

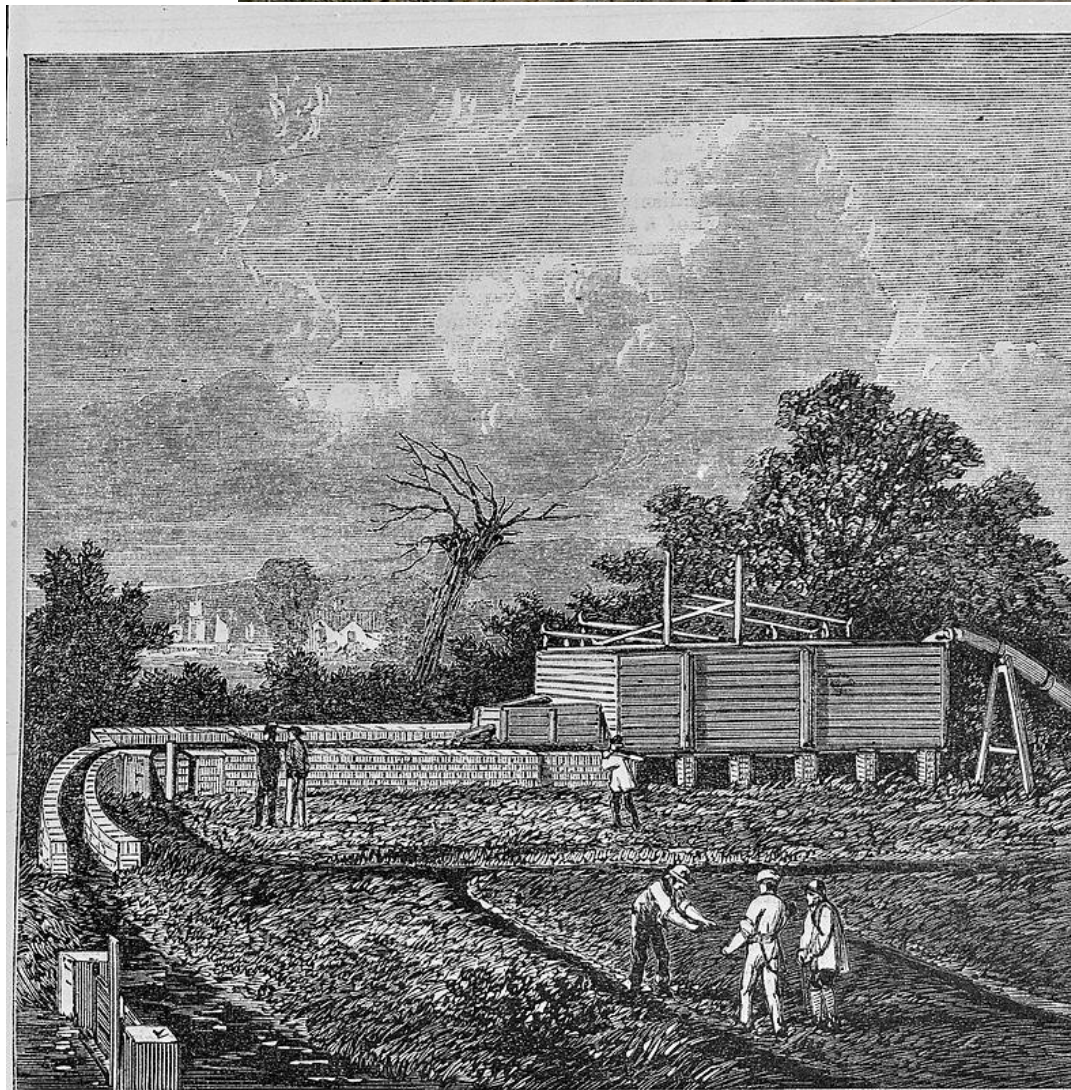
# Reclaimed Water

## Uses, Rules, and Future

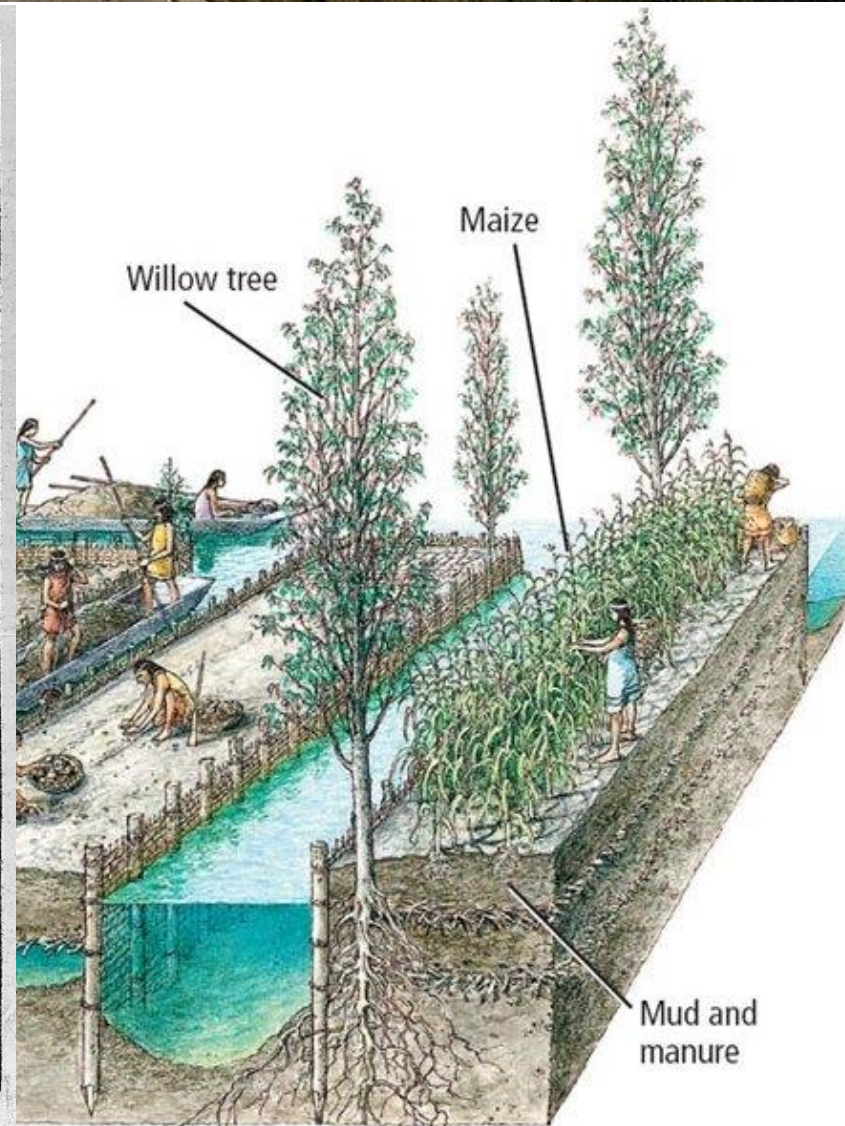
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Director of Water Reclamation  
Emerald Coast Utilities Authority



# History



TANK AT THE SEWAGE FARM, NEAR BARKING.



# Potential Uses of Reclaimed Water

- Irrigation
- Car Washing
- Concrete Mixing
- Industrial Uses
- Habitat Rehabilitation
- Saltwater Intrusion Barriers
- Groundwater Recharge
- Direct Potable Reuse
- Indirect Potable Reuse



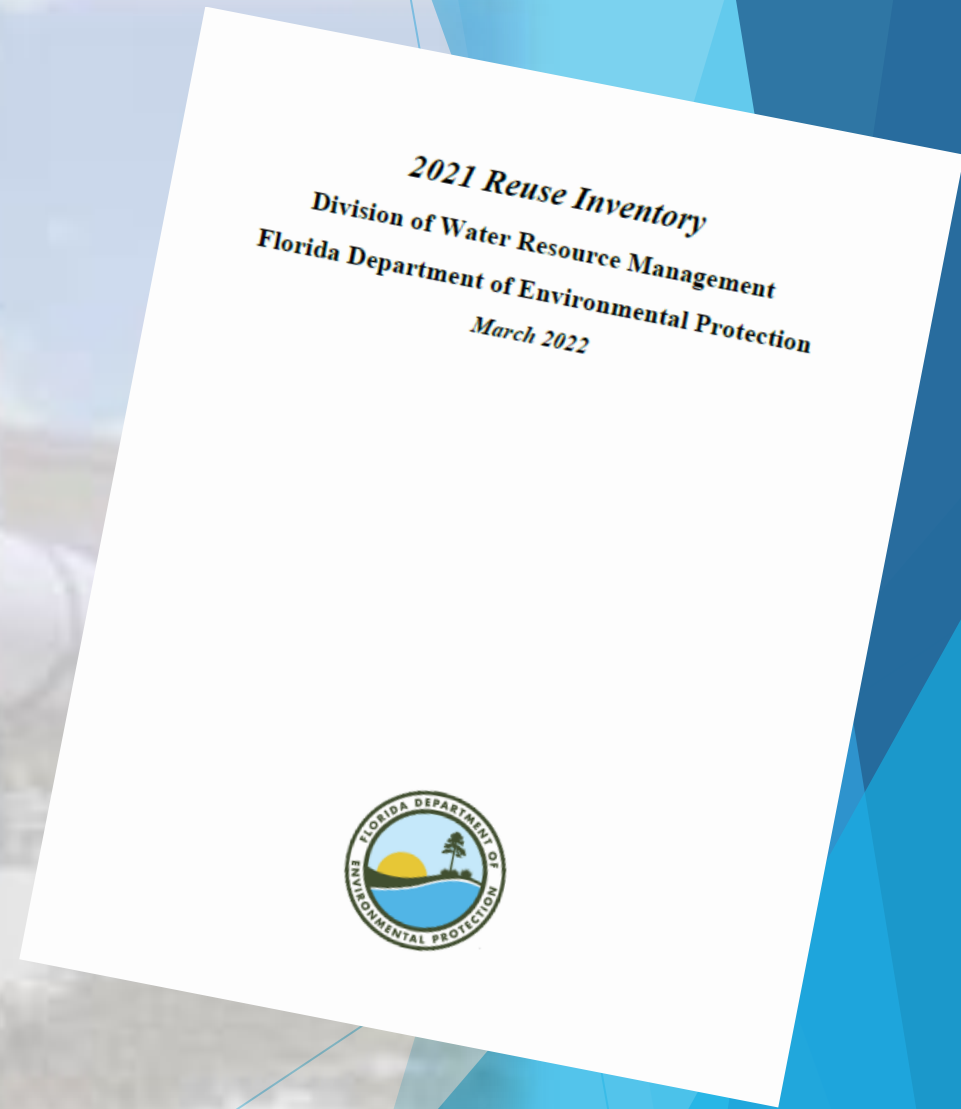
# Florida Department of Environmental Protection Reuse Rules

- ▶ Chapter 62 - 610, Florida Administrative Code
  - ▶ Part II: Slow-Rate Land Application Systems; Restricted Public Access
  - ▶ Part III: Slow-Rate Land Application Systems; Public Access Areas, Residential Irrigation, and Edible Crops
  - ▶ Part IV: Rapid-Rate Land Application Systems
  - ▶ Part V: Ground Water Recharge and Indirect Potable Reuse
  - ▶ Part VI: Overland Flow Systems
  - ▶ Part VII: Industrial Uses of Reclaimed Water
- ▶ Chapter 62-610.810(2)(g)
  - ▶ Wetlands creation, restoration, and enhancement projects will be considered “reuse”

# Florida's Reuse Statistics

- ▶ From 2021 Data:
  - ▶ 383 Reuse Systems across the State
  - ▶ 66% of all Influent flows are reused in the State

DAILY FLOW	PURPOSE
529.82 MGD	Public Access Irrigation
62.9 MGD	Crop Irrigation
96.9 MGD	Groundwater Recharge
107.9 MGD	Industrial Uses
111.08 MGD	Other Approved Uses
Totals 908.6 MGD	



# Recent Florida Legislation

## ▶ Senate Bill 64 Timeline

Officially Filed to the Senate on January 7, 2021

Approved by Florida Senate on April 21, 2021 with members voting 32-0 in favor

Officially codified on July 6, 2021 as 403.064(17), F.S.

Approved by Florida House on April 14, 2021 with members voting 118 - 0 in favor

Approved by the Governor on June 29, 2021

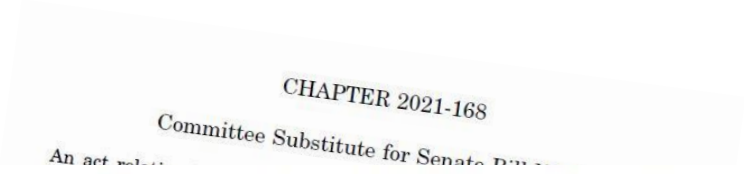


# What does it say??

- ▶ Domestic Wastewater Facilities to . . .
  - ▶ Submit a plan to end all nonbeneficial surface water discharges by November 1, 2021.
  - ▶ Terminate all nonbeneficial surface water discharges by January 1, 2022.

# Why??

- ▶ For intent, you must go back to original filing as it seems to be as the bill progressed.



Floridians currently use an estimated 6.4 billion gallons of water per day.<sup>1</sup> Between 2020 and 2040, the population in Florida is expected to grow from 4.8 million to 26.4 million people while water demands are expected to grow from 1 billion gallons per day (bgd) to 7.4 bgd.<sup>2</sup> For some regions of the state, there is enough water to meet future needs through existing sources, but

<sup>1</sup> Department of Environmental Protection (DEP), *Annual Regional Water Supply Planning Report (2019)*, available at <https://fddep.maps.arcgis.com/apps/MapSeries/index.html?appid=04f84e6ae64c45e292e5b3db82f045e3>.

<sup>2</sup> *Id.*

others require additional water to be developed.<sup>3</sup> Alternative water supply projects currently provide an estimated 1.019 bgd with an additional estimated capacity of 1.651 bgd that will be available when all projects are fully completed and implemented.<sup>4</sup>

# Considering the Effects

- ▶ Almost 70% of those affected are Municipal and County WWTF's
- ▶ Totals 949 MGD of discharge per day
- ▶ Estimated Cost of \$28 Billion (2019 dollars)



Florida Water Environment Association Utility Council

EVALUATION OF THE IMPACTS OF  
ELIMINATING SURFACE WATER  
DISCHARGES FROM DOMESTIC  
WASTEWATER FACILITIES IN  
FLORIDA

FINAL | January 2020

  
CA 8571



# ECUA's Facilities In Particular

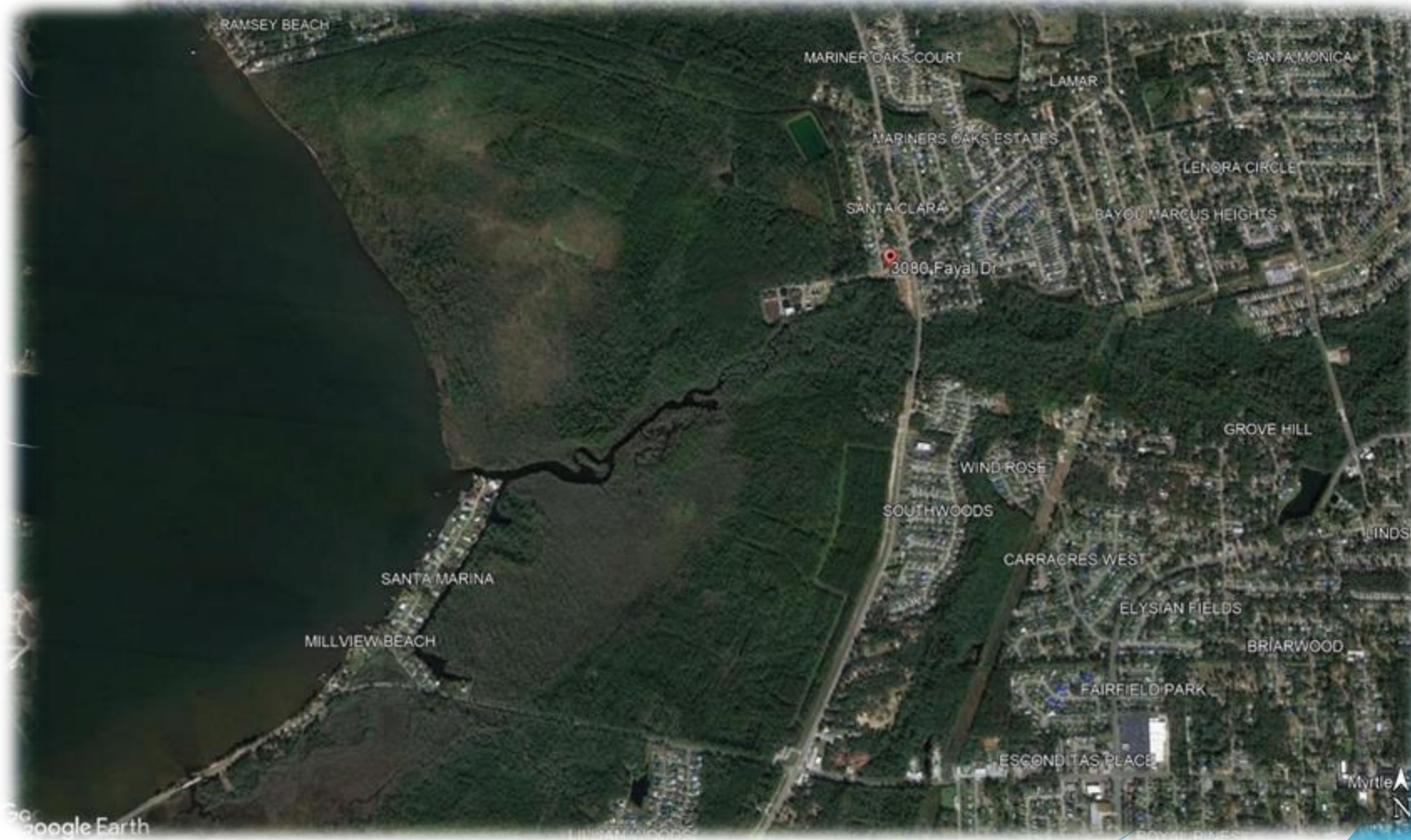
## ► Pensacola Beach Water Reclamation Facility



**PENSACOLA BEACH WWTP PROPOSED EXPANSION  
PHASE 1A-5**

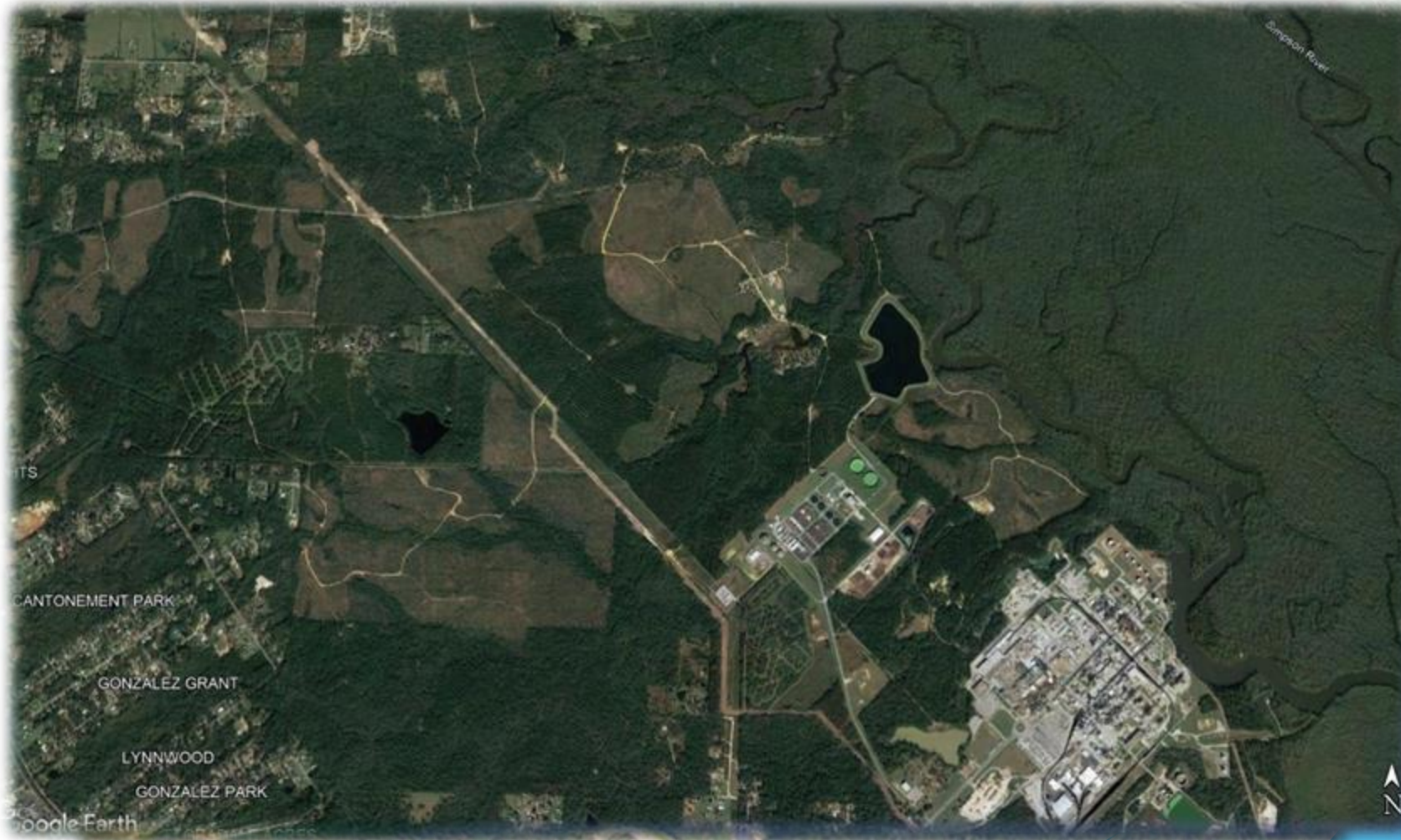
# ECUA's Facilities In Particular

- ▶ Bayou Marcus Water Reclamation Facility



# ECUA's Facilities In Particular

- ▶ Central Water Reclamation Facility





Questions?

