



Converting Waste Into Resources

Sustainability: Building on Past Efforts to Prepare for a Changing Future

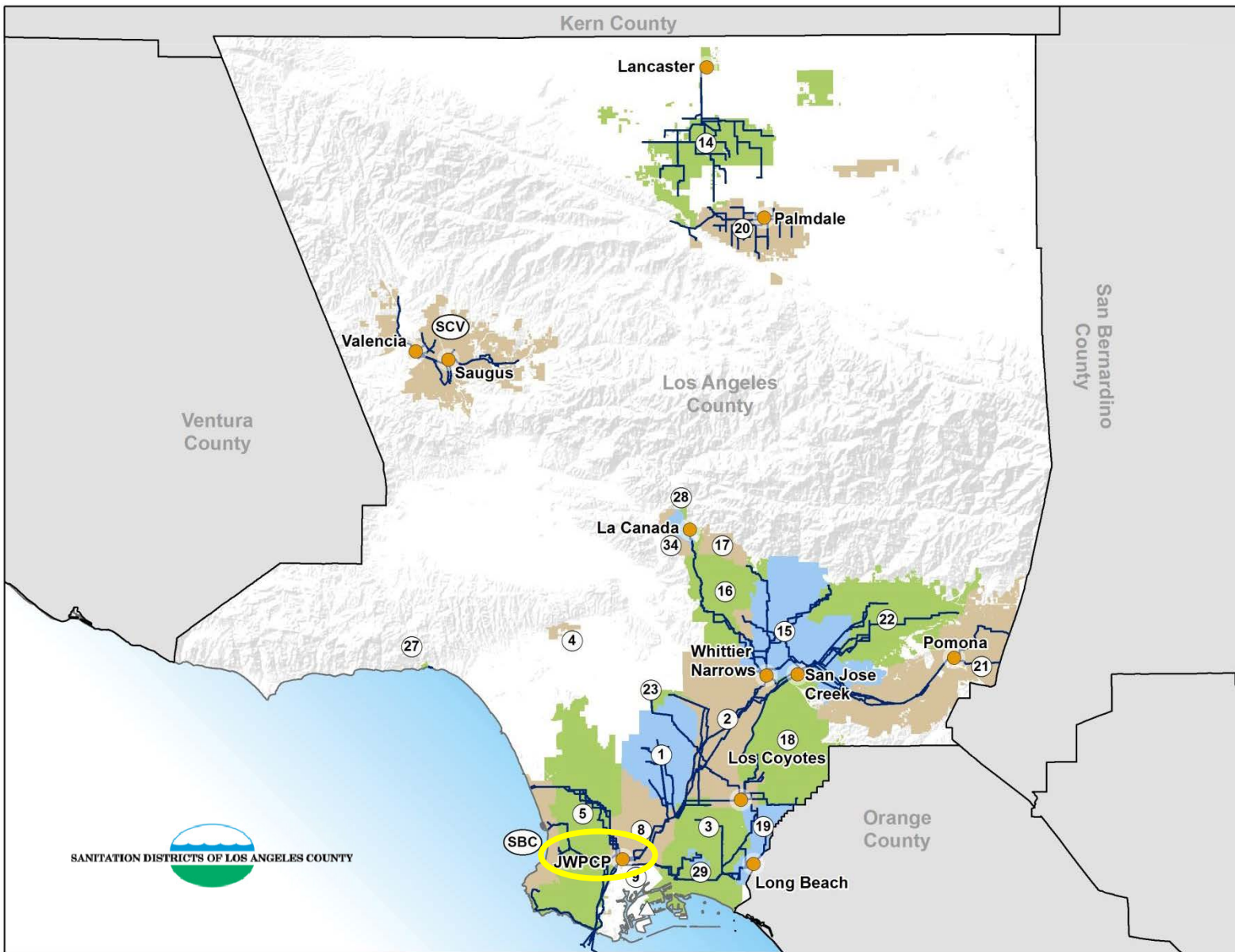
Grace Hyde
Chief Engineer and
General Manager

October 22, 2015





Districts' Wastewater Facilities





Key topics that will be covered today



Recycled water production



Biosolids production



Energy production



Recycled water production is key





Long history of reuse at the districts

REPORT UPON
THE RECLAMATION OF WATER
FROM SEWAGE AND INDUSTRIAL WASTES
IN LOS ANGELES COUNTY, CALIFORNIA

APRIL, 1949

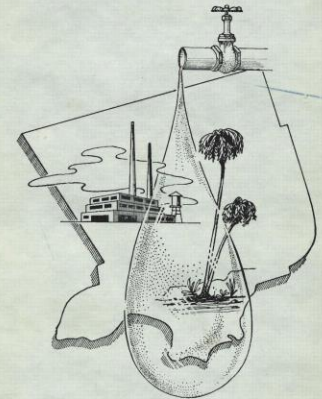
A Report Upon
THE POTENTIAL RECLAMATION
OF SEWAGE
Now Wasting To The Ocean
In Los Angeles County

H. E. HEDGER
CHIEF ENGINEER, COUNTY FLOOD CONTROL DISTRICT

A. M. RAWN
CHIEF ENGINEER AND GENERAL MANAGER,
COUNTY SANITATION DISTRICTS

NOVEMBER, 1958

A PLAN FOR WATER RE-USE



FOR THE DIRECTORS
OF THE COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, CALIFORNIA

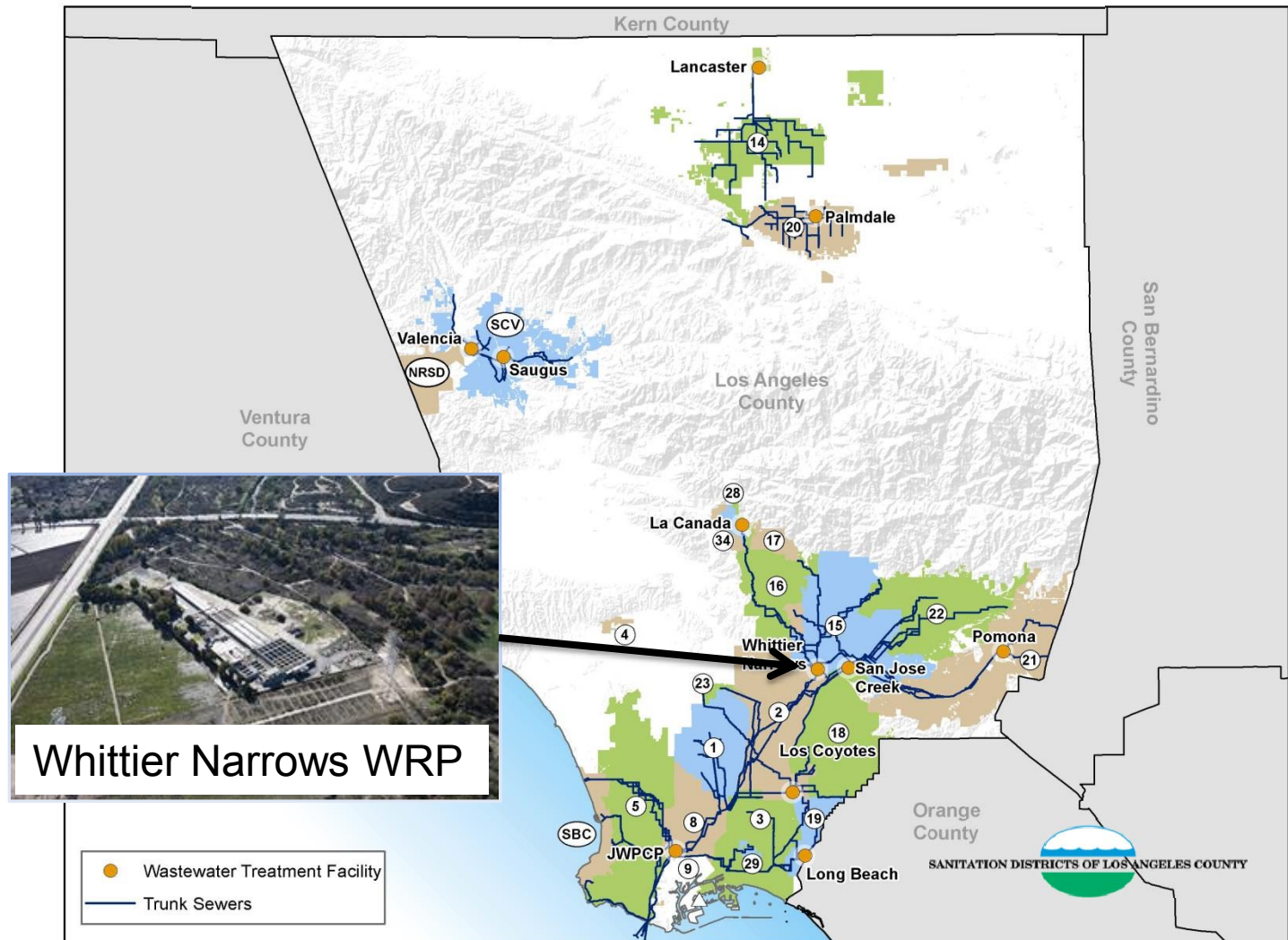
JOHN D. PARKHURST

CHIEF ENGINEER & GENERAL MANAGER

JULY 1963

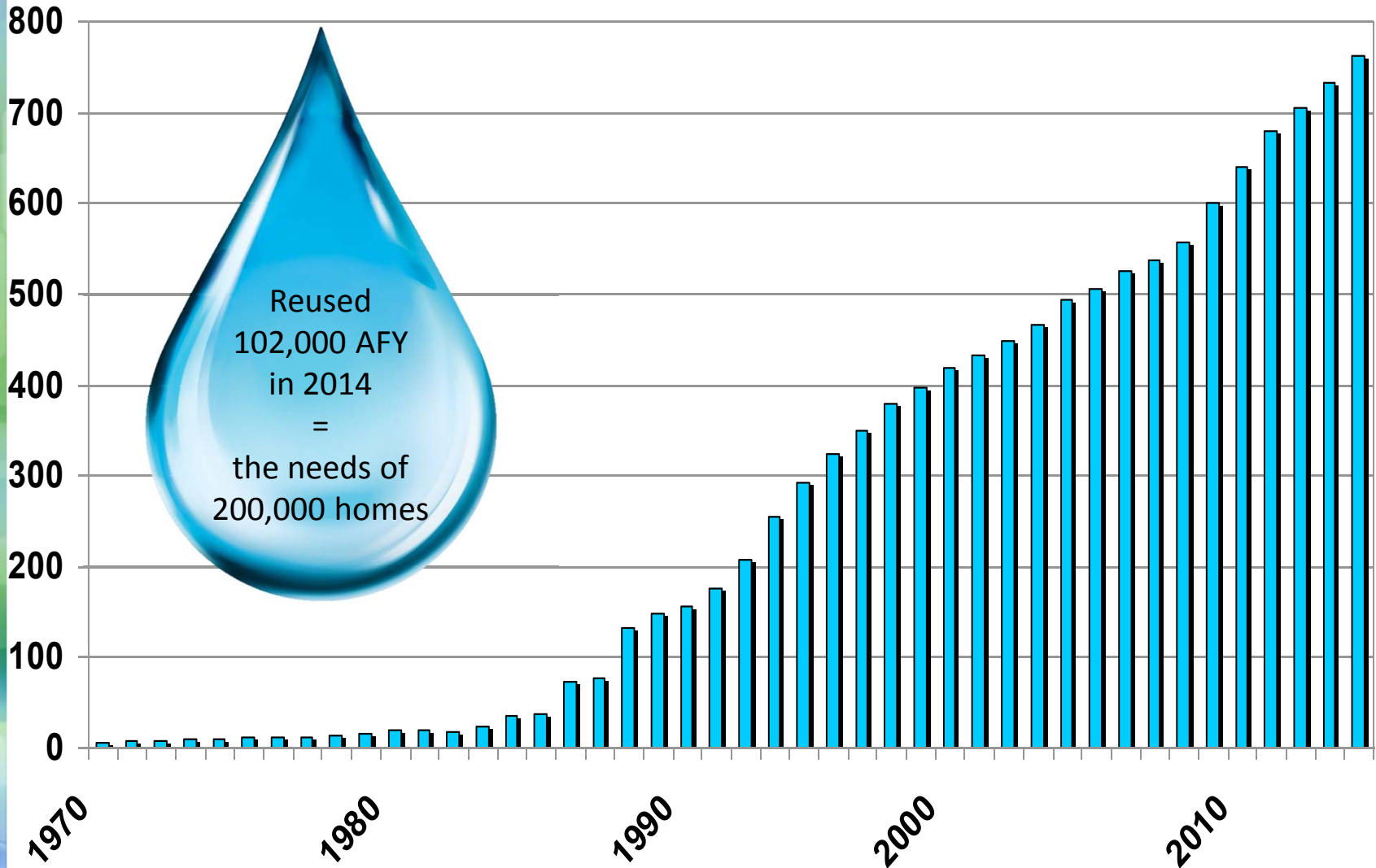


Wastewater system structured to maximize water reuse





Recycled water is used at over 770 sites





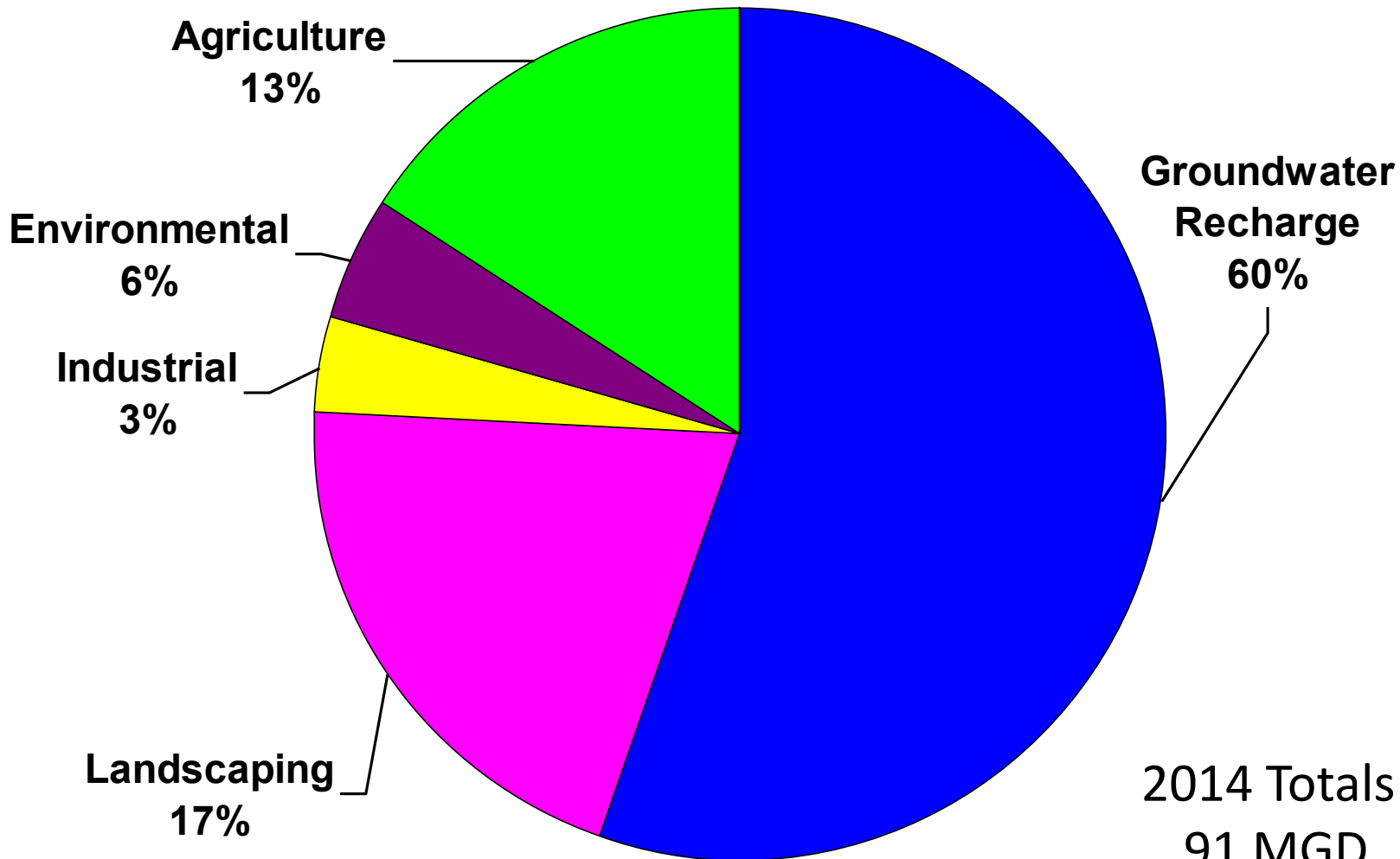
Wide range of nonpotable uses





LACSD Recycled Water Use Distribution

2014



2014 Totals:
91 MGD
102,000 AFY



Groundwater recharge is highest volume use



Montebello Forebay



LVL Water Treatment Facility



Proposed Regional Recycled Water Supply Program at JWPCP



Joint Water Pollution Control Plant





Several other groundwater recharge projects underway



GRIP



IRRP



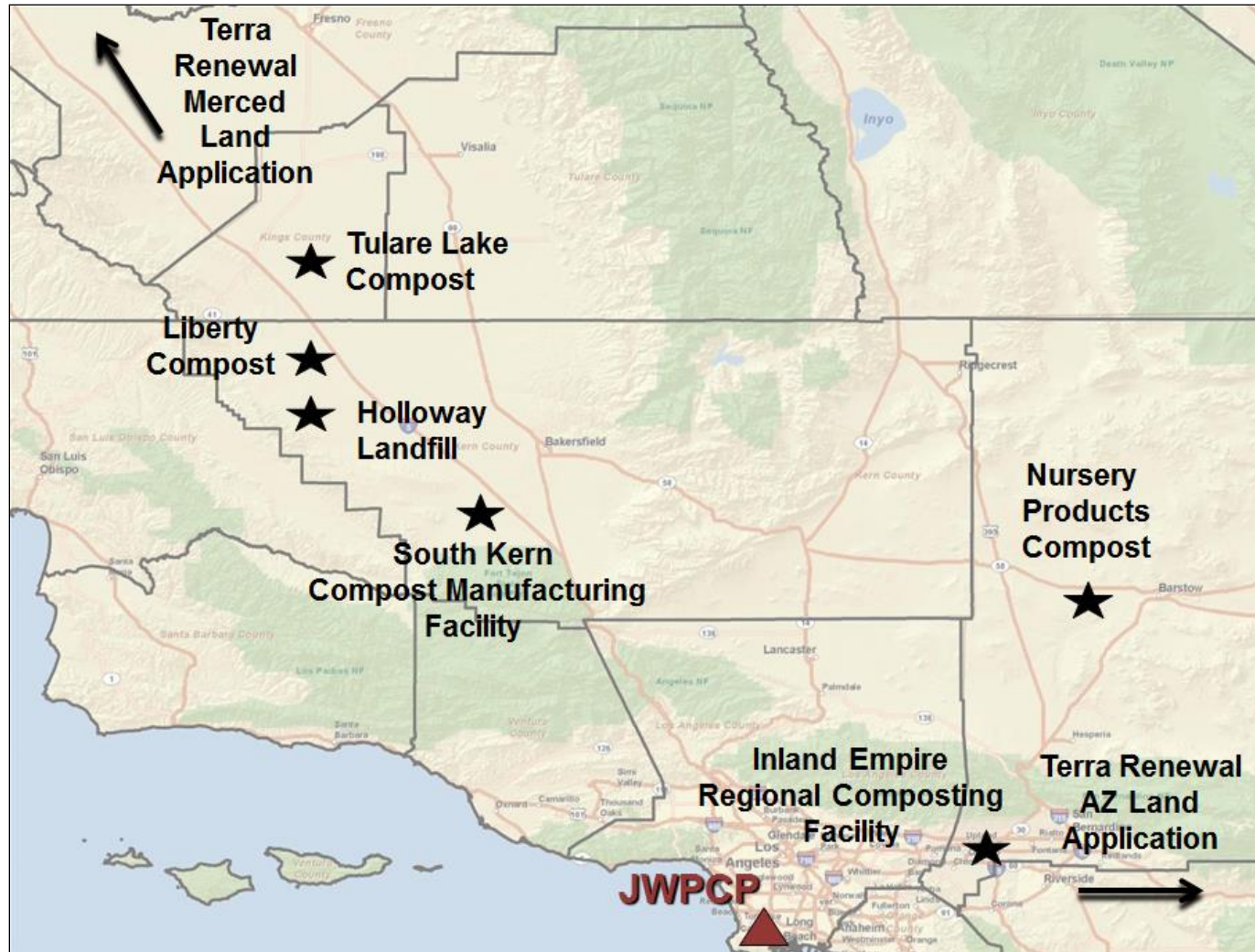
Long history of beneficial solids reuse



General View of Joint Disposal Plant from Northeast. December 7, 1928.



Maintain diverse, cost effective, environmentally sound options





Biosolids-based fertilizers provide many benefits



Soil health ↑



Irrigation needs ↓



Crop production ↑



Nutrient run-off from highly soluble chemical fertilizers ↓



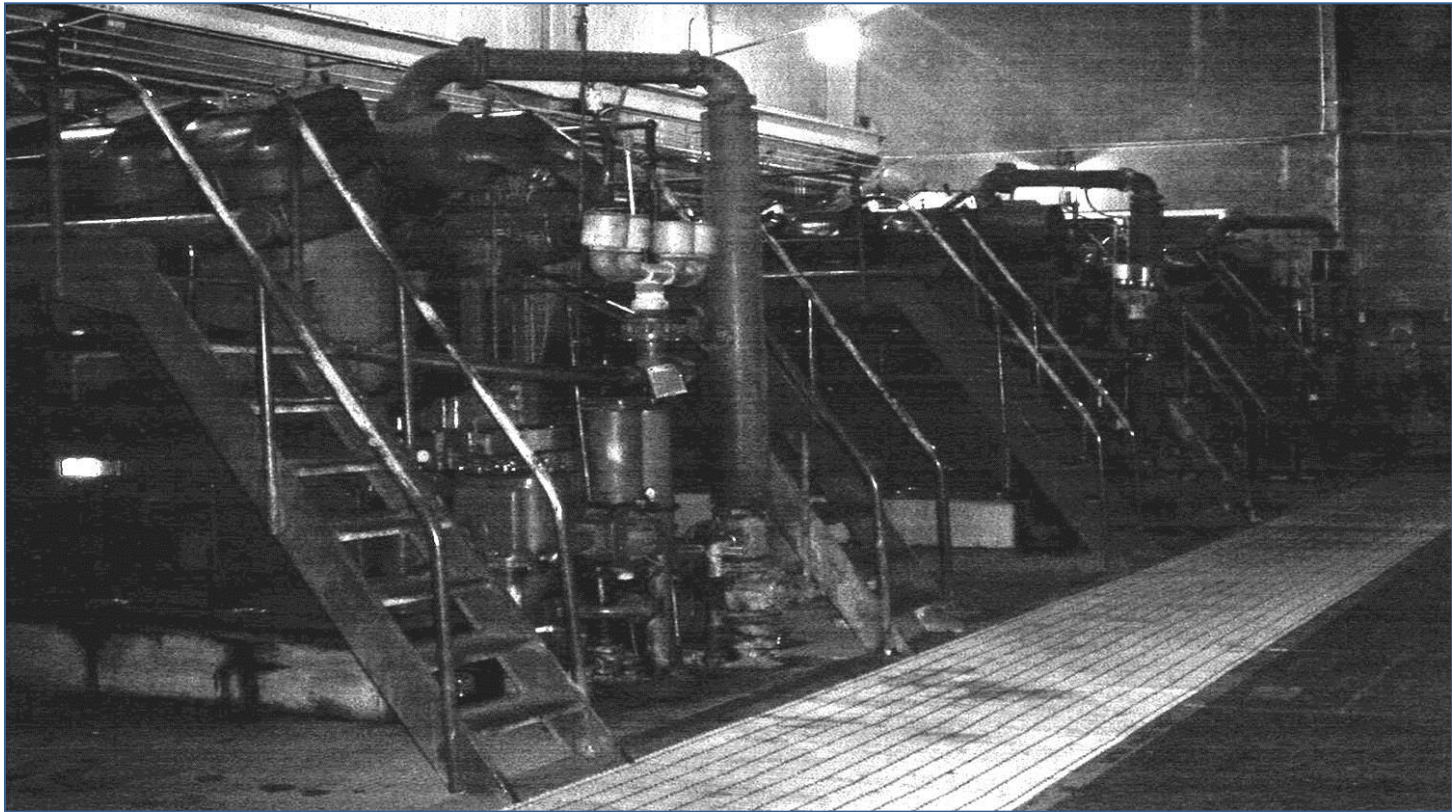
Carbon Sequestration ↑



Use of fossil fuels to produce chemical fertilizers ↓

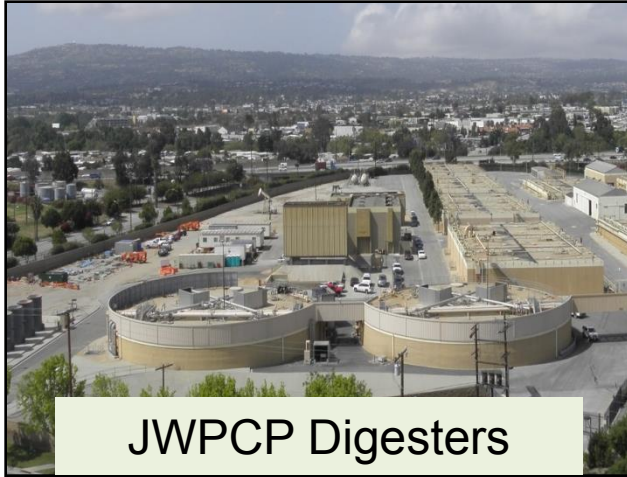


Long History of Renewable Energy Production





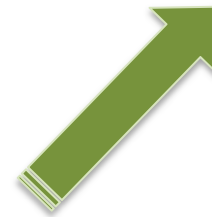
JWPCP remains energy self-sufficient



JWPCP Digesters



JWPCP



20 MW
Produced from
Digester Gas



Total Energy Facility





Sanitation Districts' focus going forward



Groundwater
recharge ↑



Reliable
outlets for
sustainable
beneficial use
of solids ↑



Renewable
energy
production ↑

Questions?