



Water Infrastructure Plan 2022-2023

LADWP-NC MOU and Advocacy Committee Meeting
June 3, 2023

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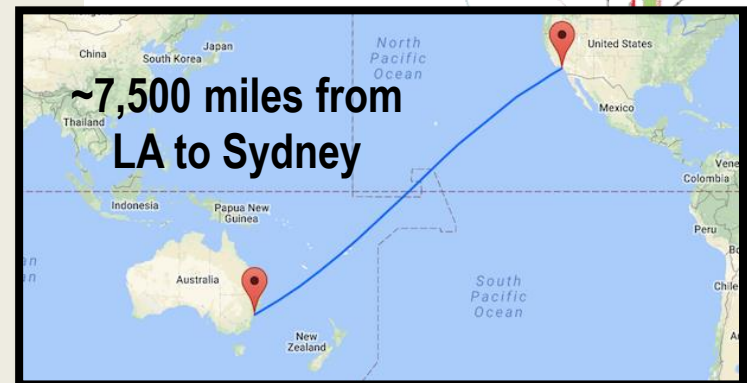
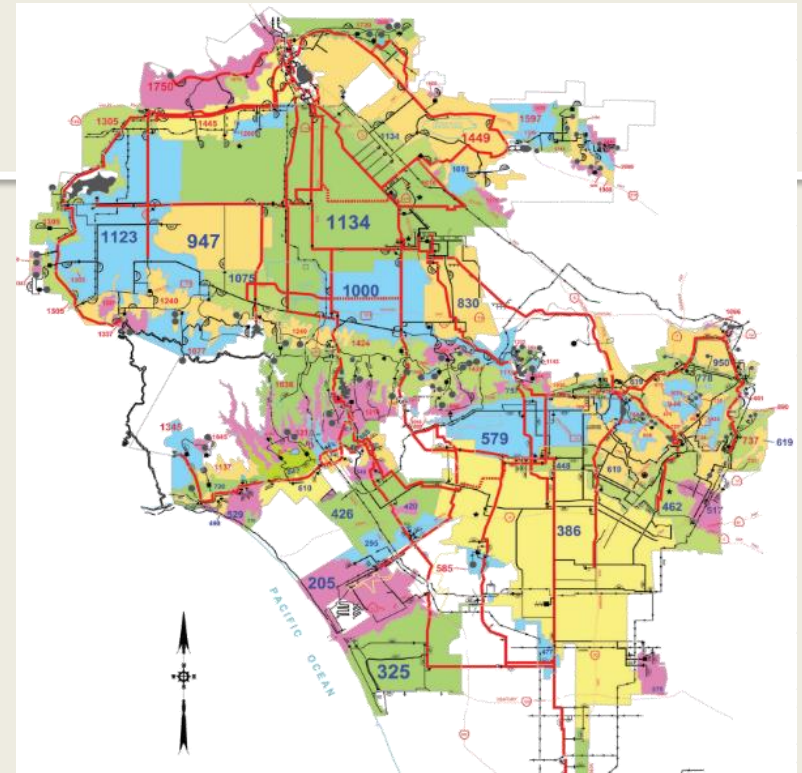
Manager, CIP and Asset Management Group
Water Engineering and Technical Services Division



<https://www.ladwpnews.com/2022-23-water-infrastructure-plan/>

Water System Infrastructure

- Service Area: 473 sq. mi.
- Pipeline: 7,340 miles
- Pump Stations: 86
- Reg./Relief Stations: 358
- Reservoirs/Tanks: 117
- Large Valves: 2,800
- Treatment Facilities: 38
- Hydrants: 61,100



Contents

Water Infrastructure Plan



LA
DWP



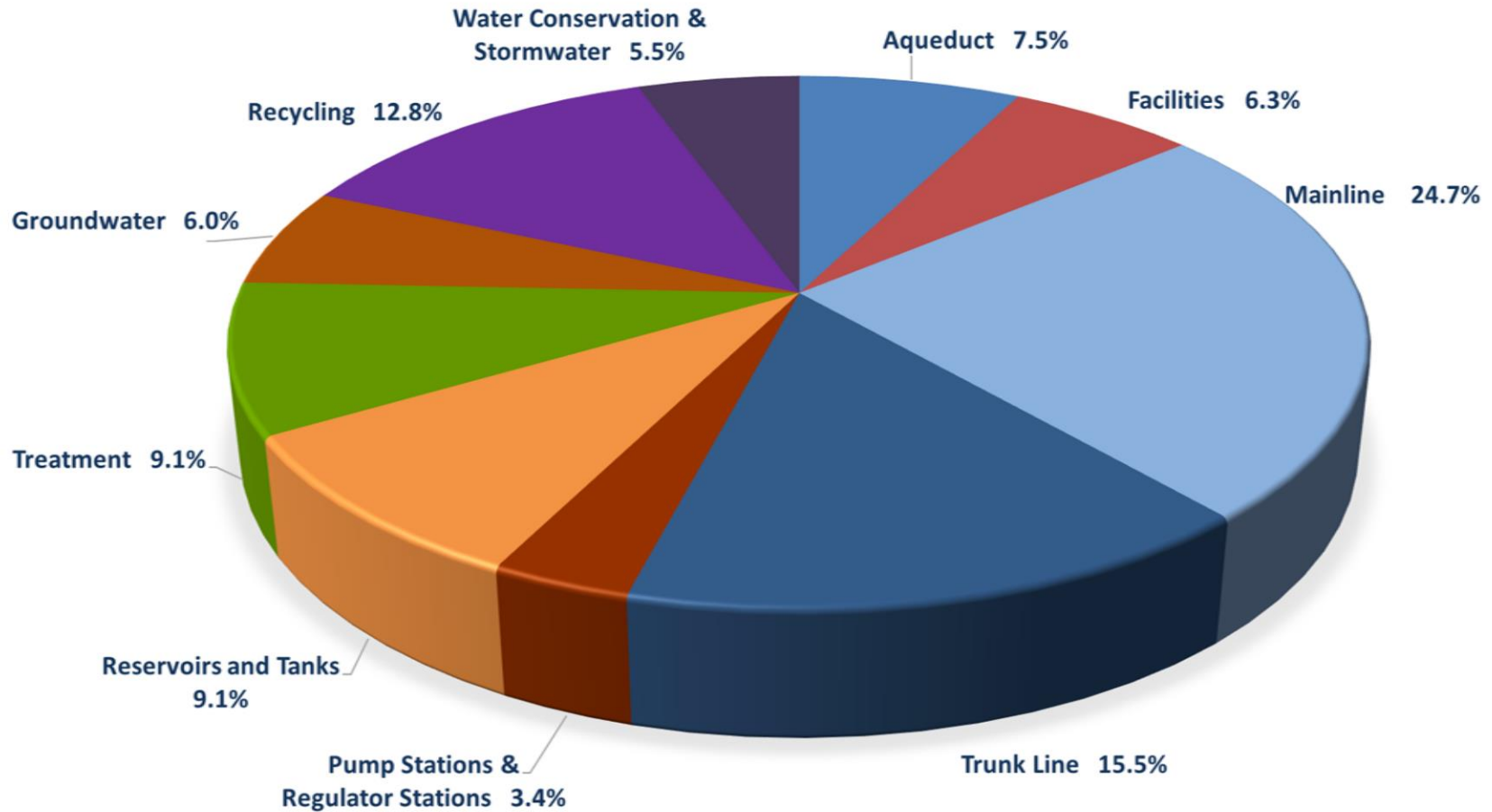
Water System Infrastructure Achievements
(2021-22)

Five-Year Water System Infrastructure Goals
(2022-23 to 2026-27)

Updated Annually

Water System Infrastructure

5-Year Capital Budget - \$5.6B*



*Based on proposed FY 2022-23 budget



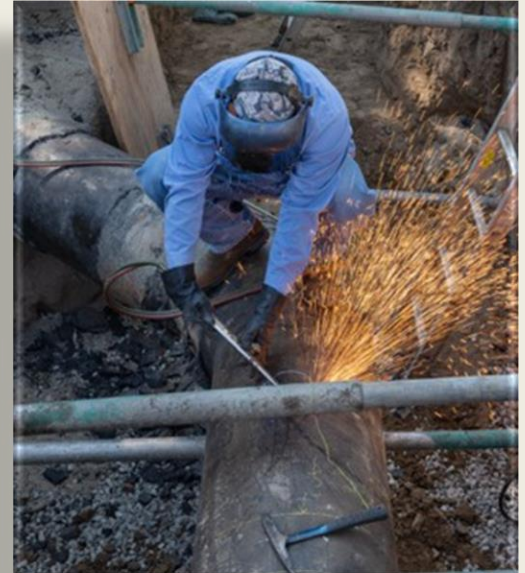
Infrastructure Achievements & Goals

Metro

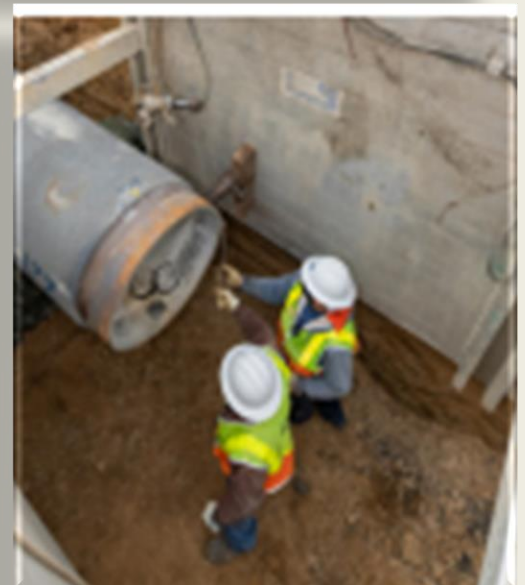


Horizontal Assets

➤ Mainlines



➤ Trunk Lines



Horizontal Assets

Mainlines

Existing Facilities

- 6,800 miles of pipes - 20 inches or less in diameter
- Distributes water throughout the city

2021-2022 Achievements

- Installed over 37 miles of ML pipe
- Achieved an average leak rate of 16.8 leaks/100 miles

5-Year Replacement Goals

- 2022-2023: 39.8 miles
- 2023-2024: 42.6 miles
- 2024-2025: 45.5 miles
- 2025-2026: 45.5 miles
- 2026-2027: 45.5 miles

Horizontal Assets

Trunk Lines

Existing Facilities

- 544 miles of pipe - greater than 20 inches in diameter
- Transmits water from reservoirs and tanks to distribution mainlines

2021-2022 Achievements

- Installed 1.8 miles of trunk line pipe

5-Year Replacement Goals

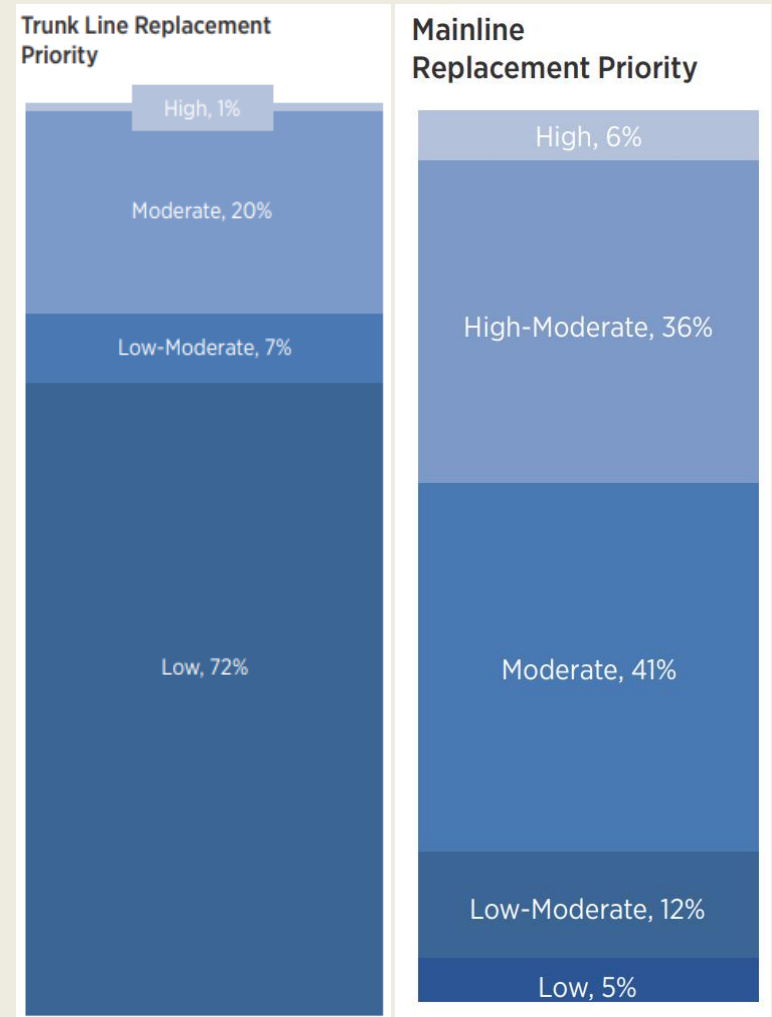
- 2022-2023: 2.2 miles
- 2023-2024: 2.2 miles
- 2024-2025: 3.0 miles
- 2025-2026: 3.5 miles
- 2026-2027: 3.5 miles

Horizontal Assets

Examples of Pipe Replacement

Prioritization Criteria:

- Leak history
- Age of pipe
- Soil conditions
- Risk of service interruption
- Coordination with planned projects



Vertical Assets

- Pump Stations
- Regulator and Relief Stations
- Reservoirs and Tanks
- Large Valves
- Groundwater Wells
- Treatment Facilities

Vertical Assets



Vertical Assets



Vertical Assets

Pump Stations

Existing Facilities

- 86 Pump Stations
- Pump water to customers or storage tanks at higher elevations

2021-2022 Achievements

- Replaced or rehabilitated 17 pumps and motors

2022-2023 Goals

- Replace or rehabilitate 12 pumps and motors

Vertical Assets

Regulator and Relief Stations

Existing Facilities

- 358 Regulator and Relief Stations
- Control water pressure to accommodate customer peak usage

2021-2022 Achievements

- Retrofitted eight stations
- Replaced two regulator stations and headers

2022-2023 Goals

- Retrofit eight regulator stations.
- Assess existing regulator station replacement
- Replace two regulator stations and headers



Infrastructure Achievements & Goals

LA Aqueduct



LA Aqueduct System

2021-2022 Achievements

- Completed major rehabilitation of First LAA Cascades
- Completed recoating the exterior of Aqueduct sag pipe
- Replaced 10 water diversion and measurement structures

Long-Term Goals

- Replace an average of 3 miles/year of the original top
- Complete exterior recoating of 5 miles of sag pipe
- Replace Tinemaha Dam Outlet Structure Control Gate
- Replace aged diversion infrastructure along the Aqueduct





Los Angeles
Department of
Water & Power



Questions

