

Broward County's Ocean Outfall Law Update

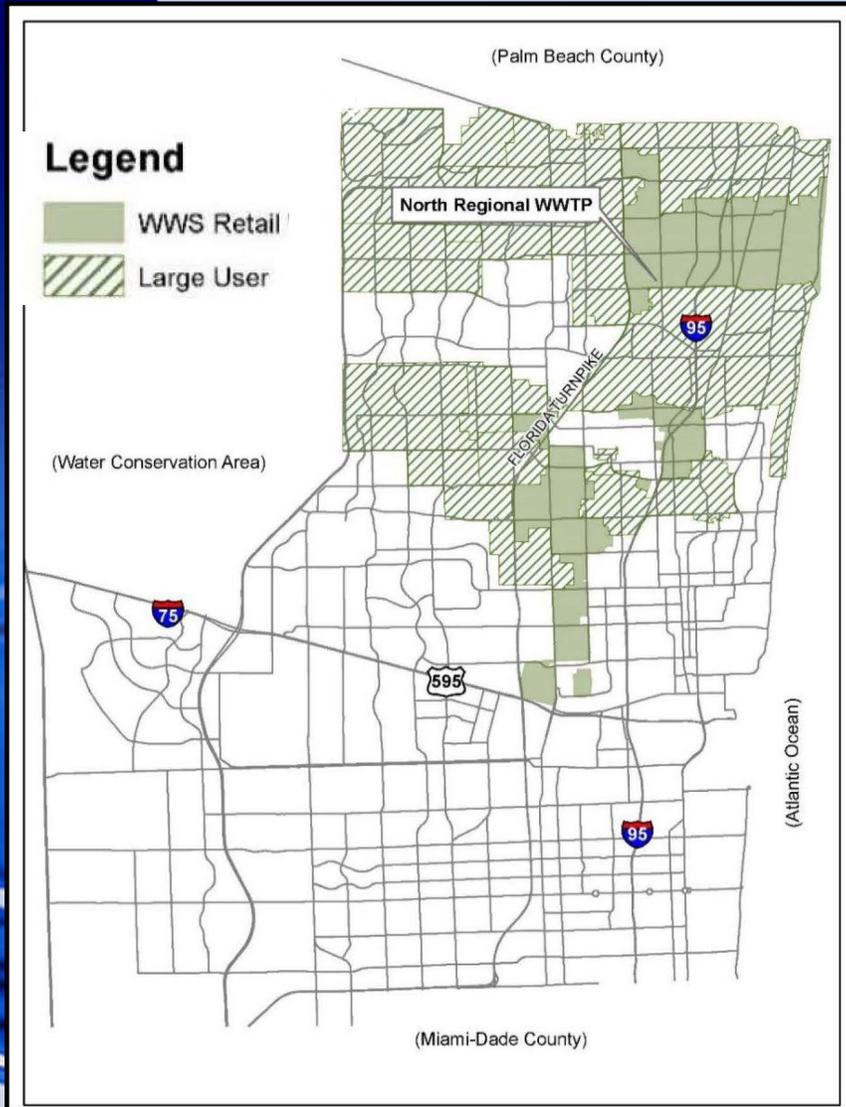
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South Florida Regional Planning Council Monthly Meeting
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Broward County's North Regional Wastewater Treatment Plant (NRWWTP) Overview



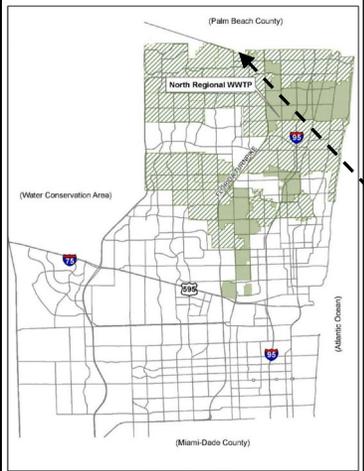
- Broward County provides both drinking water and wastewater services in different areas of the county.
- NRWWTP opened in 1975 and assisted by United States Environmental Protection Agency's wastewater plant regionalization efforts (Federal Clean Water Act's Construction Grants Program).
- Now provides wastewater service to over 600,000 people in Broward County's northern region via retail and 11 large users systems.
- Current effluent practices are ocean outfall discharge, deep well injection, and water reuse.

Solving the Ocean Outfall Legislation Challenge: A **Purple Pipe Partnership** is Born

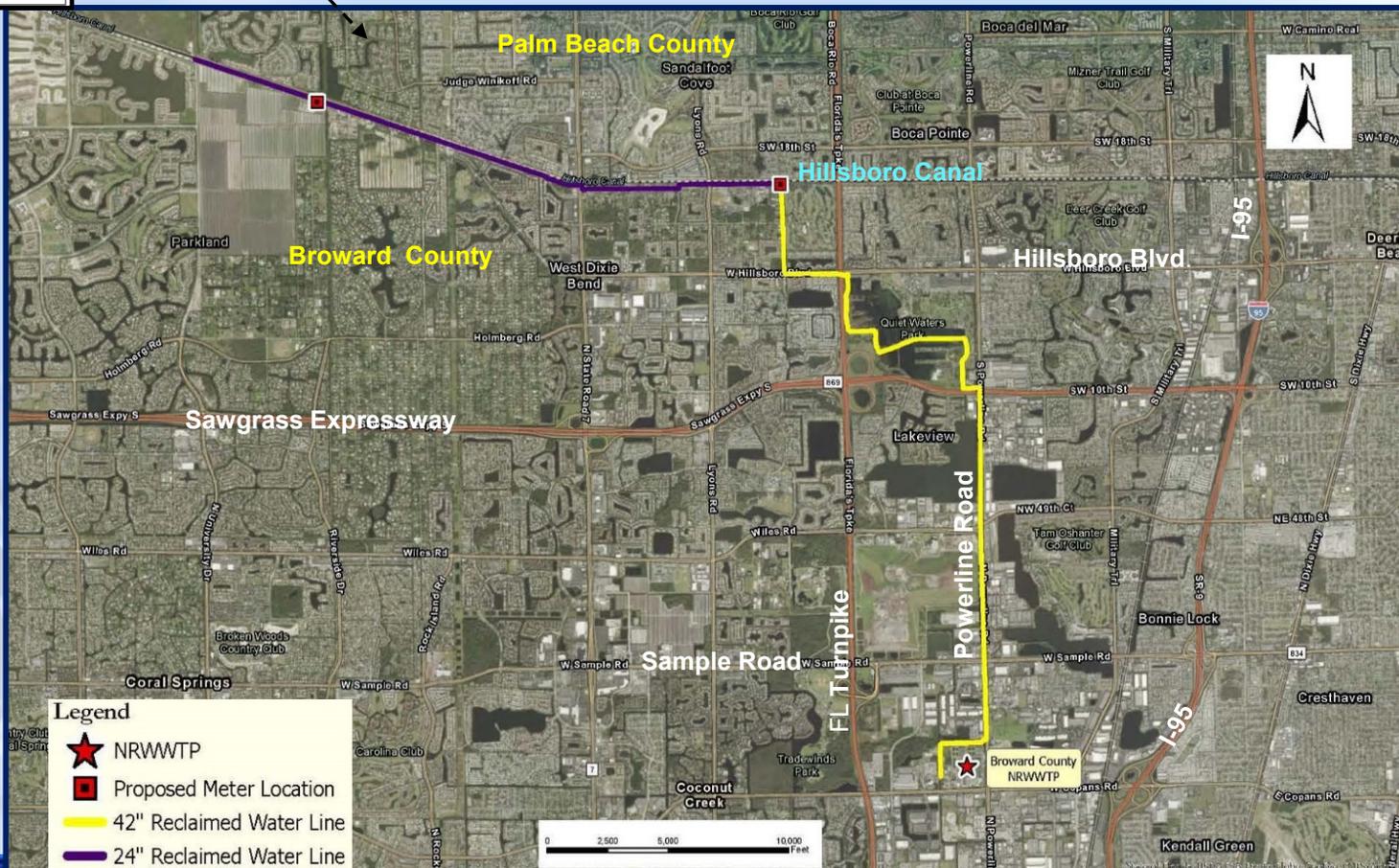
- Per Ocean Outfall Law's 60% water reuse requirement, Broward County needed to increase production to 26 million gallons per day (MGD) capacity from current 10 MGD:
 - Initial cost estimates were over **\$500 million**.
- Palm Beach County needed alternative water supply for irrigation purposes in county's populated southwest area.
 - Provide regional conservation of Biscayne Aquifer.
- Partnership implemented through an interlocal agreement approved by both Counties in 2016.
 - NRWTP water reuse improvements: **\$62 million**
 - Broward County water reuse pipelines: **\$33 million**
 - Broward County pays Palm Beach County's water reuse system construction costs but repaid over time: estimated **\$44 million**



Broward County Water Reuse Transmission Main Pipeline Project



- 42-inch diameter pipe from NRWWTP to Hillsboro Canal (yellow).
- 24-inch diameter pipe westward to North Springs Improvement District (NSID, purple).
- Will provide up to 10.5 million gallons per day (MGD) to Palm Beach County and up to 3.5 MGD to NSID.



Scenes from the Broward County Water Reuse Transmission Main Pipeline Project



Future Palm Beach County Water Reuse System

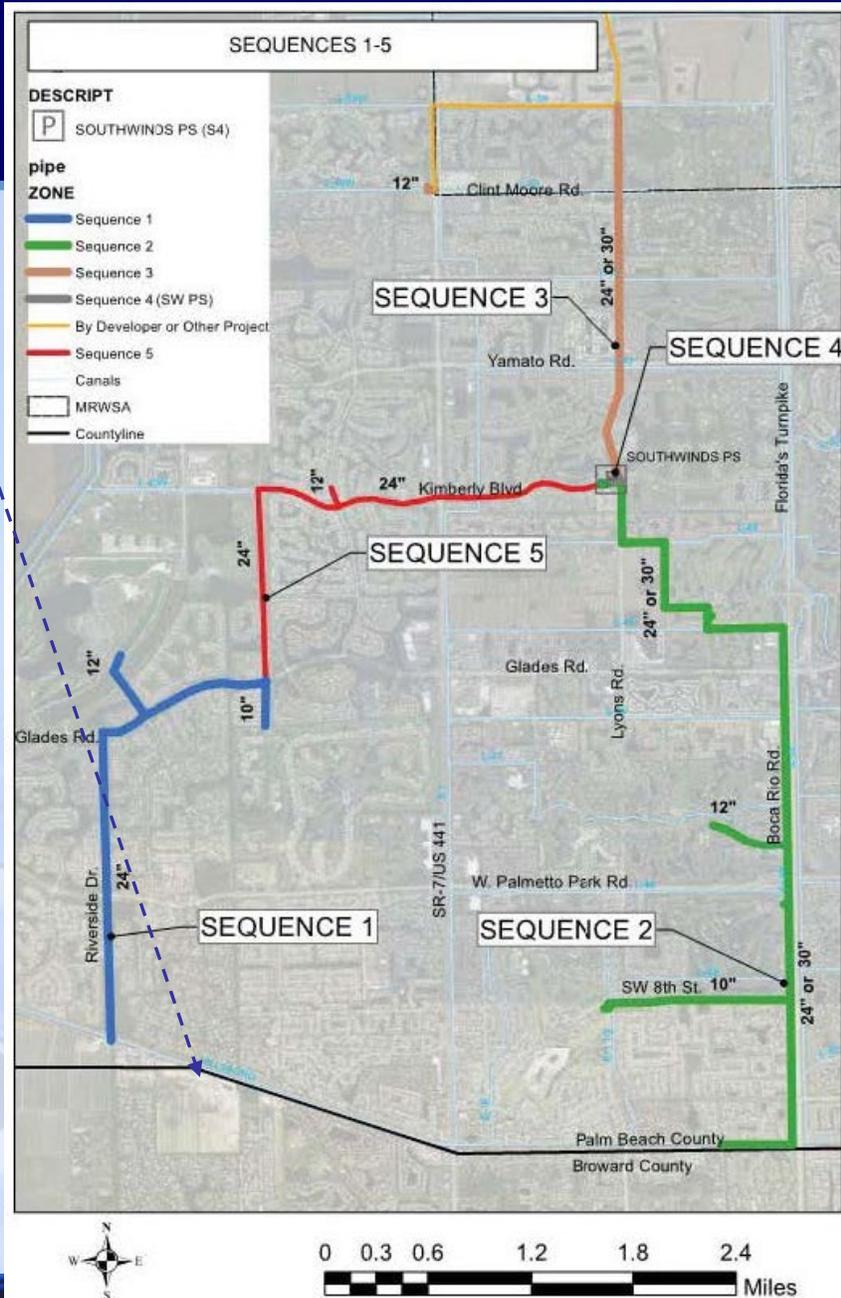
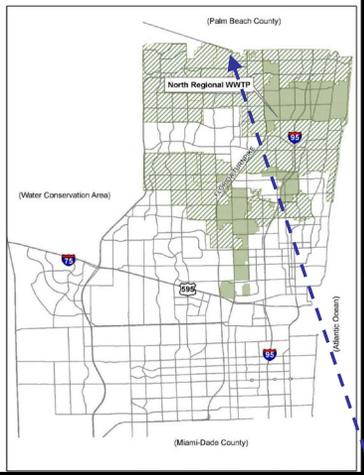


Figure ES-4 - Recommended Implementation Sequences

- 5 sequences will allow water reuse delivery to areas with need.
- Golf course and residential irrigation will be primary use.
- A two-connection system between the two counties replaced the original one connection plan:
 - Increased flexibility and redundancy = Strengthened resiliency

Some Key Milestones and Looking Forward

- Broward County's NRWTP water reuse improvements and pipelines construction scheduled for 2021 completion.
 - 26 million gallons per day water reuse among top facilities in state.*
- Many thanks to the Florida Department of Environment Protection and the South Florida Water Management District for a \$3 million alternative water supply grant for pipelines construction.
- Palm Beach County water reuse system design and construction to occur over the next few years for water reuse delivery from Broward County.
- Many thanks to the Florida Department of Economic Opportunity and U.S. Department of Housing and Urban Development for a \$6.25 million grant for Broward County's \$12.5 million 'Regional Effluent and Reuse Solutions' project.

* <https://floridadep.gov/water/domestic-wastewater/content/reuse-inventory-database-and-annual-report>

Conversations lead to solutions, let's talk

Questions/Discussion Time



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