

St. Mary's County Metropolitan Commission
 Capital Improvements Budget
 FY 2018 - 2023 Water

Project Name	Status	Project ID	Prior Approved	FY 2018	Budget Amendment 4/26/18	FY18 Amended Budget	FY 2019	FY 2020	FY2021	FY2022	FY2023	TOTAL
Miscellaneous												
Radio Read Water Meters Project Phases 1 & 2	5	WO1112	\$8,300,000									\$8,300,000
Exterior Petty Building Upgrades	2	8131BD	\$460,000									\$460,000
Oversize Meter Project Phase 2	4	8121MW	\$293,000									\$293,000
Asset Management Software Upgrade (220,430 capitalized)	4	SW1201	\$297,500									\$297,500
Miscellaneous Water Line and Saddle Replacement	2	8172WR	\$150,000									\$150,000
Facilities Condition Assessment	1			\$365,700 ^{A,H}		\$365,700						\$365,700
Automatic Meter Reading (AMR) Upgrades	1			\$212,500 ^B		\$212,500						\$212,500
SCADA Safety and Security Upgrade	1			\$125,000 ^C		\$125,000						\$125,000
Financial Software Upgrade	1			\$160,000 ^D		\$160,000						\$160,000
King Kennedy Well & Ground Storage Tank Improvements	2	3-1-W	\$757,310				\$975,190 ^E					\$1,732,500
Piney Point Water Station Upgrades	1		\$250,000	\$36,433 ^{F,H}		\$36,433	\$394,025 ^{F,H}					\$680,458
Industrial Park Water Station Upgrades	1						\$236,250 ^G					\$236,250
Miscellaneous Subtotal =			\$10,507,810	\$899,633	\$0	\$899,633	\$1,605,465	\$0	\$0	\$0	\$0	\$13,012,908
Difference from FY 2017 CIB			-\$1,176,190	\$774,633	\$0	\$774,633	\$1,605,465	\$0	\$0	\$0	\$0	\$1,203,908

Totals												
Water Lines			\$15,495,160	\$2,749,500		\$2,749,500	\$2,322,736	\$5,212,580	\$6,421,801	\$3,377,544	\$2,395,367	\$37,974,688
Wells			\$2,456,160	\$0	\$0	\$0	\$0	\$0	\$1,873,692	\$0	\$0	\$4,329,852
Water Storage Tanks (WST)			\$13,993,177	\$623,700	\$46,000	\$669,700	\$779,233	\$623,700	\$1,954,000	\$623,700	\$0	\$18,643,510
Miscellaneous			\$10,507,810	\$899,633	\$0	\$899,633	\$1,605,465	\$0	\$0	\$0	\$0	\$13,012,908
Subtotal			\$42,452,307	\$4,272,833	\$46,000	\$4,318,833	\$4,707,434	\$5,836,280	\$10,249,493	\$4,001,244	\$2,395,367	\$73,960,958
Capital Reserves ^I		7.5%	\$3,184,000	\$320,000	(\$46,000)	\$274,000	\$353,000	\$438,000	\$769,000	\$300,000	\$180,000	\$5,498,000
Total=			\$45,636,307	\$4,592,833	\$0	\$4,592,833	\$5,060,434	\$6,274,280	\$11,018,493	\$4,301,244	\$2,575,367	\$79,458,958
Difference from FY 2017 CIB			-\$3,509,667	-\$5,836,667	\$0	-\$5,836,667	-\$3,528,816	\$2,766,080	\$6,292,326	\$1,076,244	\$2,575,367	-\$165,133

Status:

- 1 Planning Phase
 - 2 Design Phase
 - 3 Contract Phase
 - 4 Construction Phase
 - 5 Close-out Phase
- A) Moved from FY2019 to FY2018
 - B) Project added to install Automatic Read (AMR) water meters in existing non-metered and non-AMR properties.
 - C) Project added based on upgrade needs required for SCADA system monitoring equipment and radios along with general overhaul of system electronics
 - D) Project added to purchase complete financial software package
 - E) Project construction of WST moved to FY2019
 - F) Project construction phased between FY2018 and FY2019; budget increased based on relocation of water station on purchased Cobb Property
 - G) Project moved from FY2018 to FY2019; project added based on upgrade needs required for aging water storage facilities
 - H) Amount based on updated cost estimate completed by consultant engineer
 - I) Restricted Reserves requires budget amendment with CSMC to utilize

St. Mary's County Metropolitan Commission
Capital Improvements Budget
FY 2018 - 2023 Sewer

Project Name	Status	Project ID	Prior Approved	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Totals
Pump Stations										
Lynn Drive WWPS	5	8122SS	\$1,821,300							\$1,821,300
First Colony #2 WWPS	2	8141SS	\$445,500 ^A							\$445,500
Glebe Run WWPS Replacement	4	3161SS	\$155,250							\$155,250
Forest Run WWPS	2	8131SS	\$650,000							\$650,000
Spring Valley WWPS	4	8161SS	\$250,000							\$250,000
Great Mills WWPS Upgrade	2	8081SS	\$7,691,370							\$7,691,370
St. Mary's Square WWPS	2	8121SS	\$1,184,000 ^B							\$1,184,000
Piney Point WWPS Upgrade	2	5081SR	\$7,046,950							\$7,046,950
Wildewood #1 WWPS	1	8132SS	\$210,000		\$315,418 ^{C,L}					\$525,418
Wildewood #2 WWPS	1	8171SS	\$55,000		\$536,312 ^{D,L}					\$591,312
Evergreen Park WWPS	1				\$10,500 ^E	\$270,386 ^{F,L}				\$280,886
Moorings WWPS	1				\$10,500 ^G	\$362,800 ^{H,L}				\$373,300
Esperanza Shopping Center WWPS	1						\$329,657 ^{I,L}			\$329,657
Bradley Blvd. WWPS	1						\$321,214 ^{I,L}			\$321,214
Greenbrier WWPS	1							\$344,655 ^{J,L}		\$344,655
Wicomico Shores #1 WWPS Replacement	1							\$379,121 ^L		\$379,121
Hunting Quarters WWLS	1								\$324,069 ^{K,L}	\$0
Pump Stations Subtotal =			\$19,509,370	\$0	\$872,730	\$633,186	\$650,871	\$723,776	\$324,069	\$22,389,933
Difference from FY 2017 CIB			-\$1,654,500	-\$3,423,750	\$332,730	\$295,686	-\$24,129	\$723,776	\$324,069	-\$3,750,187

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
- 5 Close-out Phase

- A) Reduced from \$1,530,000; revised cost estimate for sewer force main bypass only
- B) Reduced from \$1,754,000; actual bid pricing
- C) Project moved from FY2018 to FY 2019; reduced from \$2,146,250 based on not relocating station and using package pump station replacement
- D) Project moved from FY2018 to FY 2019; reduced from \$769,500 based on using package pump station replacement
- E) Project moved from FY2018 to FY2019; budget amount for property survey taken from \$170,500 total previously in FY2018
- F) Project moved from FY2019 to FY 2020; budget amount for WWPS upgrade moved from FY2018 to FY2019
- G) Project moved from FY2018 to FY2019; budget amount for property survey taken from \$337,500 total previously in FY2018
- H) Project moved from FY2019 to FY 2020; budget amount for WWPS upgrade moved from FY2018 to FY2019
- I) Project(s) moved from FY2020 to FY2021
- J) Project moved from FY2021 to FY 2022
- K) Project moved from FY2022 to FY2013; project added based on service life at the request from the Operations & Maintenance department
- L) Amount based on updated cost estimate completed by consultant engineer

St. Mary's County Metropolitan Commission
Capital Improvements Budget
FY 2018 - 2023 Sewer

Project Name	Status	Project ID	Prior Approved	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Totals
System Upgrades / Expansion										
MTWRF ENR Upgrade	5	8-38-S	\$39,125,000							\$39,125,000
Leonardtown ENR & Upgrade Project	4	3151SF	\$2,092,372							\$2,092,372
MTWRF Expansion (Capacity & Expansion Report and Concept Design)	2	8151SF	\$500,000							\$500,000
Exterior Petty Building Upgrades	2	8131BD	\$460,000							\$460,000
Asset Management Software Upgrade (232,095 capitalized)	4	SW1201	\$380,000							\$380,000
Macerators/Macerating Pumps for Stations	4	SM1710	\$120,000							\$120,000
CCTV Inspection System	4		\$126,000							\$126,000
Utility Maintenance Truck	4		\$151,000							\$151,000
St. Clements Shores WWTP Expansion Phase A	2	2171SF	\$906,500							\$906,500
Methane Co-Generator Upgrade at Marlay-Taylor WWTP	2	8171SF	\$945,000							\$945,000
Right of Way Clearing	4	SM1725	\$54,000	\$54,000						\$108,000
Marlay-Taylor WRF Replacement Pumps	4		\$94,500	\$94,500 ^A						\$189,000
SCADA Safety and Security Upgrade	1			\$125,000 ^B						\$125,000
Financial Software Upgrade	1			\$160,000 ^C						\$160,000
Facilities Condition Assessment	1			\$345,000 ^{D,H}						\$345,000
St. Clements Shores WWTP Expansion Phase B	2	2151SF	\$ 70,000.00	\$500,000 ^E	\$3,125,000 ^E					\$3,695,000
Energy Audit / Energy Efficiency Upgrades	1			\$115,000 ^F	\$57,500 ^F	\$57,500 ^F				\$230,000
Grinder Pump Replacements	4	SM1709	\$840,375		\$850,000 ^G		\$850,000 ^G		\$850,000 ^G	\$3,390,375
										\$0
Systems Upgrades/Expansion Subtotal =			\$45,864,747	\$1,393,500	\$4,032,500	\$57,500	\$850,000	\$0	\$850,000	\$53,048,247
Difference from FY 2017 CIB			-\$1,014,375	-\$2,175,875	\$3,192,125	\$57,500	\$850,000	\$0	\$850,000	\$1,759,375

Totals										
Replacement			\$8,577,649	\$315,000	\$702,170	\$1,599,096	\$1,152,452	\$359,310	\$2,067,052	\$14,772,729
Pump Stations			\$19,509,370	\$0	\$872,730	\$633,186	\$650,871	\$723,776	\$324,069	\$22,714,002
Upgrades/Expansion			\$45,864,747	\$1,393,500	\$4,032,500	\$57,500	\$850,000	\$0	\$850,000	\$53,048,247
Subtotal			\$73,951,766	\$1,708,500	\$5,607,400	\$2,289,782	\$2,653,323	\$1,083,086	\$3,241,121	\$90,534,978
Capital Reserves ^I		6.20%	\$4,470,000	\$106,000	\$348,000	\$142,000	\$165,000	\$67,000	\$201,000	\$5,499,000
Total =			\$78,421,766	\$1,814,500	\$5,955,400	\$2,431,782	\$2,818,323	\$1,150,086	\$3,442,121	\$96,033,978
Difference from FY 2017 CIB			-\$5,641,076	-\$5,946,625	\$4,081,025	\$1,739,282	\$1,910,056	\$1,150,086	\$3,442,121	\$734,869

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
- 5 Close-out Phase

- A) Added one additional year for estimated costs for existing pump replacement within the facility
- B) Project added based on upgrade needs required for SCADA system monitoring equipment and radios along with general overhaul of system electronics
- C) Project added to purchase complete financial software package
- D) Moved from FY2019 to FY2018
- E) Revised project budget for estimated Phase B engineering design and construction
- F) Project added to upgrade and replace conventional electrical equipment to energy efficient equipment
- G) Rounded annual project budget up \$9,625 to account for estimated material and labor price increases; phasing updated and added year
- H) Amount based on updated cost estimate completed by consultant engineer
- I) Restricted Reserves requires budget amendment with CSMC to utilize

St. Mary's County Metropolitan Commission
Approved by MetCom Board 4/27/17 and Board of County Commissioners on 5/23/17
Capital Improvement Rates Per EDU - Actual & Projected
FY 2018-2023 Water & Sewer

	FY 2015 Actual	FY 2016 Actual	FY 2017 Actual	FY 2018 Projected	FY 2019 Projected	FY 2020 Projected	FY 2021 Projected	FY 2022 Projected	FY 2023 Projected
System Improvement Charges - per EDU/month									
Water - Residential	\$8.81	\$9.76	\$10.37	\$11.33	\$12.37	\$12.54	\$13.93	\$14.39	\$14.70
Water - Commercial	\$10.57	\$11.71	\$12.44	\$13.60	\$14.84	\$15.05	\$16.72	\$17.27	\$17.64
System Improvement Charges - per EDU/month									
Sewer - Residential	\$14.46	\$15.05	\$15.09	\$15.09	\$15.09	\$15.09	\$15.09	\$15.09	\$15.45
Sewer - Commercial	\$17.35	\$18.06	\$18.11	\$18.11	\$18.11	\$18.11	\$18.11	\$18.11	\$18.55
Capital Contribution Charge - per EDU									
Water - Residential	\$6,540.59	\$7,708.50	\$8,892.67	\$10,666.91	\$11,023.55	\$11,023.55	\$11,023.55	\$11,023.55	\$11,023.55
Water - Commercial	\$7,848.71	\$9,250.20	\$10,671.20	\$12,800.29	\$13,228.26	\$13,228.26	\$13,228.26	\$13,228.26	\$13,228.26
Capital Contribution Charge - per EDU									
Sewer - Residential	\$4,951.14	\$6,348.98	\$6,348.98	\$6,533.89	\$7,303.65	\$6,679.46	\$6,592.47	\$6,499.93	\$6,461.00
Sewer - Commercial	\$5,941.37	\$7,618.77	\$7,618.77	\$7,840.66	\$8,764.37	\$8,015.35	\$7,910.95	\$7,799.91	\$7,753.19

Assumption:

New debt for FY17 & FY18 based on 20 year term, MDE maximum for water loans. New debt in later years based on 30 year term (actual debt may be shorter term depending on the projected life of the asset.)

System Improvement Charges are designed to cover debt service for loans for the upgrade and replacement of existing systems and direct pay of smaller projects. Paid by all customers with an EDU allocation on the system.

Capital Contribution Charges are designed to cover the debt service for loans to build new water supply and storage and sewer collection and treatment systems and to expand capacity to provide service to new customers. This fee is due and payable at the time the owner makes application or otherwise is required to connect to a water main or sewer.