



Operation NEXT Water Supply Program & Hyperion 2035 Program

Los Angeles Neighborhood Council Coalition
April 3, 2021





Agenda



LA Water Supply Overview



Operation NEXT



Hyperion Transformation



Schedule



Outreach/Environmental





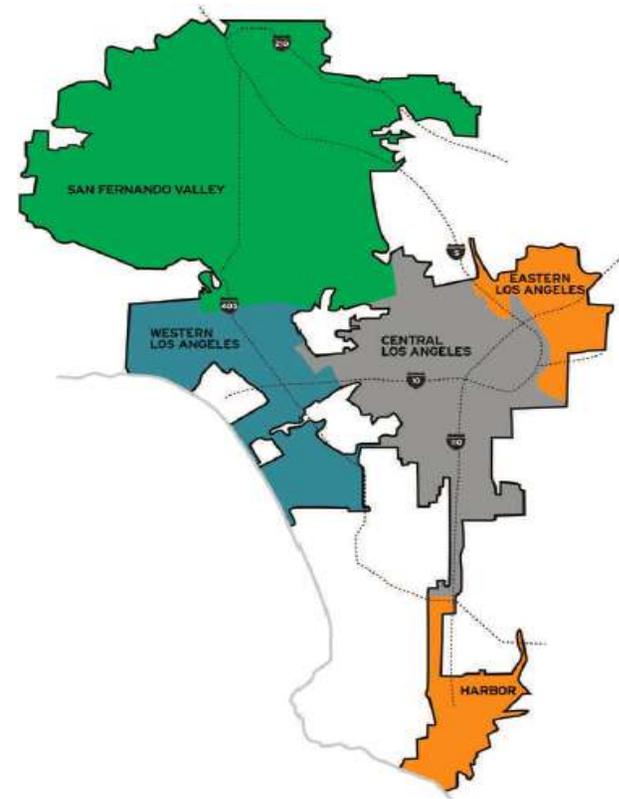
Operation NEXT Video

- <https://vimeo.com/454552304>



LADWP Overview

- Supply water and electricity to LA
- 472 square miles
- 4 million City residents
- 731,000 water service connections
- 7,330+ miles of pipeline
- 163+ billion gallons (500,000+ acre-feet) annual water demand





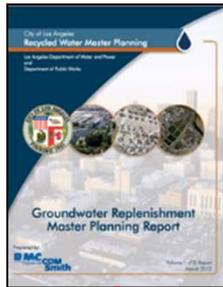
LA's Water Supplies



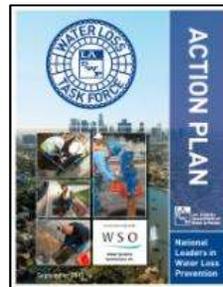


Water Resource Planning & Development

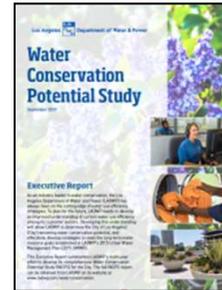
Recycled Water Master Plan (2012)



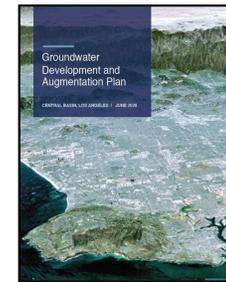
Water Loss Action Plan (2015)



Water Conservation Potential Study (2017)



Groundwater Development and Augmentation Plan (2020)



Stormwater Capture Master Plan (2015)



Sustainable City pLAN (2015)

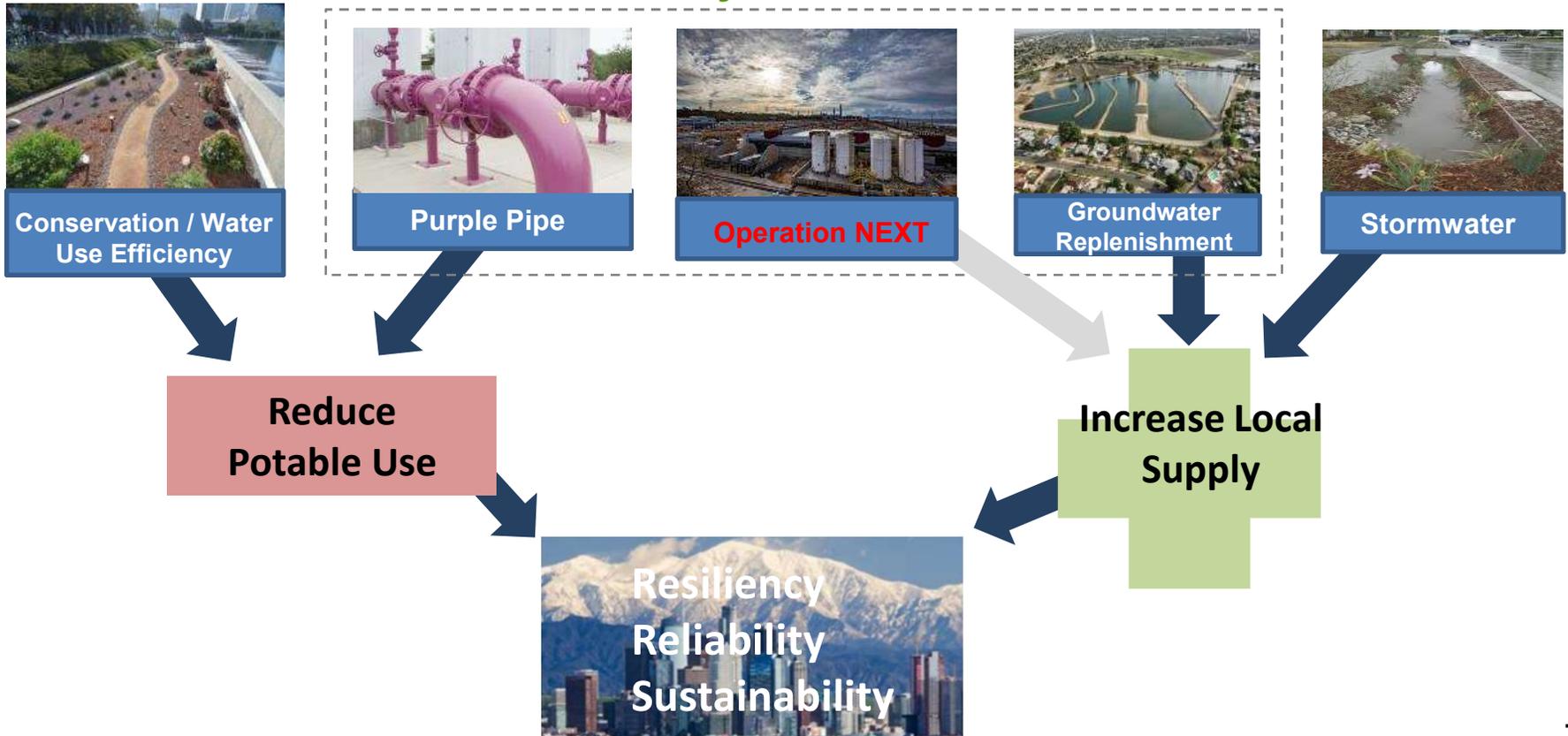


LA's Green New Deal (2019)



Local Water Supply Program

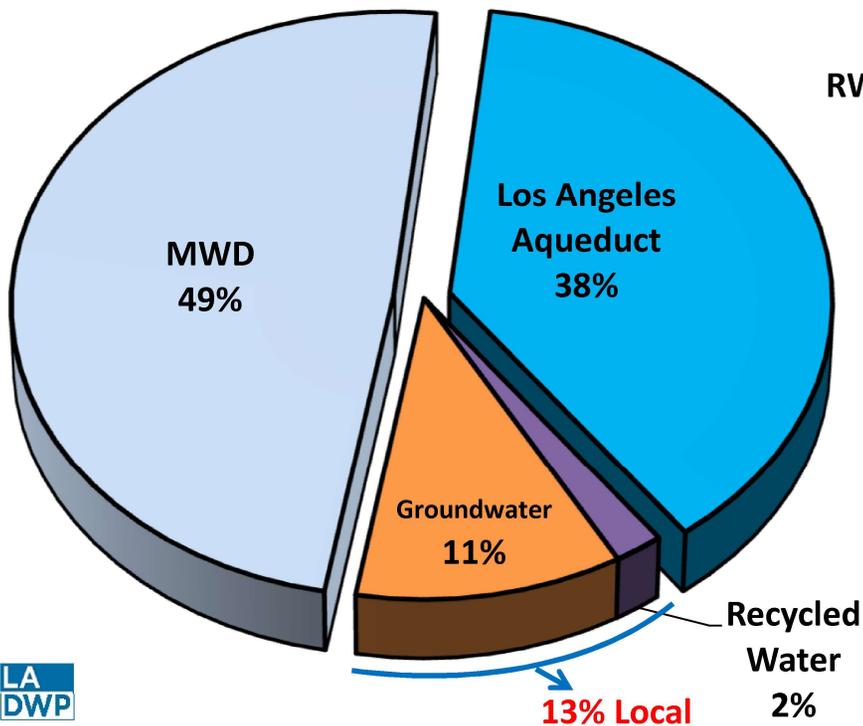
Recycled Water



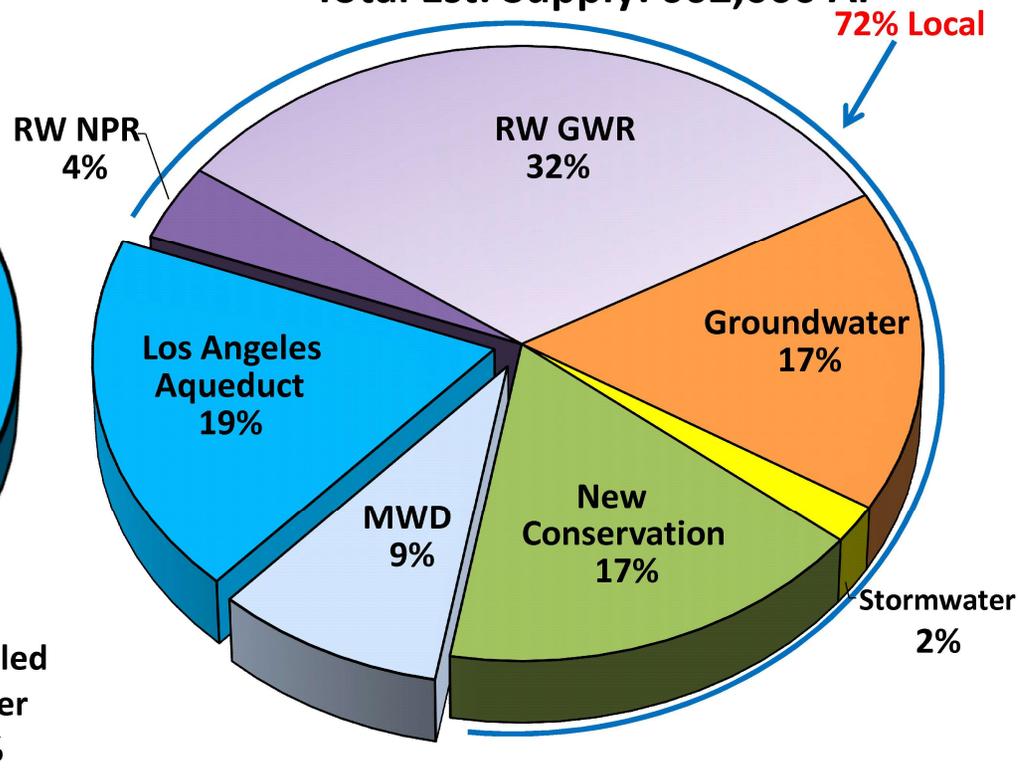


LA Water Supply Goals

Fiscal Year Average (FYE 15 – 19)
Total Demand: 502,405 AF



Supply Goals with Operation NEXT
Fiscal Year 2034-35
Total Est. Supply: 662,000 AF





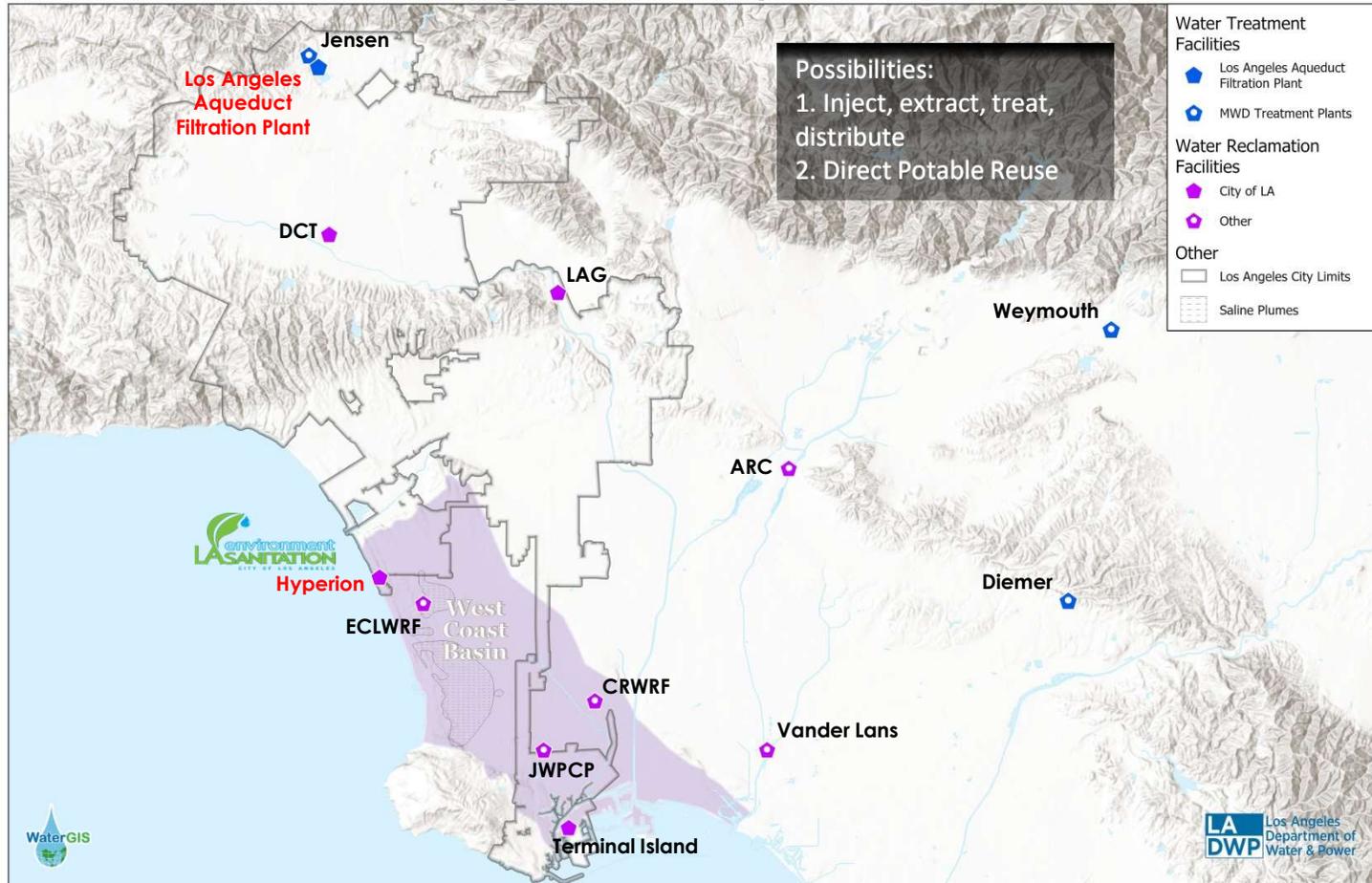
Operation NEXT & Hyperion 2035

Objective:

Recycle 100% of supply from the Hyperion Water Reclamation Plant for beneficial reuse for the City of Los Angeles (Estimated supply of 217 MGD / 243k AFY/ 80 billion gallons/yr).



Program Components

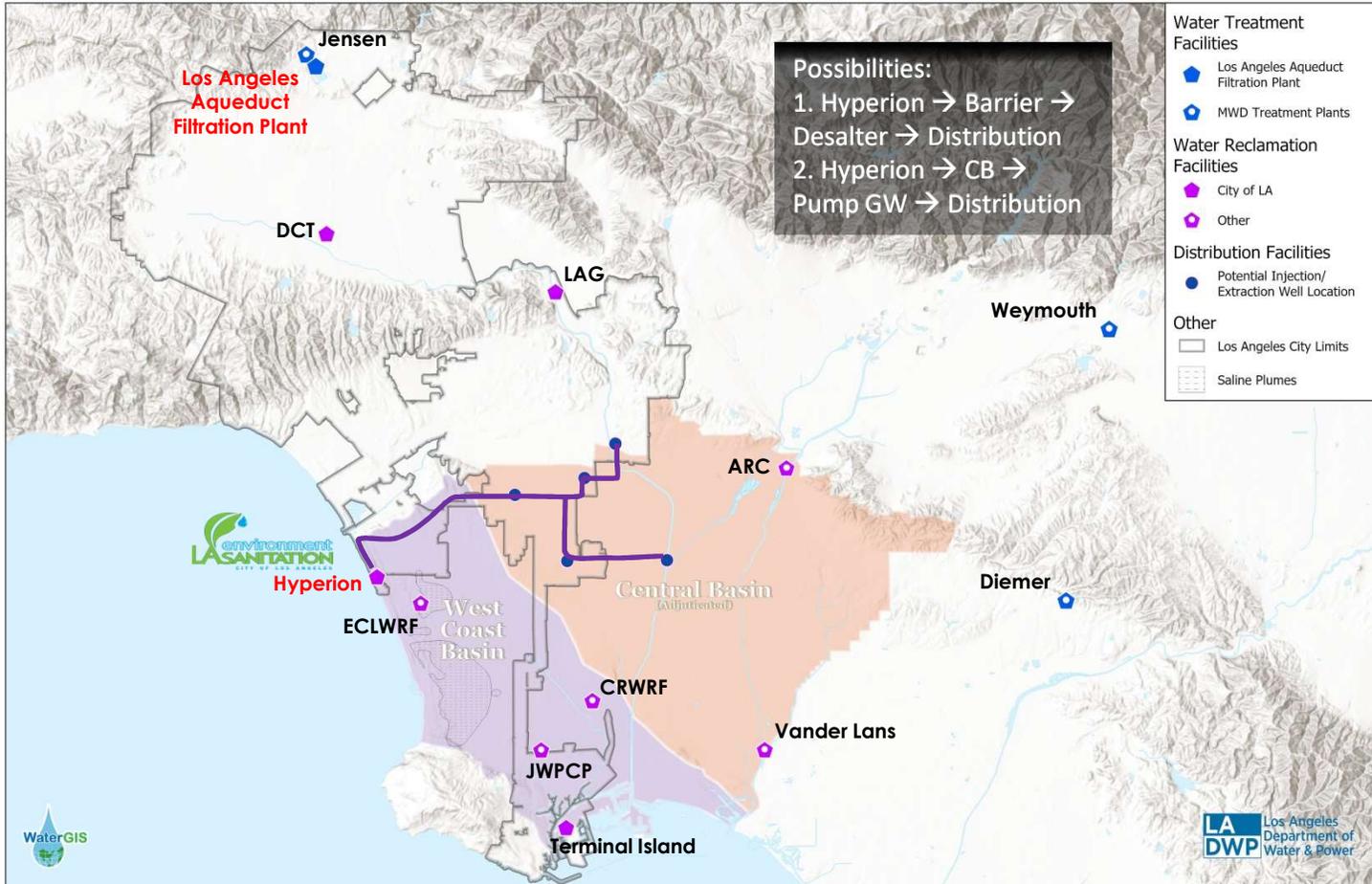


LA DWP DCT: Donald C. Tillman
 ARC: Albert Robles Center

LAG: Los Angeles-Glendale
 CRWRF: Carson Regional WRF

ECLWRF: Edward C. Little WRF
 JWPCP: Joint Water Pollution Control Plant

Program Components

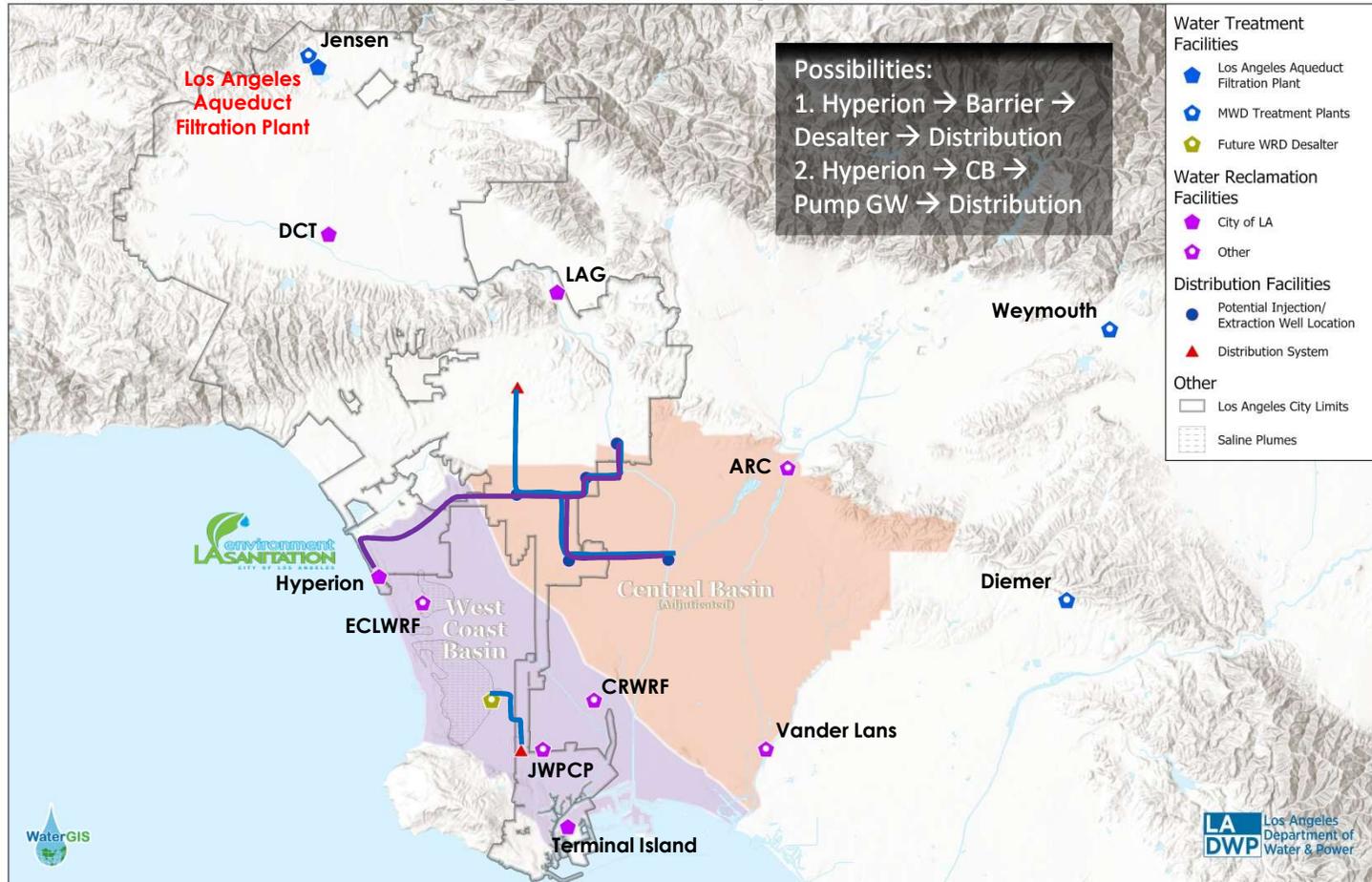


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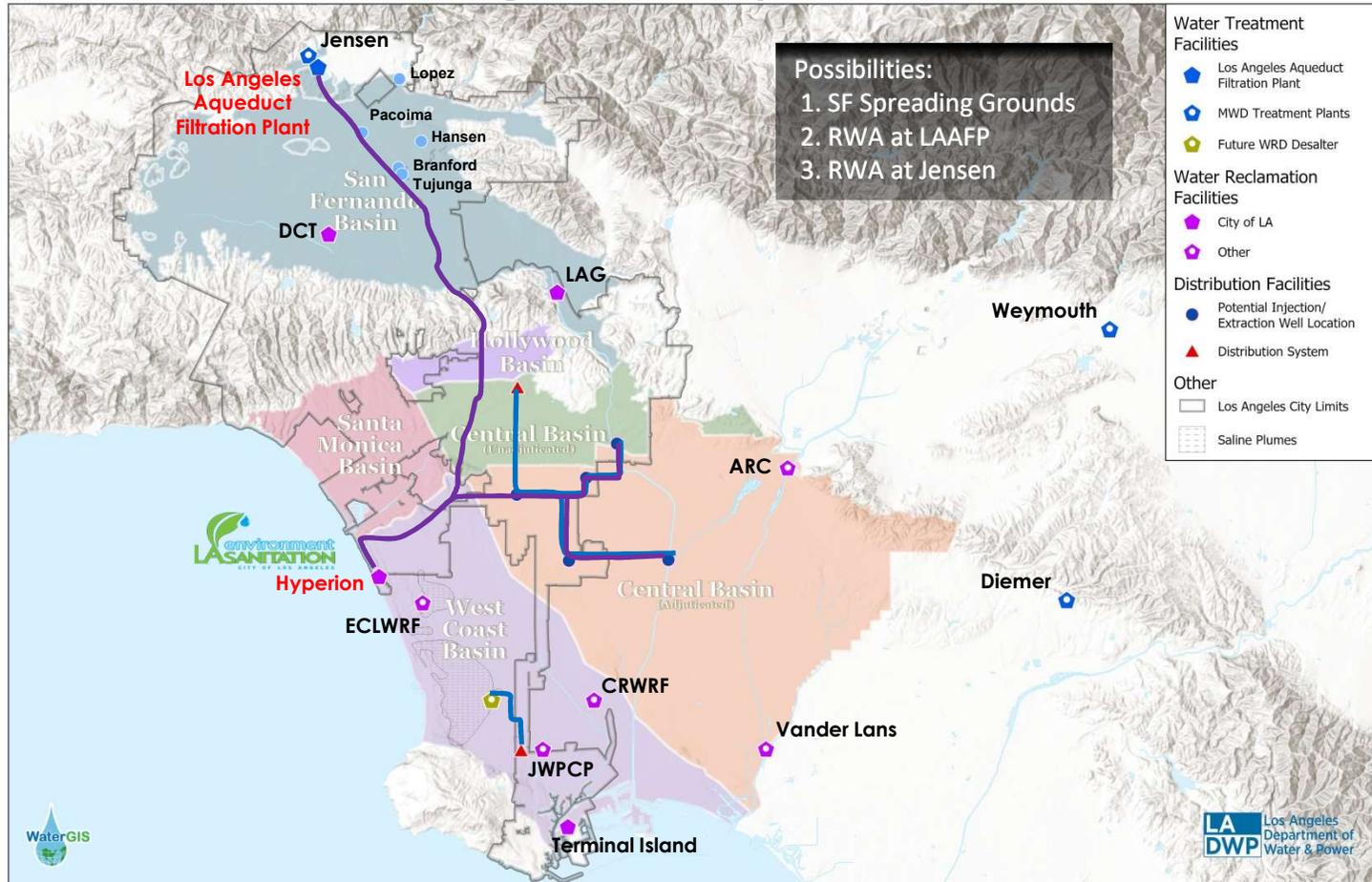


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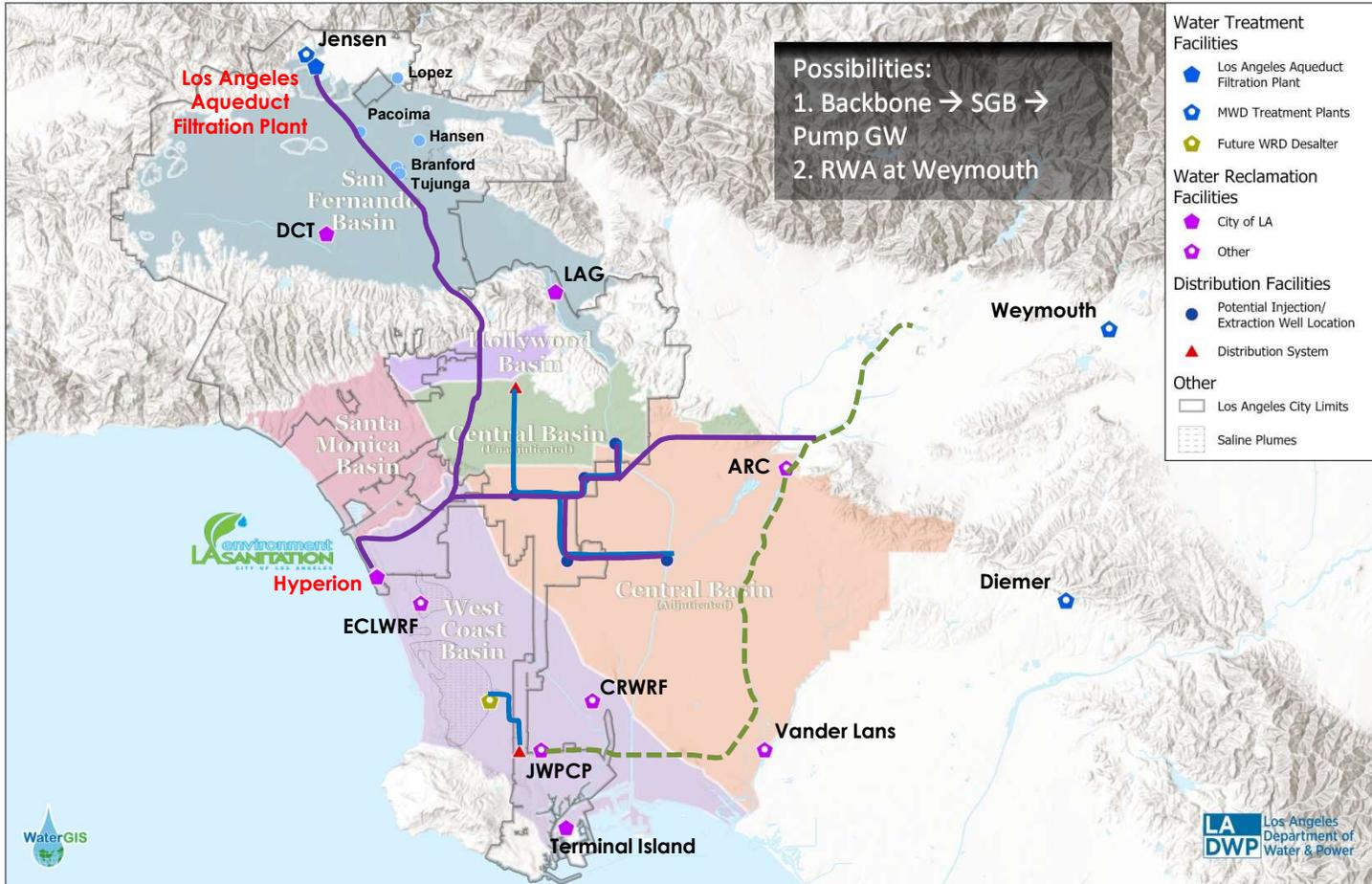


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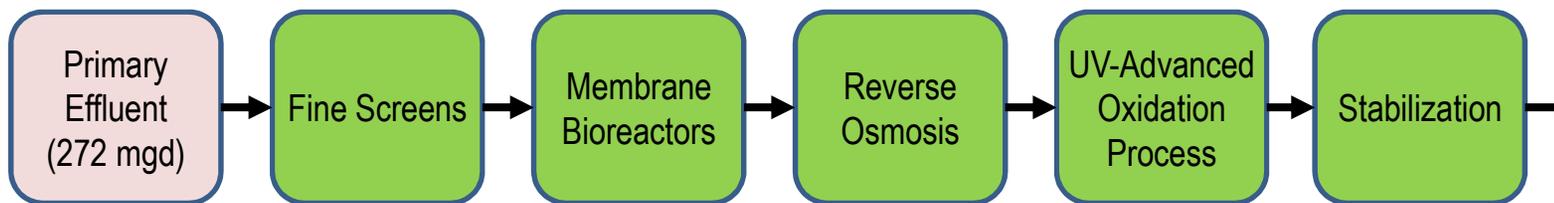


Hyperion 2035 Overview

Hyperion Effluent	Production (2035)
272 MGD; 304,683 AFY; 421 CFS	
Source	Appropriation (2035)
HWRP In-Plant Use* (36 MGD to be recirculated via pass-through cooling, consumptive use, etc.)	0 MGD
Subtotal	272 MGD
Reverse Osmosis (RO) Brine Loss (-20%)	55 MGD
Recycled Water Availability	217 MGD 243,074 AFY 336 CFS

*MBR effluent, would not be advanced treated at HWRP

Goal: Transform Hyperion to a 100% water recycling facility by 2035 for potable reuse applications



Product Water

Recycled Water:
-up to 217 mgd

West Basin:
-will vary, currently 35MGD

RO Concentrate:
-up to 55 mgd

Hyperion Advanced Treatment – Current Layout





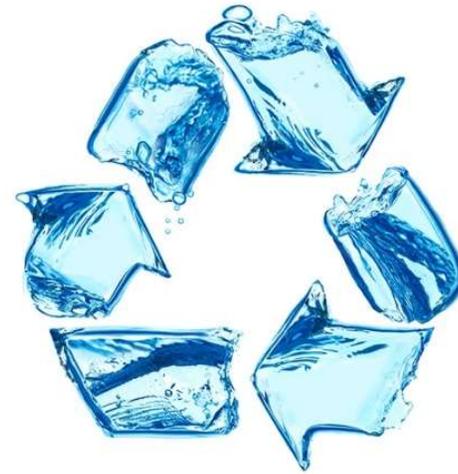
Hyperion Advanced Treatment – Full Buildout





Infrastructure

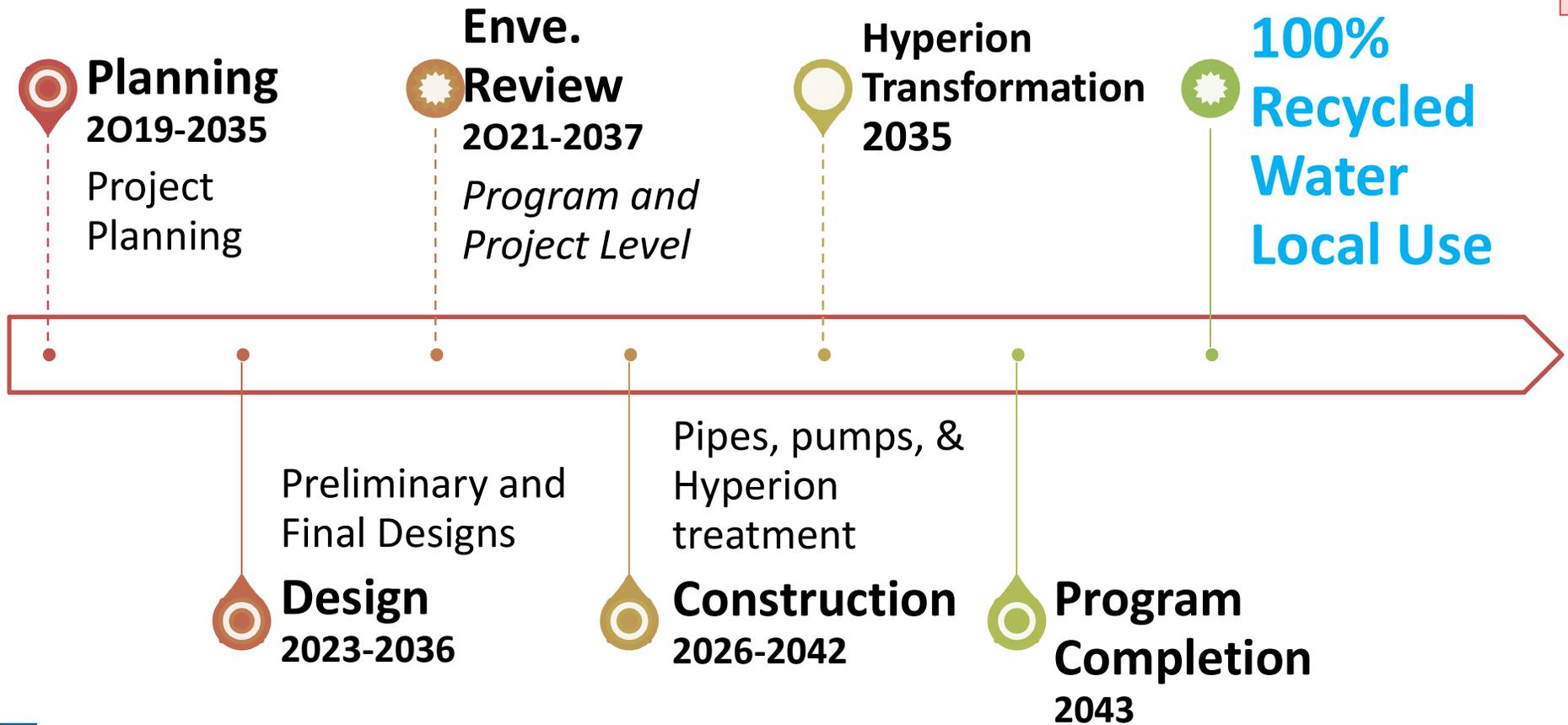
- **Advanced Water Treatment at Hyperion Water Reclamation Plant**
- **Pump Stations**
 - 4 to 5 facilities
- **Storage**
 - 4 to 5 storage forebays for pumping infrastructure
- **Trunklines**
 - 62 miles ranging from 54"-108"
- **Well Fields**
 - 1 to 2 well fields in CB; 15-45 cfs production each
- **Groundwater Treatment**
 - 1 to 2 facilities associated with new well fields
- **System Improvements**





Schedule

TJ3





Outreach Plan

- **Outreach Plan Complete**
- **Outreach continues with:**
 - City Council Districts briefed
 - Over 85 presentations given since Program inception (Dec 2018)
 - Neighborhood Councils
 - Other Organizations
- **Project Webpage**
 - www.ladwp.com/OperationNEXT





Environmental

- Notice of Preparation of Programmatic Environmental Impact Report : **3/15/21**
- Public Comments: **3/15 – 4/14, 2021**
 - Mail
 - Email
 - Virtual Comment Card
 - www.ladwp.com/OperationNEXT/ceqa
- PEIR covers all Program Components
 - Umbrella CEQA Document
 - Project-specific EIRs will be developed later dependent upon level of project detail known at time of PEIR
- PEIR Adoption Date: **Spring 2022**



Operation NEXt & Hyperion 2035

CEQA Process and Schedule
The purpose of the California Environmental Quality Act (CEQA) is to inform the public and decision makers about potential significant impacts of a project, and ways impacts can be mitigated or avoided, before the project is considered for approval

- The City of Los Angeles is the CEQA lead agency represented by the Los Angeles Department of Water and Power (LADWP) and Los Angeles Sanitation and Environment (LASAN) as joint partners
- Subsequent Project-level CEQA will be conducted as needed as designs are finalized and individual components are considered for approval
- The purpose of this NOP scoping period is to obtain input from the public and agencies on the environmental issues to be evaluated in the PEIR

CEQA Process and Schedule

- NOP Scoping Period**
March 15 to April 14, 2021
- Prepare Draft PEIR**
Summer 2021 to Fall 2021
- Issue Notice of Availability of Draft PEIR**
Fall 2021
- Draft PEIR Public Review and Comment Period**
Fall 2021
- Prepare Final PEIR**
Winter 2021 to Spring 2022
- Release Final PEIR**
Spring 2022
- Consider Program and PEIR Approval**
Spring 2022

ladwp.com/operationnext/ceqa



Thank You

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