



# Miami-Dade Water and Sewer Department Capital Improvement Program

## Industry Forum June 28, 2022



# 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



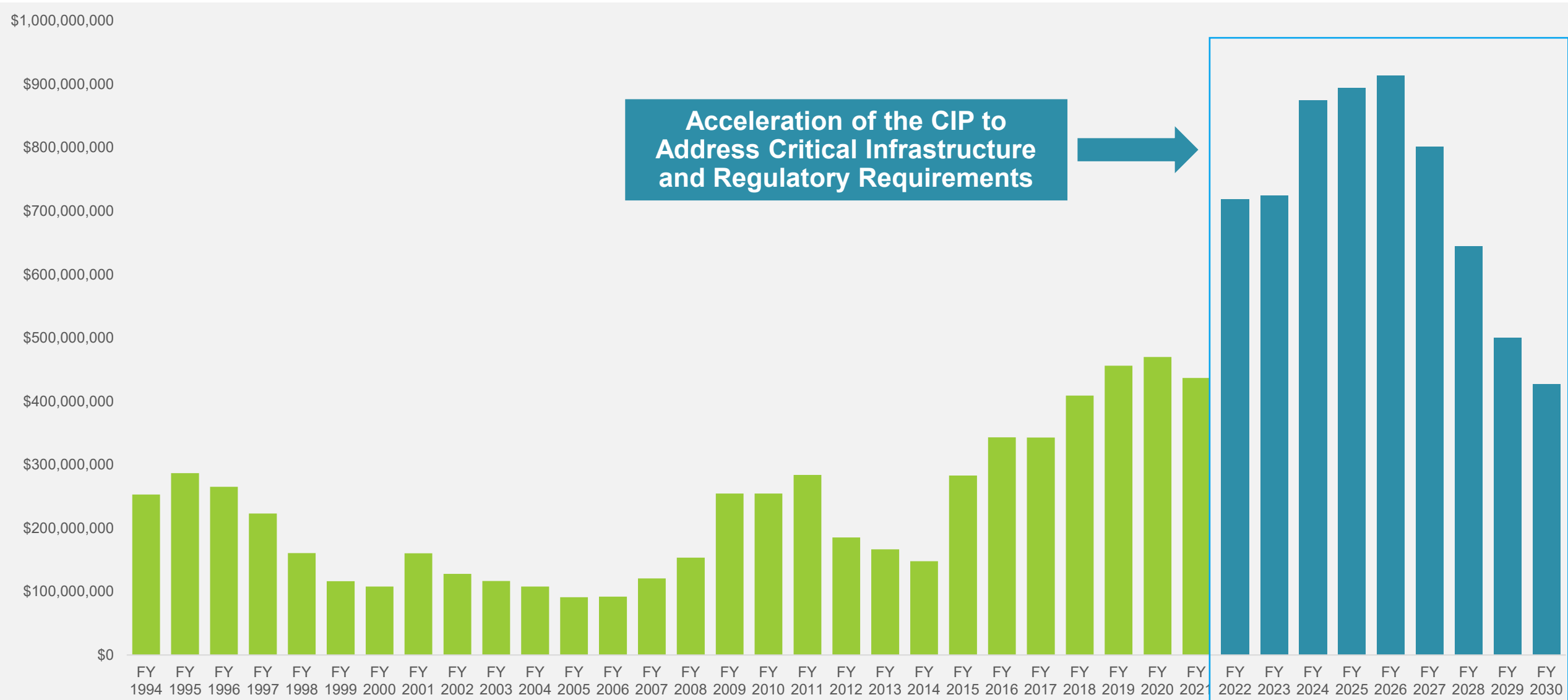
Investment Drivers	ADOPTED BUDGET FY 22
Consent Decree Program	\$1,469
Ocean Outfall Legislation	\$2,089
Pump Stations & Flow Reduction	\$0.505
Capital Projects	\$3,770
Totals	\$7,833 M

💧 7.8 Billion in Infrastructure Investments





# Accelerating CIP



# Consent Decree

Federally Mandated Consent Decree to address **Clean Water Act Violations**. Lodged by U.S. Department of Justice and Authorized by Miami-Dade BCC

Required to complete 100% of Consent Decree Projects

2013

2021

2028

Miami-Dade County meets its regulatory, legal, and environmental obligations

## 65% of projects completed

- Expenditures to Date: \$1.3 Billion
- Remaining to Complete: \$0.6 Billion



# Ocean Outfall Legislation

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

2008

2021

2025

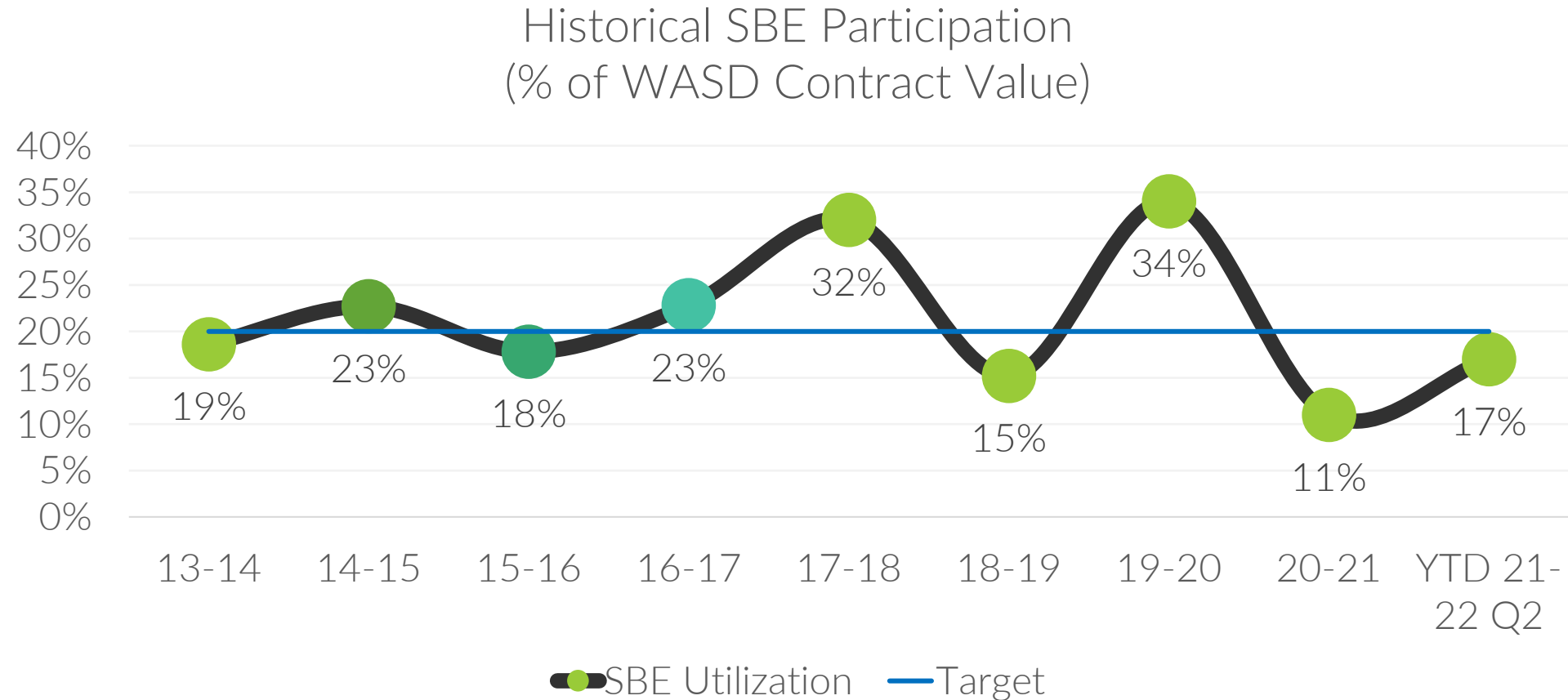
Miami-Dade County meets its regulatory and environmental obligations to the Florida Legislature

**12.5% completed**

- Expenditure to Date: \$0.3 Billion
- Remaining to Complete: \$2.1 Billion

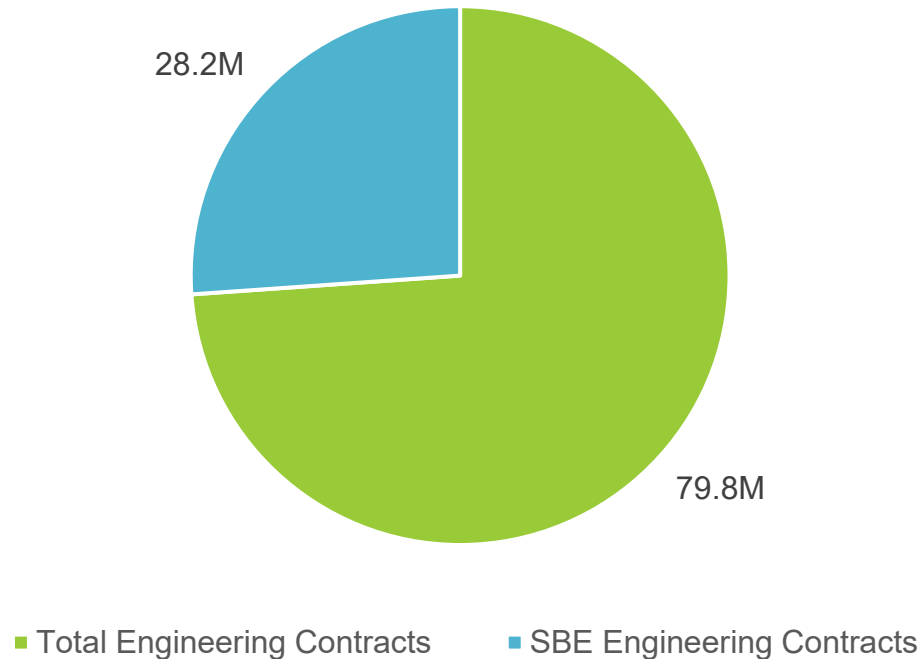


# Small Business Commitment



# Infrastructure Investment to Date

A&E Fees



**\$702M in Construction Contracts**



**\$23M in Design-Build Contracts**



**\$108M in Engineering Contracts**

**61%**  
of Firms are  
**SBE's**

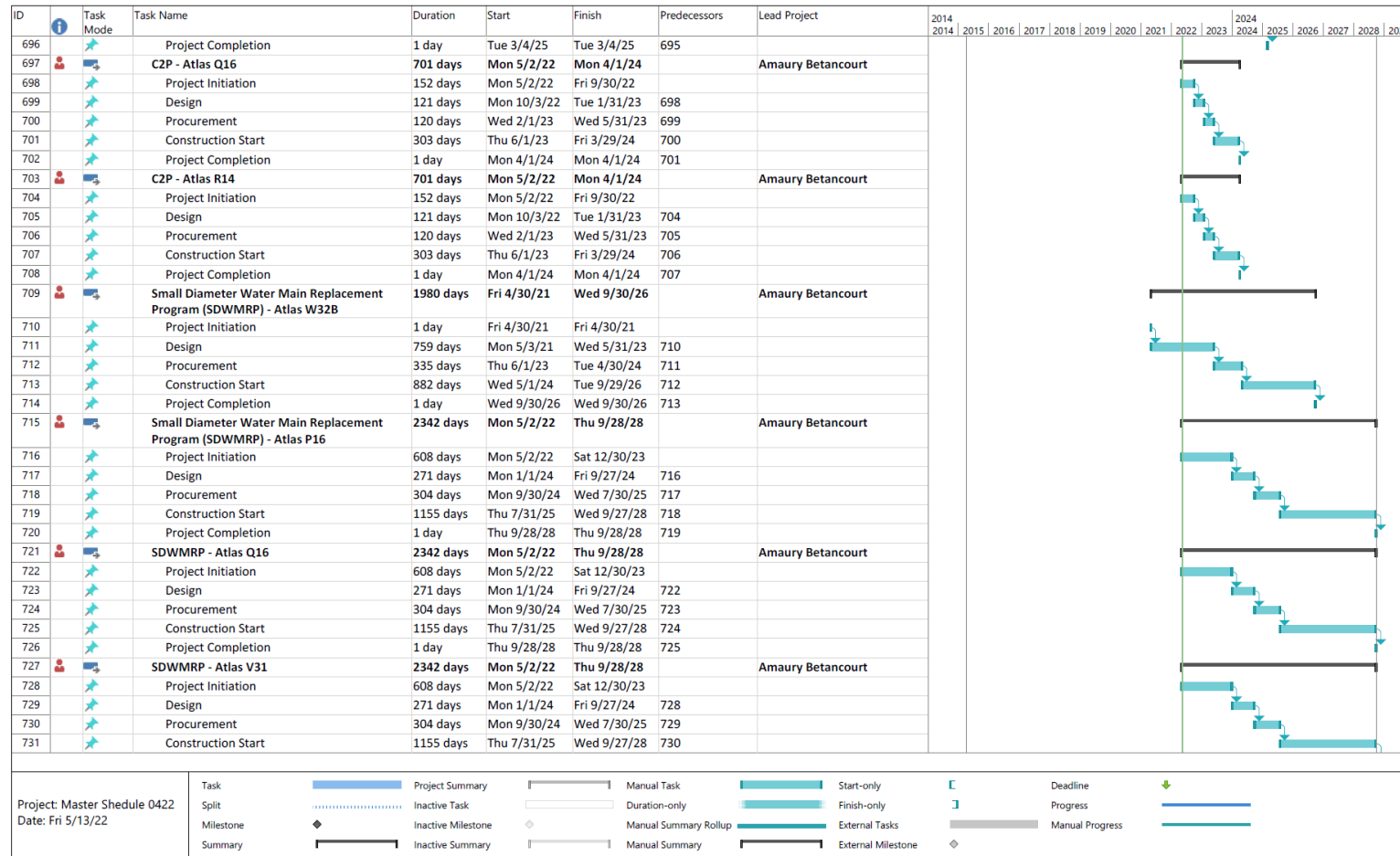
**Total Engineering Firms: 44**

**Total of Local Small Business Engineering Firms: 27**





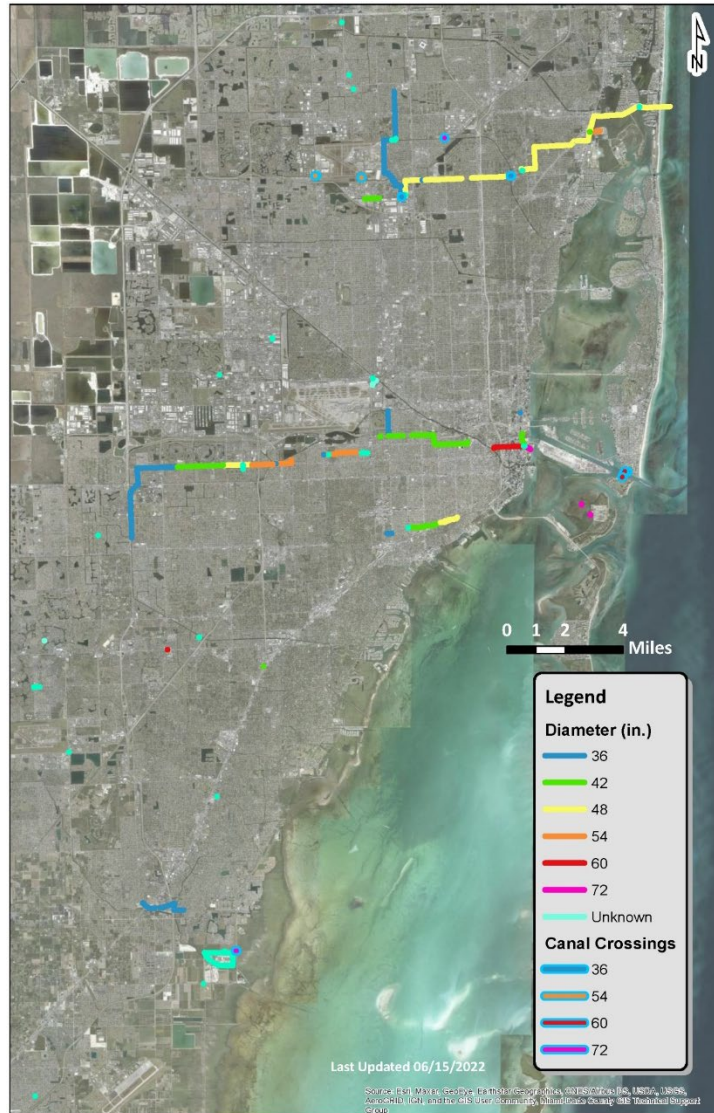
# Online Resources



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# Large Diameter FM R&R

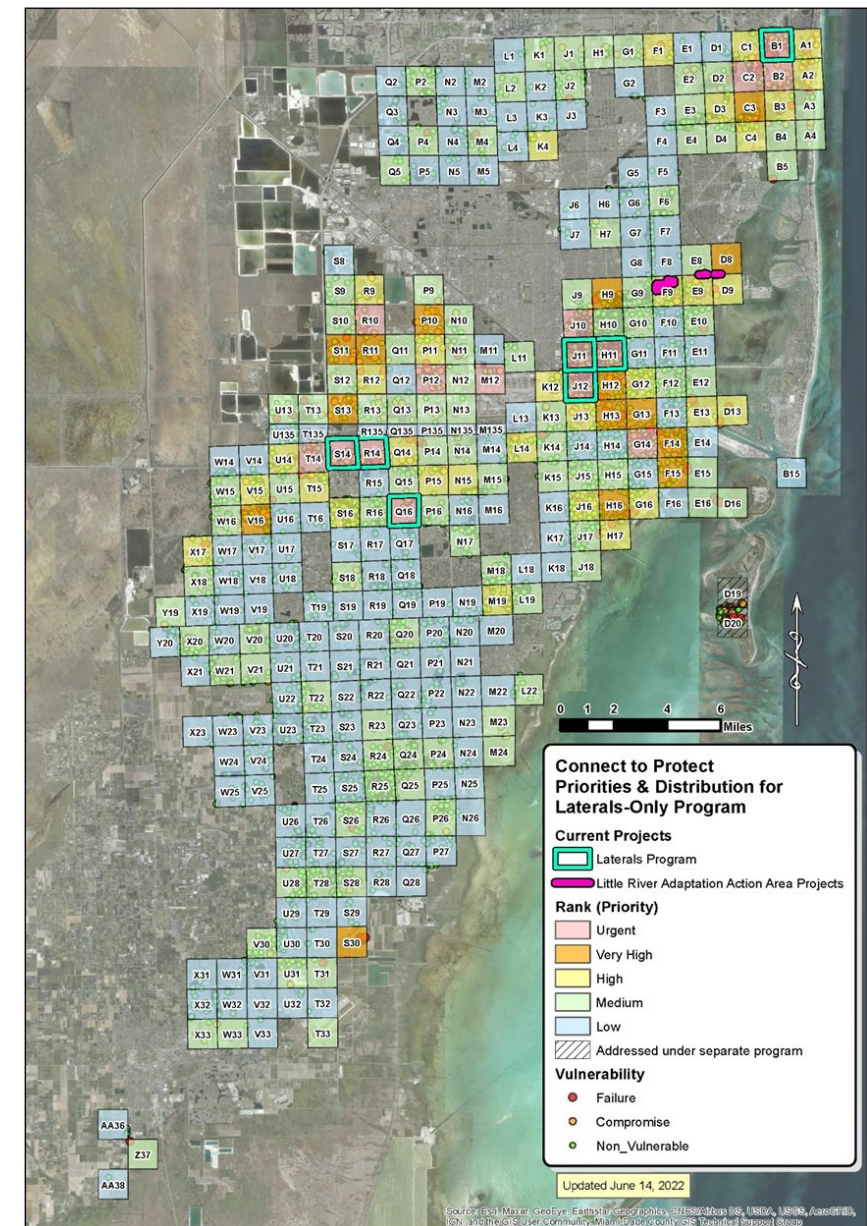


Force Mains (on land)			Canal Crossings		
Diameter	Total Length (LF)	Cost (\$)	Diameter	Total Length (LF)	Cost (\$)
36"	52,775	\$48,000,000	36"	246	\$1,000,000
42"	36,968	\$42,000,000	42"	-	-
48"	62,953	\$87,000,000	48"	-	-
54"	16,430	\$28,000,000	54"	228	\$1,000,000
60"	4,251	\$9,000,000	60"	1,537	\$4,000,000
66"	-	-	66"	-	-
72"	2,273	\$7,000,000	72"	234	\$1,000,000
78"	-	-	78"	-	-
84"	-	-	84"	-	-
96"	-	-	96"	-	-
Unknown	1,080	-	Unknown	-	-
<b>TOTALS</b>	<b>176,730</b>	<b>\$221,000,000</b>	<b>TOTALS</b>	<b>2,245</b>	<b>\$7,000,000</b>



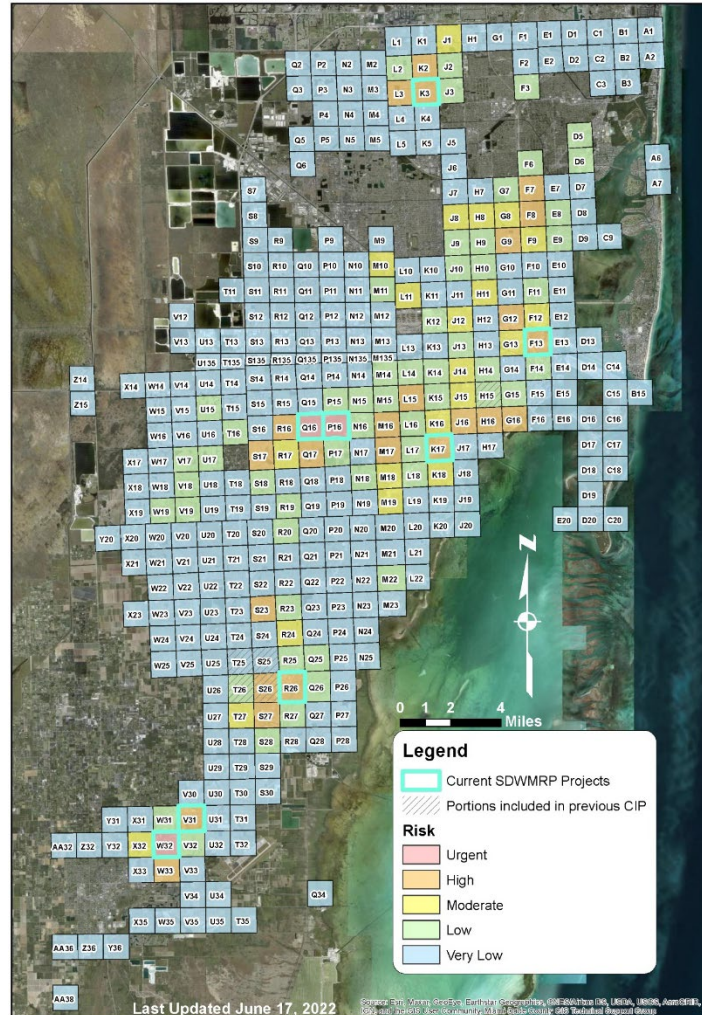
# CONNECT<sup>2</sup> PROTECT

Atlas	Estimated quantity of septic systems (SS)	Complete pre-design	Complete design	Complete construction
D8/E8	38	Complete	Complete	November 2022
J11	446	September 2022	May 2024	February 2026
B1	70	October 2022	June 2023	February 2024
S14	115	October 2022	July 2023	May 2024
H11	360	October 2022	March 2024	September 2025
J12	190	October 2022	October 2023	October 2024
Q16	44	October 2022	May 2023	December 2023
R14	55	September 2022	April 2023	December 2023
C2	58	February 2024	September 2024	May 2025
M12	32	January 2023	August 2023	February 2024
T14	34	January 2023	August 2023	March 2024
P12	24	January 2023	July 2023	February 2024
J10	499	April 2023	February 2025	December 2026
H9	90	March 2023	November 2023	August 2024





# Small Water Main Replacement



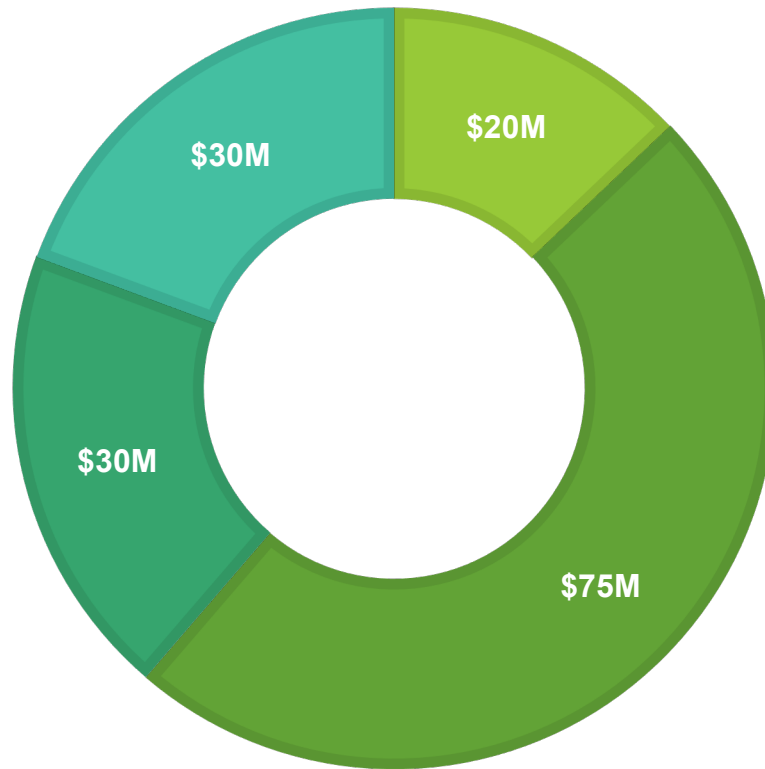
Atlas	Estimated linear footage of water main to be replaced	Complete pre-design	Complete design	Complete construction
W32	102,053	Complete	- August 2024 (W32A&B) - February 2025 (W32C&D)	- February 2026 (W32A&B) - August 2026 (W32C&D)
P16	104,776	October 2022	February 2025	November 2026
Q16	94,096	November 2022	March 2025	December 2026
V31	30,678	October 2022	February 2025	November 2026
K3	91,193	October 2022	February 2025	November 2026
F13	67,257	November 2022	March 2025	December 2026
R26	73,519	October 2022	February 2025	November 2026
K17	71,448	October 2022	February 2025	November 2026
H16	108,681	February 2023	June 2025	March 2027
M16	94,910	February 2023	June 2025	March 2027
Q17	101,578	February 2023	June 2025	March 2027
F7	77,323	March 2023	July 2025	April 2027
G12	62,447	March 2023	July 2025	April 2027
S26	58,851	March 2023	July 2025	April 2027
F8	85,849	March 2023	July 2025	April 2027





# A&E Contracts

■ Grants ■ Dist. & Collection ■ Water Plants ■ WW Plants



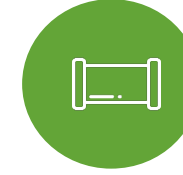
## Grant Funded Projects

Design Services for the Water and Wastewater Plants (Grants)

- One Contract - \$10 Million

Design Services for the Distribution & Collection System (Grants)

- One Contract - \$10 Million



## Distribution & Collection System

- Five Set Aside SBE Contracts - \$3 Million each
- Ten Contracts - \$6 Million each



## Water Plants

- Three Contracts - \$10 Million each



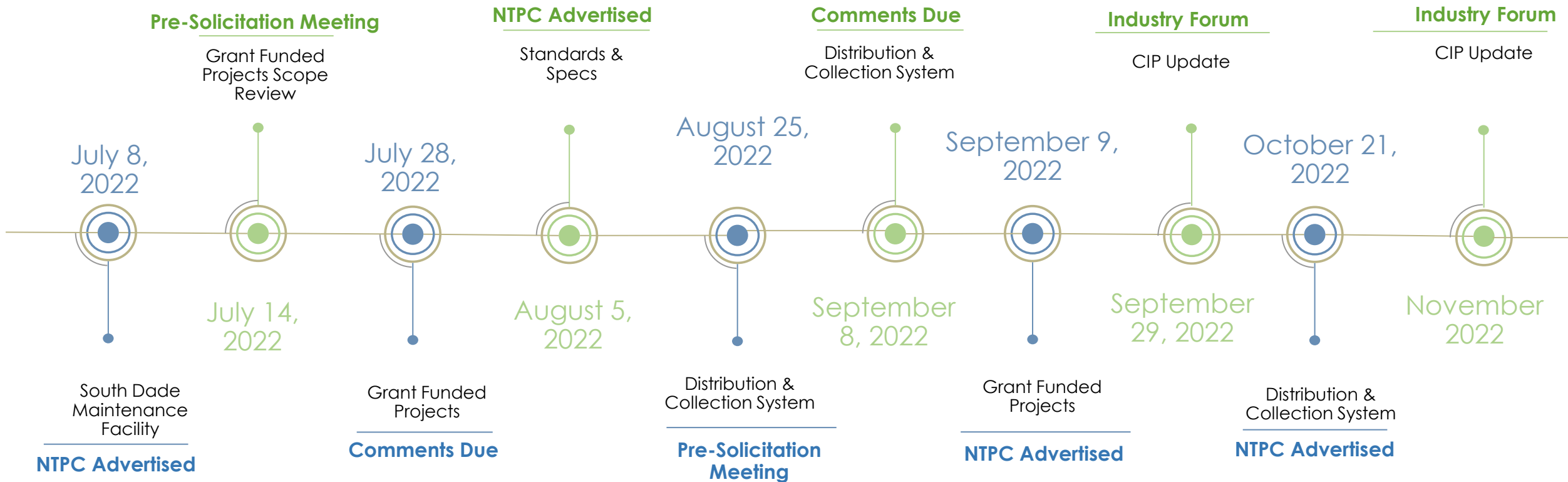
## Wastewater Plants

- Three Contracts - \$10 Million each

\*Contingent on BCC Budget Approval



# Important Dates



# Agenda for Next Meeting

- ✓ FY 21-22 Year End Report
- ✓ FY 22-23 Goals
- ✓ Water Reset Work Plan
- ✓ Advanced Metering Infrastructure
- ✓ Updated Schedule of Solicitations
- ✓ Update on Program Work Plans
- ✓ Update on Infrastructure Investment



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