



Construction Dewatering

*Strategies to
recapture & recycle
groundwater dewatering from
construction & development*

Water Cabinet
October 31, 2018



Presentation Overview

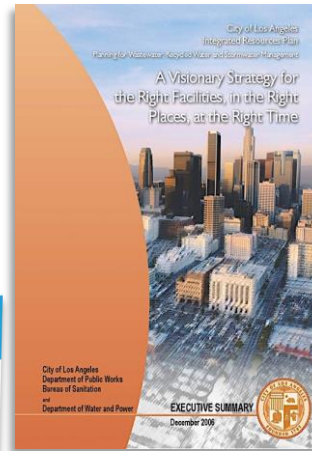
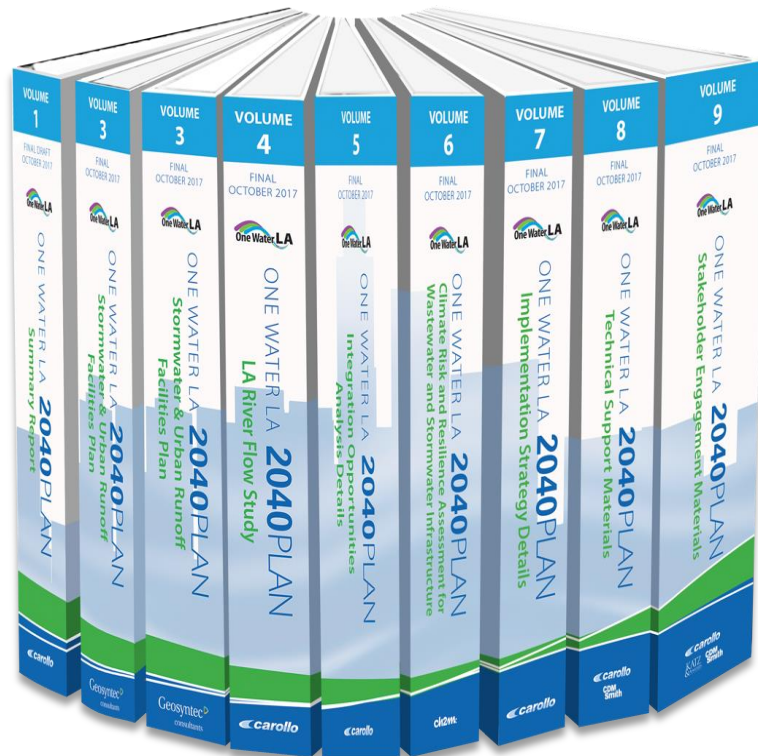
1. City of Los Angeles' **One Water LA 2040 Plan**
2. Background of **Construction Dewatering**
3. **8 Ways to Reuse Groundwater** from Construction Dewatering





City of Los Angeles is Committed to a Collaborative Approach to Integrated Water Management

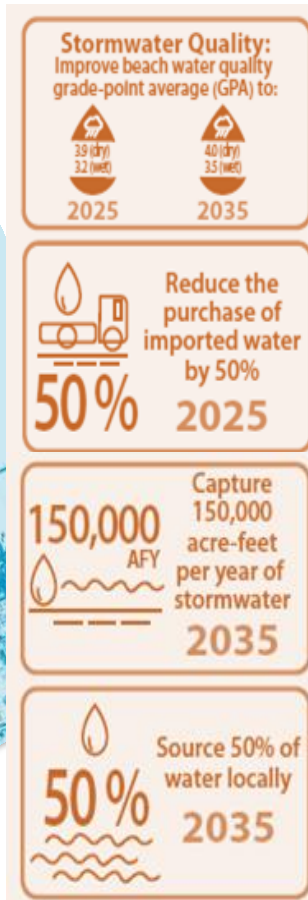
One Water LA 2040 Plan Planning Horizon: 2040



Updates the 2006 Water Integrated Resources Plan Planning Horizon: 2020

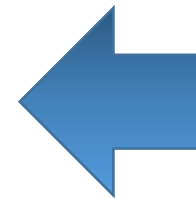
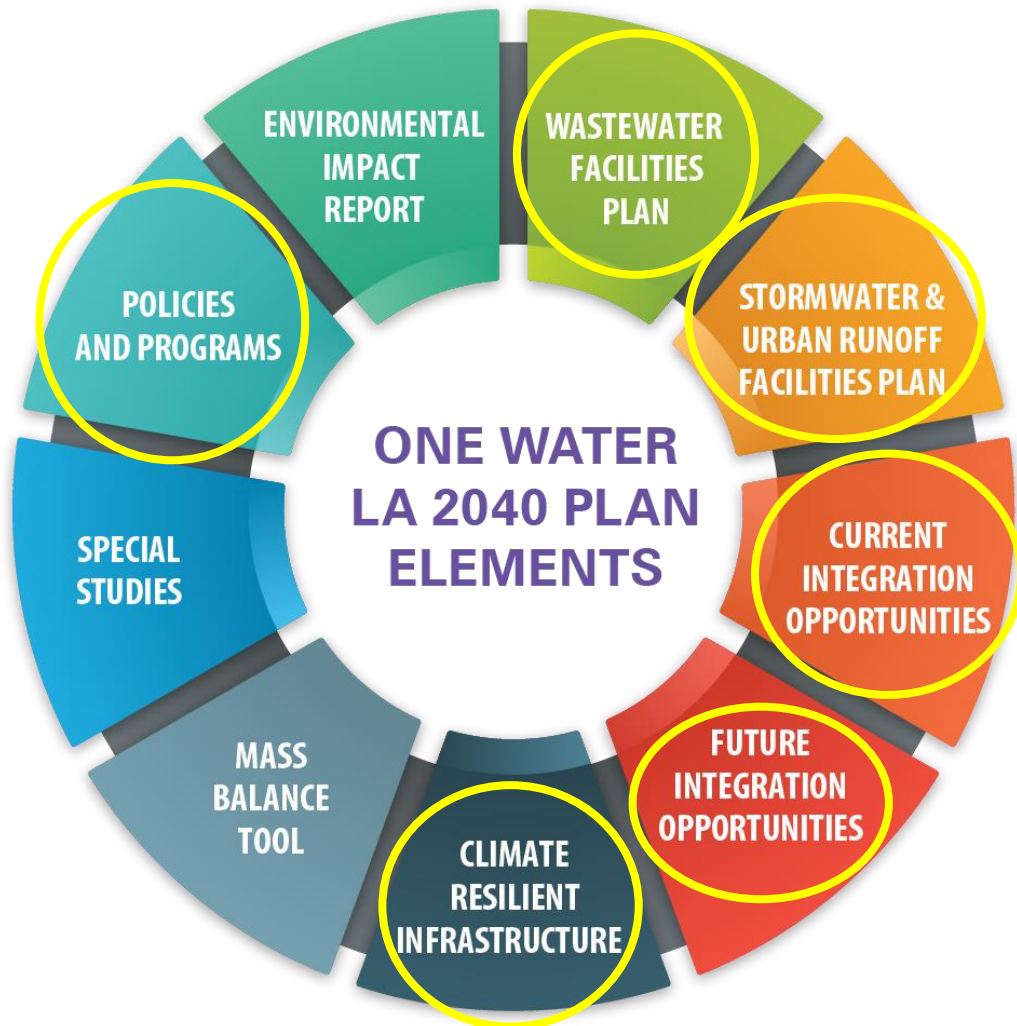


Supports LA's 2015
Sustainable City pLAN Goals





ONE WATER LA 2040 PLAN: Many Elements & Recommendations



500+

STAKEHOLDERS

30

MEMBER STEERING COMMITTEE

300+

ORGANIZATIONS REPRESENTED

10

STAKEHOLDER ADVISORY
GROUP MEMBERS

30+

STAKEHOLDER AND ADVISORY
GROUP MEETINGS

5

SPECIAL TOPIC GROUPS:

Decentralized Treatment/Reuse
Stormwater & Runoff Management
Partnerships, Collaboration
& Innovation
Funding & Cost-Benefit Analysis
Outreach & Communication

65+

PRESENTATIONS AND DISCUSSIONS
AT NEIGHBORHOOD COUNCILS,
CONFERENCES/EVENTS AND WITH
EDUCATION PARTNERS



A Steering Committee Fostered Integration

- **Stakeholder Advisory Group**
 - Developed Vision, Objectives, & Guiding Principles
- **Steering Committee Members**
 - 14 City Departments
 - 6 Regional Agencies
- **Key Accomplishments**
 - Identified 44 water-related existing integration opportunities
 - Identified policies to streamline integration between departments & agencies
 - Created awareness to integrate water elements in projects & programs





Construction Dewatering History

Koretz – Huizar Dewatering Motion (Apr. 2015)

- explore incentivizing dewatering to onsite reuse or sewer system instead of stormdrain

Bonin – Koretz Dewatering Motion (Jan. 2018)

- Strategies to recapture and recycle groundwater from dewatering
- Study other jurisdictions costs and benefits
- Evaluate negative impacts of dewatering on stormwater
- Analyze limiting time or add dewatering fees to disincentivize



(2) Discharge Options for Developers for Discharging Groundwater from Construction Dewatering Activities

(1)	Discharge to Sewer	Based on sewer availability Fee-based permit issued to discharger by LASAN : SSC – Sewer Service Charge SFC – Sewer Facility Charge TUF – Temporary Usage Facility
(2)	Discharge to Stormdrain	No Sewer Availability, Permitted by RWQCB: The City has no fee-based permit associated with discharge

Disadvantages of Discharging to Stormdrain

- Potential increase risk of water quality violations
- Develop more BMPs
- Construct additional low flow diversions (LFDs), etc.



Background and Concerns

- Average No. of Permits - 80
- Average Discharge Volume per RWQCB - 185,000 gallons per day
- Discharged into ocean and unavailable for reuse
- Various City programs encourage infiltrate urban runoff and reusing water
- These require money, resources, and time to implement and maintain



Priority of Dewatering

1. Create onsite reuse project
2. Discharge into Sewer
3. Discharge into Stormdrain



LA DWP 1-800-DIAL DWP (1-800-342-5397) [Contact Us](#)

[Who We Are](#) [Water](#) [Power](#) [In Our Community](#) [Finances & Reports](#) [Upcoming Events](#) [Careers](#)

LADWP > [About Us](#) > [Water](#) > [Water Conservation](#) > Custom Water Conservation Projects (TAP)

Water

- Past & Present
- Facts & Figures
- Sources of Supply
- Los Angeles Aqueduct
- Water Quality
- L.A.'s Drinking Water Quality Report
- Projects
- Sustainable Groundwater Management Act
- Groundwater Remediation
- Recycled Water
- Water Conservation**
 - History
 - Residential
 - Commercial/Multi-Family
 - Landscape Transformation Program
 - Landscape Training Classes
 - Los Angeles Outdoor Landscaping Academy
 - Parkway Landscaping
 - Rebates & Free Items
 - Custom Water Conservation Projects (TAP)
 - Ordinance & Codes
 - Drought Information
 - Report Water Waste
 - Documents
 - Rates

Custom Water Conservation Projects (TAP)

DISCLAIMER:
By applying for an LADWP rebate and/or program, personal information provided may be subject to public disclosure by requesting parties, pursuant to the California Public Records Act.

Contact Us
For questions about the Custom Water Program, please call 1-800-544-4498 and press "3".

Commercial Water Conservation Programs
LADWP offers its commercial customers several programs to save water and money. [Learn more](#) →

Program Documents
[Fact Sheet](#)

What Is It?
The Technical Assistance Program (TAP) is a financial incentive program offering commercial, industrial, institutional, and multi-family residential customers in Los Angeles up to \$250,000 for the installation of pre-approved equipment and products, which demonstrate water savings.

This joint effort between the LADWP and you, our customer, will help modernize your facility with the latest water-efficient equipment, save you money, and conserve our most precious natural resource.

How To Apply
Applying for this program is fairly simple and the LADWP staff is available to assist you with any questions. Just complete the TAP application on this page or call the Water Conservation Hotline at 1-800-544-4498 and press "3" to get assistance.

Technical Assistance Program Application
Download the application, fill it out, print it, and mail it along with any supporting documentation to:
Los Angeles Department of Water and Power
Technical Assistance Program
1230 W. 3rd Street #111
Los Angeles, CA 90017

Examples of Pre-Approved Projects
[Cooling Towers](#) [Recycling](#) [Recirculation](#) [Equipment](#)

Very often, the highest water using equipment in a commercial or industrial facility is the cooling tower. Cooling tower water efficiency upgrades are the most common custom water conservation project that LADWP customers



8 Ways to Reuse Groundwater

1. On-site Construction Operations
2. Groundwater Recharge
3. Landscape Irrigation
4. Commercial Industrial Processes
5. Restroom Plumbing
6. Emergency Reserve Tanks
7. Discharge to the Sanitary Sewer
8. Treatment Wetlands



On-site Construction Operations



- Dust control

- Concrete mixing
- Soil compaction





Emergency Reserve Tanks

- Fire protection water storage tanks





Discharge to Sanitary Sewer



- Recycled Water Supply
- Offset Potable Demand
- Irrigate Parks and Provide Green Spaces



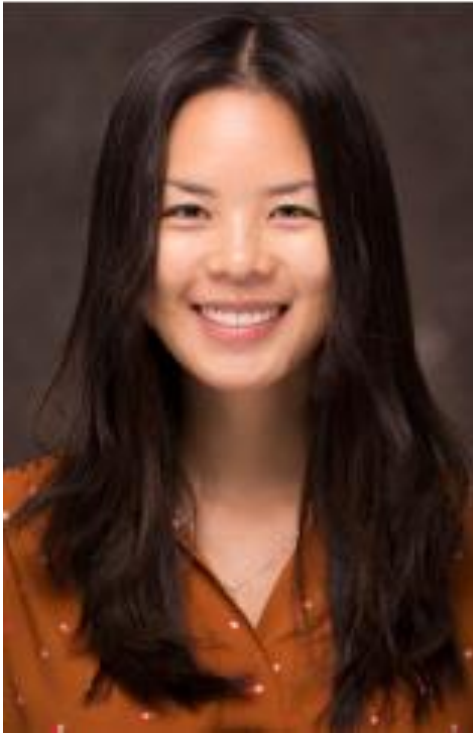


Treatment Wetland





Thank You



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