Miami-Dade County

CIP Investments in Our Community

Miami-Dade County is a coastal community with 5,830 people per square mile within its urban area. The WASD CIP is focused on the following projects to improve system resilience throughout our service area:

- Upgrading our aging infrastructure through replacement and renewal
- Addressing critical needs across our water treatment plants and distribution system
- Fast-tracking projects to connect more than 12,000 groundwater compromised septic tanks to our sanitary sewer system as part of our recently launched Connect 2 Protect program
The simple truth is that all water has value — drinking water, wastewater, stormwater, and everything in between — and should be managed in a sustainable, inclusive, integrated way.

We call this perspective One Water. And while our focus is water, our goals are thriving local economies, vibrant communities, and healthy ecosystems.

Through the Capital Improvement Program, the Miami-Dade Water & Sewer Department will continue to ensure the sustainable delivery of high-quality drinking water and wastewater services to the residents of Miami-Dade County.
The Miami-Dade Water & Sewer Department is the largest water utility in the Southeastern United States, providing high-quality, affordable water & wastewater services to the people of Miami-Dade County.

WASD at a glance

- 94 Production Wells
- 1,057 Pump Stations & 6,300 Miles of Collection System
- 3 Wastewater Plants Treating Almost 300 MGD
- 2.3 Million Residents Served
- 2,791 Positions
- 3 Regional Water Plants & 1 Shared Reverse Osmosis Plant Producing 300+ MGD

3,791 Positions
Strategic Initiatives

- Workforce
  - Workforce Empowered by the WASD Training Program

- Strategic Plan
  - Mapping WASD’s path for the future of Our County

- Customer Service
  - Leveraging Key Technologies, such as AMI, to improve our service
WASD Key Capital Improvement Programs

Consent Decree
To achieve full compliance with the US EPA Clean Water Act

Water Reset
To address critical needs across water treatment plants & the distribution system

Pump Station Resilience
To manage the improvement to pump stations, force mains, and gravity lines

Ocean Outfall Legislation
To comply with State of Florida legislation requiring elimination of ocean outfalls to dispose of treated wastewater

Connect 2 Protect
To protect Biscayne Bay and the environment by implementing septic to sewer conversions

Asset Management
To address aging infrastructure through systemic renewal & replacement
Capital Plan

- Consent Decree
- Ocean Outfall Legislation Program
- Pump Stations/Flow Reduction
- Other Capital Projects
- Renewal & Replacement
- WASD Capital Improvement Plan

<table>
<thead>
<tr>
<th>Investment Drivers</th>
<th>ADOPTED BUDGET FY 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consent Decree Program</td>
<td>$1,817</td>
</tr>
<tr>
<td>Ocean Outfall Legislation</td>
<td>$2,177</td>
</tr>
<tr>
<td>Pump Stations &amp; Flow Reduction</td>
<td>$389</td>
</tr>
<tr>
<td>WASD Capital Projects</td>
<td>$3,141</td>
</tr>
<tr>
<td>Totals</td>
<td>$7,524 M</td>
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</tbody>
</table>

7.5 Billion in Infrastructure Investments
Small Business Commitment

Historical SBE Participation
(% of WASD Contract Value)

<table>
<thead>
<tr>
<th>Year</th>
<th>SBE Utilization</th>
<th>Target</th>
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<tbody>
<tr>
<td>13-14</td>
<td>19%</td>
<td></td>
</tr>
<tr>
<td>14-15</td>
<td>23%</td>
<td></td>
</tr>
<tr>
<td>15-16</td>
<td>18%</td>
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<tr>
<td>16-17</td>
<td>23%</td>
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<tr>
<td>17-18</td>
<td>32%</td>
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<tr>
<td>18-19</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>19-20</td>
<td>34%</td>
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</tbody>
</table>

SBE Utilization - Green
Target - Blue
Small Water Main Replacement

- Square Miles Under Design - 8
- Urgent Priorities - 3
- High Priorities – 24
- Moderate Priorities – 21
- Low Priorities – 55
Protect your home from damage, reduce maintenance, and get more use from your yard

Protect your health from exposure to overflows and flood water

Protect our natural resources, including our drinking water and Biscayne Bay

• Countywide Program
• Conversion of 9,000 Septic Tanks
• Protects Biscayne Bay
Water Infrastructure Reset
Estimated Investment

$300 Million Investment

- Increases sustainability & resilience
- Prioritized through asset management
- 33 Projects
Federally Mandated Consent Decree to address **Clean Water Act Violations**. Lodged by U.S. Department of Justice and Authorized by Miami-Dade BCC.

- **2013**: 65% of projects completed
- **2021**: Expenditures to Date: $1.3 Billion, Remaining to Complete: $0.6 Billion
- **2028**: Required to complete 100% of Consent Decree Projects

Miami-Dade County meets its regulatory, legal, and environmental obligations.
Florida Legislature passes law (403.086(9)(f)), requiring to:
• eliminate normal use of the outfalls
• reduce nutrient discharges
• implement feasible reuse systems

Required to complete 100% of Ocean Outfall and South District Expansion Projects

Miami-Dade County meets its regulatory and environmental obligations to the Florida Legislature

12.5% completed
• Expenditure to Date: $0.3 Billion
• Remaining to Complete: $2.1 Billion
Ensuring Capacity for Growth

Increasing Wastewater Treatment Capacity

- Increasing SDWWTP AADF from 112.5 MGD to 131 MGD
- Increasing SDWWTP PHF from 285 MGD to 305 MGD

Increasing Water Supply

- Increasing water supply by optimizing Biscayne Aquifer wellfield operations and the C-51 reservoir project.
A&E Contracts

2022
1. Engineering Services for Grant funded projects
2. Standards / Specs
3. South Dade Maintenance Facility

2023
1. Water/WW Collection & Distribution System
2. Wastewater Treatment Plant Consultants
3. Water Treatment Plant Consultants

2024
1. General Planning for Water & Sewer

2025+
1. Hydrogeology
2. Geotechnical & Material Testing
3. Land Surveying
FEMA & Grant Consulting

$42.7M

FDEP Grants

1. Drinking Water Resilience Hardening
2. Schenley Park Connect 2 Protect

Treatment Plants PSA
All treatment process and facilities

Collection & Distribution System PSA
All pipelines, pumpstations, and sewer conversions
Standards & Specifications

01. Standardize As-Built Submittal Process
02. Procure Standards & Specs Consultant
03. Standardize All Specs Engineering & Donations
04. Implement New Standards
# South Dade Maintenance Facility

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engineering</strong></td>
<td>Update &amp; Finalize Plans</td>
</tr>
<tr>
<td><strong>Permitting</strong></td>
<td>Concurrent with Final Plans</td>
</tr>
<tr>
<td><strong>Bidding</strong></td>
<td>Mitigate Bid Risk with Industry Reviews</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Limited Services to Certify Project</td>
</tr>
</tbody>
</table>
Construction Contracts

Emergency Pool
- Small Diameter Pool
- Large Diameter Pool

Trenchless
- Pool for New Installation of Trenchless Pipeline
- Pool for Rehabilitation of Trenchless Pipeline

Miscellaneous Construction Contract 7040
- Small Businesses
- Local office
- Local Business Tax Receipt
- Qualifier – Minimum 10% Ownership

Miscellaneous Construction Contract 7360
- Open to all contractors
- To be considered must respond to RTQ
- Must be registered as a vendor before award
Executing Together

Increased collaboration
- Industry Reviews prior to NTPC’s
- Industry Reviews for large projects prior to Bids
- Evaluations & Feedback from Project Managers
- Enhance Our Website with CIP

- Keeping projects on track.  SCHEDULE
- Minimizing changes.  BUDGET
- Engaging the community.  STAKEHOLDERS
Quarterly Industry Forum Meetings

- Late May: Second Quarter 2022
- Late August: Third Quarter 2022
- Mid-to-Late November: Fourth Quarter 2022
Thank You