



# United Contractors Public Works Summit

Metropolitan Water District  
Pure Water Southern California

Bruce Chalmers – PWSC Program Manager

March 20, 2023



# Agenda

1. Construction Contracts
2. Collaborative Delivery Projects
3. Project Labor Agreement
4. Pure Water Southern California

1.

# Construction Contracts

# METWORKS

Metropolitan Contracting Information Straight from the Source





# Recent Contracts



Spec No.	Name	Est. Cost Range/Low Bid	Low Bidder
1999	Foothill Feeder Control/Power Structure Seismic Upgrade	\$6M-\$8M \$6.17M	West Valley Investment Group
1878	Colorado River Aqueduct Structural Protective Slabs	\$6.6M - \$8.1M \$8.66	Granite Construction
M-3061	Jensen Admin. Building Entrance Glass Fiber Reinforced Concrete Panels Replacement	\$210K - \$260K \$282K	MMJ Contracting
1989A	Metropolitan Headquarters Building First Floor Video Suite Renovation	\$600K - \$730K \$638K	Arco Constructors
2048	Furnishing Butterfly Valves for the Foothill Pump Station Intertie	\$2.9M - \$3.4M	3/15/23

# Current Advertisements

Spec Number	Name	Cost Range
2053	Julian Hinds Pumping Plant Village Paving	\$170,000 - \$210,000
2042	Colorado River Aqueduct Conveyance System Solar Level Sensors Installation	\$3.5M - \$4.4M
2000A	Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings	\$10M - \$12M



# Current Solicitations & Contracts



## Location:

Riverside and San Bernardino  
Counties, CA

## Specifications No. 2042:

Colorado River Aqueduct Conveyance System Solar Level Sensor Installation

Not covered by PLA

## Cost Range:

\$3.5M - \$4.4M

## Estimated Advertise Date

February 2023

## Description:

The work consists of furnishing and installing equipment buildings, communications, solar, and electrical equipment; level transducers.

## Work

## Activities:

- Electrical
- Equipment furnishing and installation



# Current Solicitations & Contracts



## Specifications No. 2000A:

Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings

PLA-covered project

## Cost Range:

\$10M - \$12M

## Estimated Advertise Date

February 2023

## Description:

The work consists of furnishing and construction of six prefabricated buildings, two at each pumping plant.

## Work

## Activities:

- Demolition
- Earthwork
- Concrete
- Structural Steel
- Paving
- Fencing
- Electrical
- Fire Water

**Location:** San Bernardino and  
Riverside Counties CA



# Upcoming Contracts

Spec Number	Name	Cost Range
2052	Eagle Mountain Pumping Plant Village Paving	\$170K - \$240K
2049	Inland Feeder-Foothill Pump Station Intertie	\$14M-\$16M
M-3058	Joseph Jensen Plant Fiber Optic Cable Installation	\$150K
2040	Badlands Tunnel Surge Tank	\$17M - \$19M
M-3064	Metropolitan Headquarters Courtyard Improvements	\$140K - \$160K
1897	Furnishing High Voltage Power Transformers	\$35M - \$40M
2006	Right of Way Infrastructure Protection Program – San Bernardino County Pipelines – West – Stage 2	\$1.5M - \$1.7M
2007	Headquarters Fire Sprinkler Level P1 Replacement	\$1.2M - \$1.5M
2056	Furnishing One Brushless Exciter for Gene Pumping Plant	\$350,000 - \$400,000



# Upcoming Solicitations & Contracts



## Specifications No. 2052:

Eagle Mountain Pumping Plant Village Paving

Not covered by PLA

## Cost Estimate:

\$170,000 - \$240,000

## Estimated Advertise Date

March 2023

## Description:

The project consists of replacing approximately 30,090 square feet area of existing asphalt concrete pavement.

## Work

- Demolition

## Activities:

- Paving

**Location:** Desert Center, CA



# Upcoming Solicitations & Contracts



## Specifications No. 2049:

Inland Feeder Foothill Pump Station Intertie

PLA-covered project

**Cost Estimate:**

**Estimated Advertise Date**

April 2023

## Description:

The project consists of furnishing and installing approximately 1,250 feet of 54-inch pipe, four surge tanks, two valve vaults, one air compressor structure, and installing three Metropolitan-furnished butterfly valves.

## Work

### Activities:

- Earthwork for excavation and backfill
- Concrete
- Reinforcing Steel
- Welding
- Electrical
- Instrumentation and controls for piping and valve testing



**Location:** Highland, CA

# Upcoming Solicitations & Contracts



## Specifications No. M-3058:

Joseph Jensen Plant Fiber Optic Cable Installation

Not covered by PLA

## Cost Estimate:

\$150,000

## Estimated Advertise Date

March 2023

## Description:

The work consists of testing and installing 2,000 feet of new fiber optic cable that will be routed in existing ductbanks, manholes, and raceways.

## Work

## Activities:

- Fiber optic installation and testing

**Location:** Granada Hills, CA



# Upcoming Solicitations & Contracts



## Specifications No. 2040: Badlands Tunnel Surge Tank

PLA-covered project

**Cost Estimate:**  
\$17M - \$19M

**Estimated Advertise Date**  
April 2023

### Description:

Construct a surge tank facility near the south portal of the Badlands Tunnel located on the Inland Feeder south of the 60 Freeway in Moreno Valley.

- Work Activities:**
- Pipeline
  - Excavation and Grading
  - Welding
  - SCADA

**Location:** Riverside County, CA

# Upcoming Solicitations & Contracts



## Specifications No. M3064:

Metropolitan Headquarters Courtyard Improvements

Not covered by PLA

## Cost Estimate:

\$140,000 - \$160,000

## Estimated Advertise Date

March 2023

## Description:

The project consists of removing and replacing the existing grout and caulking in between the slate and concrete pavers in the courtyard and walkway bollards, replacing damaged decorative stone; and replacing damaged grout.

## Work

- Tiles and caulking repairs

## Activities:

**Location:** Los Angeles, CA

# Upcoming Solicitations & Contracts



**Specifications No. 1897:**  
Furnishing High Voltage Power Transformers

Not covered by PLA

**Cost Range:**  
\$35M - \$40M

**Estimated Advertise Date**  
April 2023



**Description:**

The work consists of furnishing 35 high-voltage power transformers, all appurtenances, and manufacturer's field services. **Only those prequalified under RFQ No. 1240A will be permitted to submit a bid.**

**Work Activities:**

- Furnish transformers and provide manufacturer field services during installation by others.

**Location:** San Bernardino and Riverside Counties CA



# Upcoming Solicitations & Contracts



## Specifications No. 2006:

Right of Way Infrastructure Protection Program– San Bernardino County  
Pipelines– West – Stage 2

Not covered by PLA

**Cost Range:**  
\$1.5M - \$1.7M

**Estimated Advertise Date**  
April 2023

## Description:

The work consists of access improvements, various drainage and erosion control improvements, and concrete work.

## Work

## Activities:

- Demolition
- Grading
- Concrete
- Reinforcing Steel
- Cellular Concrete
- Fencing
- Manholes
- Hydroseeding

**Location:** San Bernardino County CA

March 2023



**PUREWATER**  
SOUTHERN CALIFORNIA



Slide 16

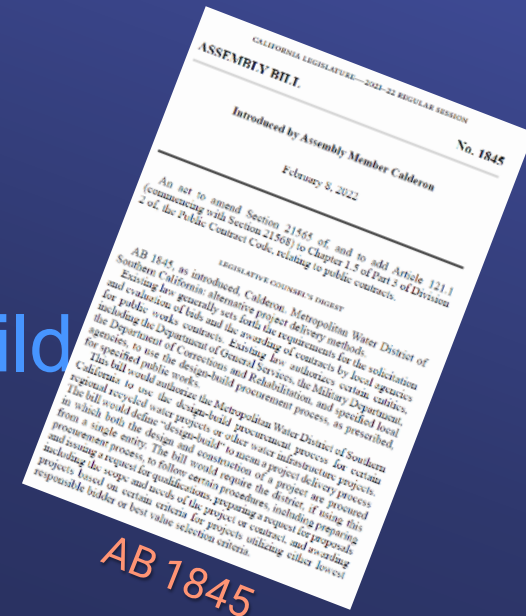
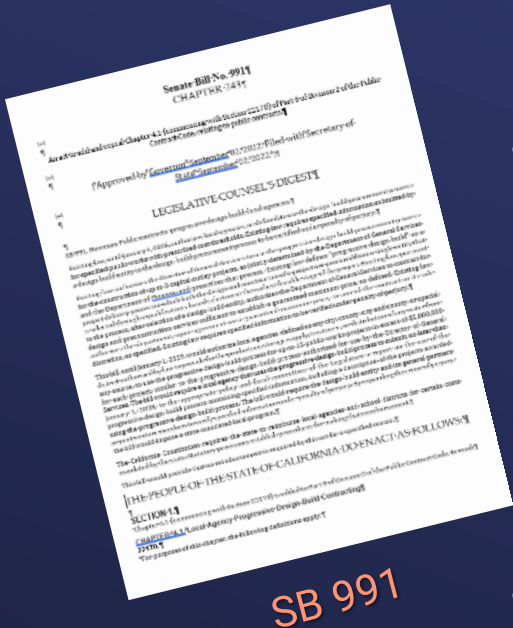


2.

# Collaborative Delivery Projects

# Background/History

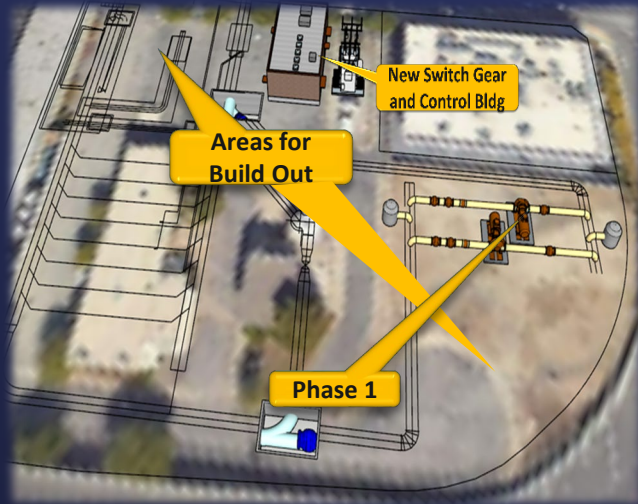
- Urgent drought response projects need faster delivery
- AB 1845 - 2022
  - Metropolitan use of Alternative Project Delivery Methods
  - Design Build, Progressive Design Build and CM/GC
- SB 991 – 2022
  - Local Water/Wastewater Agencies (PDB only)



# Collaborative Delivery Impacts

- Design/Construction Work Processes
- MWD role as Owner/Program Manager
- Contractor Selection
  - Qualifications, Best Value, Best Price
- Design and Construction Schedule
- Both bills require a PLA
- Both bills amend existing sections of the Public Contracting Code





# Venice Pump Station

- Phase 1
  - 30 CFS 1+1
  - 1200 HP each
  - ~ 3.5 MW Connected Load
- Build Out
  - Up to 300 CFS 2/3/4 +1
  - 4000 HP each
  - ~ 16 to 30 MW Connected Load





# Sepulveda Pump Station

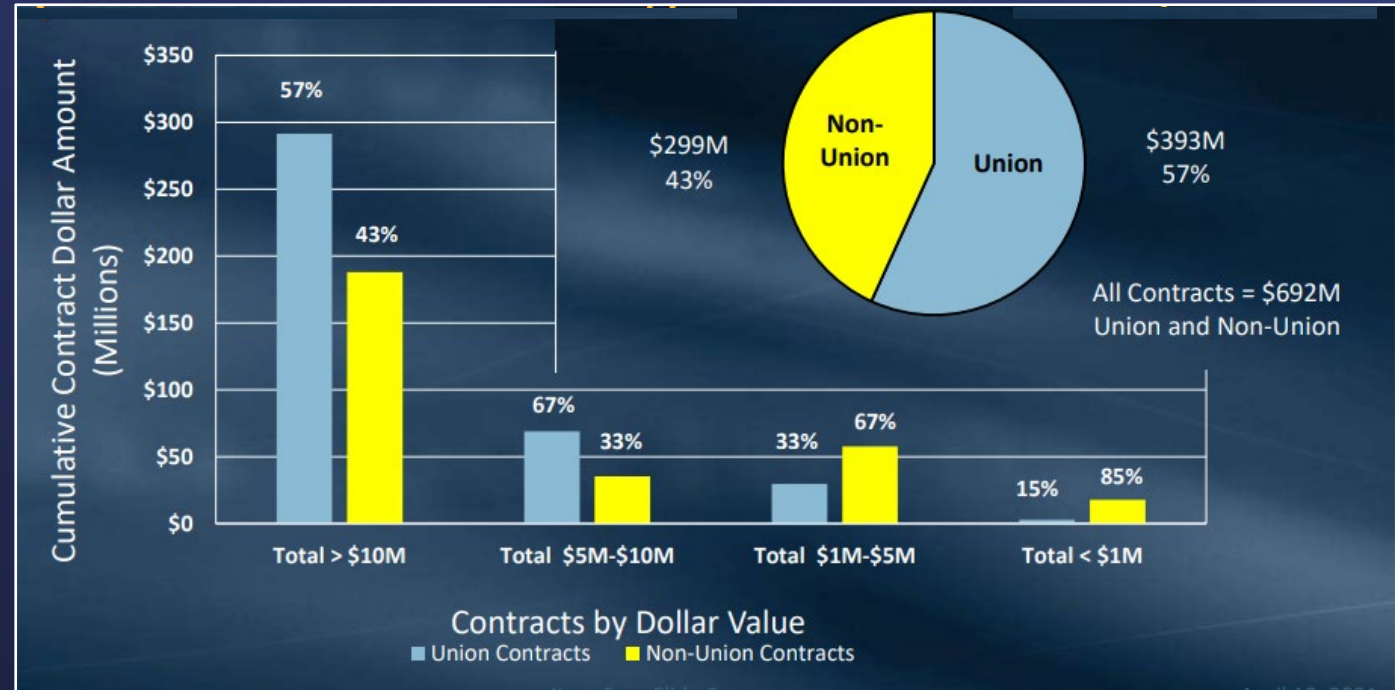
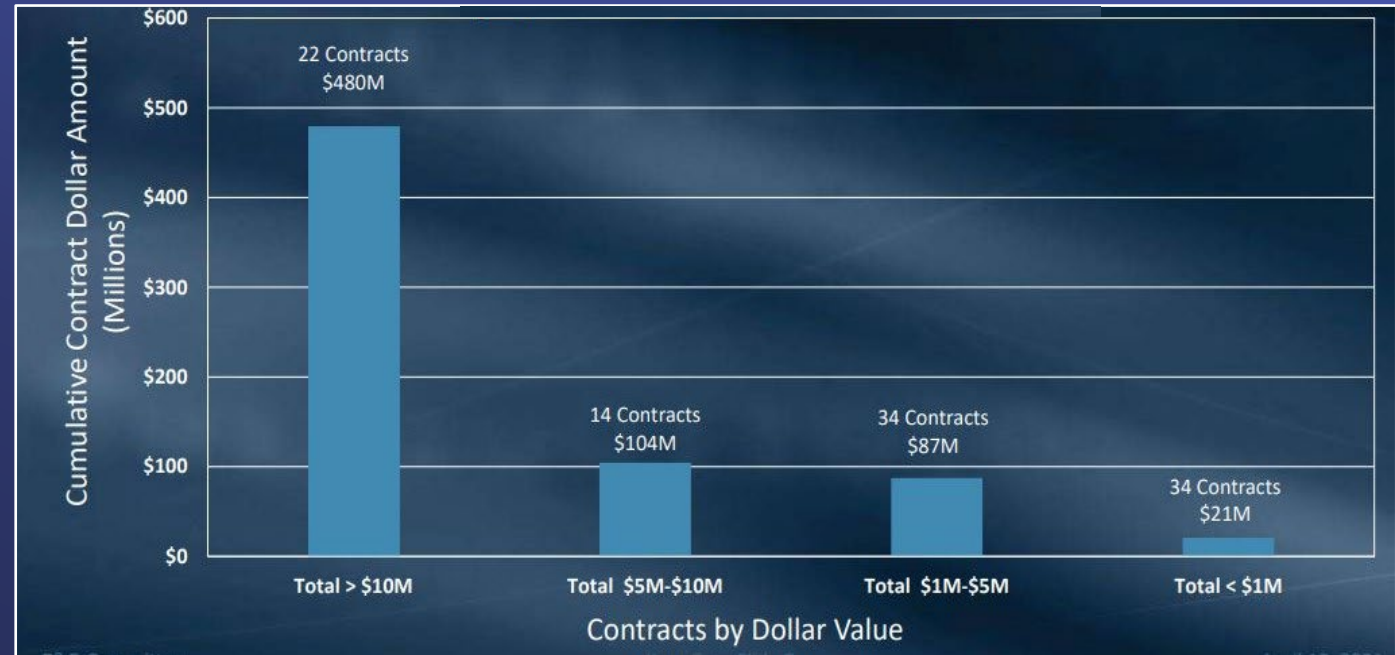
- RFQ 1340 (to be posted this week)
- Phase 1
  - 30 CFS 1+1
  - 2000 HP each
  - ~ 5.5 MW Connected Load
- Build Out
  - Up to 300 CFS 2/3/4 +1
  - 5500 HP each
  - ~ 22 to 40 MW Connected Load



3.

# Project Labor Agreement

# Project Labor Agreement Implementation



Project  
Labor  
Agreement  
Implementation

## Overview of PLA Attributes

- Collective bargaining agreement between unions & contractors
  - Labor harmony - no strikes/craft disputes
  - Diversity, equity - inclusion provisions
  - Union & non-union contractors required to use Union Contractors
  - Provides qualified and trained labor
  - Efficient contract dispute resolution



# PLA Terms – Covered Projects

- Specific list of 33 projects
  - Five-year projection of projects
  - Equates to more than 90% of CIP
- Includes Pure Water Southern California
- Ability to add projects in the future
  - Board & labor council approval
- Five-year on initial PLA

Project  
Labor  
Agreement  
Implementation

4.

# Pure Water Southern California

# Agency Sponsors

## Metropolitan Water District of Southern California



## Los Angeles County Sanitation Districts







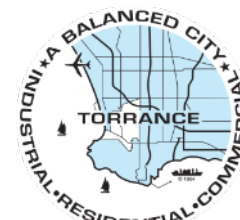
THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Program Partners



LOS ANGELES COUNTY  
SANITATION DISTRICTS  
*Converting Waste Into Resources*

## Metropolitan Member Agencies



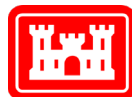
## Groundwater Basin Managers



## Colorado River Partners



## Other Key Partners



US Army Corps  
of Engineers®

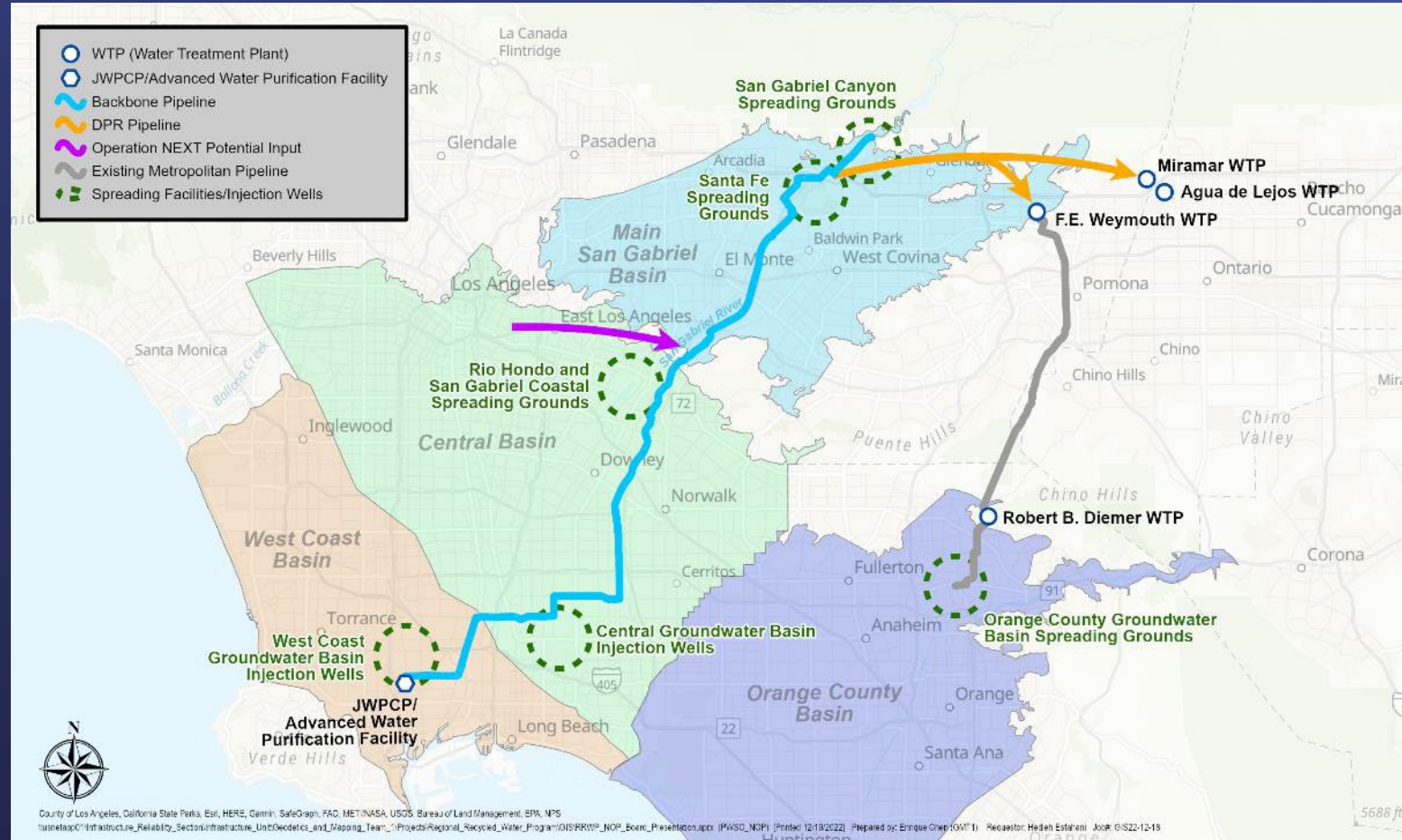


Energy for What's Ahead™



# Program Overview

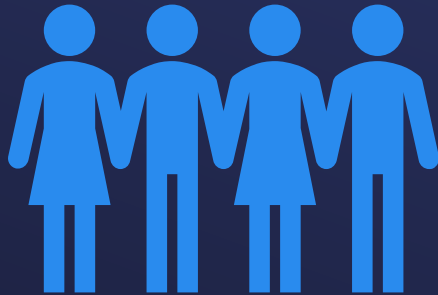
- Modifications to Joint Water Pollution Control Plant
- Advanced Water Purification facility
- Conveyance pipelines
- Spreading facilities
- Injection wells



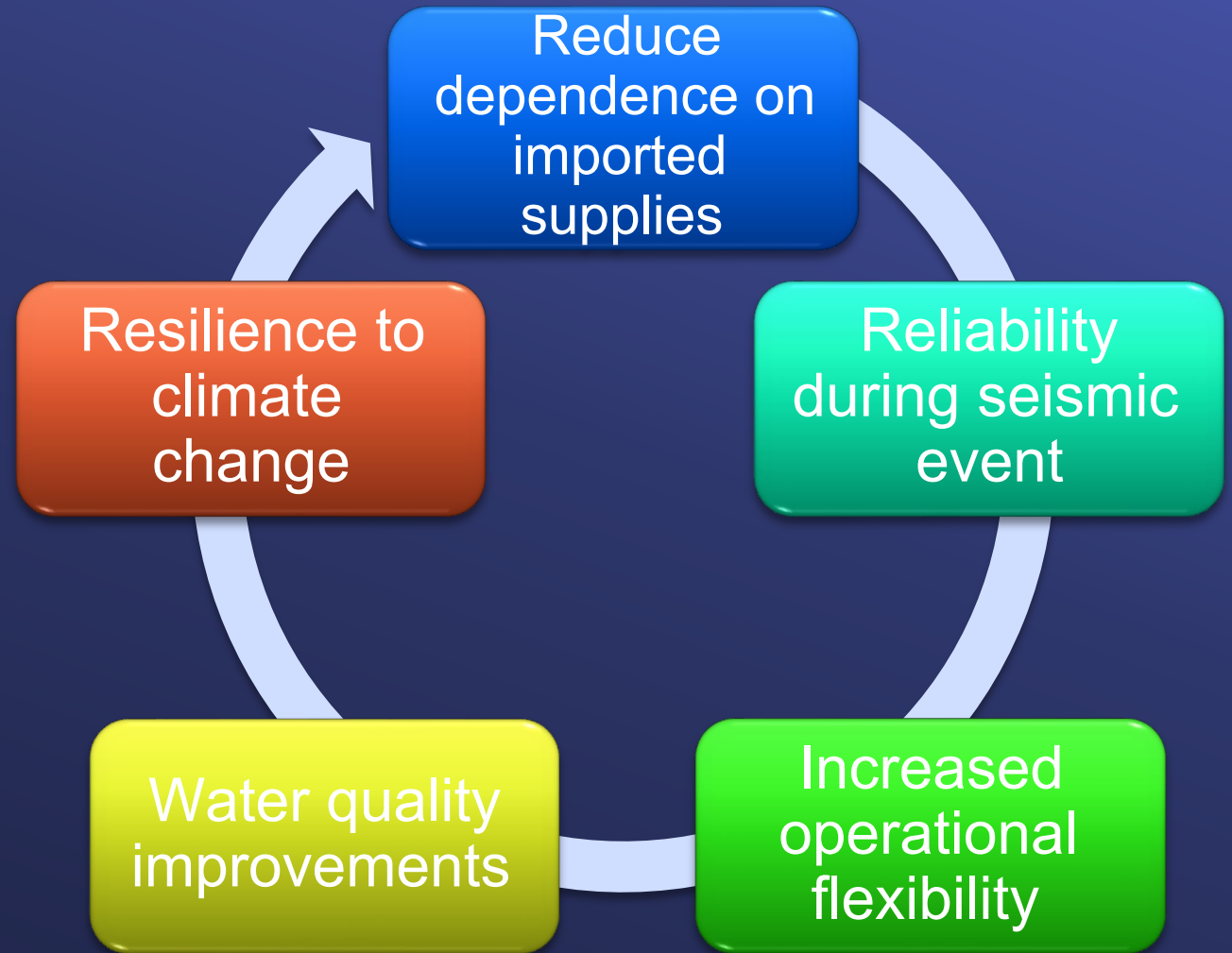
# Program Benefits



Produces Up to 150  
million gallons per day



Enough water for about  
1.5 million people





Joint Water Pollution Control Plant



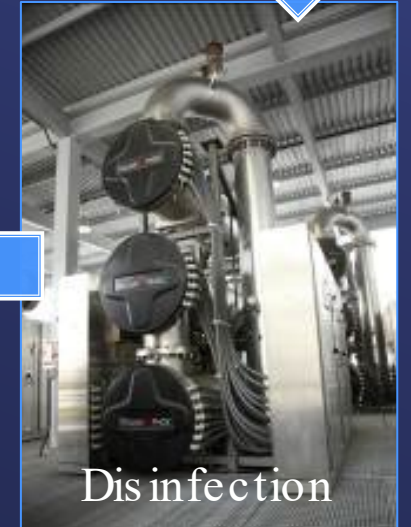
MBR



Reverse Osmosis



Disinfection



Conveyance Pipelines

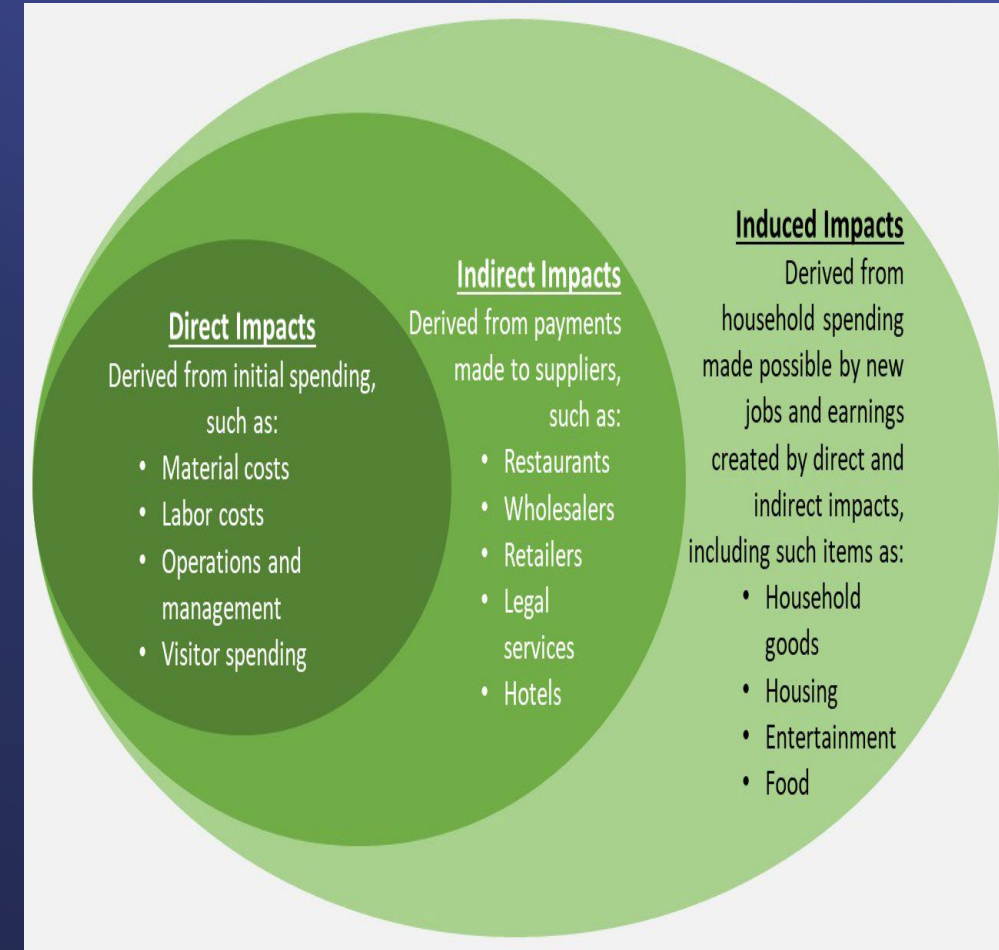


Recharge Facilities



# Economic Output from Program

- Los Angeles Economic Development Council job creation report
- \$8.7B total economic output created
- 47,000 development related jobs
- 24,100 construction jobs in So. Calif.
- \$400M+ State and Local taxes generated
- Ongoing economic activity in So. California
- \$300M+ annual economic output
- Over 1,000 total jobs supported



LAEDC Institute for Applied Economics



# Potential Contracts

- Metropolitan, LACSD, Member Agencies, other agencies
- Conventional DBB & Collaborative delivery methods
- Other Metropolitan consulting (public outreach, CEQA, etc.)
- All projects under PLA
- Training opportunities
- Design and Construction
  - Advanced Water Treatment Plant/JWPCP/substation
  - Pipelines/tunneling/recharge
  - Pump Stations
  - Satellite treatment



## Types of Program Needs

- Consultants & contractors
- Civil/sitework, landscaping/hardscape, security
- Piping/pumps/appurtenances
- Process systems (membranes, UV, chemicals, air, mixing, storage, etc.)
- Buildings (admin, warehouse, lab, process, plumbing, furnishings, etc.)
- Disciplines: electrical, instrumentation/SCADA, HVAC, lighting, property acquisition
- Painting, coatings/linings
- Community/business outreach
- Education/training
- Operators, maintenance, technicians

# Early Delivery/Start Project Opportunities

Early Delivery Projects	Early Start (Pre-CEQA)
<ul style="list-style-type: none"> <li>• Designs for Early Delivery facilities               <ul style="list-style-type: none"> <li>❖ Up to 30 mgd AWT treatment and associated facilities</li> <li>❖ Up to 6.5 miles of pipeline through City of Carson</li> <li>❖ Early delivery connections to LACSD, LADWP, WBMWD, and/or WRD</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Program Management support</li> <li>• Preliminary Designs:               <ul style="list-style-type: none"> <li>❖ Santa Fe Area conveyance</li> <li>❖ Portions of tunneling for conveyance alignment</li> <li>❖ Portions of conveyance alignment as cities approve alignment</li> <li>❖ AWT Progressive DB</li> </ul> </li> </ul>

# Program Schedule

2021 – 2024

Environmental  
Planning

2023 – 2031

Design and  
Construction

2028

Potential Early  
Phase Startup

2032

Primary Startup  
and  
Operations

*Opportunities to accelerate this timeline*



# Online Project Information

- Board and Committee meetings
- Letters of Interest (LOIs)
- AWT Pilot Study (2012)
- Feasibility Study Report (2016)
- Conceptual Planning Study (2019)
- White Paper #1 (2019)
- White Paper #2 (2020)
- Backbone conveyance system (2020)
- Independent Scientific Advisory Reports
- Economic Impact Study (2021)



# PUREWATER

## SOUTHERN CALIFORNIA



**LOS ANGELES COUNTY  
SANITATION DISTRICTS**

*Converting Waste Into Resources*



# METWORKS

Metropolitan Contracting Information Straight from the Source

