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Managing Water in the West

Status of the Pilot Run of the Yuma Desalting Plant

Jennifer McCloskey
Yuma Area Office - Area Manager

Colorado River Citizens' Forum
September 1, 2010



U.S. Department of the Interior
Bureau of Reclamation

Drought Update

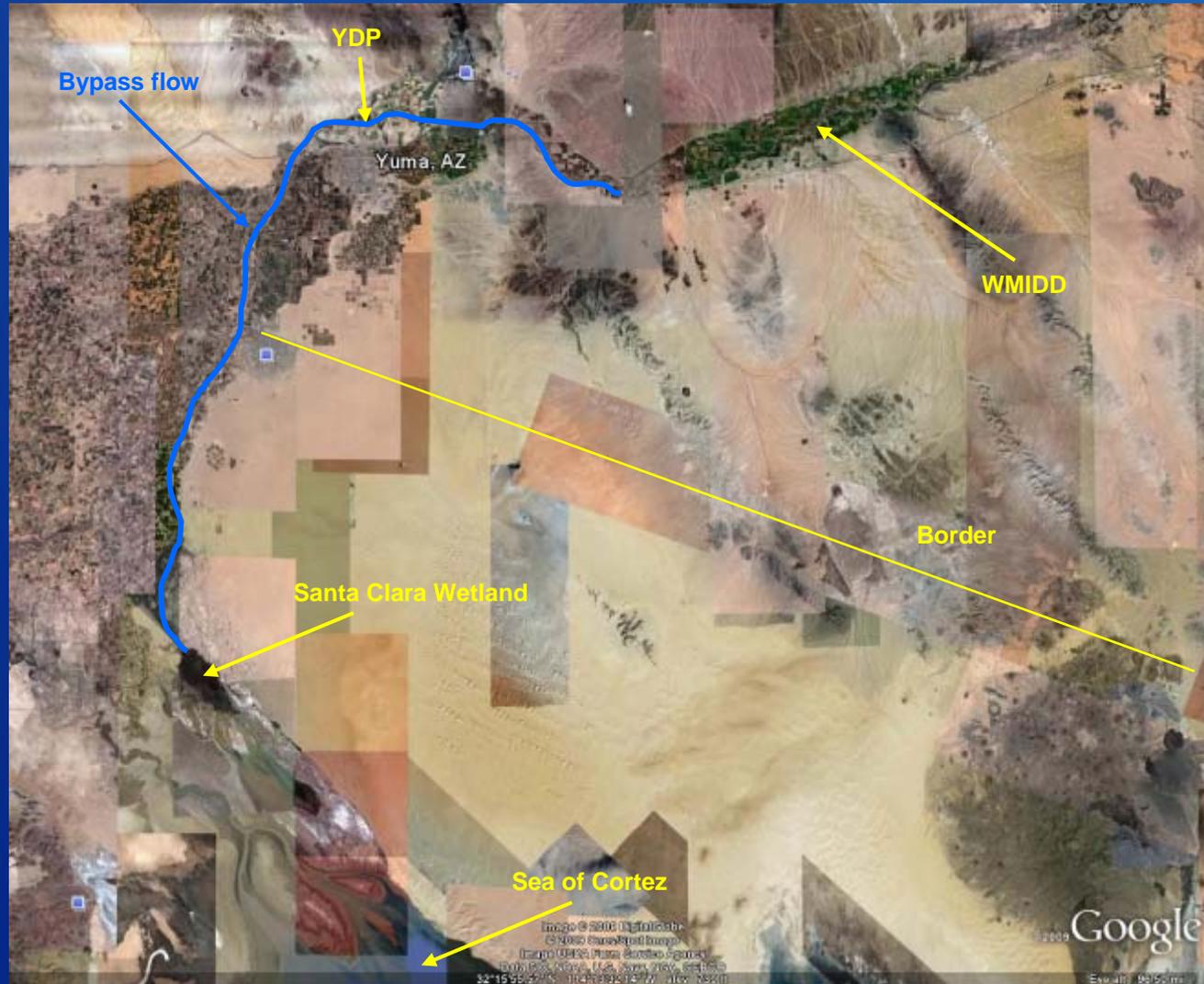


- Drought is in its 11th year
- Mead at about 44% of capacity; at elevation 1,087
- 4' more and will reach lowest level since 1937
- Lake began filling in 1935



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Geographic Overview



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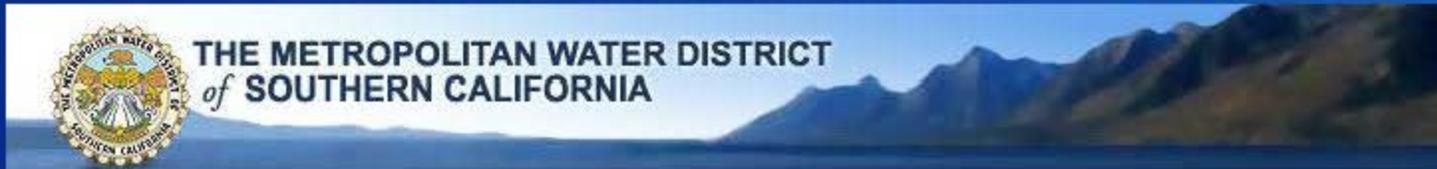
Yuma Desalting Plant

- Built to desalinate the bypass flow
- Each gallon recovered by the plant makes a gallon available in system storage for U.S. use
- 72 Million Gallon per Day (MGD) plant as currently configured
- Conventional pretreatment and cellulose acetate RO membranes
- Construction largely completed in 1992
- Pilot Run commenced on May 3rd



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Funding Partners



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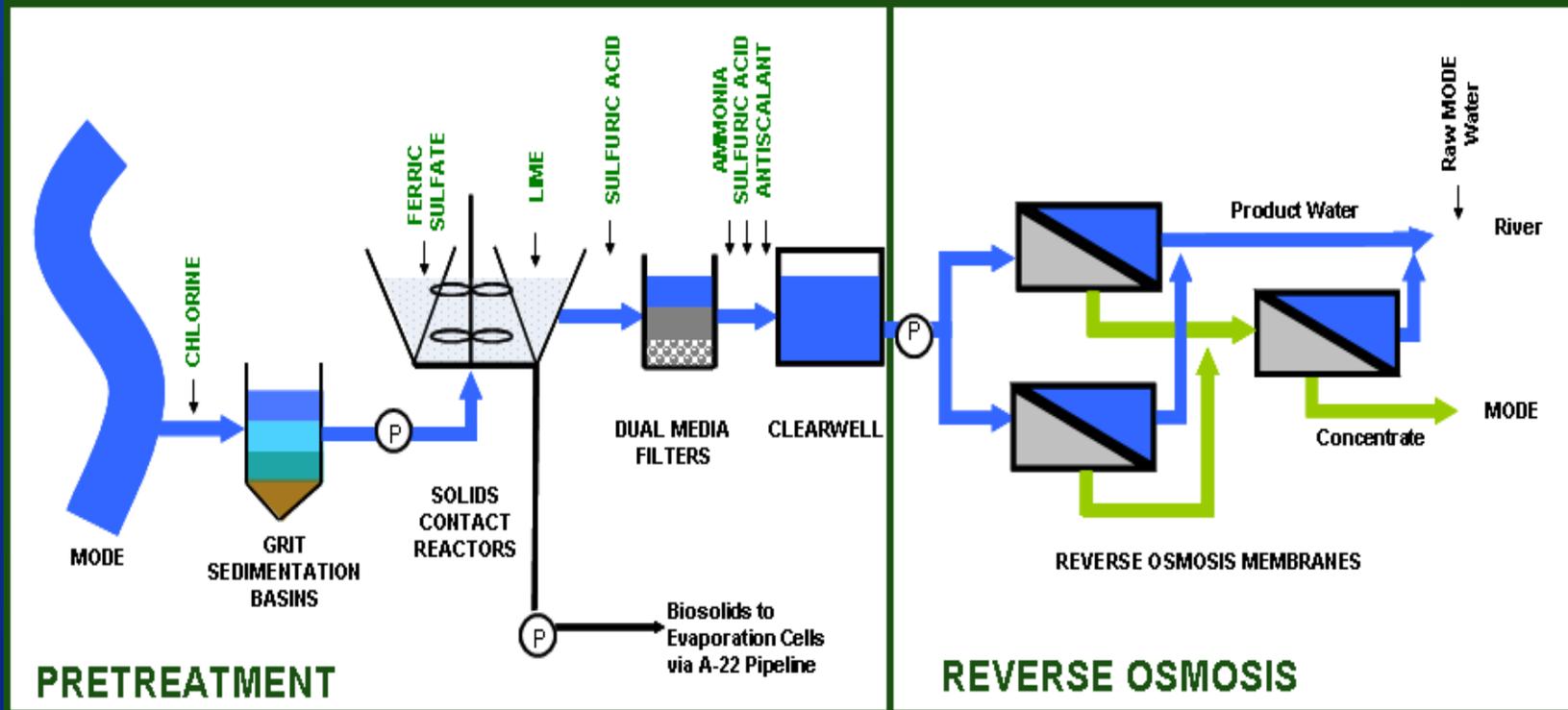
A Pilot Run is in Progress

- **Purpose:** Gather performance and cost data
- **Duration:** 365 days at up to 1/3 of full operating capacity
- **Water recovered:** 29,000 acre feet (9.5 billion gallons)
- **O&M Cost:** \$16.6 million (\$12.8 million partner share)
- **Outcomes to date:**
 - Plant is performing better than design specifications
 - 9,000 AF produced to date (100% on-stream)
 - Bio-solids management has presented the greatest challenge
 - Implementation of international agreement with Mexico is underway
 - Run is ahead of schedule and under budget



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Plant Configuration for the Pilot Run

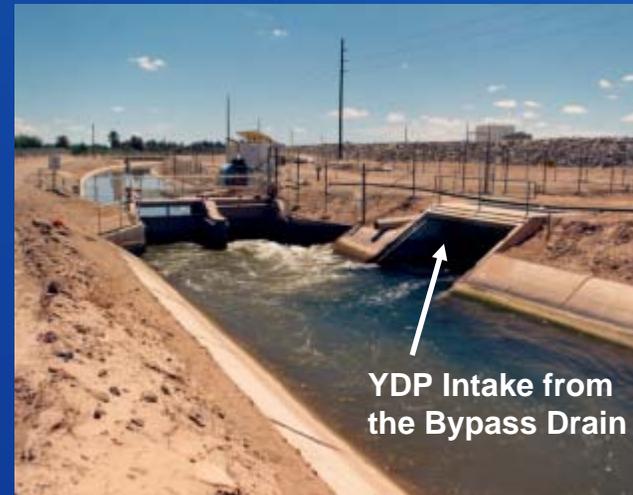
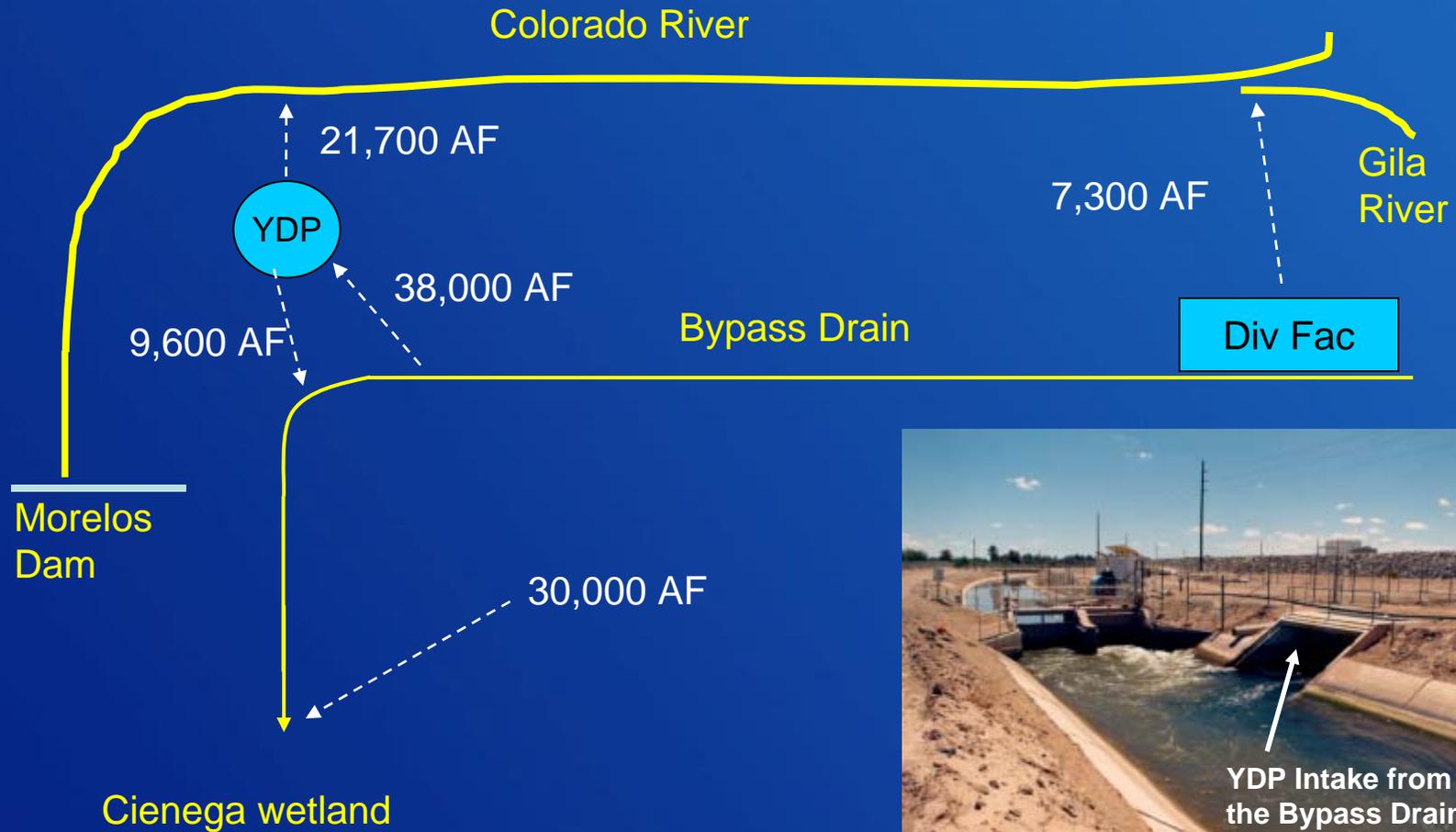


2,000+ RO membranes

70 % design recovery

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Summary level Water Balance



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Water Quality Improvement Center



Pilot Run results + Research results = Thorough YDP perspective for future decision making

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