



MARION COUNTY UTILITIES SOUTHWEST REGIONAL WATER RECLAMATION FACILITY UPDATE

DECEMBER 2ND, 2025

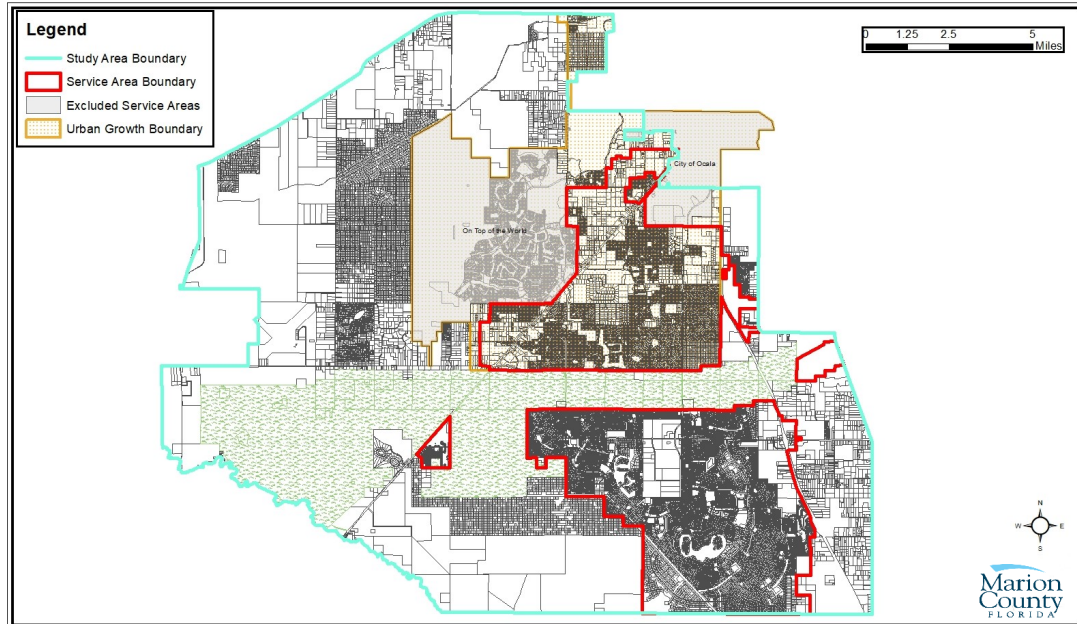
PRESENTED BY: TONY CUNNINGHAM,
MARION COUNTY UTILITIES DIRECTOR
AND ARDURRA GROUP, INC.

AGENDA



- Southwest Wastewater Service Area Historical Perspective
 - Southwest Service Area Map
- Due Diligence Work / Planning / Studies
 - Southwest Service Area Flow Projections
- Evaluation to Provide Future Capacity
- Facility Expansion & Long-Term Plan
- Effluent Disposal and Reuse Management
- Capital Cost Estimates
- CIP Objectives and Funding
- Next Steps and Action Items

SOUTHWEST SERVICE AREA



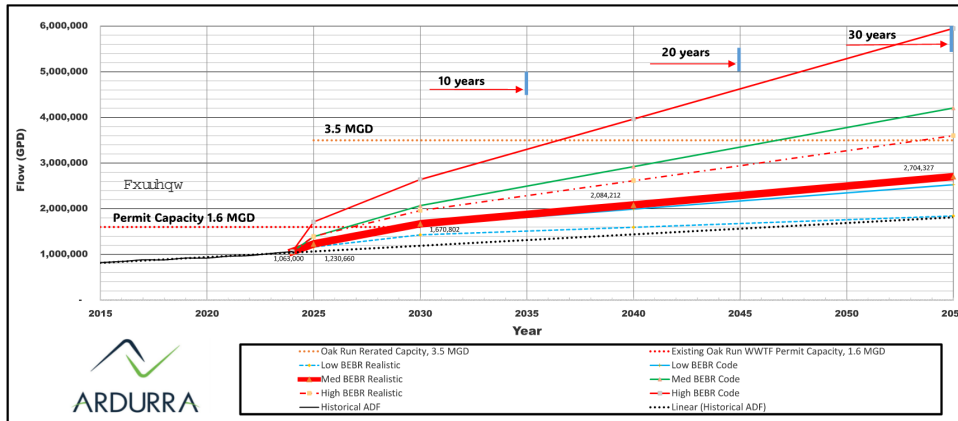
DUE DILIGENCE WORK / PLANNING / STUDIES



■ Engineering Studies and Reports

- Marion Oaks Sewer System Master Plan , December 2016
- Oak Run WWTF O&M Performance & Capacity Report, September 2022
- Southwest Service Area Design Project Conceptual Design Report, January 2024
- Southwest Service Area Design Project Conceptual Design Document, February 2024
- Oak Run WWTF Technical Memorandums 1, 2 and 3, April 2025

SOUTHWEST SERVICE AREA FLOW PROJECTIONS



- Flow projections based on Medium BEBR with Realistic Flows
- 66% of growth in Marion County will be in SW service area
- High Potential for New users within service area

EVALUATION TO PROVIDE FUTURE CAPACITY

- Prepared a Preliminary Engineering Report Evaluating:
 - Expand Southwest Regional Water Reclamation Facility (SWRWRF) to 3.5 MGD
 - Provides capacity for approximately 30 years
 - Evaluated various biological treatment alternatives to ensure most cost-effective option

EXISTING FACILITY

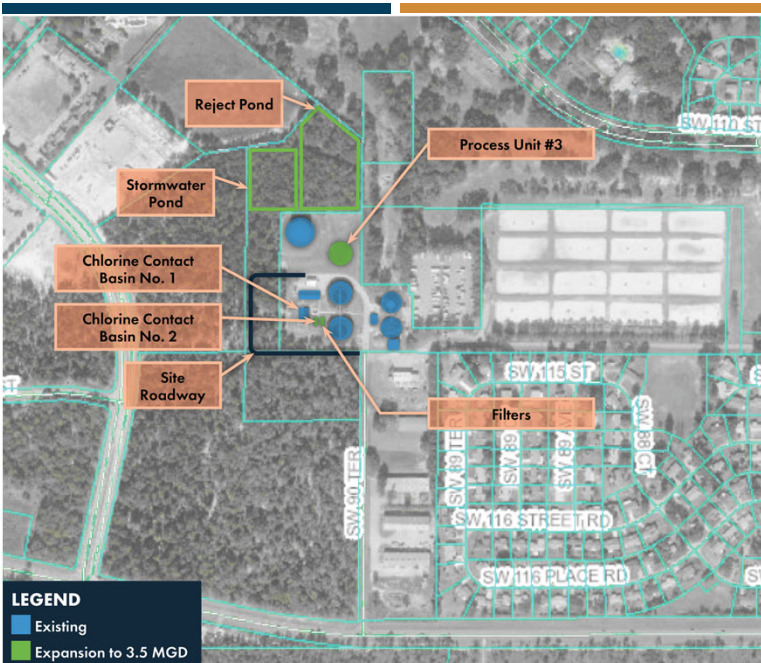


SOUTHWEST REGIONAL WATER RECLAMATION FACILITY

- 1.6 MGD Facility
- Two (2) Biological Process Tanks
- Odor Control at Headworks and Peak Shaving Tank
- Digester and Biosolids Handling Facility
- Emergency Power and Electrical Systems
- Operations Building

7

EXPANSION TO 3.5 MGD

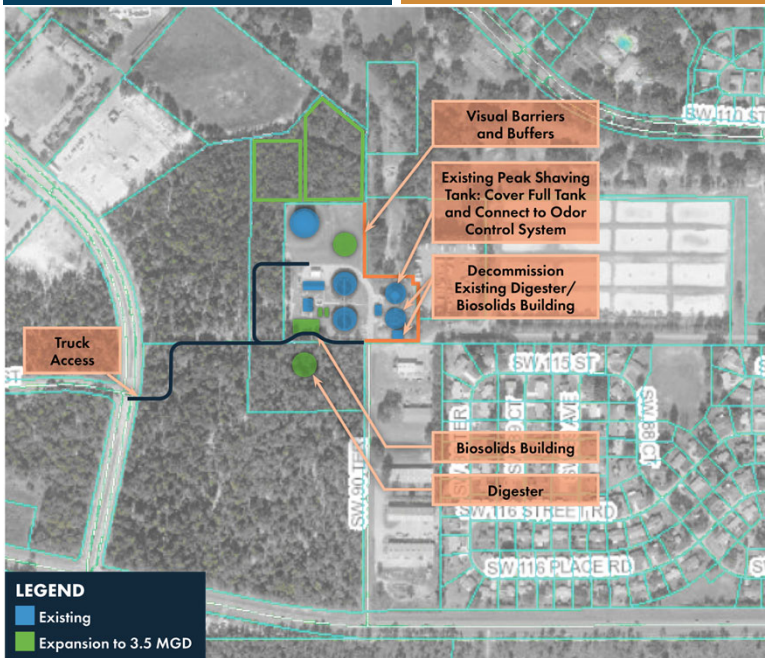


SOUTHWEST REGIONAL WATER RECLAMATION FACILITY

- Additional Main Biological Process Tank
- Additional Filters
- Additional Chlorine Disinfection Tankage
- Add Lined Basin for Reject Water
- Additional Emergency Power Generation
- Site Improvements

8

MODIFICATIONS TO FACILITY BASED ON COMMUNITY FEEDBACK



COMPLETED/IN PROGRESS MEASURES CONSIDERING PROXIMITY TO NEIGHBORHOOD

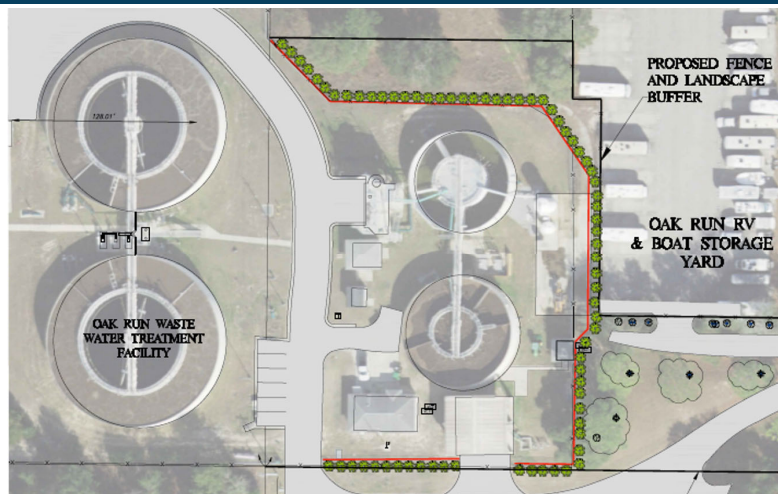
- Thioguard Chemical Injection (Odor Control)
- Collection System Evaluations & Improvements
- Landscape Buffers and Walls
- Install Baffle Curtains to Mitigate Odors & Screening at Existing Biosolids Building
- Install new blowers to mitigate noise

ADDITIONAL FUTURE MEASURES CONSIDERING PROXIMITY TO NEIGHBORHOOD

- Relocation of Biosolids Management Facilities
- Relocation of Access Road
- Decommissioning of Existing Biosolids Management Facilities
- Additional Covers for Odor Control

9

SCREENING IMPROVEMENTS AT SWRWRF



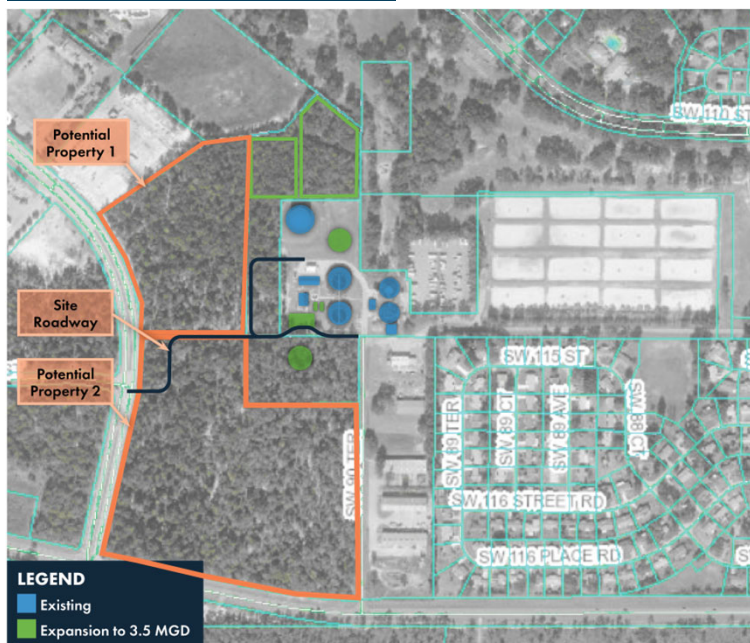
SCREENING IMPROVEMENTS AT SWRWRF



Empowering Marion for Success

11

LAND ACQUISITION / FUTURE



SOUTHWEST REGIONAL WATER RECLAMATION FACILITY

- Area for Future Facility Expansion
- New Main access to Facility
- Area for Stormwater Management
- Future Wet Weather Storage / Reject Water Storage
- Utility and Pipeline Corridor Access
- Future Customer Service Office Location

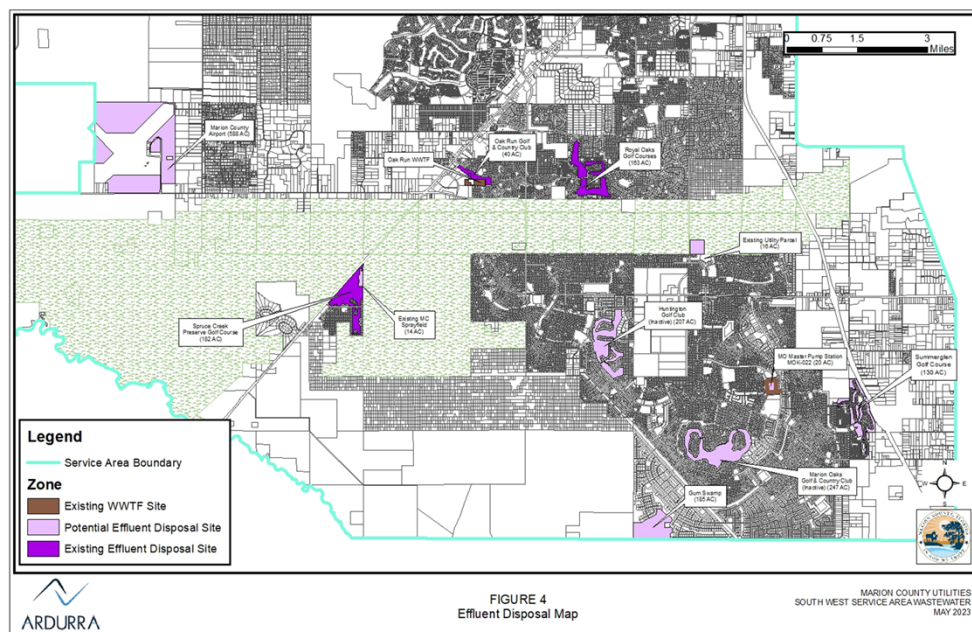
12

EFFLUENT DISPOSAL AND REUSE MANAGEMENT



- Locations and objective for capacity expansion in stages
- Wetland Recharge/Florida Greenways
- Reclaimed water and reuse
 - Consistent with Water Use Permit/Consumptive Use Permit

EFFLUENT DISPOSAL AND REUSE MANAGEMENT



CIP OBJECTIVES AND FUNDING



- CIP Funding
 - Estimated Expansion Cost ~\$45M
 - Partially funded in current year with additional funds projected in CIP future years
- Targeted Funding Programs:
 - State Revolving Fund (SRF)
 - Community Development Block Grant (CDBG)
 - Hazard Mitigation Grant Program (HMGP)
 - State Water Quality Grants
 - Various USDA

NEXT STEPS



- Change order for modification of current scope to include additional upgrades
- Pursue Additional Land Acquisition at Current Location
- Summarize and incorporate BOCC feedback