

Ocean Outfall Compliance Update
**City of Hollywood Compliance
Requirements and Progress**

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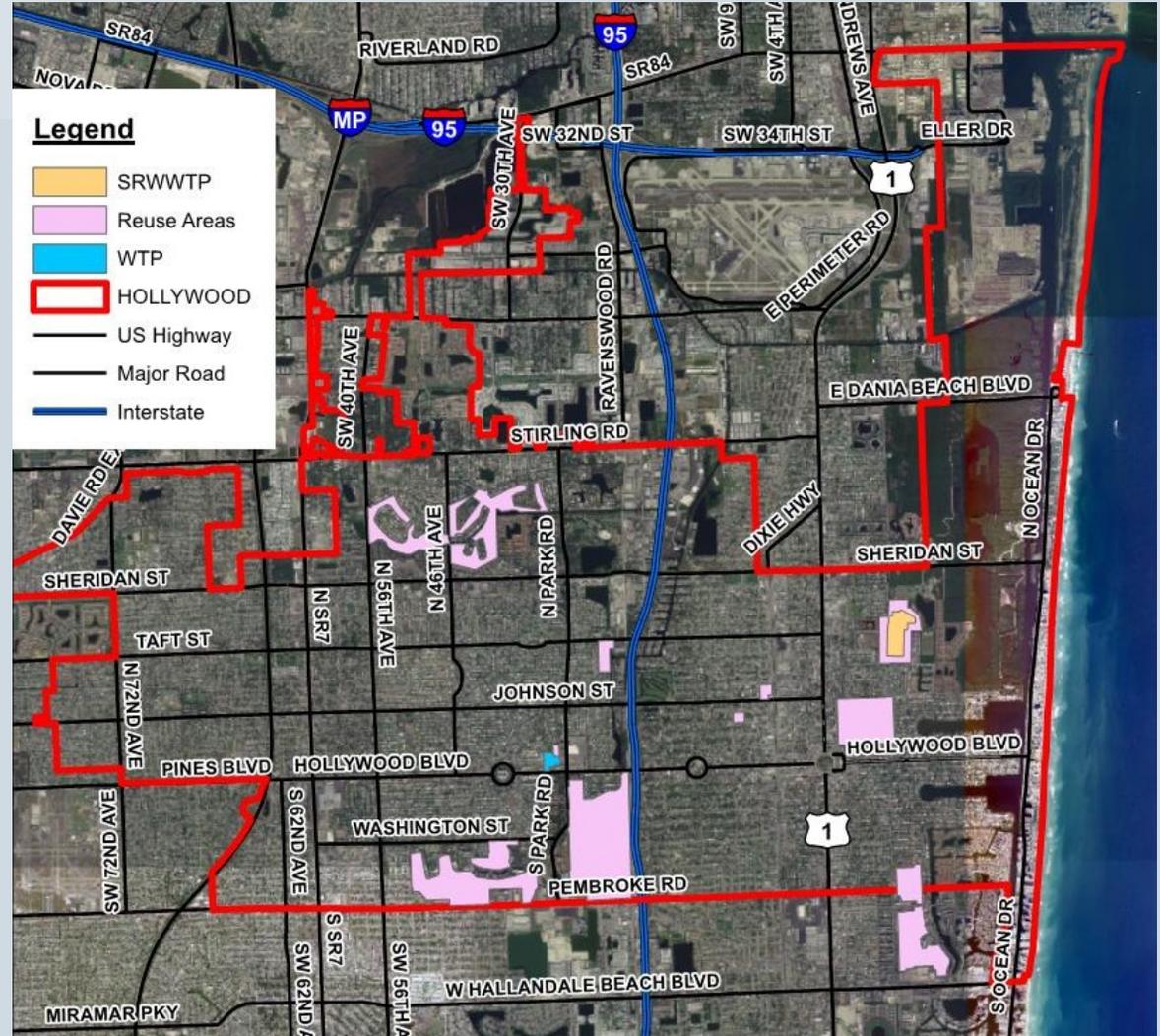


Agenda

- Hollywood's Service Area and History of Outfall Use
- City's Unique Considerations and Approaches
- Outfall Transition Progress, Remaining Work, Benefits and Cost

Wastewater, Reuse and Water Infrastructure

- Southern Regional Wastewater Treatment Plant (SRWWTP)
 - Outfall capacity – 46.3 mgd
 - AADF – 38 mgd
 - Outfall in service since 1968
 - Deep wells in service - 2003
- Reuse system
 - Permit capacity - 4 mgd
 - AADF – 2.7 mgd
 - Treats reuse water from Davie and Cooper City
- Water System Demand
 - Hollywood – 16 mgd
 - Broward – 6 mgd



UNIQUE COMPLIANCE CONSIDERATIONS

Infiltration of brackish groundwater renders the effluent too salty for typical reuse applications



- Infiltrated brackish groundwater renders effluent unsuitable for irrigation
- Seasonal tidal flooding exacerbates brackish water impacts
- Coastal utilities (Hollywood, Dania Beach, Hallandale Beach) contribute brackish groundwater

Hollywood's Unique Compliance Challenges

- The quality of the effluent is incompatible with most conventional reuse applications – desalination required
- Required reuse exceeds the City's total water demand and is more than double the estimated total outdoor water use
- The City has aggressively implemented other measures that cost effectively provide equivalent benefit, thereby reducing demand for reclaimed water
- Most constraints are unique to the City and present hurdles that render exclusive reuse infeasible

Ocean Outfall Legislation Compliance Approach

- FDEP approved approach adapted to Hollywood's unique challenges (over \$300 mil cost savings)
- Key elements of compliance approach
 1. Reuse – 10 million gallons per day (mgd) total
 - a) 4 mgd for in-process recycling (fully satisfied)
 - b) 4.5 mgd to be contracted with other utilities (partially satisfied)
 - c) 1.5 mgd expansion of existing reuse in Hollywood (ongoing)

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Ocean Outfall Legislation Compliance Approach

- Key elements of compliance approach (*Continued..*)
 2. Reduced nutrient discharge to ocean
 - a) Actual nutrients discharged limited to 36% of amount allowed
 3. Reduce discharges by 2025 (except peak wet weather flows)
 - a) OOL requires 95% reduction
 - b) Hollywood's target is 99% reduction

OUTFALL TRANSITION PROGRESS, REMAINING WORK, BENEFITS AND COST

Status and Cost of Major Compliance Program Elements

The City is on track to satisfy its requirements ahead of schedule

1. Compliance Elements – Reuse

A. Contracted Reuse (4.5 mgd)

- ✓ Satisfied 2.0 mgd
- Unsatisfied commitment 2.5 mgd

B. Actual Reuse (1.5 mgd)

- Effluent supply expansion
- Transmission expansion

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Status and Cost of Major Compliance Program Elements

The City is on track to satisfy its requirements ahead of schedule

2. Compliance Elements – Effluent Disposal

A. Injection Well (IW) Capacity Expansion

Construction completed - Fall 2021 (approx. \$40 million)

B. IW Pump Station Expansion

- Design nearing 100% completion (Est. \$93 million)
- Bid Advertisement - Fall 2021

Thank You

