Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

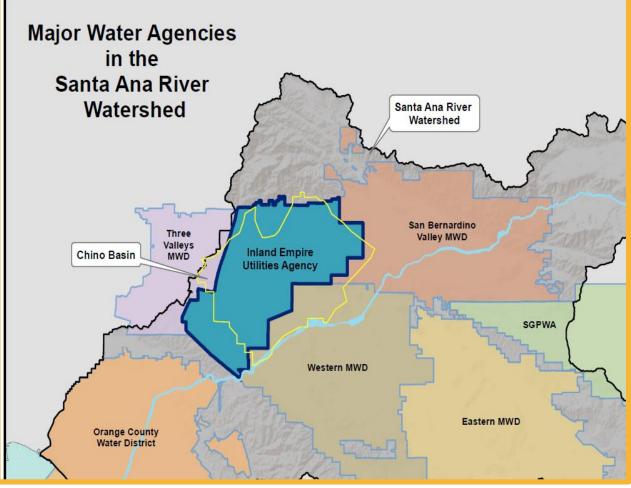
RP-5 Expansion Project Update: August 2021 Project Nos. EN19001 and EN19006

Brian Wilson, P.E. Senior Engineer August 2021 .

About IEUA: Location

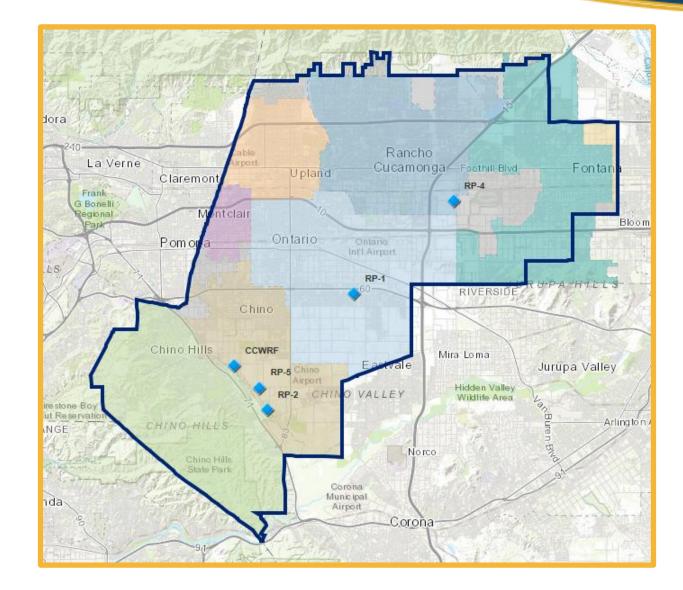


- County: San Bernardino
- Service area: 242 square miles
- Residents: 875,000 residents



About IEUA: Cities Served

- Chino
- Chino Hills
- Fontana
- Montclair
- Ontario
- Rancho Cucamonga
- Upland

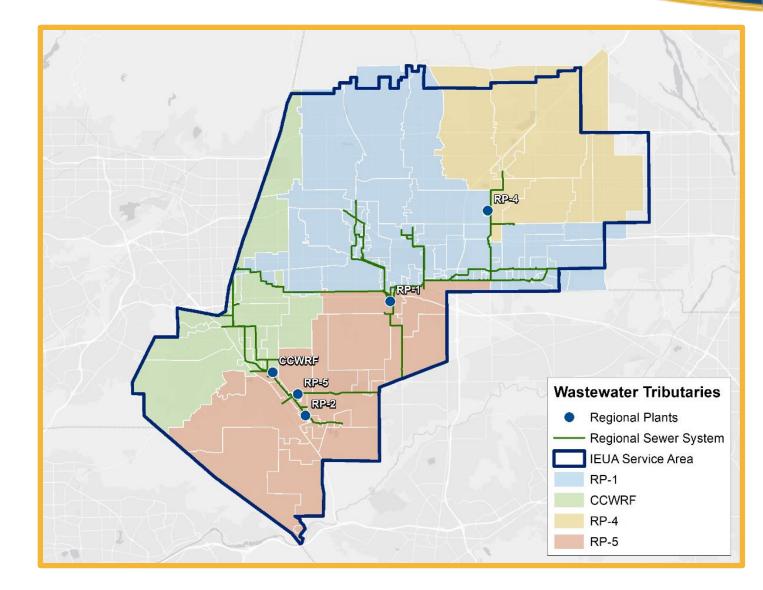


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About IEUA: Facilities

- Regional Plant 1 (RP-1)
- Regional Plant 2 (RP-2)
- Regional Plant 4 (RP-4)
- Regional Plant 5 (RP-5)
- Carbon Canyon Recycling
 Water Facility



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RP-5 Expansion Project

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RP-5 Facility

Liquid Expansion

Biosolids

Facility





5

RP-5: Liquids Expansion

- Support Growth (flow and concentration)
 - Flow Treatment Capacity Increase from 15 to 22.5 MGD
 - Concentration Capacity Increase

Major work

- Influent pump station expansion
- Headworks improvements
- Fine screen facility
- Two new primary clarifiers
- Existing aeration basin improvements
- New Membrane Bioreactor (MBR) system



New MBR Basin Model

RP-5: Biosolids Facility



- Replace RP-2 (Prado Dam Floodplain)
- Support Growth

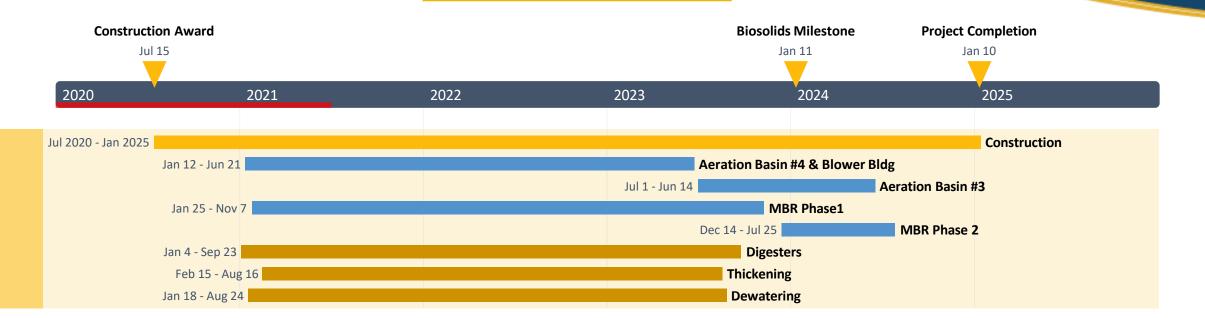
• Major work

- Food waste receiving
- Sludge thickening building
- Digester facilities (Acid and Gas)
- Dewatering building
- Boiler building
- Digester gas treatment and flaring
- REEP Energy Improvements



RP-5: Project Status July 2021

Day 381 of 1640 = 23.2%



Contractor	Contract	Total Paid	% Complete
WM Lyles	\$330M	\$59M	18%

Data date: 7/31/2021

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Model flyover



July 2021 Fly over



RP-5: Major Activity Areas January 2021

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RP-5: Major Activity Areas July 2021

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Construction Staff

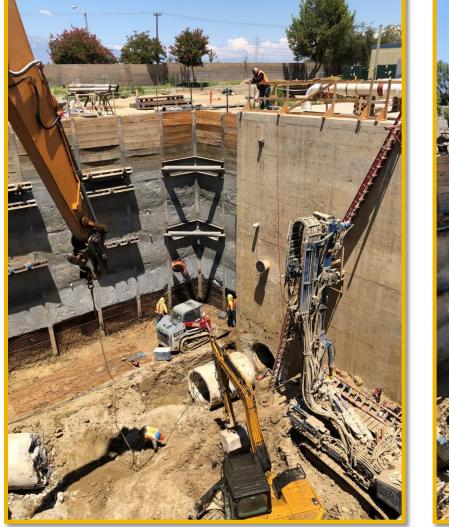
- WML Craft: 144
- WML Project: 28
- IEUA & CM: 15
- Total: 187



RP-5: Influent Pump Station

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- 50' Deep
- Next to Existing





RP-5: Secondary Clarifier 4B / MBR Phase 1





March 19th 2021

January 26th 2021

RP-5: MBR Phase 1, July 2021





RP-5: Solids Area Excavation



January Total

- Truck trips: 2,042
- Cubic Yards: 28,588



RP-5: Solids Area July 15th 2021













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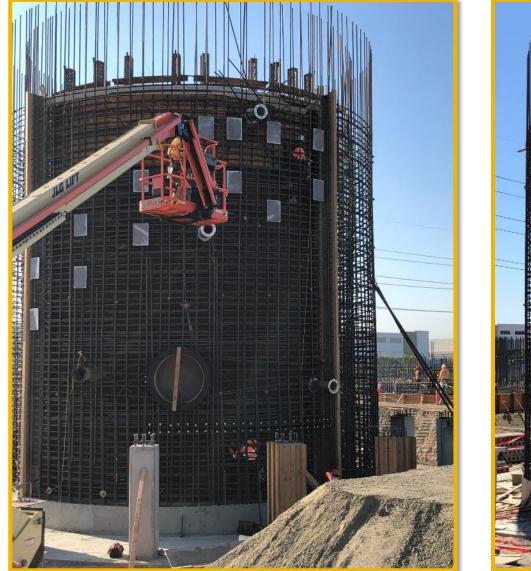
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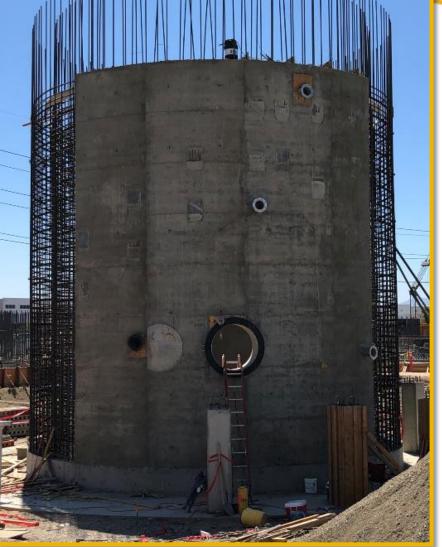










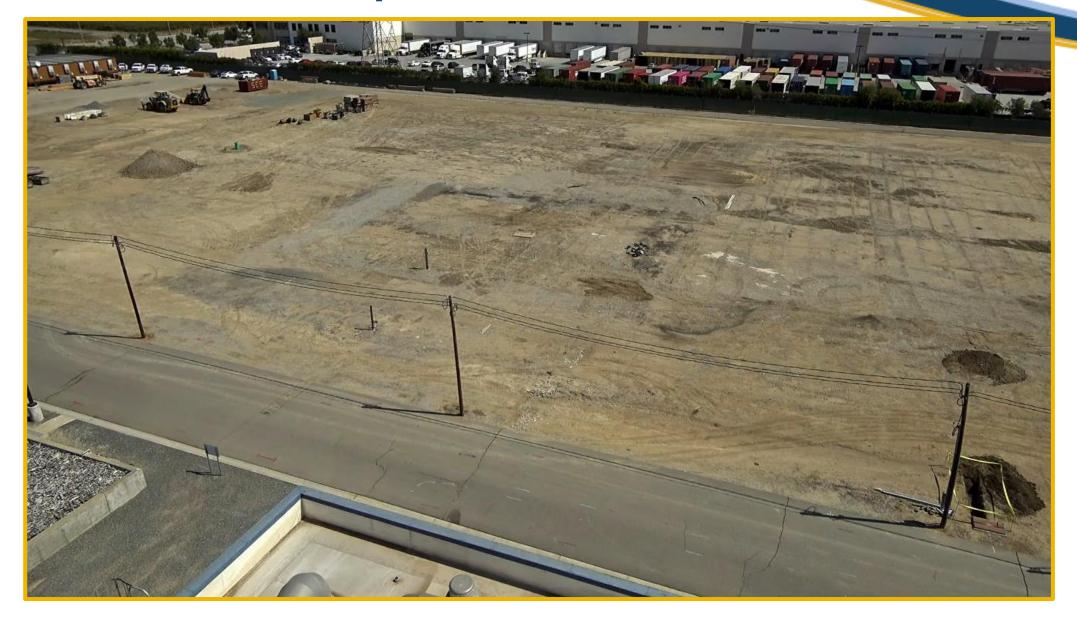




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RP-5: Solids Time Lapse







Questions?