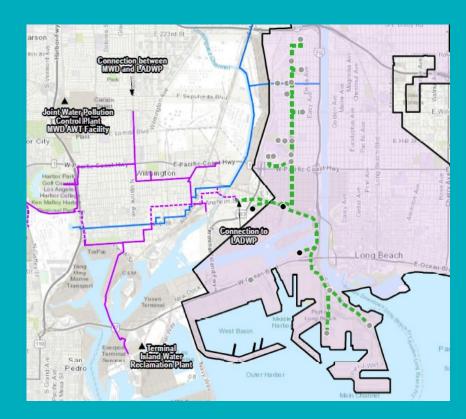
Recycled Water and Stormwater Harvesting Study

Why Stormwater Harvesting?

- Stormwater loads pollutants into the harbor
- Harvesting stormwater eliminates that pollutant load
- Facilitates compliance and reduces cost
- Reduces potable water demand
- Reduces greenhouse gas impacts of importing water

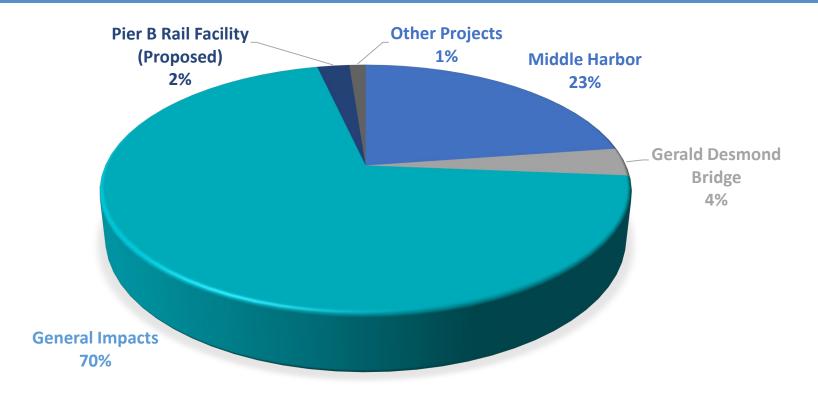
AWT Recycled Water

- Supply port industrial facilities with nonpotable, but highly treated water
- Water Department has prioritized this project





Funding Sources



\$65+ million

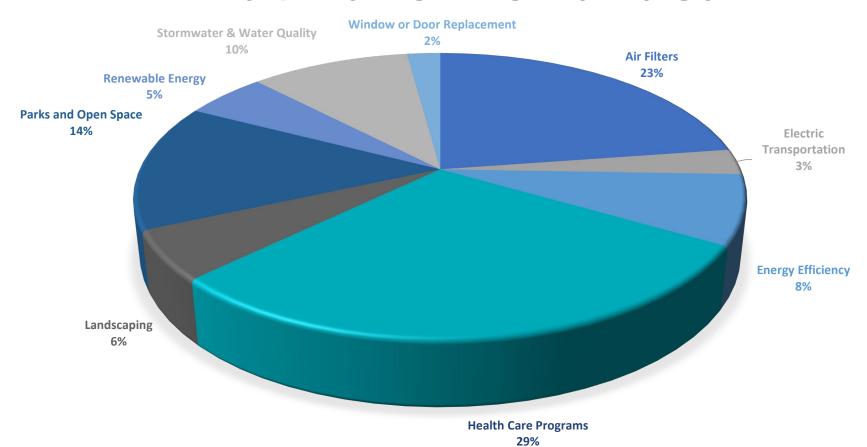


Eligible Projects

- Doors and windows
- Air filters and HVAC
- Parks and open space
- Trees and landscaping
- Health programs
- Energy efficiency upgrades
- Renewable energy projects

- Electric transportation
- Sound insulation
- Noise barriers
- Bicycling/walking projects
- Traffic-calming measures
- Stormwater projects

What Have We Funded?





THANK YOU