

One Water LA

Stakeholder Workshop #2

June 29, 2016



INNOVATION | INTEGRATION | INCLUSION

Today's Workshop Objectives

1. Provide update on upcoming recycled water projects
2. Provide overview of Phase 2 progress and next opportunities for stakeholder involvement
3. Provide opportunity for discussion and input on the Special Topic Group meetings held to date

Today's Workshop Agenda

1. Introductions
2. Agenda Overview & Ground Rules
3. RWAG Integration into One Water LA
4. Draft GWR Environmental Impact Report
5. GWR Pilot Study Phase 2
6. One Water LA Phase 2 Update
7. Partnerships, Collaboration & Innovation Report
8. Decentralized/Onsite Treatment Report
9. Next Steps
10. Recycled Water Fill Station Training (Optional)

GROUND RULES



We Commit To:

1. Listening attentively and with an open mind.
2. Ensuring transparency in sharing information.
3. Respecting your ideas and perspectives.
4. Keeping good records of discussion and input.
5. Providing information in a timely manner (whether at the workshop or as a follow-up).

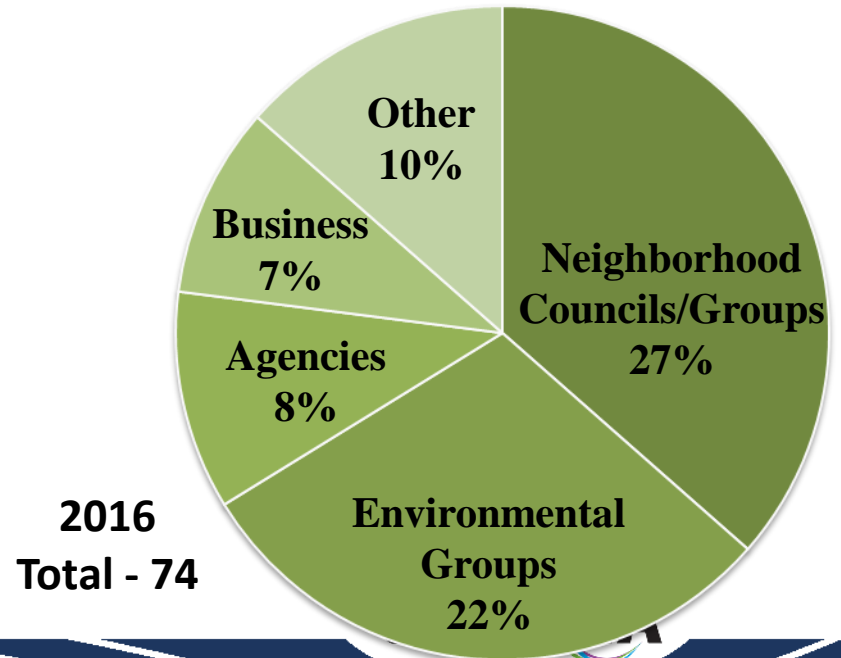
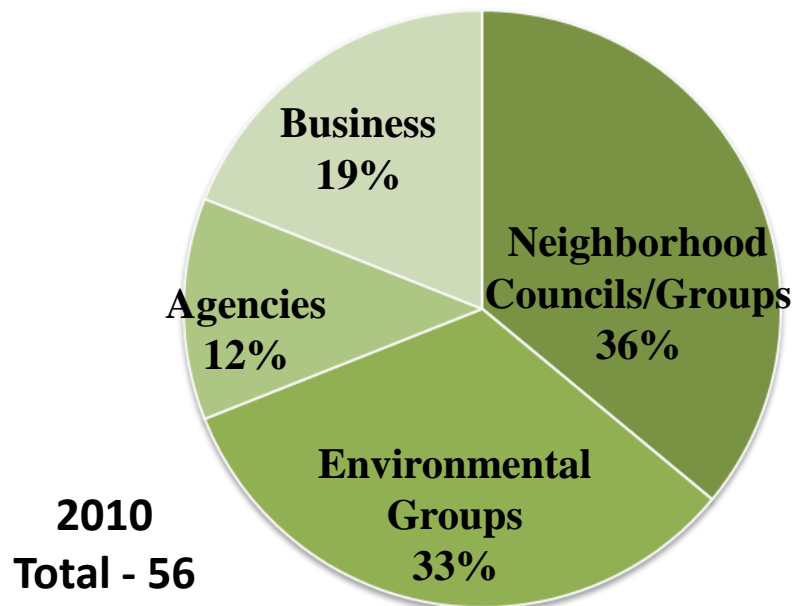
What we expect from you:

1. Contribute to make the group's time together productive.
2. Respect the ideas and perspective of others. Give everyone a chance to speak. Don't interrupt.
3. Listen attentively and with an open mind.
4. Maintain focus on the topic currently under discussion. Avoid repeating issues that have already been raised or recorded.
5. Consistent participation and engagement is critical. Commit to attend workshops, tours, and other sessions as often as possible.

RWAG Integration into One Water LA



Over 70 RWAG Participants



Over 70 RWAG Participants



Congestion

- Homeowners of Encino
- TreePeople
- Canada Goose Project
- LA Community Garden Council
- Santa Monica Bay Restoration Foundation
- Forest Lawn Memorial Park
- Green LA Coalition
- Arthur Golding & Associates
- The River Project

- Natural Resources Def. Council
- City of Beverly Hills - Water Technical Com.
- North Hills West NC
- Pacoima Beautiful
- Los Angeles Kayak Club
- Heal the Bay - WQ
- Food and Water Watch - OC
- Silver Lake Improvement Association
- Studio City Beautification Association

RWAG Goals

- Share information
- Address Concerns
 - Health and Safety
 - Project Cost
 - Rate Impact
 - Oversight
 - Process
- Receive Feedback



Accomplishments

Recycled Water Master Planning Documents

RWAG Consensus Statement

Working Groups

Engaged and Informed Stakeholders



Reason for the RWAG Integration to One Water LA

Recent RWAG Meetings: June 25th and September 1st 2015

Consolidate efforts | More efficient | Consistent Messaging



Residential RW Fill Stations

Pick Up Free Recycled Water!

- Up to 300 gallons of FREE recycled water
 - LADWP Customers Only
- LA Zoo Parking Lot (Northside)
- Tuesdays 8 am – 11 am
 - *Subject to change*
- Brief Training Required
 - *Today at 3:30 pm*
- LAG – 2nd location to open soon

Learn More:

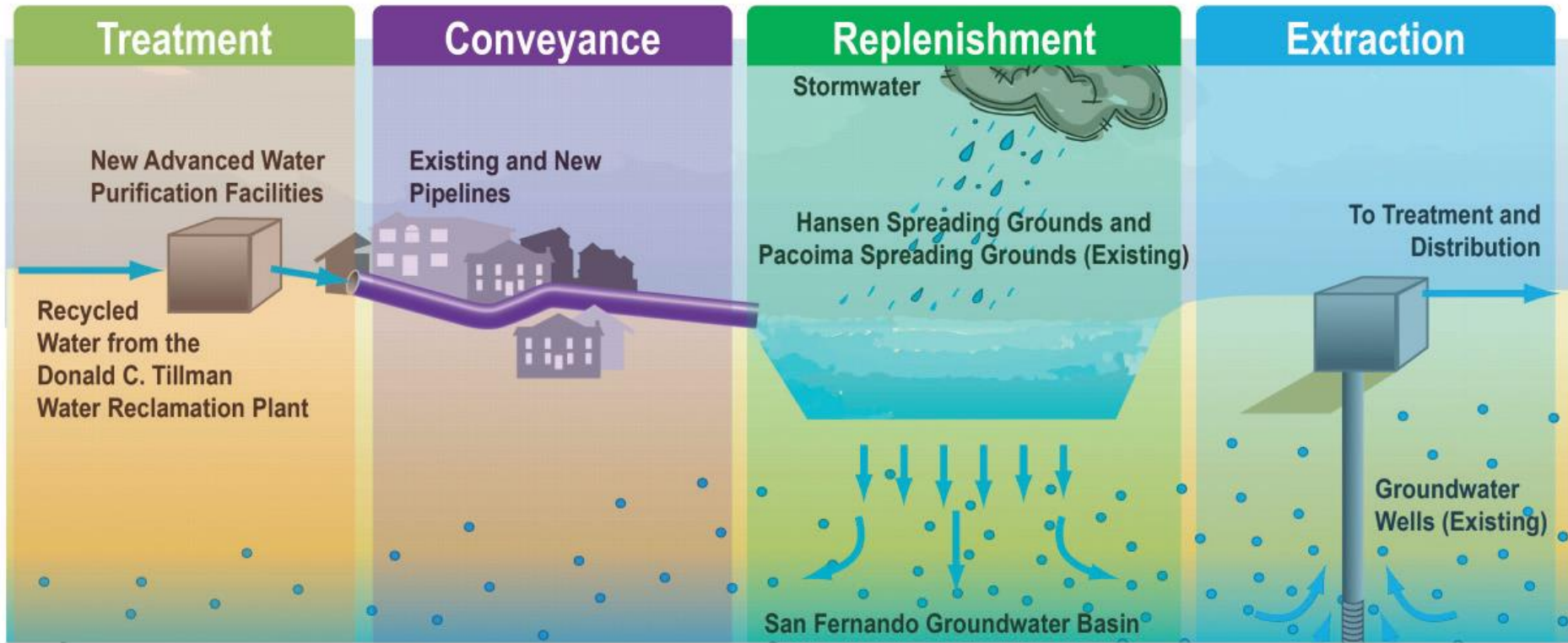
www.LADWP.com/RWFS



Los Angeles Groundwater Replenishment Project



Groundwater Replenishment



Draft Environmental Impact Report (EIR)

Draft Environmental Impact Report
SCH No. 2013091023

***Los Angeles Groundwater
Replenishment Project***

Prepared for:



Los Angeles Department of Water and Power
Environmental Affairs
111 North Hope Street, Room 1044
Los Angeles, California 90012

Prepared by:

AECOM

515 South Flower Street, 8th Floor
Los Angeles, CA 90071

May 2016

- GWR EIR can be found at:
www.ladwp.com/envnotices
- Draft EIR public review:
May 12 – July 11, 2016 (60 days)
- Public Comment Meeting:
Tuesday, June 14, 2016
- Arleta Projects Meeting
(Public Comments Accepted):
Monday, June 13, 2016
- Send comments to Nadia Parker
nadia.parker@ladwp.com

Draft Environmental Impact Report (EIR)

Los Angeles Groundwater Replenishment Project



Figure ES-1
Overview of Proposed Project

Chapter 2: Description of the Proposed Project



Figure 2-7
Proposed Project, DCTWRP Facilities

Draft Environmental Impact Report (EIR)



Encino
Neighborhood Council



Pacoima
Neighborhood
Council



Los Angeles Neighborhood
Council Coalition



Mission Hills
Neighborhood
Council



Neighborhood Council



Pacoima
Beautiful



The
Japanese
Garden

Sepulveda Basin Wildlife Areas Steering Committee

Van Nuys Neighborhood Council



MISSION HILLS BASIC CAR 19A43
NEIGHBORHOOD WATCH



Thank you

Questions?

www.ladwp.com/GWR

lagwr@ladwp.com

One Water LA Phase 2 Update



ONE WATER LA: Program Overview

Vision: *One Water LA is a collaborative approach to develop an integrated framework for managing the City's watersheds, water resources, and water facilities in an environmentally, economically and socially beneficial manner.*

One Water LA 2040 Plan: To be completed early 2017

Phase I (completed July 2015):

Extensive outreach to compile diverse stakeholder database

Developed Vision, Objectives, and Guiding Principles;

Developed **Initial Water Balance Tool**;

Over 25 mtgs. held w/City Departments & Regional Agencies to find integration opportunities

Phase 2 (began in Sept. 2015):

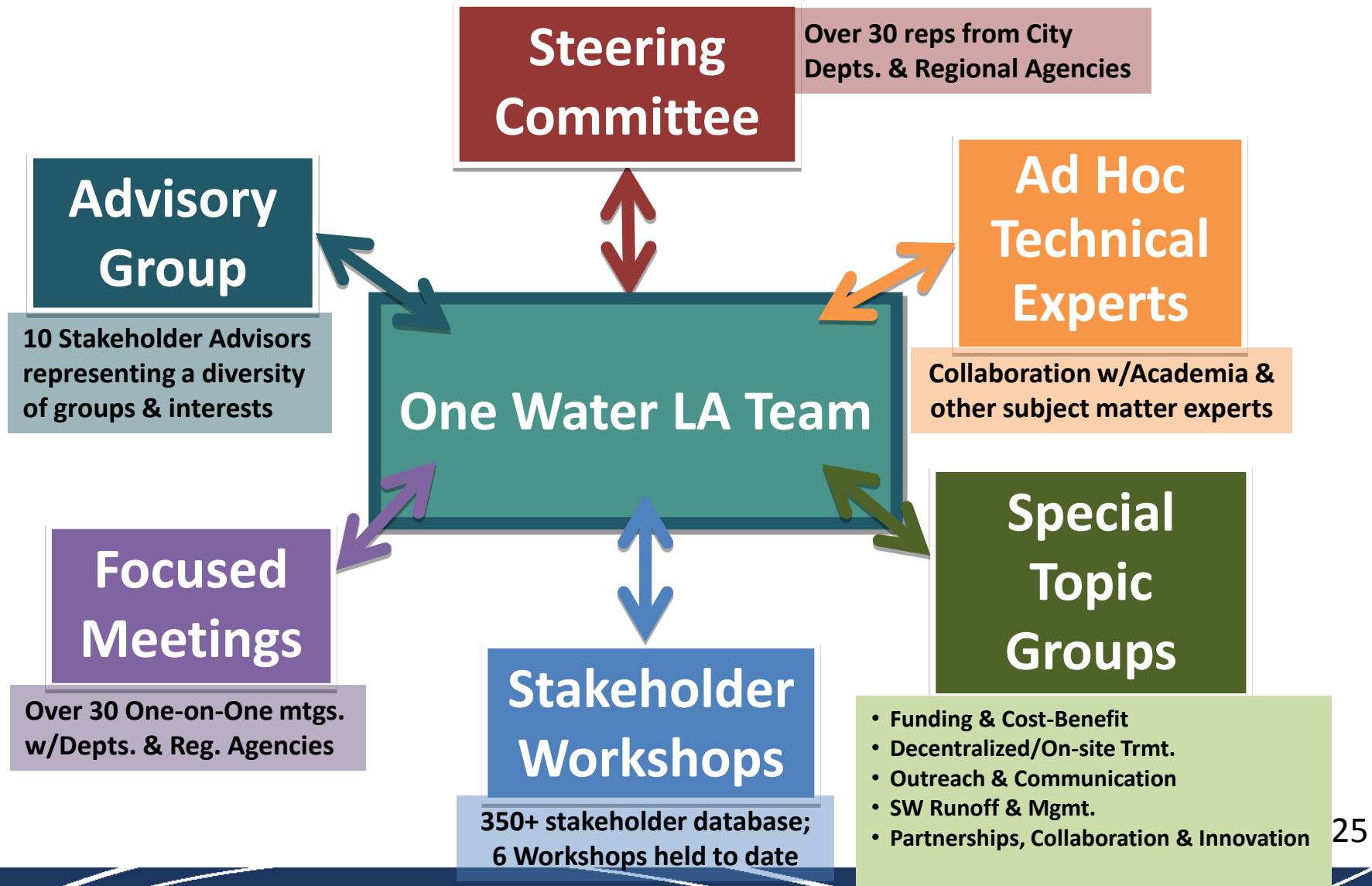
Developing Integration Strategies for Citywide projects and policies, Funding Strategies, Wastewater and Stormwater Facilities Plans, and Special Studies

Stakeholder Involvement will continue

Collaboration w/City Depts. & Regional Agencies will continue to develop local and regional integration strategies



COMPREHENSIVE STAKEHOLDER OUTREACH TO INTEGRATE MULTIPLE VIEWPOINTS



SPECIAL TOPIC GROUPS

Decentralized Use & On-site Treatment

- 12 stakeholders
- 3 meetings

Funding & Cost-Benefit Analysis

- 13 stakeholders
- 3 meetings
- 1 meeting pending

Outreach & Communication

- 7 stakeholders
- 3 meetings

Partnerships, Collaboration & Innovation

- 15 stakeholders
- 3 meetings

Stormwater & Runoff Management

- 21 stakeholders
- 3 meetings



Total : 43 Stakeholders, 15 meetings

MAYOR'S REQUEST: "INCLUDE AND ENGAGE ALL CITY DEPARTMENTS"

More than 20 different departments and agencies are engaged!

	Water Departments and Agencies	Departments with Water-Related Needs			
		Transportation	Construction & Code Enforcement	Open Space Recreation Education	Land Use Planning & Community
City	<ul style="list-style-type: none">✓ Water and Power✓ Bureau of Sanitation	<ul style="list-style-type: none">✓ Street Services✓ Dept of Transportation✓ Port of LA✓ LAX Airport	<ul style="list-style-type: none">✓ Engineering✓ Building and Safety✓ General Services	<ul style="list-style-type: none">✓ Recreation & Parks✓ LA Zoo	<ul style="list-style-type: none">✓ City Planning✓ Neighborhood Empowerment
Non-City	<ul style="list-style-type: none">✓ Metropolitan Water District✓ LA County Public Works✓ LA County San Dist.✓ US Army Corps	<ul style="list-style-type: none">✓ Caltrans✓ High Speed Rail✓ METRO		<ul style="list-style-type: none">✓ LA Unified Schools	<ul style="list-style-type: none">✓ SoCal Assoc. of Governments

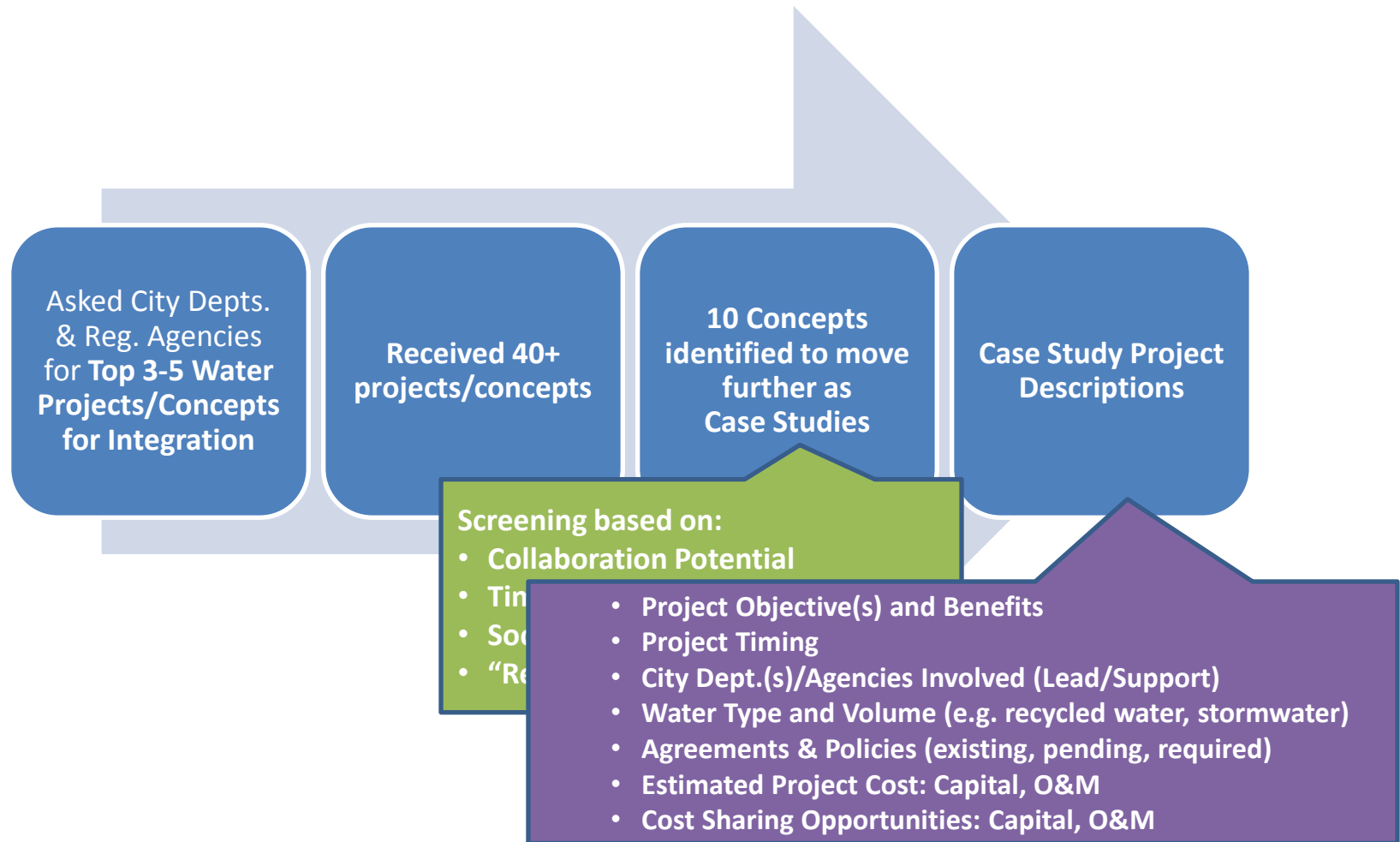
One Water, One Integrated City



Short-Term Integration Opportunities: Potential Case Studies



Identifying Case Studies



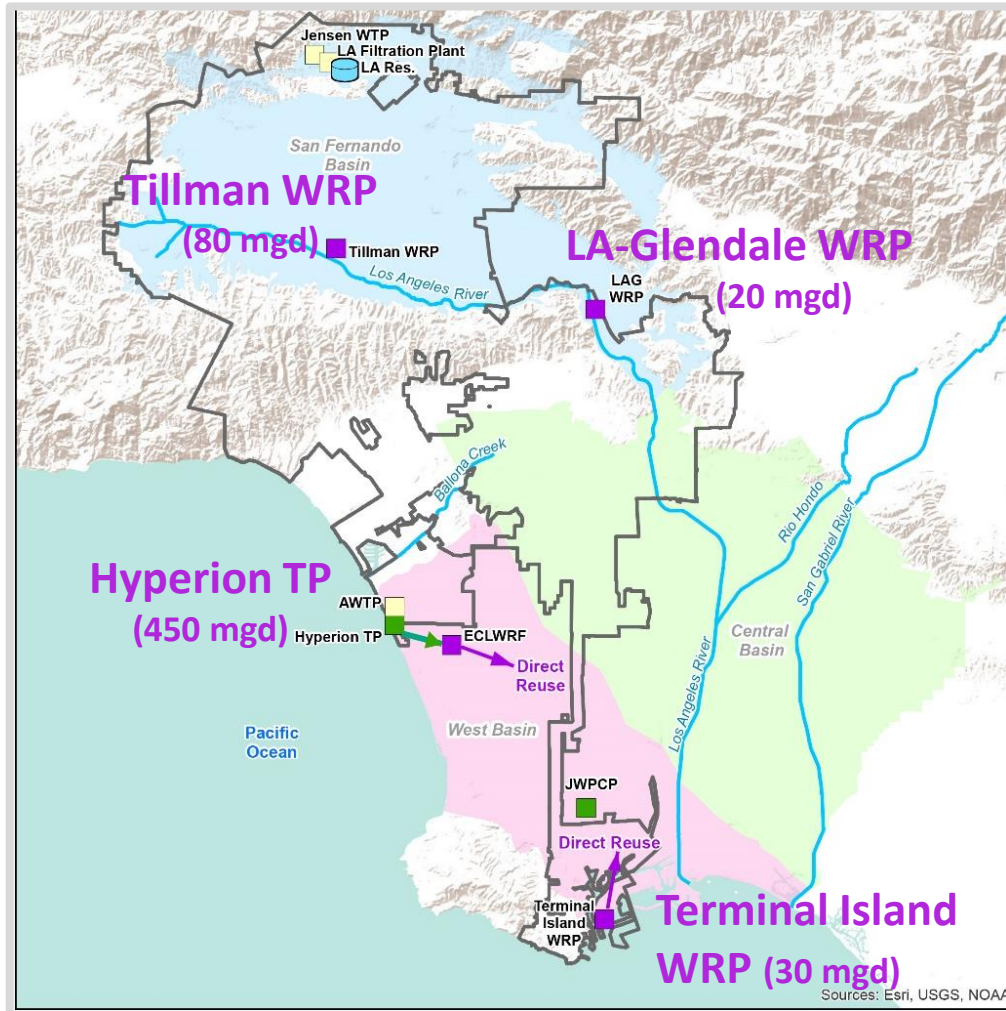
10 Potential Case Studies

#	Lead Agency	Project Name	Stormwater Component	Recycled Water Component	Department(s) Involved
1	LA County Flood Control District	Rory M. Shaw Wetlands	✓		HSR, LADWP, LASAN, RAP
2	LARiverWorks	Restoration of G2 Parcel at Taylor Yard	✓		BOE, HSR, LASAN, RAP
3	Los Angeles Unified School District	Capture of off-site stormwater on a school site	✓		LASAN
4	Los Angeles World Airports	Design & Construction of Recycled Water Pipeline		✓	Caltrans, LADWP
5	LA Zoo	Recycled Water at the Zoo		✓	LADWP, LASAN, RAP
6	METRO	LA River Bike Path	✓		LARiverWorks, LADOT, LASAN
7	Port of Los Angeles	Wilmington Waterfront Development	✓	✓	LADWP, LASAN
8	Rec & Parks	MacArthur Park	✓	✓	BOE, LASAN, LADWP
9	Rec & Parks	Rancho Park	✓	✓	LADWP, LASAN
10	Rec & Parks	Caballero Creek Park	✓		LARiverWorks, LASAN

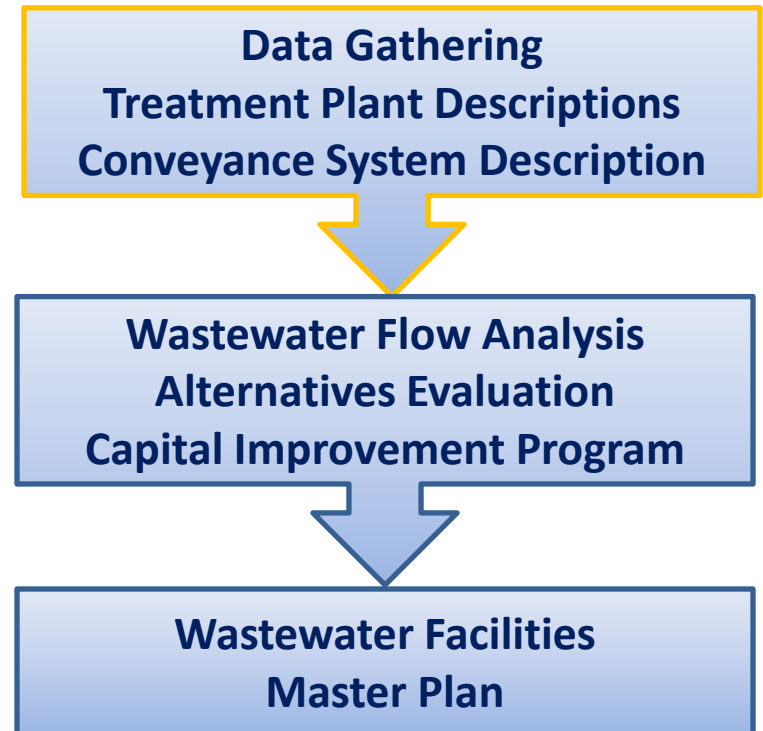
Long-Term Integration Opportunities: Alternative Analysis



Wastewater Facilities Master Plan



PLAN DEVELOPMENT PROCESS



The Wastewater Facilities Master Plan will ultimately answer many key questions

What **conveyance improvements** are needed?



How much wastewater shall be recycled from **Hyperion** in 2040?



How best to **optimize the sewer collection system** operations?

What is the flow impact of low flow **stormwater diversions**?

How to **prioritize and phase** improvement projects?

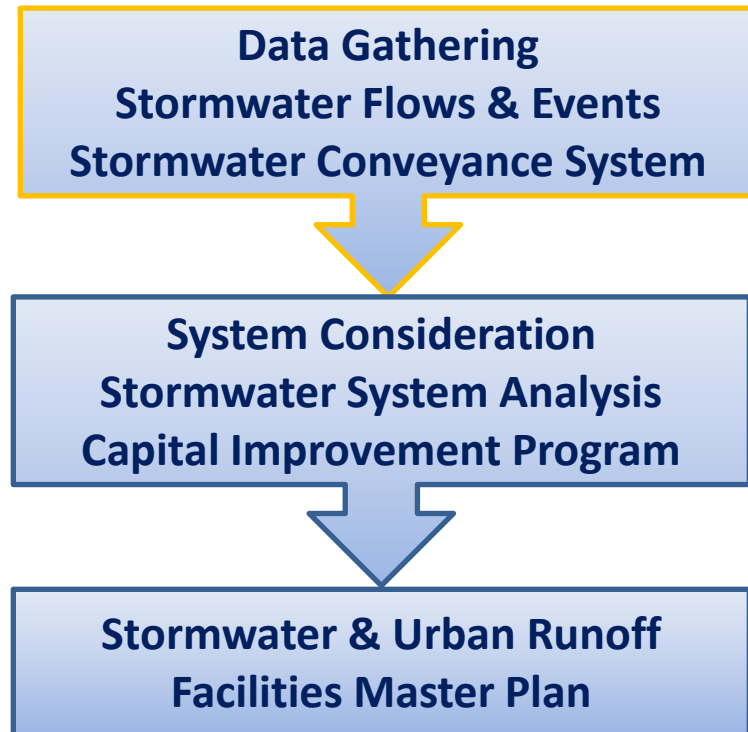
How much **equalization storage** is needed at Hyperion?

How can we best maximize recycling from **Tillman WRP**?

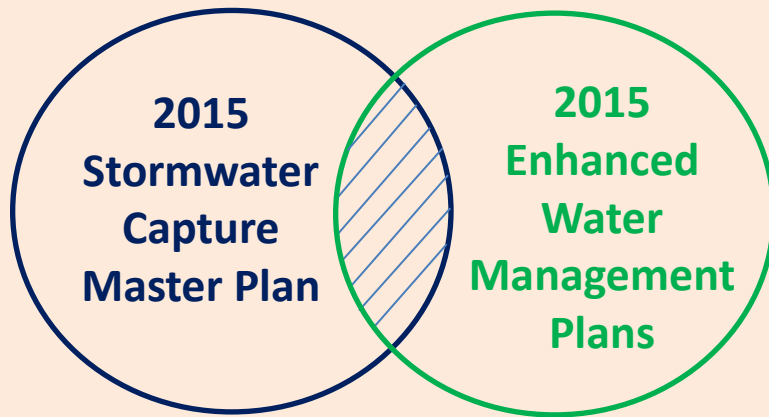
What **treatment technologies** will be utilized at each plant?

The Stormwater and Urban Runoff Master Plan will build upon existing documents and plans

PLAN DEVELOPMENT PROCESS



The Stormwater Facilities Master Plan will provide a roadmap for the future



Unique Plan Elements:

- Identify Gaps & Overlap of SCMP & EWMPs
- Combine Stormwater Quality & Supply
- Grey Infrastructure Operations
- Stormwater System Rehabilitation Needs
- Incorporate Flooding Drainage Needs
- Stormwater Capital Improvement Plan

Cleaner Beaches & Ocean



Stormwater Capture & Recharge



Reduced Flooding



Special Topic Group Report Out (Part 1): Partnerships, Collaboration & Innovation

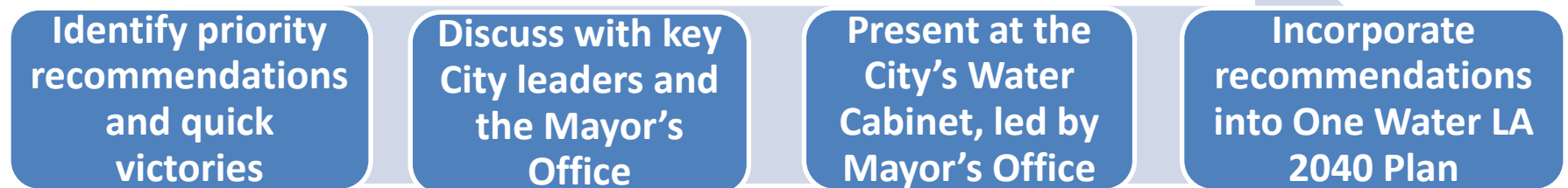


Partnerships, Collaboration & Innovation Special Topic Group

Purpose of Group:

- ID and enhance water-management partnerships between the City, regional agencies, private organizations and non-profits
 - Provide input to City on whether changes are needed or should stay status quo related to Partnerships, Collaboration and Innovation
- Identify, solicit and evaluate potential innovations (technological or other) that the City may want to consider to further promote the One Water LA vision.

Expected process of input received from Special Topic Group Meetings:



Partnerships, Collaboration & Innovation Special Topic Group (cont'd)

The Process:

- Three Special Topic Group Meetings
- Survey sent to group members for feedback
- Categories Identified by Group included:
 - Potable & Non-Potable Reuse
 - Process Streamlining
 - Mapping
 - Water Conservation
 - Climate Change
 - Other
- Priority Recommendations & Quick Victories were selected by the group for Report Out



Priorities

Topic	Priority Recommendation
Potable and Non-Potable Reuse	<ul style="list-style-type: none"> Recruit the largest water users and work with Industry & Manufacturing Associations to build programs that finance infrastructure implementation and other partnerships Work with outside groups to advance lobbying for Direct Potable Reuse
Process Streamlining	<ul style="list-style-type: none"> Reform City Department (e.g. LADBS, DCP, etc.) decision making processes so that several processes occur in series, rather than in succession Develop web portal to connect large users to recycled water and match innovators with the finance community to facilitate water-related startups Develop web portal for connecting willing partners with researchers or companies who need a site to pilot new technologies Develop portal to track grants that agencies (and partners) are eligible for Determine potential opportunities to work with incubators/private companies on technologies related to water
Mapping	<ul style="list-style-type: none"> Map underdeveloped land along the LA River and contact owners to obtain rights to use of land for stormwater capture & habitat restoration Map permeability over useful piece of water supply for areas in the City Map locations for mulch and compost distribution

Quick Victories

Topic	Quick Victory
Water Conservation	<ul style="list-style-type: none">• Partner with California Urban Water Conservation Council• Expand partnerships with residents to increase public awareness on locations for mulch and compost distribution
Climate Change	<ul style="list-style-type: none">• Participate in the MC4 Climate Conference and highlight One Water LA's proactive efforts
Other	<ul style="list-style-type: none">• Engage the Los Angeles Business Council, BizFed and Chamber of Commerce• Engage finance community to invest in modern technologies

Discussion



Special Topic Group Report Out (Part 1): Decentralized and Onsite Treatment



Graywater/Decentralized Special Topic Group

1) Graywater Meeting

- Open discussion forum
- Opportunity for Stakeholders to bring up thoughts and ideas
- Direct policy or guiding principles will not be established at this time

2) Onsite Treatment Systems Meeting

- Guiding Principles are more appropriate than an overly prescriptive policy
- Application process will be developed to review applications and issue permits on a case-by-case basis

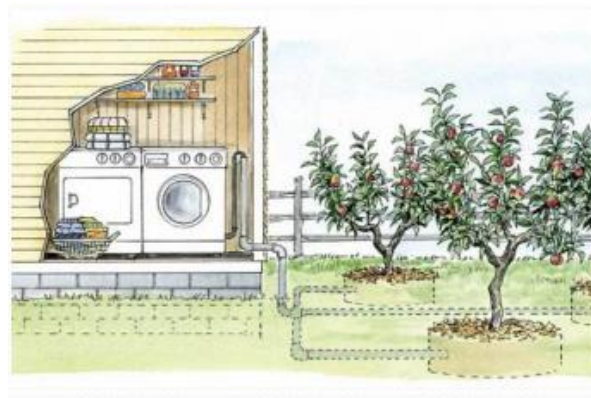
3) Stakeholder Report-Out

Graywater Status Update



Draft Guiding Principles

- The City currently has no plans to incentivize residential graywater systems.
- Graywater will be considered as part of the City's overall water supply and recycled water strategy.
- Data gaps exists to quantify the amount of water conserved by implementation of graywater systems.
- The City characterizes Graywater as a potential water supply offset and will follow-up with further studies beyond the current.



Single Household
'laundry-to-landscape'
'showers-to-flowers'

Onsite Treatment Guiding Principles Summary

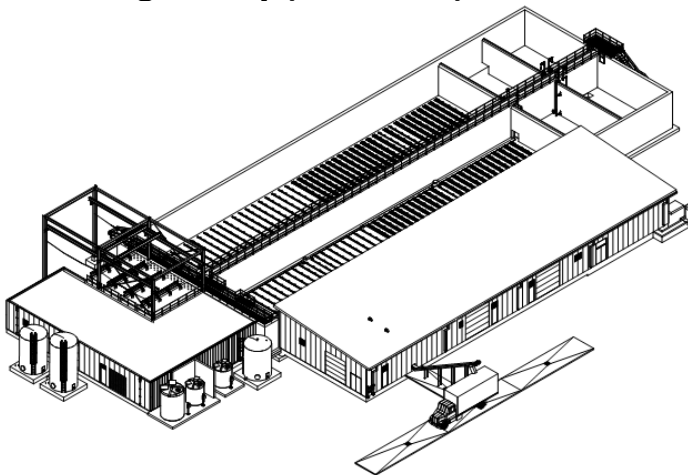


Draft Guiding Principles for Applicants

The City is exploring strategic locations for City-owned onsite treatment facilities (OSTF). These guiding principles apply to private OSTFs:

- Existing customers should not have to pay or subsidize the capital cost or operations of the OSTF.
- Wastewater cannot be taken from existing sewers if such removal impairs the operation of LASAN's system, impairs the City's recycled water program, or was not generated by the entity that wishes to remove said wastewater.
- City will not be responsible for the operation or maintenance of privately owned OSTFs.
- Owners/Operators of OSTFs will be required to indemnify City.
- Owners/Operators of OSTFs will be subject to fees that will be paid to City.
- OSTFs will not be allowed where purple pipe is available.

Potato processing facility (industrial)



Golf course facility (irrigation)



Draft Overarching Guiding Principles

- **Protection of public health shall be first and foremost.** A failure plan must be submitted that demonstrates 100% of flows can be disposed in event of a system failure.
- OSTFs should be solutions for the **greater good of all City customers** and consider **long-term feasibility**.
- **Education and outreach** are needed for OSTFs. New OSTFs should communicate with neighbors and provide information regarding potential uses of water treated onsite, which may include irrigation, and industrial applications.
- An entity should have an **operations and maintenance plan**. The design, operation, and maintenance are performed by qualified individuals, and monitored by the City.
- **City will evaluate impacts of proposed OSTFs and will specify requirements.** LASAN may limit materials that can be returned to the existing sewer, or may assess additional fees.
- **City will evaluate any impacts to water quality** where it pertains to groundwater and/or drinking water.

Overview Onsite Treatment & Graywater

- **Onsite Treatment**

- Comes in many different options (size, public, private, end-use)
- Needed to understand financial and system-wide impacts
- Needed to understand how other public agencies are handling

- **Graywater**

- Mostly focused on residential applications
- City has researched this topic extensively
- Simple single household laundry-to-landscape are allowed under the CA Plumbing Code without a permit

Conclusion:

- Direct policy or guiding principles will not be established at this time. Graywater will be considered as part of the City's overall water supply and recycled water strategy.

Discussion



Next Steps



Next Steps

- **Report Out on remaining Special Topic Groups**
 - Funding & Cost Benefit Analysis
 - Outreach & Communication
 - Stormwater & Urban Runoff Management
- **Pursue several Case Studies with Interdepartmental/Interagency collaboration**
- **Obtain input at future workshop on criteria and ranking of One Water LA alternatives being considered**

INNOVATION + INTEGRATION + INCLUSION

= A SUSTAINABLE & RESILIENT CITY

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