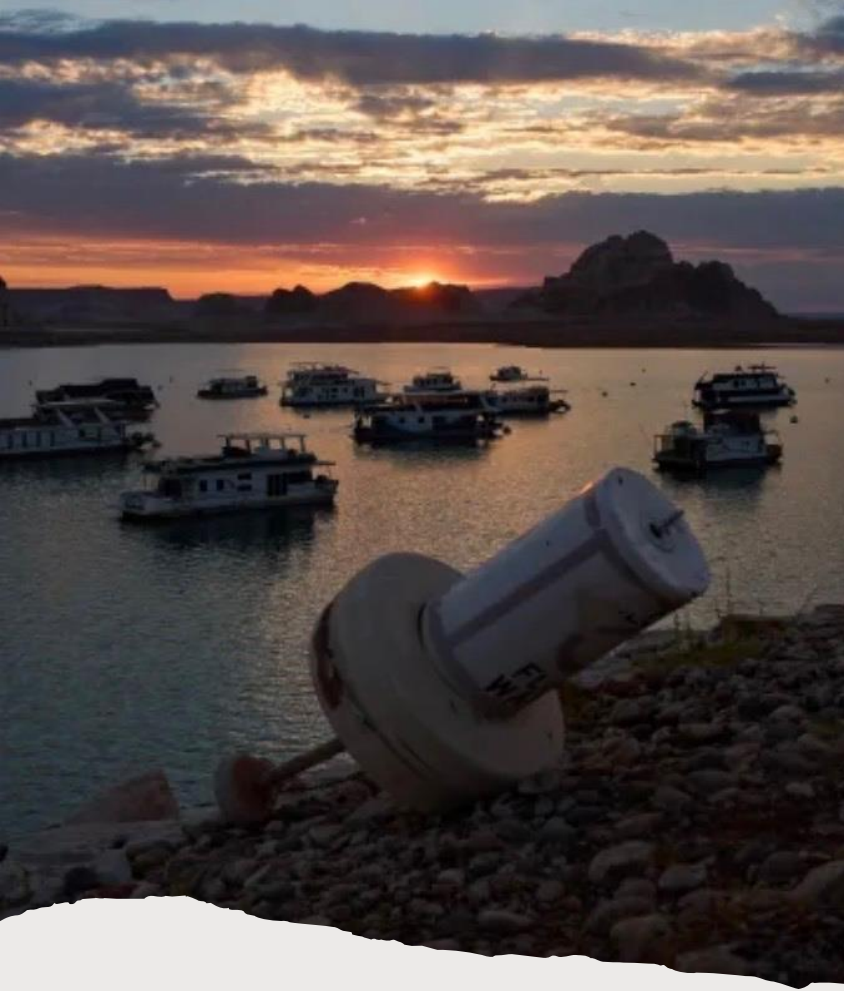




East County
**Advanced Water
Purification**



East County Advanced Water Purification Program



Water Supply Challenges

Program Components



PACKAGE 3

Retrofit and Expansion of IPS, East Mission Gorge Pump Station, 3.5-Mile Force Main, 3-Mile Residuals Bypass Pipeline, and 1.7 mgd Lift Station

PACKAGE 5

Energy Recovery System



PACKAGE 1

15 mgd WRF, 11.5 mgd AWP Facility, Solids Handling, Product Water Pump Station, Education Center



11.5
mgd

15
mgd

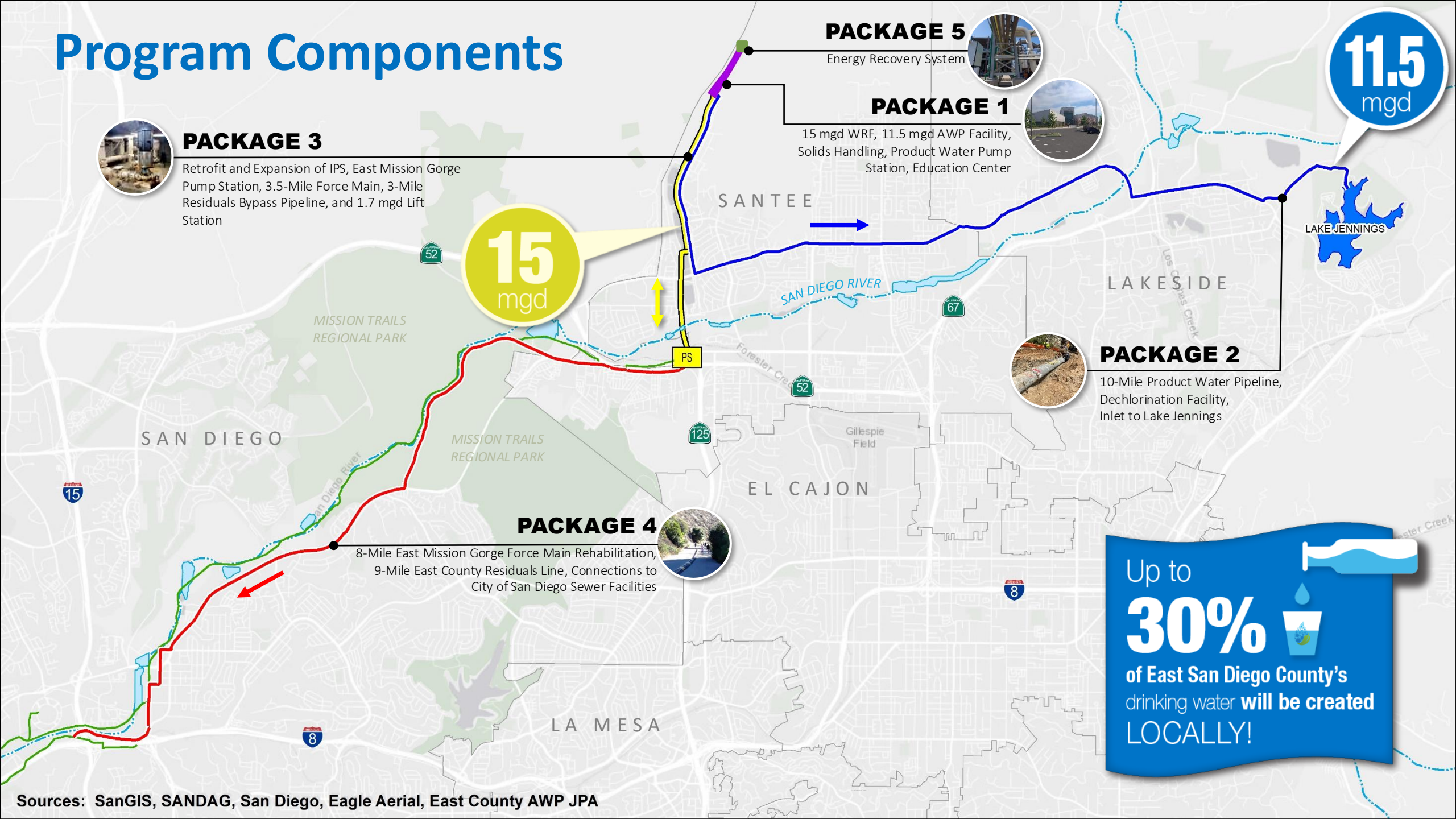
PACKAGE 2

10-Mile Product Water Pipeline, Dechlorination Facility, Inlet to Lake Jennings



PACKAGE 4

8-Mile East Mission Gorge Force Main Rehabilitation, 9-Mile East County Residuals Line, Connections to City of San Diego Sewer Facilities



Up to
30%
of East San Diego County's
drinking water will be created
LOCALLY!



OPERATIONS INTEGRATION

Padre Dam's operators have been involved in the project from **concept to construction** and will be **hands on** during startup, testing, and commissioning.

- 💧 Pilot Plant
- ✓ Regulatory Permitting
- ↔ SCADA
- 📐 Design
- 🏗️ Construction
- 🎓 Training & Certification



OPERATIONAL READINESS



AWP Demonstration Facility



Training



Partnering Opportunities with other Agencies



AWTO Certification



Participation in Staffing/Hiring



Ready for Commissioning



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

2375 Northside Drive, Suite 100, San Diego, CA 92108
(619) 516-1990 - Fax (619) 516-1994
<https://www.waterboards.ca.gov/sandiego/>

ORDER NO. R9-2025-0060

WASTE DISCHARGE REQUIREMENTS
FOR THE EAST COUNTY ADVANCED WATER PURIFICATION JOINT POWERS
AUTHORITY, EAST COUNTY WATER RECYCLING FACILITY,
SAN DIEGO COUNTY

The following Discharger is subject to waste discharge requirements (WDRs) set forth in this Order:

Table 1. Discharger Information

Discharger	Name of Facility	Facility Address
East County Advanced Water Purification (ECAWP) Joint Powers Authority (JPA)	East County Water Recycling Facility (ECWRF)	12001 North Fanita Parkway, Santee, CA 92071

Table 2. Discharge Location

Effluent Description	Hydrologic Unit (HU)	Hydrologic Area (HA)	Hydrologic Sub Areas (HSA)
Tertiary treated recycled water	San Diego Hydrologic Unit (907)	Lower San Diego Hydrologic Area (907.1)	Santee HSA (907.12) El Cajon HSA (907.13)

This Order was adopted on:

This Order shall become effective on:

November 12, 2025

June 1, 2026

I, David W. Gibson, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the San Diego Regional Water Board on November 12, 2025.

David W. Gibson

Digitally signed by David W. Gibson

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

2375 Northside Drive, Suite 100, San Diego, CA 92108
(619) 516-1990 - Fax (619) 516-1994
<https://www.waterboards.ca.gov/sandiego/>

ORDER NO. R9-2025-0003
NPDES NO. CA9000001

WASTE DISCHARGE REQUIREMENTS
FOR THE EAST COUNTY ADVANCED WATER PURIFICATION JOINT POWERS
AUTHORITY EAST COUNTY ADVANCED WATER PURIFICATION PROJECT
DISCHARGE TO LAKE JENNINGS AND SYCAMORE CREEK

The following Discharger is subject to waste discharge requirements (WDRs) set forth in this Order:

Table 1. Discharger Information

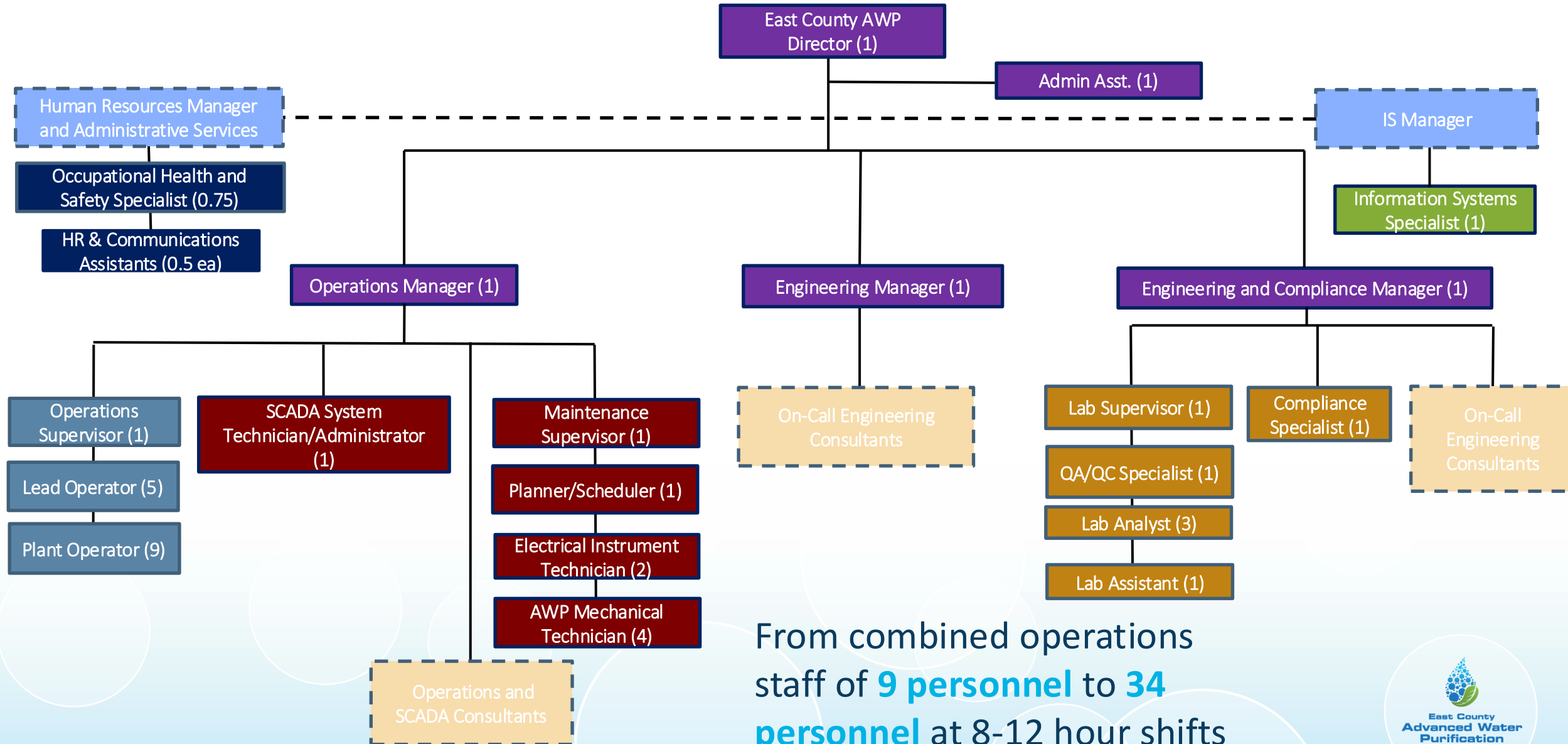
Discharger	Name of Facility	Facility Address
East County Advanced Water Purification Joint Powers Authority (ECAWP JPA, Discharger)	East County Advanced Water Purification Facility (ECAWP Facility)	12001 North Fanita Parkway, Santee, CA 92071
ECAWP JPA	East County Water Recycling Facility (ECWRF)	12001 North Fanita Parkway, Santee, CA 92071

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude (North)	Discharge Point Longitude (West)	Receiving Water
001	Advanced treated recycled water	32° 51' 53" N	116° 53' 16" W	Lake Jennings
002	Advanced treated recycled water, and off-specification advanced treated recycled water	32° 50' 50" N	117° 0' 24" W	Sycamore Creek

November 12, 2025
June 1, 2026
May 31, 2031

O&M STAFFING – COMBINED OPERATIONS



From combined operations
staff of **9 personnel** to **34
personnel** at 8-12 hour shifts

CERTIFICATION REQUIREMENTS



WWTP OPERATOR GRADE 3

One onsite at all times



WWTP OPERATOR GRADE 5

At least one on staff



AWT OPERATOR GRADE 3

One onsite at all times



AWT OPERATOR GRADE 5

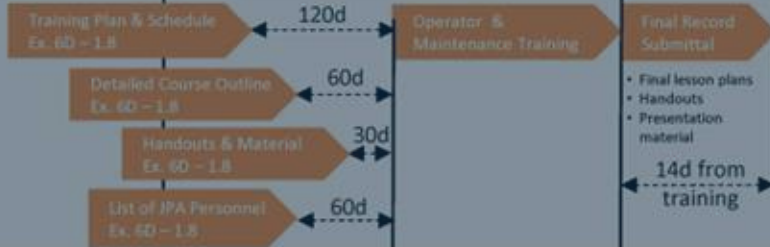
At least one on staff

Challenge of the industry:

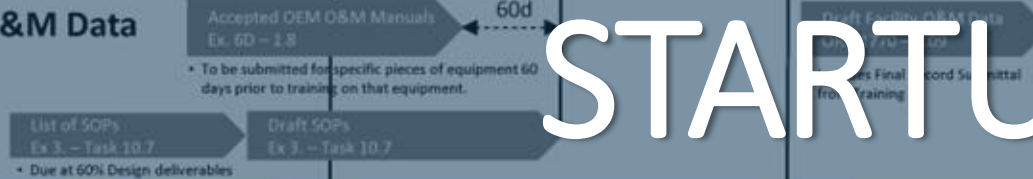
There are not many certified
AWT Operators... **yet.**



Training



O&M Data



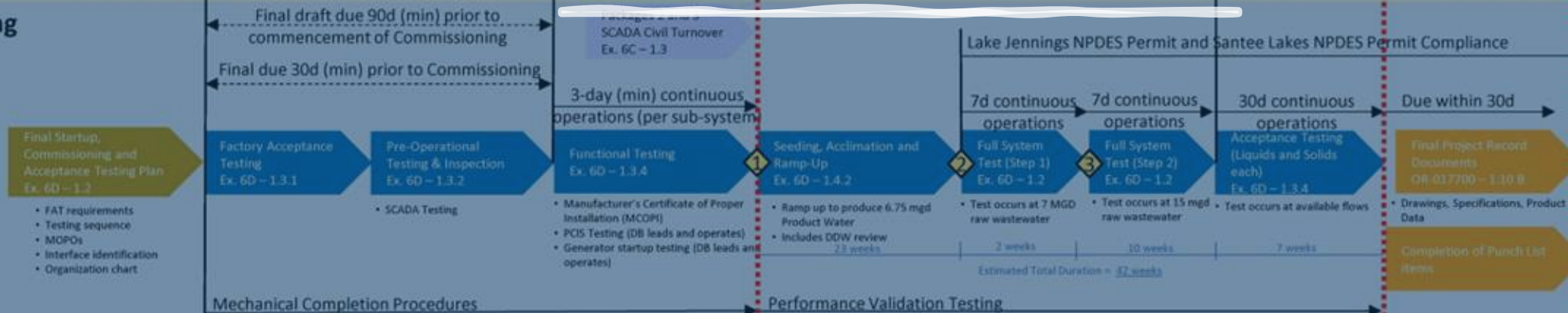
BIM



Spare Parts



Testing



Warranties



STARTUP, TRAINING, AND COMMISSIONING

- REQUIRED CONDITIONS**
- 1 Packages 3 and 4 Facilities are ready to provide raw wastewater and accept residuals, respectively
 - 2 DDW approval of Product Water
 - Package 2 ready to receive Product Water
 - Start of NPDES permit compliance
 - 3 Step 2 commences after 2-3 months of ramp up to 15 MGD raw wastewater

Community Outreach

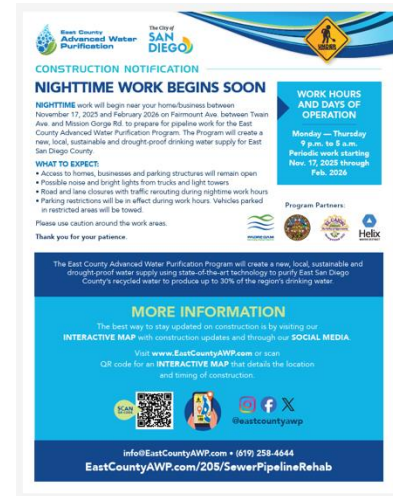


Bi-monthly newsletters

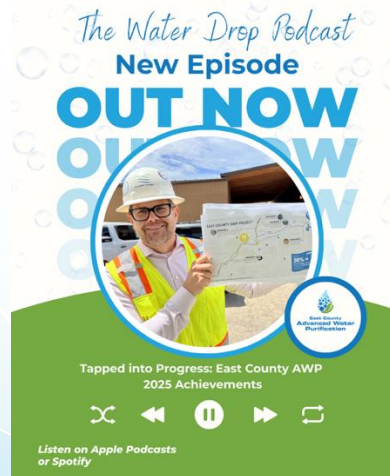
Community Events



Padre Dam's Open House



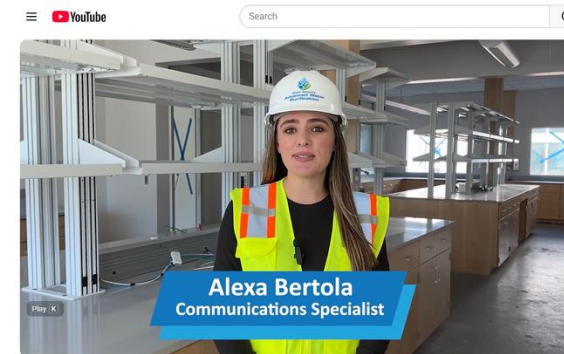
Construction Mailers



East County AWP Podcast Episode

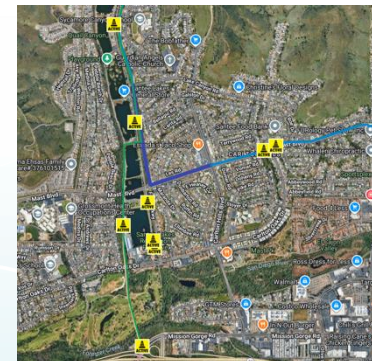


Previous Demo Facility



East County AWP Fall 2025 Construction Update

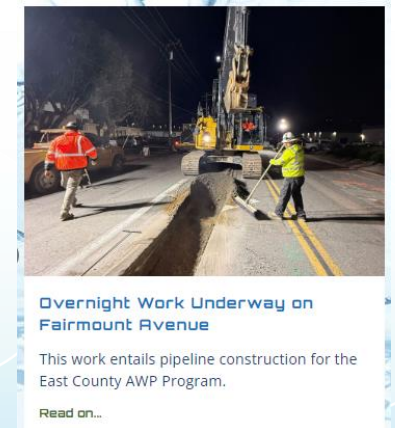
Construction Video Updates



Interactive Construction Map –
45,000+ Views



www.eastcountyawp.com



Weekly Website Articles



Questions?

