



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors**

*Meeting of the
Environmental Quality and Operations Committee*

*5000 Overlook Avenue, SW, Room 407
Thursday, January 18, 2018
9:30 a.m.*

- | | | |
|-------------------|---|-------------------------------|
| | I. Call to Order | James Patteson
Chairperson |
| 9:30 a.m. | II. FY 2018 – 2027 Capital Budget | Leonard Benson |
| 11:00 a.m. | III. Action Item | Leonard Benson |
| | 1. FY 2018 – FY 2027 Proposed Capital Improvement Program (10 – Year Disbursement Plan and Lifetime Budget) | |
| 11:10 a.m. | IV. Action Items | John Bosley/Leonard Benson |

Joint Use

1. [Contract No. 16-PR-HCM-44 – MB Staffing, LLC Temporary Personnel Staffing](#)
2. [Contract No. 17-PR-DOS-38 – Allied Universal Security Services, Protective Services](#)
3. [Contract No. 17-PR-DMS-40 – M.C. Dean, Inc., Annual Maintenance and Repair of Industrial Electrical Control Equipment & Other Systems](#)
4. [Contract No. 140080 - Capitol Paving of DC, Inc., Public Space Restoration Contract FY15 – FY17](#)
5. [Contract No. DCFA #487-WSA – EPC Consultants, Inc., Division J – Northeast Boundary Tunnel](#)
6. [Contract No. DCFA #431 – SAMAHA Associates PC, Basic Ordering Agreement – Architectural and Related Services for Facilities](#)

Non Joint Use

1. [Contract No. 17-PR-CCO-07 – Mueller Systems, 1.5-Inch & 2-Inch Positive Displacement Meters](#)
- | | | |
|-------------------|--|----------------|
| 11:20 a.m. | V. Other Business/Emerging Issues | |
| 11:25 a.m. | VI. Executive Session* | |
| 11:30 a.m. | VII. Adjournment | James Patteson |

Chairperson

* The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

Follow-up Items from Prior Meetings:

1. Manager, Program Services: Provide updates regarding change order rates and general contract management performance as part of the next CIP quarterly update. **[Target: Feb 2018 EQ&Ops Cmte Mtg, CIP Quarterly Update]**
2. AGM, Wastewater Treatment, DC Water: Provide a status update to the Committee regarding settlement & reconciliation discussions between DC Water and Pepco Energy Services (PES). **[On-Going. An update will be provided on a monthly basis]**
3. AGM, Wastewater Treatment, DC Water: Provide update of research activities regarding trends and technologies that optimize treatment process capacity and facilitate energy neutral operations. **[Target: April 2018 EQ&Ops Cmte Mtg]**
4. General Counsel, DC Water: Provide update to the Committee regarding what the regulatory and reporting requirements would be in a scenario where unpermitted CSOs (due to completion & commissioning of the tunnel project) took place because of lack of operational readiness. **[Target: February 2018 EQ&Ops Cmte Mtg]**
5. Board Secretary, Arrange a tour of security facilities and command center for Committee members. **[Tour scheduled for March 2018 EQ&Ops Cmte Mtg]**
6. The IMA Regional Committee (RC) brief the EQ & Ops Cmte on the work of the IMA RC **[Target: March 2018 EQ&Ops Cmte Mtg]**
7. Chief Engineer, DC Water: Provide update on flood vulnerability and protection of Blue Plains and other critical DC Water facilities. **[Target: Feb 2018 EQ&Ops Cmte Mtg]**
8. Chief Engineer, DC Water: Provide update on flood vulnerability and protection of Blue Plains and other critical DC Water facilities. **[Target: March 2018 EQ&Ops Cmte Mtg]**
9. General Manager, DC Water: Schedule meeting with the Retail Rates Committee to discuss potential modifications to the Water Service Replacement Fee structure. **[TBD]**



MEETING OF THE
ENVIRONMENTAL QUALITY AND OPERATIONS COMMITTEE
COMMITTEE CHAIR – JAMES PATTESON

CAPITAL IMPROVEMENT PROGRAM January 18th 2018

District of Columbia Water and Sewer Authority



Optimization, Accountability, and Transparency



Agenda

- I. Budget Adoption Calendar
- II. Summary of Responses to BOD Questions
- III. Overview of CIP Recommendations
- IV. Recent Past & Current 'Baseline' Funding by Service Area
- V. Asset Management Overview
- VI. Challenges of Fiscal Constraints
- VII. Asset Management of Linear Assets
- VIII. Service Life Expectancies & Projected Renewal Requirements
- IX. AWWA & ASCE Findings
- X. CIP Development
- XI. Proposed Asset Management CIP
- XII. Impact of Revenue Requirements on Rates
- XIII. Committee Recommendations & Actions



I - Budget Adoption Calendar

💧 Board Member Questions & Follow Up

- Submit budget-related questions to Board Secretary
- Board Secretary will distribute questions to appropriate staff

💧 Wholesale Customer Briefing – **held January 5**

💧 Committee Reviews, Recommendations & Actions – **January**

- Environmental Quality & Operations – **January 18**
- Finance & Budget – **January 23**
- DC Retail Water & Sewer Rates – **January 23**

💧 Board Action – **February 1**



II – Summary of Responses to BOD Questions

- Answers to specific questions received were mailed out – Any clarifications needed at this point -
- Answer to the general question regarding the level of funding to reduce systemic risks (asset management principle based).



III - Overview of CIP Recommendations

a) 10-Year CIP: Developed within last years budget guidelines and constraints (the BASELINE budget)

Service Area (\$000's)	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	10-Yr Total	Last Year's CIP	(Increase) / Decrease
Non Process Facilities	\$ 32,194	\$ 33,107	\$ 18,907	\$ 7,860	\$ 1,551	\$ 25	\$ 6,615	\$ 7,773	-	-	\$ 108,032	\$ 85,486	\$ (22,545)
Wastewater Treatment	95,485	74,617	77,853	87,960	89,820	69,560	51,607	62,172	117,623	129,252	855,948	844,706	(11,242)
DC Clean Rivers Project	168,314	189,392	148,042	138,289	192,859	151,111	59,569	50,018	128,404	87,197	1,313,196	1,222,320	(90,876)
Combined Sewer Overflow	13,502	10,951	12,511	9,831	10,227	13,397	20,124	15,593	7,393	5,622	119,151	117,826	(1,325)
Stormwater	945	4,909	2,400	2,312	5,839	1,212	1,784	1,642	1,276	2,133	24,452	23,055	(1,397)
Sanitary Sewer	29,802	32,947	34,046	53,050	74,492	73,917	75,912	58,882	60,769	38,672	532,490	513,517	(18,973)
Water	58,044	45,747	84,256	62,341	48,241	53,471	88,055	99,661	101,344	89,510	730,672	639,387	(91,285)
CAPITAL PROJECTS	398,285	391,670	378,015	361,644	423,029	362,694	303,666	295,742	416,809	352,386	3,683,941	3,446,297	(237,644)
Capital Equipment	39,898	34,518	29,383	27,998	9,579	10,306	10,850	11,177	12,122	12,303	198,133	193,119	(5,014)
Washington Aqueduct	11,768	12,930	12,944	13,039	13,039	12,312	11,768	11,441	10,496	10,315	120,052	112,207	(7,845)
ADDITIONAL CAPITAL PROGRAMS	51,665	47,448	42,327	41,037	22,618	22,618	22,618	22,618	22,618	22,618	318,185	305,326	(12,859)
TOTAL CIP	\$449,950	\$439,118	\$420,342	\$402,681	\$445,647	\$385,312	\$326,284	\$318,360	\$439,427	\$375,004	\$4,002,125	3,751,623	(250,503)
Last Year's CIP	387,306	394,843	427,208	378,542	335,725	321,367	315,467	302,588	381,579		3,751,623		
(Increase) / Decrease	(62,644)	(44,274)	6,865	(24,139)	(109,923)	(63,945)	(10,817)	(15,772)	(57,849)	(375,004)	(250,503)		



III - Overview of CIP Recommendations

b) Asset Management Level Recommended Funding (AM Ramp-up)

Service Area (\$000's)	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	10-yr Total
Non-Process Facilities	32,194	33,107	18,907	7,860	1,551	25	6,615	7,773	0	0	108,032
Wastewater Treatment	95,485	74,617	77,853	94,301	104,728	90,636	86,767	117,352	157,870	145,528	1,045,135
DC Clean Rivers Project	168,314	189,392	148,042	138,289	192,859	151,111	66,536	56,381	146,727	99,067	1,356,719
Combined Sewer Overflow	13,502	10,951	12,511	20,262	26,590	27,813	26,486	24,457	21,798	21,798	206,168
Stormwater	945	4,909	2,400	6,858	9,546	11,489	11,816	11,721	12,006	12,210	83,898
Sanitary Sewer	29,802	32,947	34,046	85,811	116,478	142,718	145,436	115,238	110,489	99,957	912,921
Water	58,044	45,747	84,256	92,392	110,939	121,149	150,640	140,445	141,230	141,003	1,085,845
Capital Projects	398,285	391,670	378,015	445,773	562,690	544,941	494,295	473,367	590,119	519,564	4,798,719

c) Alternative Option providing approx. \$80M per year (average) above current proposed baseline CIP (Constrained Plan)

Service Area (\$000's)	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	10-yr Total
Non-Process Facilities	32,194	33,107	18,907	7,860	1,551	25	6,615	7,773	0	0	108,032
Wastewater Treatment	95,485	74,617	77,853	94,301	104,728	90,636	86,767	117,352	157,870	145,528	1,045,135
DC Clean Rivers Project	168,314	189,392	148,042	138,289	192,859	151,111	66,536	56,381	146,727	99,067	1,356,719
Combined Sewer Overflow	13,502	10,951	12,511	20,262	26,590	27,813	26,486	24,457	21,798	21,798	206,168
Stormwater	945	4,909	2,400	6,858	9,546	11,489	11,816	11,721	12,006	12,210	83,898
Sanitary Sewer	29,802	32,947	34,046	60,123	64,397	69,072	67,420	66,553	63,214	62,139	549,711
Water	58,044	45,747	84,256	87,555	97,791	103,823	115,717	100,622	99,841	100,023	893,419
Capital Projects	398,285	391,670	378,015	415,248	497,461	453,969	381,356	384,859	501,455	440,764	4,243,083



IV - Recent Past & Current 'Baseline' Funding by Service Area

- 💧 DC Clean Rivers: Fully funded to meet Consent Decree
- 💧 Wastewater: Generally funded to meet NPDES Permit and established levels of service
- 💧 Water:
 - Pumping stations, storage facilities generally funded to current service levels
 - Small Diameter Water Main Replacement program generally funded to meet 1% replacement/rehab goal
 - Large diameter generally funded
- 💧 Sewer:
 - Substantially underfunded, particularly for rehabilitation of sewer lines
 - Pump stations are underfunded
- 💧 Non-Process: Fully funded for HQ, Fleet and Sewer Operations Facilities

Note: Refer to Jan 4th Budget Workshop slides 16-17 “Deferred and Underfunded Projects”



V - Asset Management Overview

DEFINE

💧 The Facility Plan (FP):

- Defines long term capital needs
- Considers condition and anticipated service life
- Incorporates feedback from key stakeholders including Operations & Maintenance

PRIORITIZE

💧 The Asset Management Plan (AMP):

- Incorporates input from key stakeholders to define risk in accordance with Asset Management principles and DC Water criteria
- Validates and informs the prioritization of capital improvements

DELIVER

💧 Capital Improvement Plan (CIP):

- Defines project scope, schedule, and delivery approach
- Establishes lifetime budgets and forecasted spending to meet financial limits
- Updated annually to reflect performance and/or changes to needs and priorities



VI - Challenges of Fiscal Constraints

- Project & Program needs defined by the Asset Management process are essential and do not go away
 - Projects are deferred, delayed or phased to meet fiscal constraints

- When capital improvements are deferred, delayed or phased
 - Risk exposure increases
 - Permit Compliance
 - Health and Safety
 - System Reliability
 - Public Confidence/DC Water Reputation

 - Cost increases
 - Likelihood of emergency repairs
 - Operations & Maintenance
 - Escalation over time



VII - Asset Management of Linear Assets

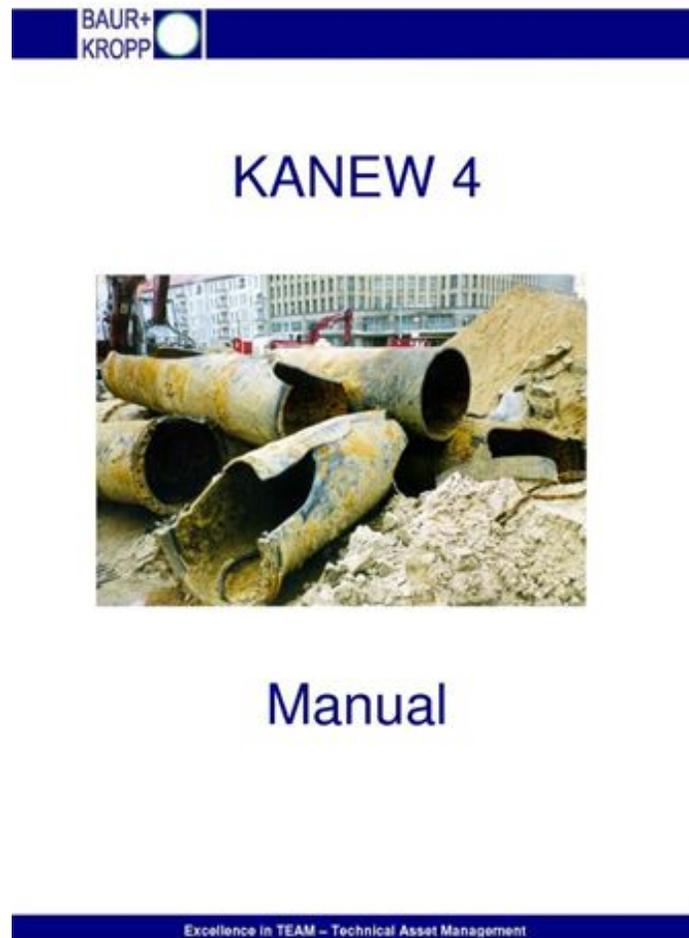
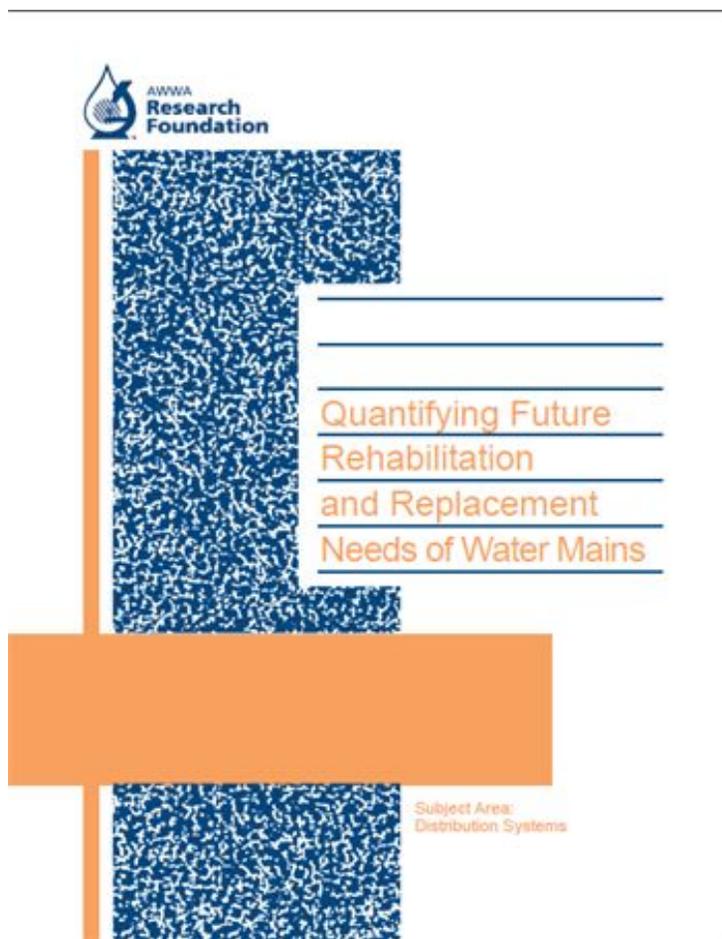
- Goal: Achieve a balance between asset age and remaining useful life
- Asset age \ll residual service life = new system or extensive investment into system
- Asset age \gg residual service life = old system and under investment into system
 - System will reach the end of its service life soon
 - High investments required in the future
- “Sweet Spot” : Asset Age = Residual Service Life
 - Target value: residual service life 40-60% of asset age
 - Continuous and adequate asset renewal per model \Rightarrow 50%



KANEW Modeling of DC Water Water and Sewer Systems

Developed by Water Research Foundation

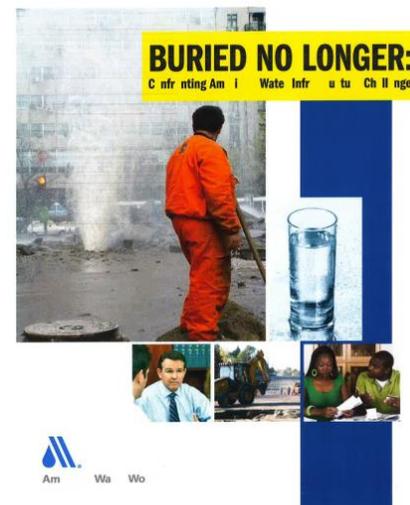
Licensed by 3S Consult, Germany





KANEW Modeling - Overview

- Long range / strategic renewal planning of water and sewer mains
- System-wide model that predicts renewal rates and schedules for different pipe cohorts (types)
- Uses anticipated life expectancies and age distribution of pipes to calculate the annual length of renewal required
- Determination of service lives
 - AWWA Buried No Longer (water only)
 - DC Water experience and data
 - Asset Management experts

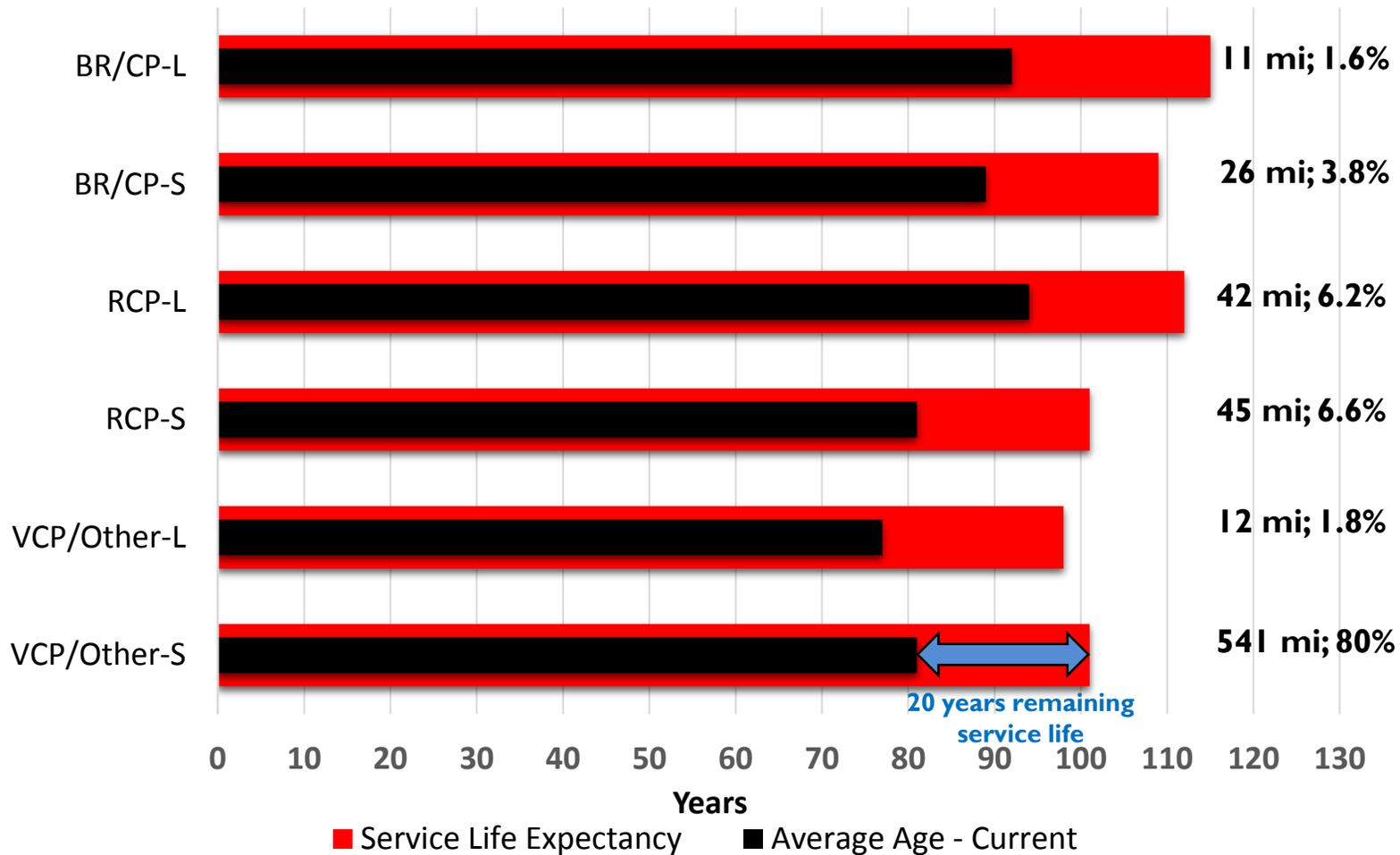




VIII - Service Life Expectancies & Projected Renewal Requirements

Average Age and Service Life Expectancies by Sanitary Sewer Cohort Type - FY2018

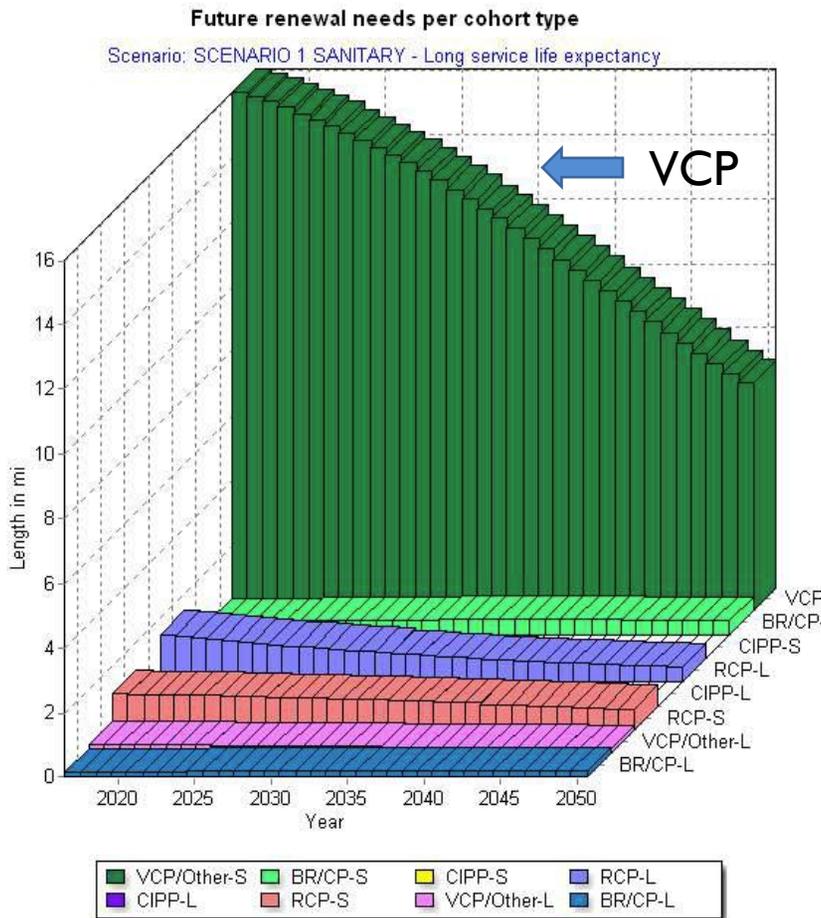
Average Age: 82 years





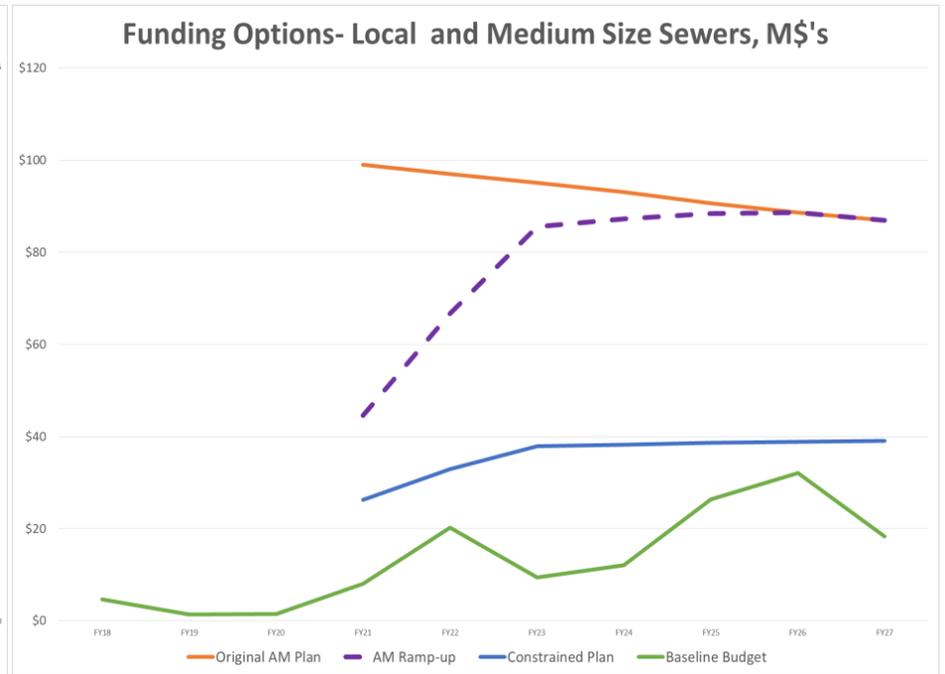
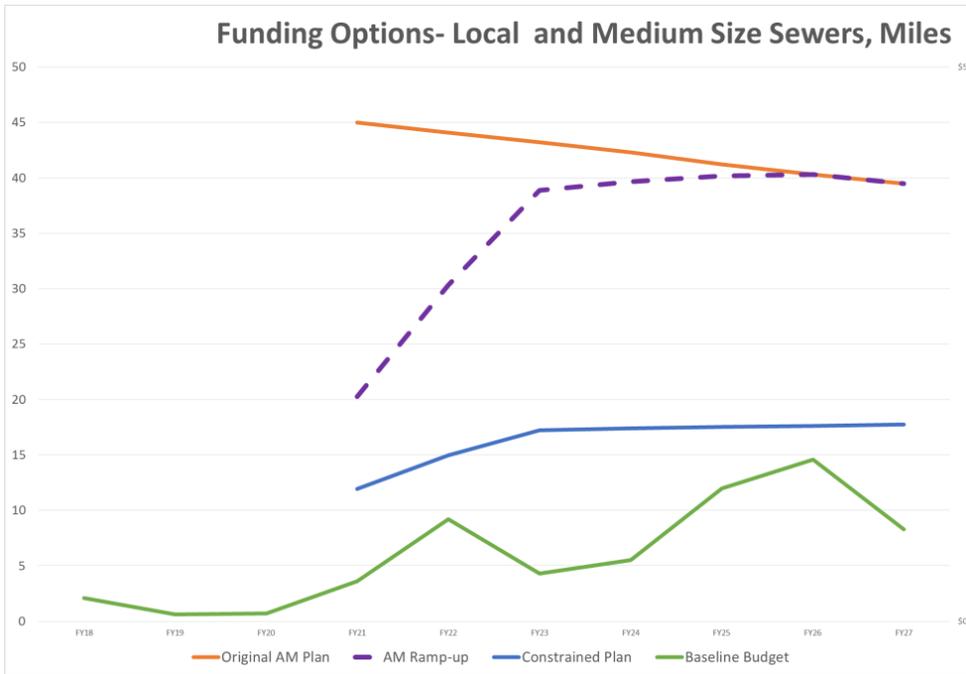
VIII - Projected Renewal Requirements

Sanitary Sewer





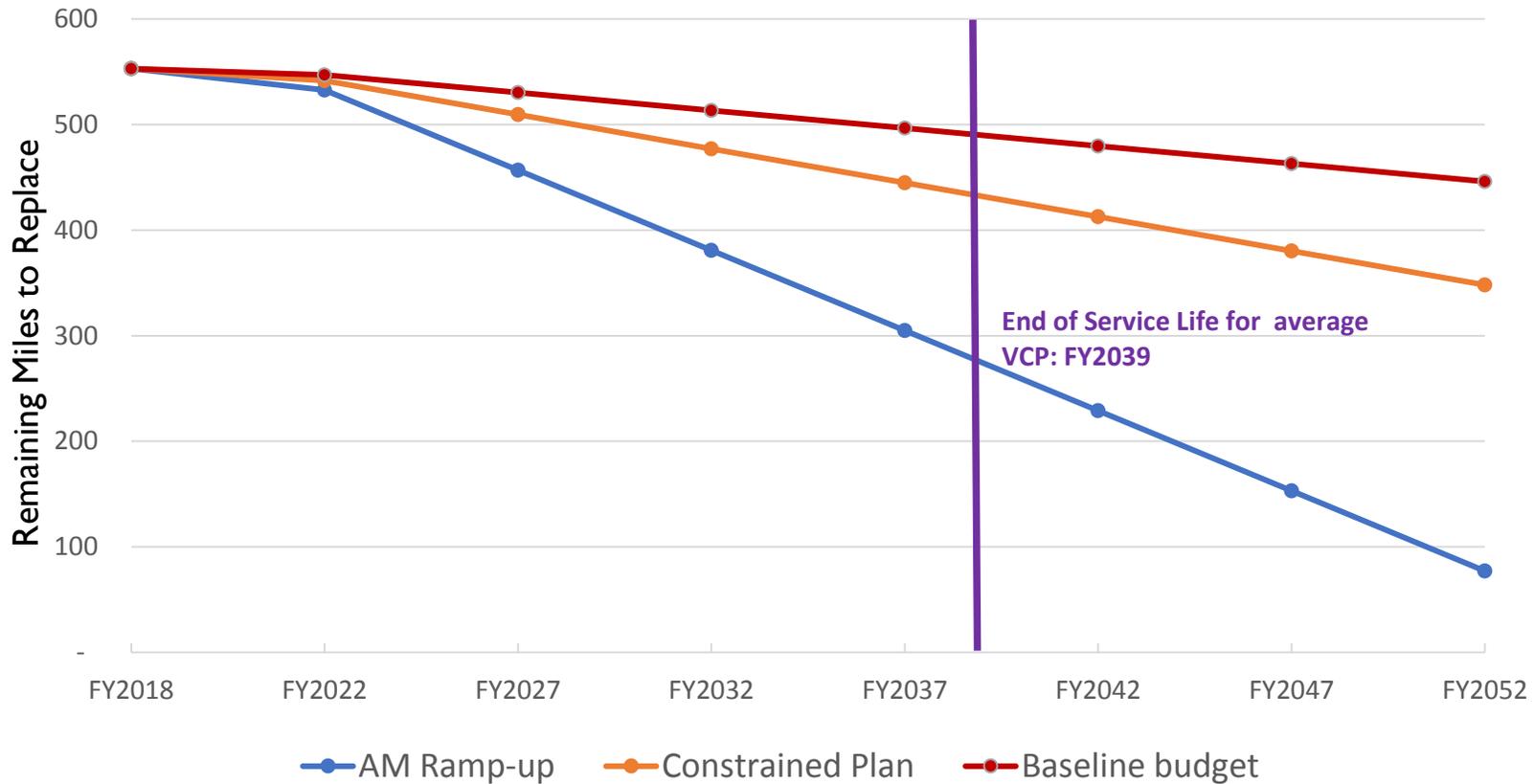
Sanitary Sewer Renewal Funding Options





Average Age and Service Life Expectancies Vitrified Clay Pipes

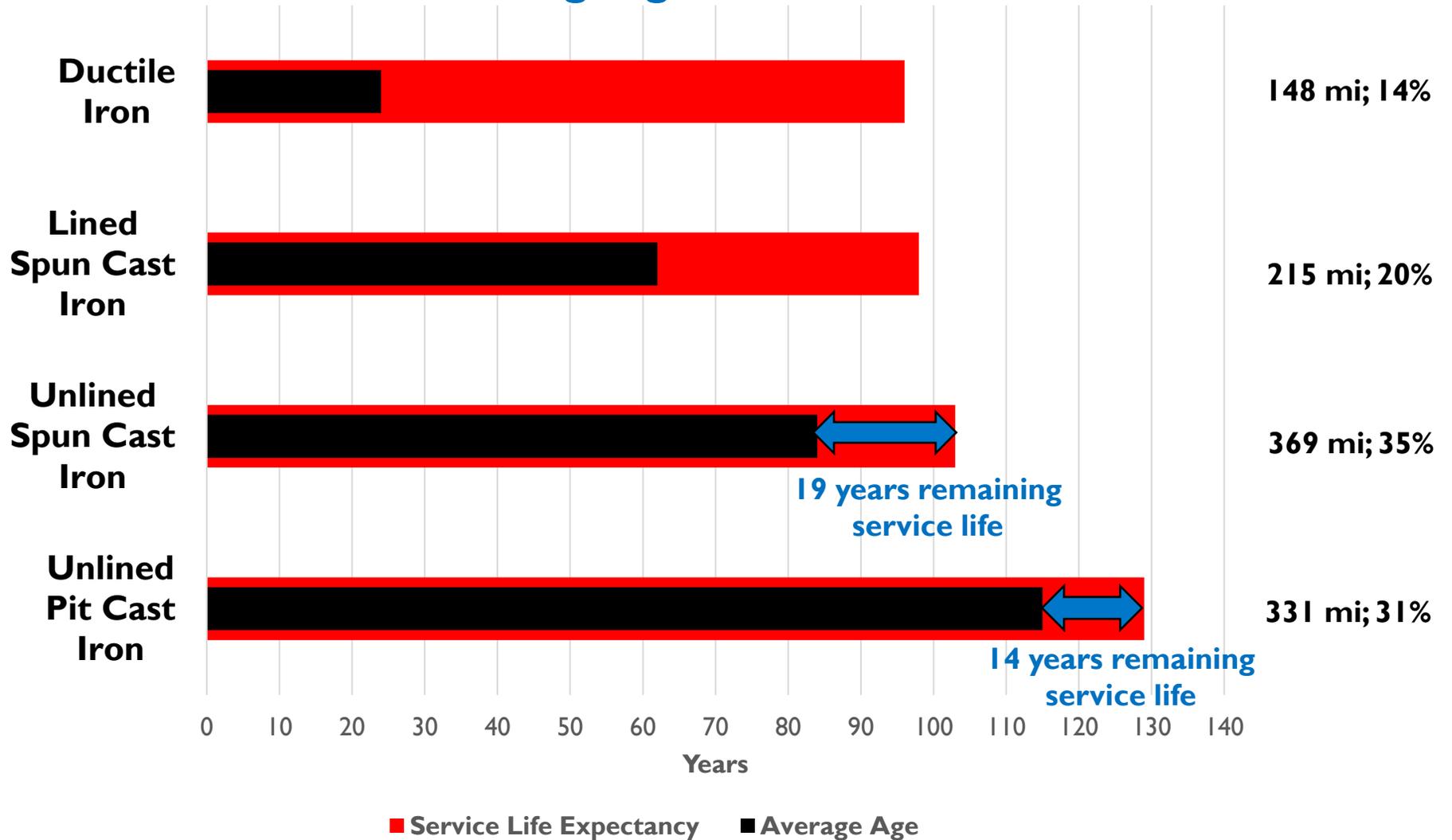
Vitrified Clay Pipes, miles
Expected Service Life: 100 Years
Current Average Age: 79 years





Average age and service life expectancies by SDWM cohort type - 2018

Current Status
Average age 81 Years



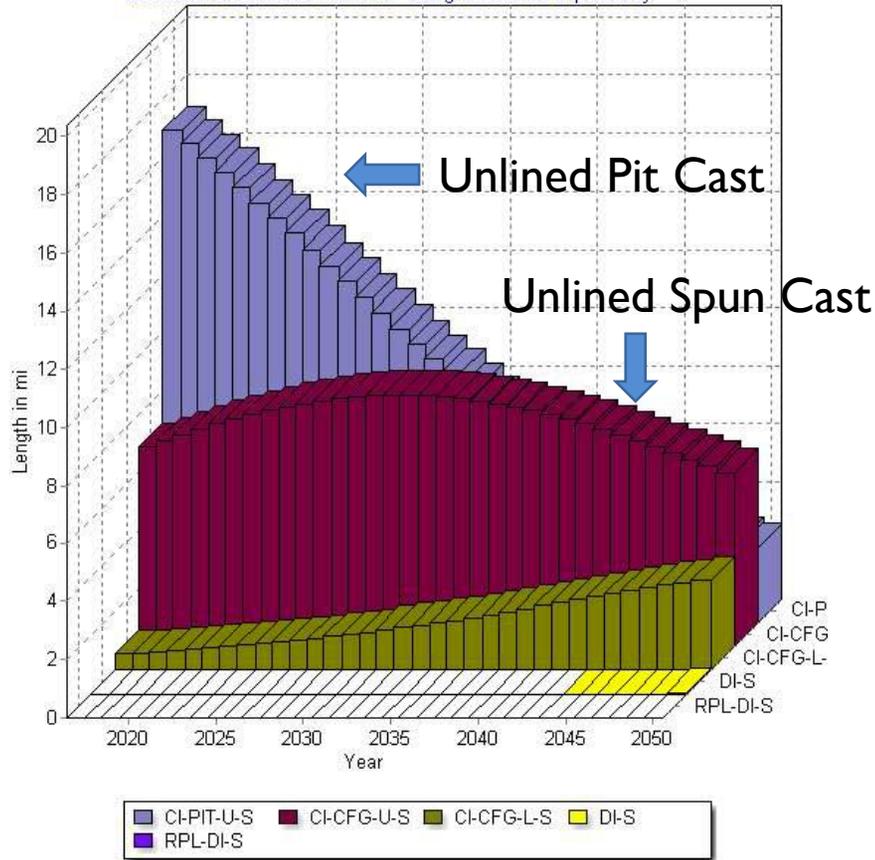


Projected Renewal Requirements - SDWM

Small Diameter Water

Future renewal needs per cohort type

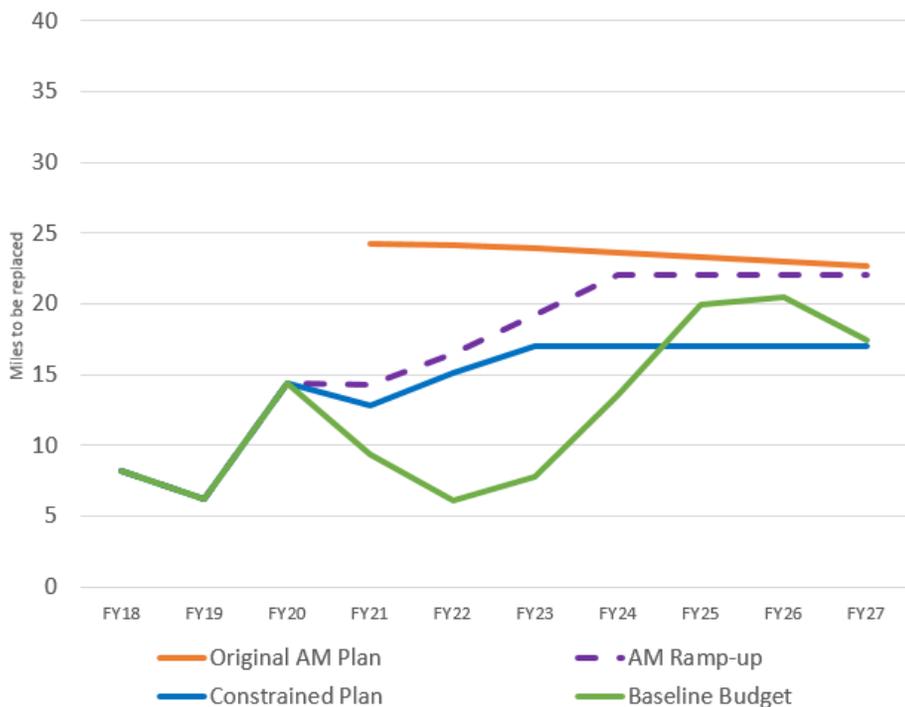
Scenario: SCENARIO 1-SMALL - Long service life expectancy



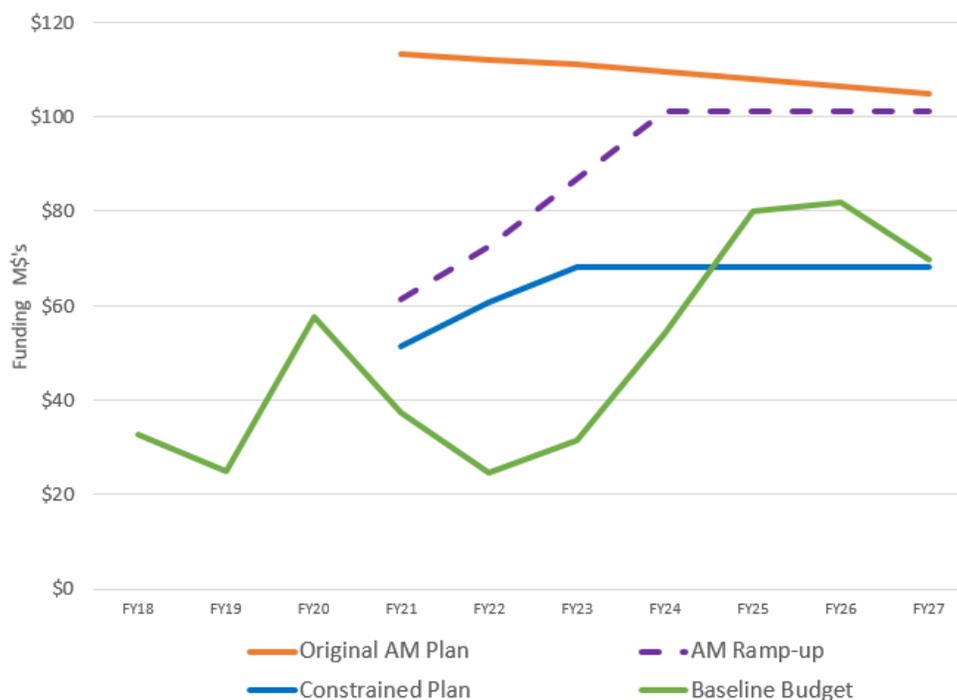


SDWM Renewal Funding Options

Replacement Options - SDWMs



Funding Options - SDWMs



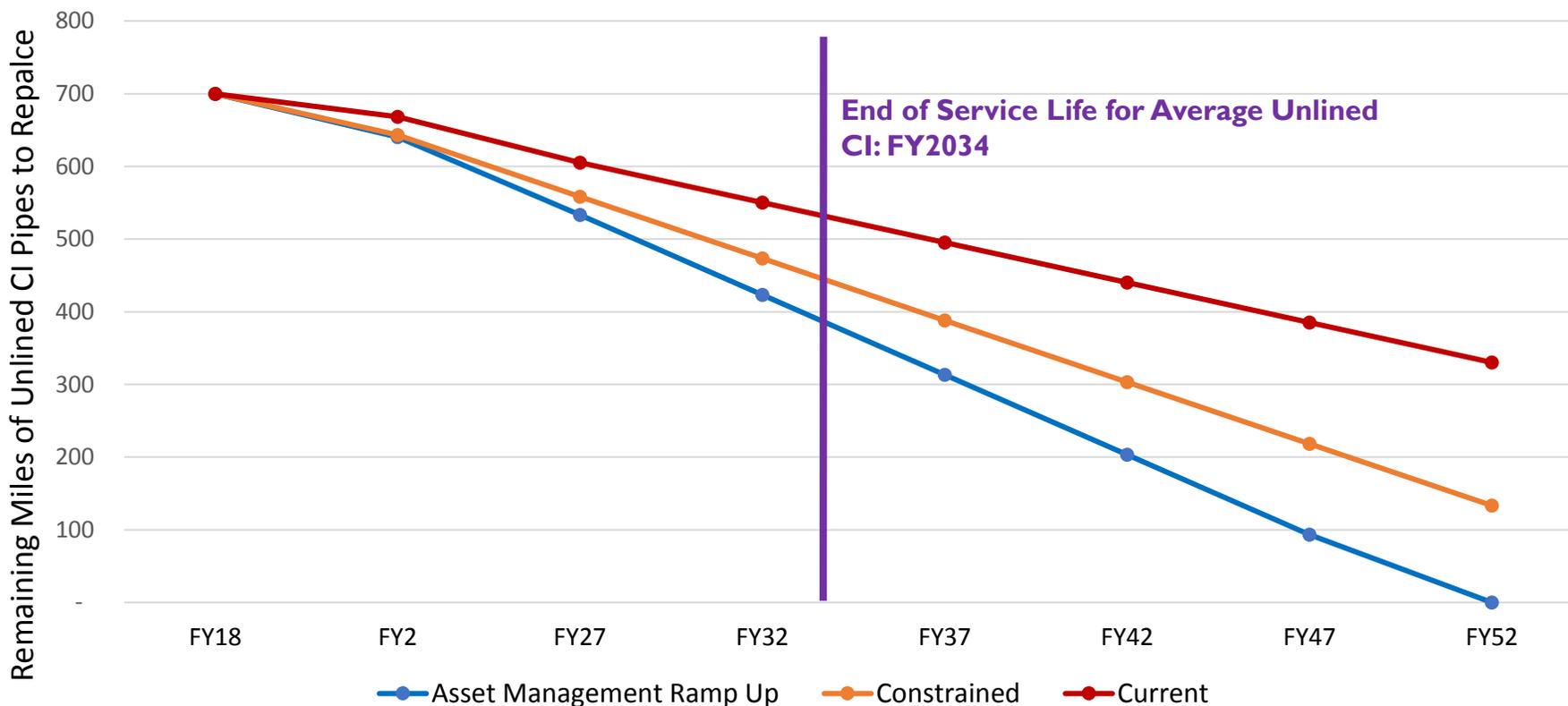


Unlined Cast Iron Replacement

Comparison of Three Funding Options

Expected Service Life: 115 years

Current Average Age: 99 years





IX - AWWA Buried No Longer 2012

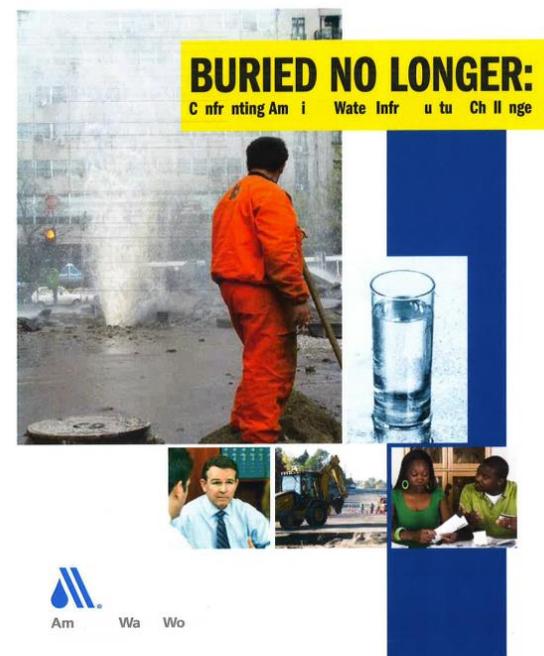
“Restoring existing water systems as they reach the end of their useful lives and expanding them to serve a growing population will cost at \$1 trillion over the next 25 years, if we are to maintain current levels of water service. Delaying the investment can result in degrading water service, increasing water service disruptions, and increasing expenditures for emergency repairs. Ultimately we will have to “catch up” with past deferred investments, and the more we delay the harder the job will be when the day of reckoning comes.”

Some Key Findings:

- “The Needs Are Large”
- “The Costs Keep Coming”
- “Postponing Investment Only Makes the Problem Worse”

Report link:

<http://www.awwa.org/portals/0/files/legreg/documents/buriednolonger.pdf>





ASCE 2016 DC Infrastructure Report Card

Drinking Water: C+

- “The system entails 1,350 miles of pipes, equivalent of driving from D.C. to Chicago and back. The pipes median age is 79 years, beyond the design lifespan of 50 years and 9% of pipes were installed during the period between the Civil War and the 1890’s.”
- “The District has 400 to 550 water main breaks per year, with 459 breaks in 2014. This averages out to 34 water main breaks per 100 miles of pipe annually, which is a higher rate relative to the American Water Works (AWWA) benchmark. The impact of breaks can be severely disruptive, resulting in road closures, down water service, and higher cost of repair.”

Wastewater: C+

- “D.C.’s wastewater system dates back to 1810 and includes 1,800 miles of sanitary and combined sewers – a longer distance than from D.C. to Denver.”
- “Continue to invest in the sanitary sewer system, including the collection system, sewer lines, and pumping facilities to ensure a reliable and modern system and reduce the risk of failures.”



Report link:

<https://www.infrastructurereportcard.org/state-item/district-of-columbia/>



X - CIP Development

Other Realities and Considerations:

- 💧 Permitting
- 💧 Contractor availability
- 💧 Market considerations
- 💧 In-house resources/capability
- 💧 Procurement / contracting
- 💧 MBE/WBE goals



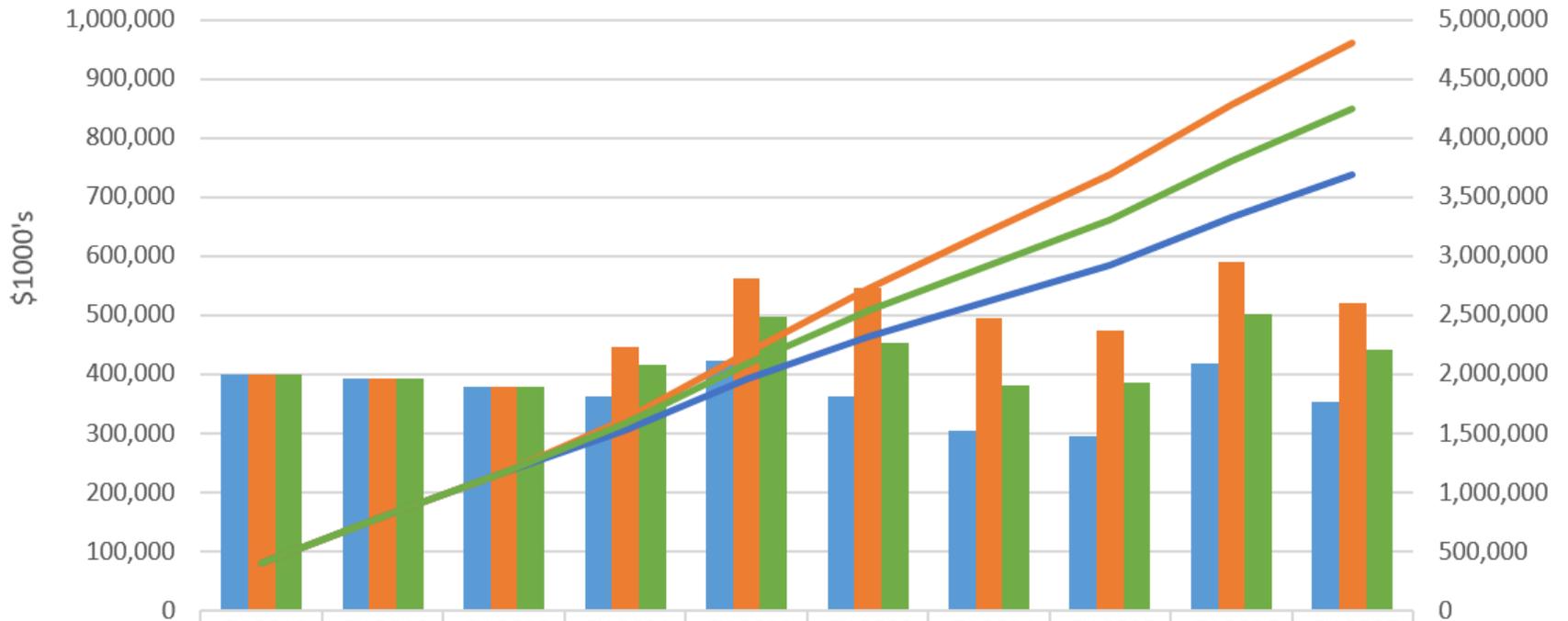
XI - Proposed Asset Management CIP

- 💧 DC Clean Rivers: Fully funded to meet Consent Decree
- 💧 Wastewater: Fully funded to meet NPDES Permit and established levels of service
- 💧 Water:
 - Pumping stations, storage facilities fully funded
 - Small Diameter Water Main Replacement program fully funded to ramp up to 2% asset management replacement level
 - Large diameter generally funded
- 💧 Sewer:
 - Sewer lines Replacement program fully funded to ramp up to 2.7% asset management replacement level
 - Pump stations fully funded
- 💧 Non-Process: Fully funded for HQ, Fleet and Sewer Operations Facilities



Funding Options for 10-yr CIP

Summary of 10-year CIP Plans Options



	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
A) Proposed Baseline CIP	398,285	391,670	378,015	361,644	423,029	362,694	303,666	295,742	416,809	352,386
B) AM Ramp-up	398,285	391,670	378,015	445,773	562,690	544,941	494,295	473,367	590,119	519,564
C) Constrained	398,285	391,670	378,015	415,248	497,461	453,969	381,356	384,859	501,455	440,764
A) Cumul. Prop. Baseline CIP	398,285	789,955	1,167,970	1,529,614	1,952,644	2,315,338	2,619,004	2,914,745	3,331,554	3,683,941
B) Cumul. AM Ramp-up	398,285	789,955	1,167,970	1,613,743	2,176,433	2,721,374	3,215,669	3,689,036	4,279,155	4,798,719
C) Cumul. Constrained	398,285	789,955	1,167,970	1,583,218	2,080,679	2,534,649	2,916,005	3,300,864	3,802,319	4,243,083



Comparative Scenarios & Customer Impacts

Baseline (Proposed)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Water & Sewer Rate (%)	5.0%	13.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
CRIAC (\$/ERU)	\$25.18	\$23.00	\$25.58	\$29.07	\$31.33	\$33.62	\$34.66	\$34.75	\$35.45	\$36.46
Avg. Customer Bill (\$)	\$102	\$108	\$114	\$121	\$127	\$134	\$139	\$143	\$149	\$154
Avg. Customer Bill (%)	6.2%	5.6%	5.6%	6.3%	5.0%	4.9%	3.9%	3.2%	3.7%	4.0%

Constrained \$4.2 Billion	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Water & Sewer Rate (%)	5.0%	13.0%	5.0%	5.5%	7.0%	6.5%	6.5%	6.5%	6.0%	5.5%
CRIAC (\$/ERU)	\$25.18	\$23.00	\$25.58	\$29.07	\$31.33	\$33.62	\$34.72	\$34.93	\$35.84	\$37.11
Avg. Customer Bill (\$)	\$102	\$108	\$114	\$122	\$129	\$137	\$144	\$150	\$157	\$164
Avg. Customer Bill (%)	6.2%	5.6%	5.6%	6.6%	6.3%	5.9%	5.0%	4.3%	4.5%	4.5%

Asset Management \$4.7 Billion	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Water & Sewer Rate (%)	5.0%	13.0%	5.0%	6.0%	8.0%	8.0%	8.5%	8.0%	7.0%	6.5%
CRIAC (\$/ERU)	\$25.18	\$23.00	\$25.58	\$29.07	\$31.33	\$33.62	\$34.72	\$34.93	\$35.84	\$37.11
Avg. Customer Bill (\$)	\$102	\$108	\$114	\$122	\$130	\$139	\$148	\$156	\$164	\$172
Avg. Customer Bill (%)	6.2%	5.6%	5.6%	6.9%	6.9%	6.8%	6.3%	5.3%	5.3%	5.2%



Next Steps



XIII - Committee Recommendations & Actions

	Environmental Quality & Operations Jan 18	Finance & Budget Jan 23	DC Retail Water & Sewer Rates Jan 23
Capital Budget - FY 2018 – FY 2027 Disbursements - Lifetime Project	Action Required	Action Required	
FY 2019 Operating Budget		Action Required	
Intent to Reimburse Capital Expenditures with Proceeds of a Borrowing		Action Required	
- FY 2019 & FY 2020 Rates, Fees and Revenues - FY 2018 – FY 2027 Financial Plan		Action Required	Action Required



Questions?

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

**Temporary Personnel Staffing
(Joint-Use)**

Approval to execute contract modification to add funding to the temporary staffing contract option year one in the amount of \$250,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: MB Staffing, LLC 819 7 th Street, NW Suite 311 Washington, DC 20001 LSBE	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$200,000.00
Original Contract Dates:	11-01-2016—10-31-2017
No. of Option Years in Contract:	4
Modification Value:	\$319,912.31
Modification Dates:	04-01-2017—10-31-2017
Option Year 1 Value:	\$400,000.00
Option Year 1 Dates:	11-01-2017—10-31-2018
This Modification Value:	\$250,000.00
This Modification Dates:	02-15-2018—10-31-2018

Purpose of the Contract:

To contract for temporary staffing services for DC Water Department of Human Capital Management. Departments submit their individual requests to procurement for temporary staffing services as their need arises. Currently, External Affairs, Permit Operations, Finance, Waste Water Treatment, Board of Directors, Fleet and Procurement are using the contract.

Reason for the Modification:

MB Staffing was awarded a contract for temporary staffing services after a competitive RFP process in 2016. Adding the funding to the contract will allow the continuation of its usage through the end of option year 1 by the respective departments listed in the table.

Department	Position
Waste Water Treatment	Office Assistant/Data Entry (4) – Operations Assistant (1)
Chief Finance Office	Staff Accountants (3)
Fleet/Procurement	CDL – Training – Water Works Program (21)

Procurement also negotiated additional 15% rate reduction, effective January 1, 2018.

Spending Previous Year:

Cumulative Contract Value:	11-01-2016 to 10-30-2018: \$919,912.31
Cumulative Contract Spending:	11-01-2016 to 12-31-2017: \$617,583.79

Contractor's Past Performance:

According to the COTR, the Contractor's timeliness of service, conformance to DC Water policies, Procedures and contract terms and invoicing meet expectations.

PROCUREMENT INFORMATION

Contract Type:	Firm Fixed	Award Based On:	Highest Rated
Commodity:	Services	Contract Number:	16-PR-HCM-44-AC
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION

Funding:	Operating	Department:	Human Capital Management
Service Area:	DC Water Wide	Department Head:	Roger E. Brown Jr.

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	83.65%	\$209,125.00
Washington Suburban Sanitary Commission	12.07%	\$30,175.00
Fairfax County	2.84%	\$7,100.00
Loudoun County	1.25%	\$3,125.00
Other (PI)	0.19 %	\$475.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$250,000.00


 _____ / 1.10.18
 Mustafaafa Dozier Date
 Chief of Staff


 _____ / 1/10/18
 Dan Bae Date
 Director of Procurement


 _____ / 1/11/2018
 Matthew T. Brown Date
 Chief Financial Officer,

 Henderson J. Brown IV Date
 Interim General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT AWARD
PROTECTIVE SERVICES
(Joint Use)**

Approval to execute a new contract award (base year) for protective services throughout all DC Water facilities in the amount of \$5,857,481.76.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Allied Universal Security Services 1551 N. Tustin Avenue Suite 650 Santa Ana, CA 92705	SUBS: Preeminent Protective Services, Inc. 1050 17 th Street, NW, Suite 600 Washington, DC 20036 LSBE	PARTICIPATION: 21.3%
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$5,857,481.76
Base Contract Period:	1 Year
No. of Option Years:	4
Anticipated Contract Start Date:	02-15-2018
Anticipated Base Period Completion Date:	02-14-2019
Proposals Received:	3
Proposal Price Range:	\$5,857,481.76 - \$7,427,433.00
Preference Points Received:	2.13

Purpose of the Contract:

The purpose of this contract is to provide protective services for DC Water.

Contract Scope:

The contract will provide highly trained and reliable commissioned Special Police Officers (SPOs) to safeguard DC Water's property and personnel, to prevent and deter unauthorized access or removal of property, and to assist DC Water in all other security related matters. This amount currently exceeds the budget available for this contract, and anticipated cost reductions in other line items will be used, as needed.

Supplier Selection:

Procurement advertised the event and also held an outreach event where 10 potential security service providers attended the event. 3 firms responded to the solicitation. The award recommendation is based on the overall highest rated offeror with the lowest price.

Firms	Evaluated ranking
Allied Universal Security Services	1
Security Assurance Management, Inc. (LSBE)	2
Metropolitan Protective Services (LSBE)	3

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

**Annual Maintenance and Repair of Industrial Electrical Control Equipment & Other Systems
(Joint Use)**

Approval to execute a contract with contract value of \$1,400,000.00 for the base year

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: M.C. Dean, Inc. 1765 Greensboro Station Place Tysons, VA 22102	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Year Contract Value:	\$1,400,000.00
Option Years:	2
Anticipated Contract Start Date:	03-01-2018
Anticipated Base Year End Date:	02-28-2019
Bid Opening Date:	07-17-2017
Bids Received:	1
Bid:	\$1,401,996.00
Preference Price Reduction Awarded	\$0.00

Purpose of the Contract:

The Department of Maintenance Services (DMS) has a need for a qualified contractor to maintain and repair all industrial electrical control equipment and associated systems located at DC Water Blue Plains facility.

Contract Scope:

DMS requires a qualified contractor to provide, as needed, one supervisor with a DC Master Electrical license and up to six technicians that are DC Journeyman licensed to perform maintenance and repair tasks on all assigned industrial electrical systems under the direction of DC Water's Contracting Officer's Technical Representative (COTR). Specific services provided include: supervision, labor, transportation, replacement parts, modifications, installation, and maintenance of industrial electrical equipment and other related equipment at various DC Water facilities including but not limited to motors, control panels, MCCs (motor control center) and VFDs (variable frequency drive).

The requested contract amount, \$1,400,000 is for the base year; the contract will be executed one year at a time with 2 option years and available funds will be released on an annual basis. The Department is in the process of improving internal capacity to reduce dependency on this contract through recruitment of qualified technicians, training, and licensing. This amount currently exceeds the budget available for this contract, and anticipated cost reduction in other budget line items will be used if the insourcing efforts are not realized fully within the contract years.

Supplier Selection:

DC Water contacted 26 potential contractors during the solicitation process. However, only M.C. Dean, Inc. was able to meet all requirements and is the only contractor who was able to respond to DC Water's solicitation. DC Water's Technical Evaluation Team rated M.C. Dean's proposal high and selected them for the new contract award. The newly negotiated labor rates will also generate approximately \$60,000 annual cost savings.

No LBE/LSBE participation.

PROCUREMENT INFORMATION

Contract Type:	Firm Fixed	Award Based On:	Highest Rated
Commodity:	Goods and Services	Contract Number:	17-PR-DMS-40
Contractor Market:	Open Market with Preference Points for Local and Small Businesses		

BUDGET INFORMATION

Funding:	Operating	Department:	Department of Maintenance Services
Service Area:	Blue Plains AWTP	Department Head:	Salil Kharkar

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.92%	\$586,880.00
Washington Suburban Sanitary Commission	43.33%	\$606,620.00
Fairfax County	9.81%	\$137,340.00
Loudoun County	4.29%	\$60,060.00
Other (PI)	0.65%	\$9,100.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,400,000.00

 / 01/09/18
 Aklile Tesfaye
 Assistant General Manager,
 Blue Plains
 Date

 / 1/9/18
 Dan Bae
 Director of Procurement
 Date

 / 1/9/18
 Matthew T. Brown
 Chief Financial Officer
 Date

_____/_____
 Henderson J. Brown, IV
 Interim General Manager
 Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**CONSTRUCTION CONTRACT CHANGE ORDER:
Public Space Restoration Contract FY15 – FY17
(Joint Use)**

Approval to execute Change Order No. 02 not to exceed \$2,500,000. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Capitol Paving of DC, Inc. 2211 Channing Street, NE Washington, DC 20018	No MBE contractors No WBE contractors	0.0% 0.0%

DESCRIPTION AND PURPOSE

Original Contract Value:		\$ 19,692,300.00
Value of this Change Order:		\$ 2,500,000.00
Cumulative CO Value, including this CO:		\$ 9,000,000.00
Current Contract Value, including this CO:		\$ 28,692,300.00
Original Contract Time:	1095 Days	(3 Years, 0 Months)
Time extension, this CO:	0 Days	
Total CO contract time extension:	0 Days	(0 Years, 0 Months)
Contract Start Date (NTP):	04-09-2015	
Anticipated Contract Completion Date:	04-08-2018	
Cumulative CO % of Original Contract:	46%	
Contract Completion %:	89%	

Purpose of the Contract:

Permanent restoration of paved and non-paved surfaces in public space after the completion of repair and replacement activities by the Department of Water Services and the Department of Sewer Services.

Original Contract Scope:

Repair and/or replacement of asphalt and concrete roadways, brick and concrete sidewalks, landscaped areas, and other miscellaneous repairs that result from excavations performed in public space.

Previous Change Order Scope

The contract had exhausted 80% of its budget during the first 18 months of this three-year contract hence a change order was required to provide additional funding in order to restore public space in conjunction with our operational activities. Over the past two years we have experienced a marked increase in spending in order to restore public space resulting from infrastructure failure in the water distribution and sewer collection systems. Numerous large main breaks resulted in extensive roadway reconstruction significantly increasing the restoration costs. Another factor contributing to increased restoration quantities was the increased scope of restoration for street cuts required by DDOT practices especially on moratorium streets.

Current Change Order Scope:

- The contract has currently exhausted 89% of the modified contract value with four months remaining in this three-year contract. The quantities, and therefore the costs, of restoration are highly variable in this contract. Large catastrophic main breaks can cause extensive damage to multiple blocks of streets leading to tremendous restoration costs. In order to be able to respond

to such occurrences, a change order is required to provide additional funding to meet the restoration requirements in the public space.

- The contract is used to undertake restoration of public space associated with repair activities of DC Water's existing underground assets. We continue to experience consistent increase in spending in order to restore public space resulting from infrastructure failure in the water distribution and collection system and lead service line replacements. During the current year, large main breaks as well as small diameter main replacement activities resulted in extensive roadway reconstruction significantly increasing restoration expenses. Some examples include roadway reconstruction at 4560 MacArthur BLVD NW, (total cost \$354,364), 16th St & Tuckerman St NW (total cost \$109,015), @Barry PL @Georgia Ave NW (Total Cost \$64,647.57), and @North Capitol St @Chillum PL BN (Total Cost \$64,946.91).
- DDOT practices continue to be a factor increasing restoration quantities thus the scope of work for roadway cuts. They continue to require resurfacing of moratorium streets curb to curb for even small cuts thus increasing restoration quantities associated with the mill-and-overlay as well as PCC base installations.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Lowest responsive, responsible bidder
Commodity:	Construction	Contract Number:	140080
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Water Services
Service Area:	Water/ Sanitary	Department Head:	Jason Hughes
Project:	FK, GS		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.0%	\$ 2,500,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.0%	\$ 2,500,000.00

*Under the terms of the IMA, the capital costs associated with each joint use facility are to be split among the users in proportion to the peak flow each user is allocated. It is not possible, at this time, to allocate costs by individual facility. It is anticipated that as projects are developed for work associated with specific facilities and costs are developed, the individual users will be notified and billed accordingly.


 Matthew T. Brown
 Chief Financial Officer
 Date 1/12/18


 Charles Kiely
 Assistant General Manager
 Customer Care & Operations
 Date 1/19/18


 Dan Bae
 Director of Procurement
 Date 1/12/18

Henderson J. Brown IV
 Acting CEO and General Manager
 Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**ENGINEERING SERVICES
Division J – Northeast Boundary Tunnel
(Joint Use)**

Approval to execute an architectural and engineering services contract for \$28,033,187.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
EPC Consultants, Inc. 655 Davis Street San Francisco, CA 94111	Shrewsbury & Associates Princeton, NJ	MBE 15.0%
<u>Headquarters</u> San Francisco, CA	Belstar, Inc. Fairfax, VA	MBE 3.3%
(MBE)	Cube Root Washington, DC	MBE 3.3%
	Keville Enterprises Herndon, VA	WBE 4.0%
	HAKS New York, NY	13.7%
	RK&K Fairfax, VA	6.1%
	HNTB Corporation Arlington, VA	3.2%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$28,033,187.00
 Contract Time: 2128 Days (5 Years, 10 Months)
 Anticipated Contract Start Date: 03-01-2018
 Anticipated Contract Completion Date: 12-28-2023

Other firms submitting proposals/qualification statements:

- HDR*
- Jacobs/ Black & Veatch*
- Parsons/ Gilbane
- Shannon & Wilson, Inc.

* Asterisk indicates short listed firms

Purpose of the Contract:

To provide onsite construction management (CM) services during DC Water’s Clean Rivers Project Division J – Northeast Boundary Tunnel (NEBT) construction contract.

This work is required by a Consent Decree.

Contract Scope:

- Provide construction management, contract administration and resident engineering and inspection services to assist DC Water’s Clean Rivers Project during construction of the Division J – Northeast Boundary Tunnel.
- CM services will be provided at the following NEBT construction site locations:

CSO 019 Construction Site	Robert F. Kennedy (RFK) Temporary Access Area
Langston Golf Course	Mt Olivet Road Construction Sites (e.g., Diversion & Shaft)
W Street Construction Site	Rhode Island Avenue Construction Site
Michigan Avenue Construction Site	T Street Construction Site
Channing Street Construction Site	Florida Avenue Construction Site
4 th Street Construction Site	R Street Construction Site
Pumping Station Construction Site	

PROCUREMENT INFORMATION			
Contract Type:	Cost Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Professional Services	Contract Number:	DCFA #487-WSA
Contractor Market:	Open Market		

BUDGET INFORMATION			
Funding:	Capital	Department:	DC Clean Rivers Project
Service Area:	Combined Sewer Overflow	Department Head:	Carlton Ray
Project:	CY		

****ESTIMATED USER SHARE INFORMATION**

CY – Allocation (LTCP – CSO 019 to W Street)

User	Share %	Dollar Amount
District of Columbia	92.90%	\$12,240,754.97
Federal Funds**	0.00%	\$
Washington Suburban Sanitary Commission	5.54%	\$ 729,965.37
Fairfax County	1.01%	\$ 133,080.33
Loudoun County & Potomac Interceptor	0.55%	\$ 72,469.48
Total Estimated Dollar Amount	100.00%	\$13,176,270.15

CY – Allocation (CAPM – W Street to R Street)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$14,856,916.85
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$14,856,916.85

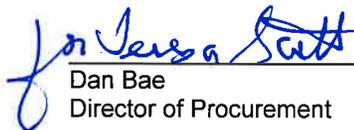
Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	96.66%	\$27,097,671.82
Federal Funds**	0.00%	\$
Washington Suburban Sanitary Commission	2.60%	\$ 729,965.37
Fairfax County	0.48%	\$ 133,080.33
Loudoun County & Potomac Interceptor	0.26%	\$ 72,469.48
Total Estimated Dollar Amount	100.00%	\$28,033,187.00

** The construction contract may be funded in part by prior congressional appropriations for CSO projects.


 Matthew T. Brown
 Chief Financial Officer
 Date: 1/12/18


 Leonard R. Benson
 Chief Engineer
 Date: 1-11-18


 Dan Bae
 Director of Procurement
 Date: 1/12/18

 Henderson J. Brown IV
 Acting CEO and General Manager
 Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT:

**Basic Ordering Agreement – Architectural and Related Services for Facilities
(Joint Use)**

Approval to execute Supplemental Agreement No. 13 for \$4,000,000. The modification exceeds the General Manager’s approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Samaha Associates PC 10521 Rosehaven Street Suite 200 Fairfax, VA 22030	JVP Engineers Washington, DC	MBE 15.5%
	Wiles-Mensch Corporation Reston, VA	MBE 6.5%
	Forella Group, LLC Fairfax, VA	MBE 4.0%
	Kim Engineering Silver Springs, MD	MBE 2.5%
	Carroll Engineering Hunt Valley, MD	WBE 2.0%
	The Studio of Sandra Ragan Washington, DC	2.5%
	Cagley Structural Engineering Rockville, MD	1.0%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$ 3,500,000.00
Value of this Supplemental Agreement:	\$ 4,000,000.00
Cumulative SA Value, including this SA:	\$11,274,545.00
Current Contract Value, Including this SA:	\$14,774,545.00
Original Contract Time:	1,826 Days (5 Years, 0 Months)
Time extension, this SA:	1,255 Days (3 Years, 5 Months)
Total SA contract time extension:	2,323 Days (6 Years, 5 Months)
Contract Start Date:	07-31-2010
Contract Completion Date:	12-31-2021

Purpose of the Contract:

To provide architectural/engineering and other related services on a Task Order basis, related to projects identified in the Master Facilities Plan and other projects as needed.

This work is to be funded by The District of Columbia. Work will not proceed until those funds have either been released or an agreement is in place to reimburse DC Water by The District of Columbia.

Original Contract Scope:

- Professional architectural/engineering (A/E) and other related services required for the design of new and/or adaptive re-use of buildings, including re-design and renovations of interior space.
- Funded projects to be included under this contract: design and construction of a new warehouse (central) at Blue Plains; modifications to Central Operations Facility (COF) to reuse space after some departments relocate to new Headquarters Facility; modifications to Building F at O Street for field service personnel; new Fleet Services facility; new Sewer Services facility; renovations to Bryant Street; and other related projects. Task Orders will only be assigned for funded projects.

Previous Supplemental Agreement Scope:

- Provide design services to complete the design for the new warehouse and visitor center/security services building.
- Services related to the regulatory approval phase and site-infrastructure design for the new Administrative Headquarters building to be located at 'O' Street Facilities.
- Provide services during the construction phase of the Administrative Headquarters facility.
- Additional services related to implementation of the Master Facilities Plan.

Current Supplemental Agreement Scope:

- Design and construction administrative services for a new Fleet Services facility
- Design and construction administrative services for a new Sewer Services Field Operations facility.

PROCUREMENT INFORMATION

Contract Type:	Lump Sum	Award Based On:	Highest Ranking Score
Commodity:	Engineering Services	Contract Number:	DCFA #431
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Non-Process Facilities	Department Head:	Craig Fricke
Project:	HH		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$4,000,000.00
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$4,000,000.00

* The user shares shown above are provisional and are subject to agreement by the IMA Leadership Committee.


 Matthew T. Brown
 Chief Financial Officer
 1/11/18
 Date


 Leonard R. Benson
 Chief Engineer
 1-11-18
 Date


 Dan Bae
 Director of Procurement
 1/12/18
 Date


 Henderson J. Brown IV
 Acting CEO and General Manager
 Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT FUNDING
1.5-Inch & 2-Inch Positive Displacement Meters
(Non-Joint Use)**

Approval to add funding for Option Year 1 for the supply and delivery of 1.5" and 2" positive displacement meters in the total of \$128,634.50.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Mueller Systems 10210 Statesville Blvd Cleveland, NC 27013	N/A	N/A

DESCRIPTION AND PURPOSE

Base Year Contract Value:	\$1,700,000.00
Original Contract Dates:	01-16-2017 to 01-15-2018
No. of Option Years:	2
Prior Modification Values:	\$164,593.00
Prior Modification Dates:	03-01-2017 to 01-15-2018
Option Year 1 Value:	\$135,406.00
Option Year 1 Dates:	01-16-2018 to 01-15-2019
Option Year 1 Additional Funding:	\$128,634.50
Option Year 1 Dates:	01-16-2018 to 01-15-2019

Purpose of the Contract:

To provide 1.5-inch and 2-inch positive displacement meters in order to support the demand from the AMR replacement program and daily operations. The base year included requirements for both the AMR program and daily operations. The Option Year requirement only includes daily operations.

Contract Scope:

This contract provides DC Water's Department of Customer Care and Operations (CCO) 1.5-inch and 2-inch positive displacement meters and related parts to support daily operations. Mueller was selected through competitive solicitation in 2017. This request is to approve the remaining funding required for FY18.

Spending Previous Year:

Cumulative Contract Value:	01-16-2017 to 01-16-2018: \$1,999,999.00
Cumulative Contract Spending:	01-16-2017 to 01-18-2018: \$1,864,593.00

Contractor's Past Performance:

According to the COTR, the Contractor's quality of products and services, timeliness of deliverables; conformance to DC Water's policies, procedures and contract terms; and invoicing all meet or exceed expectations and requirements. No LBE/LSBE participation.

