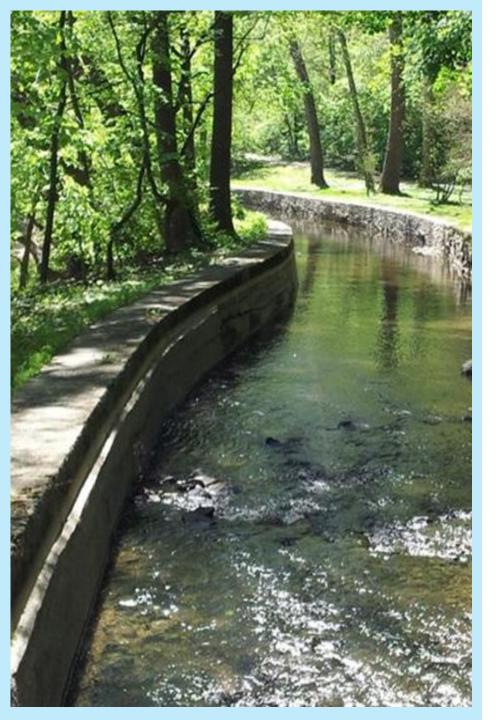


FINANCIAL PLAN: FY 2019 - FY 2024

City of Wilmington Department of Public Works (DPW)

19 March 2018





AGENDA

Overview: Wilmington Utilities

Financial Perspectives: The Road Travelled

Financial Forecast: The Six-Year Plan

Summary

Overview-Wilmington Utilities

- Our Mission, System, and Services
- Water/Sewer Enterprise Fund

We Provide Integrated Water, Sewer, and Stormwater Services





Wilmington Utilities System Highlights





- Porter Plant: (Clearwell 1905; Plant 1950)
- Brandywine Filtration: 100 years old



- 9 Elevated Tanks; Porter Clearwell & Coolspring Tank
- Over 400 Miles of Water Mains



- One Wastewater Treatment Plant (105 mgd)

 Renewable Energy Biosolids Facility (REBF)

 Over 300 Miles of Sewer Mains
- \checkmark
- Over 90% of the City service area is Combined Sewer System Tidegates, CSO Outfalls, Underground Storage, Stormwater Management Facilities
- **√**
 - Customer Billing System; Web Payment Portal

The User Fee Construct







Fee is assessed to address a regulatory purpose?



Fee is in exchange for benefits received by the general public?

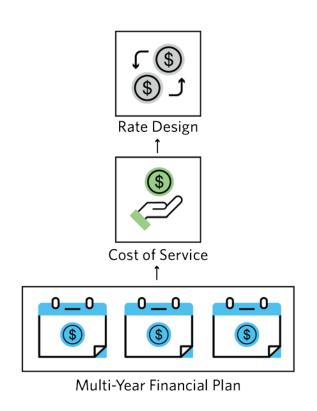


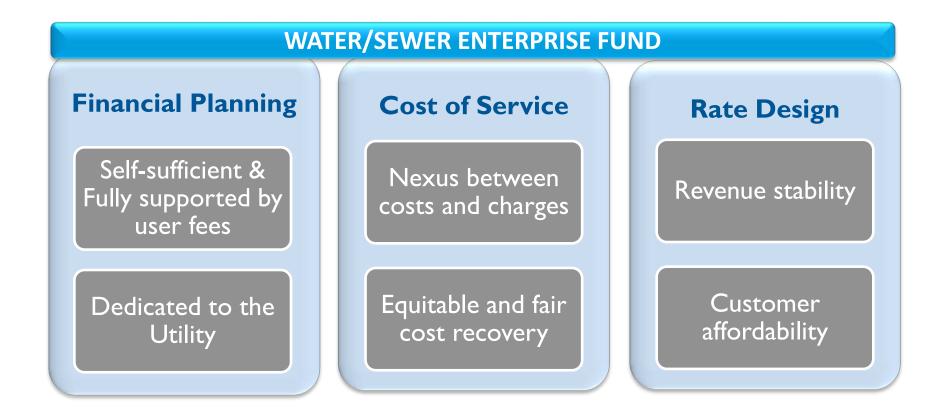
Fee provides reduction mechanism?



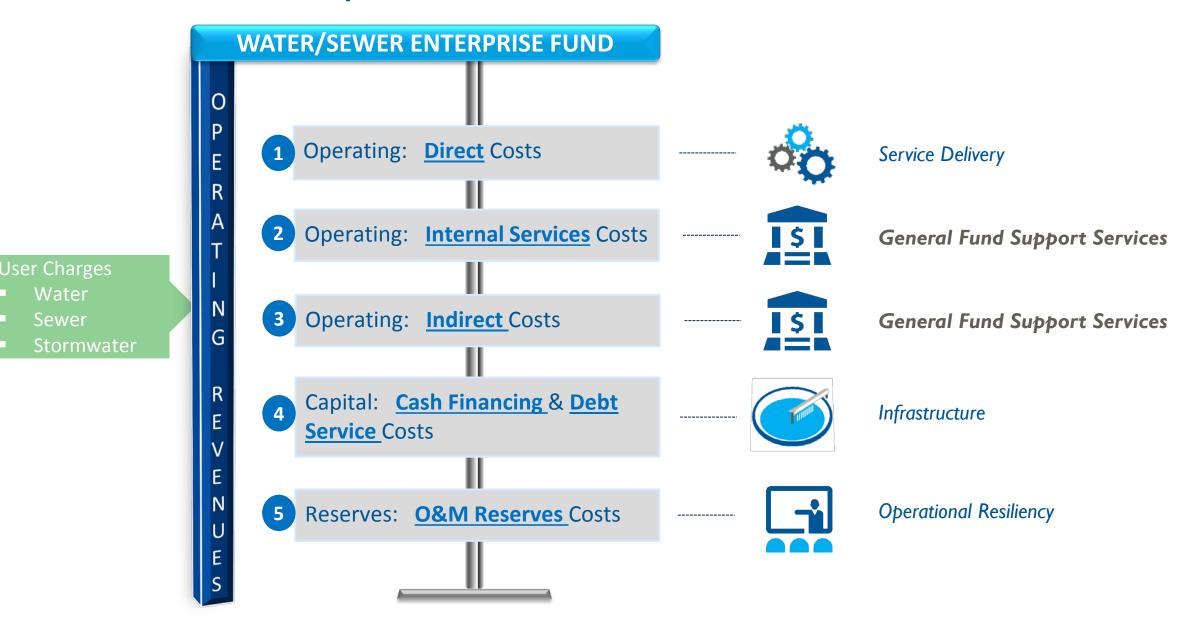
Fee is a fair approximation of costs incurred in providing services?

What are the key principles of an Enterprise Fund?

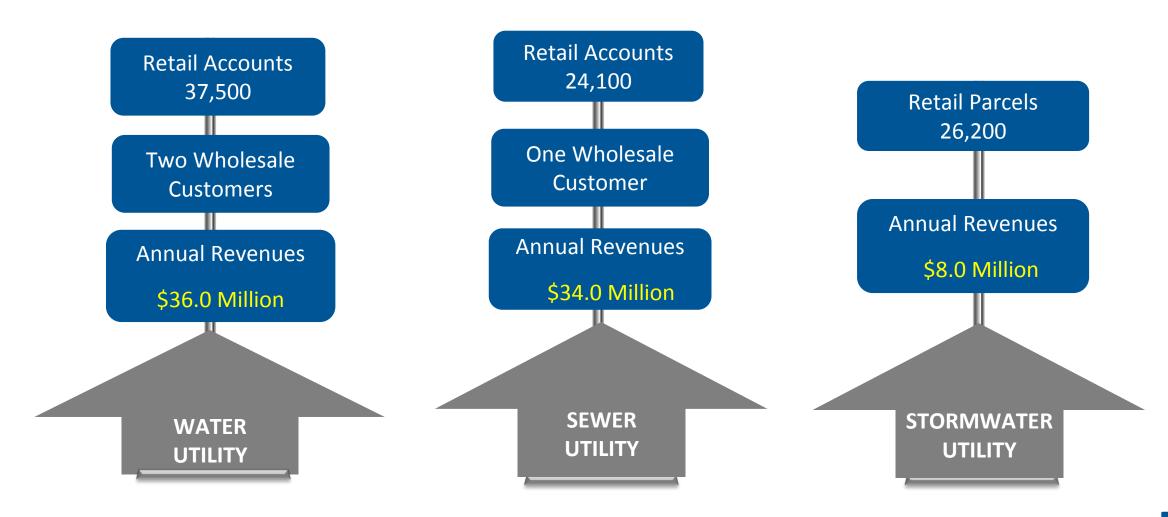




Water/Sewer Enterprise Fund At-a-Glance



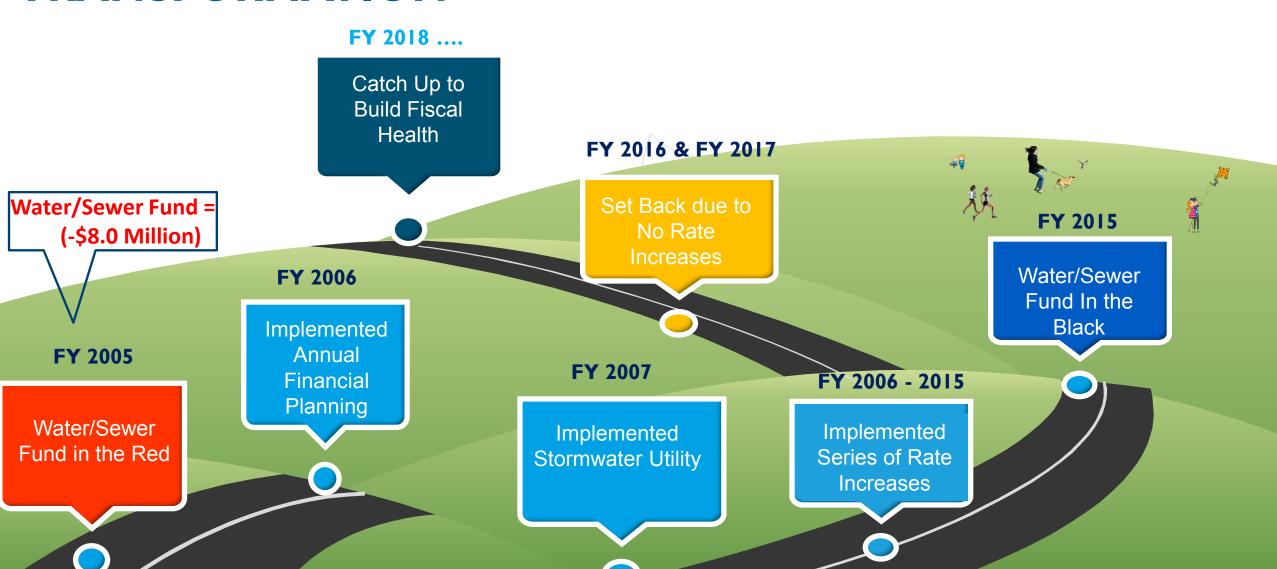
FY 2018 Customer Base & User Fee Revenues Overview



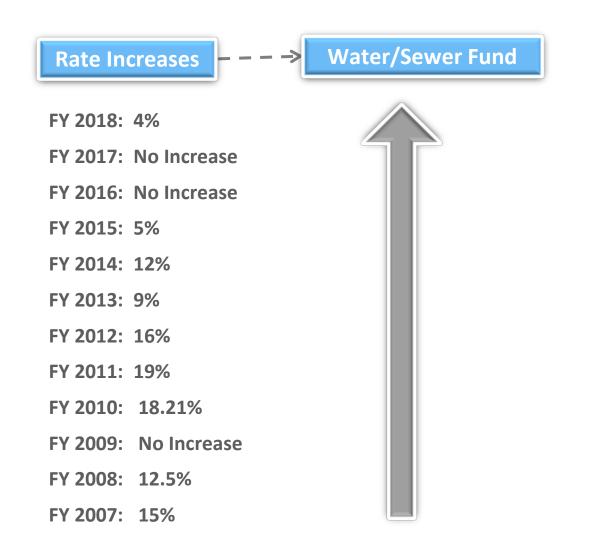
Financial Perspectives: The Road Travelled

- Historical Path
- Performance Objectives
- Study Process

THE ROAD TRAVELLED: JOURNEY TO FINANCIAL TRANSFORMATION



Financial Plan is Designed to Achieve Key Performance Metrics

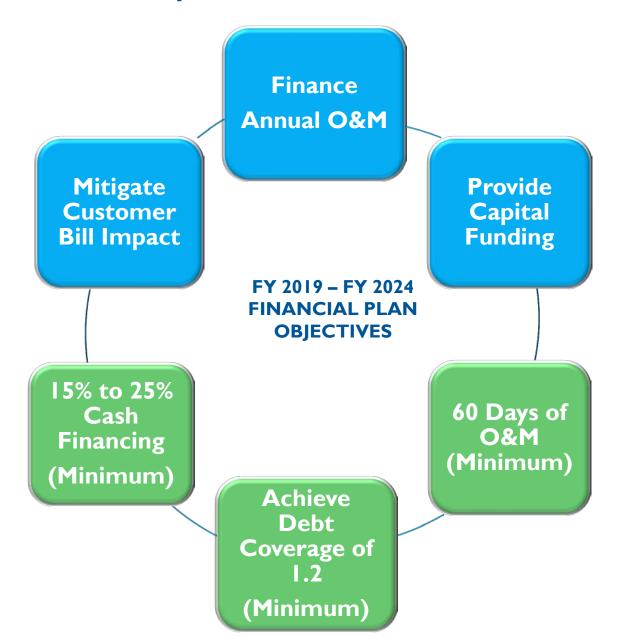


Key Challenges Addressed

- ✓ Transitioned out of a <u>negative</u> fund balance
- ✓ Compliance with regulatory requirements
- ✓ Multiple major \$15+ Million capital projects
- Enhanced investments in aging infrastructure
- Increased annual <u>Indirect Cost</u> payments to the General Fund
- √ \$15+ Million loan payback to the General Fund

Financial Plan is Designed to Achieve Key Performance Metrics

- Develop a practical and sustainable financial plan
- Address needs of diverse stakeholders

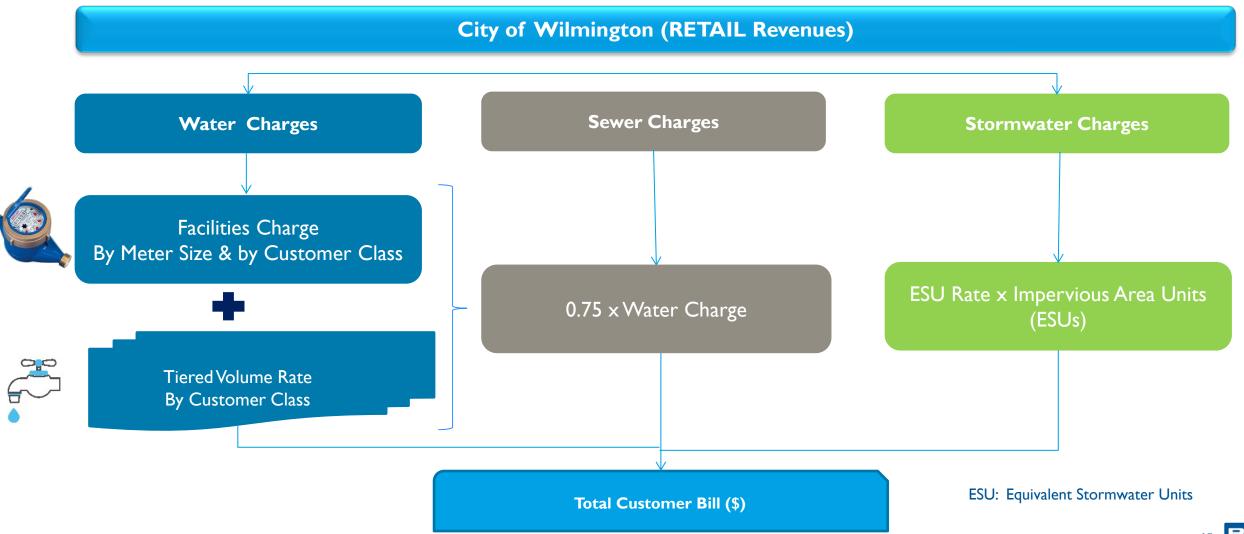


Financial Forecast: Six-year Plan

(FY 2019 through FY 2024)

- Revenues
- Revenue Requirements
- Financial Plan
- Bill Impact

Retail Revenues



Retail Revenue Projections

Water/Sewer Facilities Charge Revenue

- Projected based on the number of accounts by meter size:
- Projected to remain at the FY 2017 level
- Water/Sewer Usage Charge Revenue
 - FY 2017 system wide usage reflects an increase relative to FY 2016
 - Annual usage projection: Based on the FY 2018 adjusted usage level

	Description	FY 2016	FY 2017	FY 2018
1 a	Inside City Usage (1,000 Gal)	1,969,540	1,999,113	2,059,791
1b	Inside City Usage Change (1,000 Gal)	(38,535)	29,573	60,678
1 c	Inside City Change (%)	-1.92%	1.50%	3.04%
2 a	Outside City Usage (1,000 Gal)	1,171,078	1,294,732	1,348,465
2b	Outside City Usage Change (1,000 Gal)	(57,787)	123,654	53,733
2 c	Outside City Change (%)	-4.70%	10.56%	4.15%
3a	Total Usage (1,000 Gal)	3,140,618	3,293,845	3,408,256
3b	Total Usage Change (1,000 Gal)	(96,322)	153,227	114,411
3c	Total Usage Change (%)	-2.98%	4.88%	3.47%

Retail Revenue Projections

- Stormwater Revenue
 - Projected based on FY 2017 level of stormwater impervious area
 - Non-City Owned Parcels: 129,406 ESUs
 - City-Owned Parcels: 15,339 ESUs
 - Reflects continued non-payment from ACOE
- City Accounts Billing
 - City Accounts Phase- In complete 100% (FY 2019 and beyond)

• (Equivalent Stormwater Units – ESUs)

Wholesale & Miscellaneous Revenue Projections

Wholesale Revenues

- New Castle County Wholesale Sewage Treatment Revenue
 - Contract agreement in progress
 - Projections based on expected approach

Miscellaneous Revenues

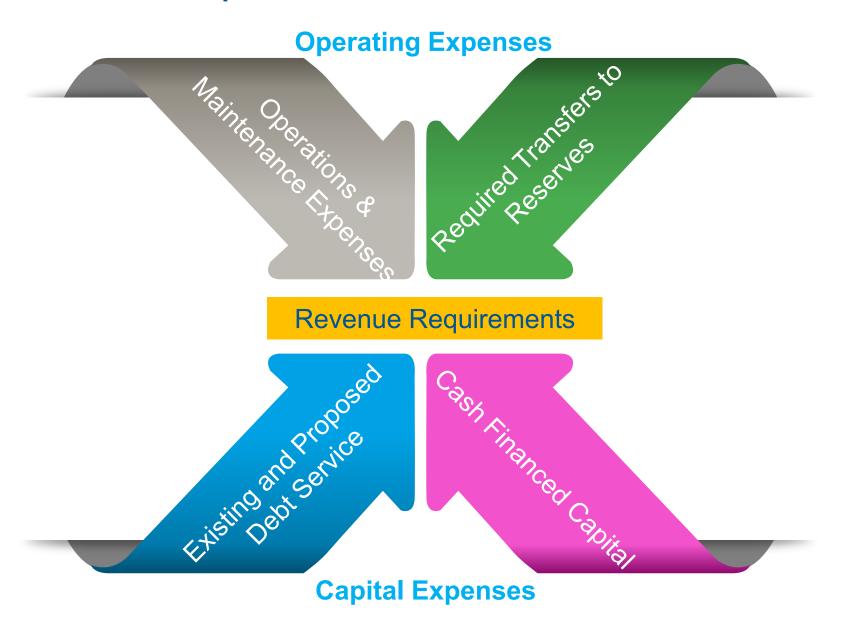
- Contractual agreements
 - Rentals
- Projected as 2-year average
 - Miscellaneous Permits
 - Wholesale Water Sales
 - Investment Income
- Projected at prior fiscal year level
 - Solar Panel Revenues
 - Turn Off/ Turn On Charges
 - Penalties & Interest
 - Settlement Fees



What Would the Revenues be Under Existing Rates?

=								
Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
	(\$M)							
Water Revenues	35.75	35.83	35.83	35.83	35.83	35.86	35.86	
Sewer Revenues	12.88	12.91	12.91	12.91	12.91	12.91	12.91	
Stormwater Revenues	7.86	8.05	8.05	8.05	8.05	8.05	8.05	
New Castle County Sewer	21.07	19.63	19.83	20.03	20.23	20.23	20.23	
Miscellaneous Revenues	3.29	3.32	3.34	3.36	3.38	3.40	3.41	
Total Revenues Estimated	80.85	79.74	79.96	80.18	80.40	80.45	80.46	

Projected Revenue Requirements



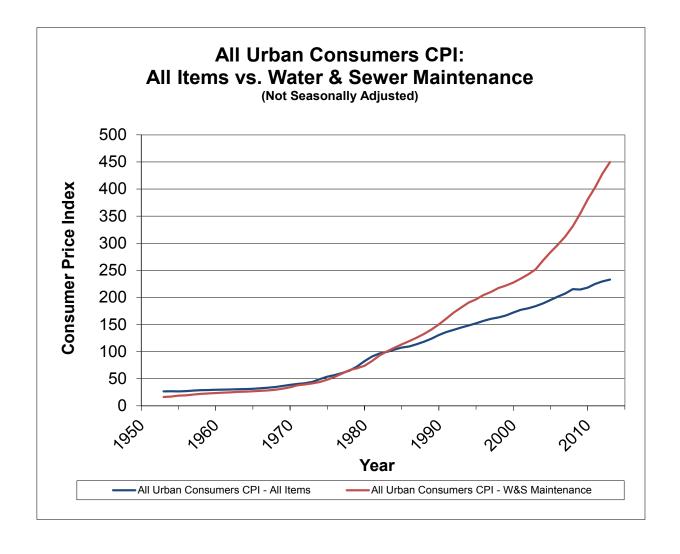
Operations & Maintenance Expenses

- FY 2018 O&M: Based on Council Approved Budget
- FY 2019 O&M: Based on Proposed FY 2019 Budget
- FY 2020 & Beyond: Escalated Projections
- Escalation Factors Used:
 - Benefits: 4.5% (FY 2019), 8% (FY 2020), 12 % (FY 2021), 7.5% (FY 2022) & 10% thereafter
 - Chemicals: 2.5%
 - Utilities: 1% (FY 2019 & FY 2020), 3% (FY 2021-FY 2024)
 - Sewage Treatment Fees: 1.5% (FY20 through FY 22)
 - All Other Costs: 2.5%

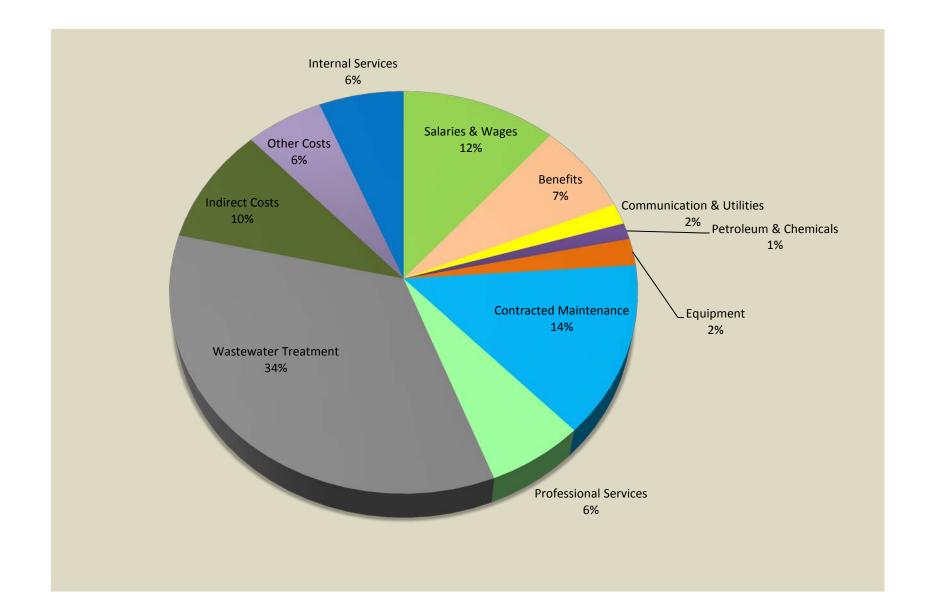
Description	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)
O&M	58.88	60.39	62.09	63.65	65.40	67.24

Water/Sewer Cost Increase Trend

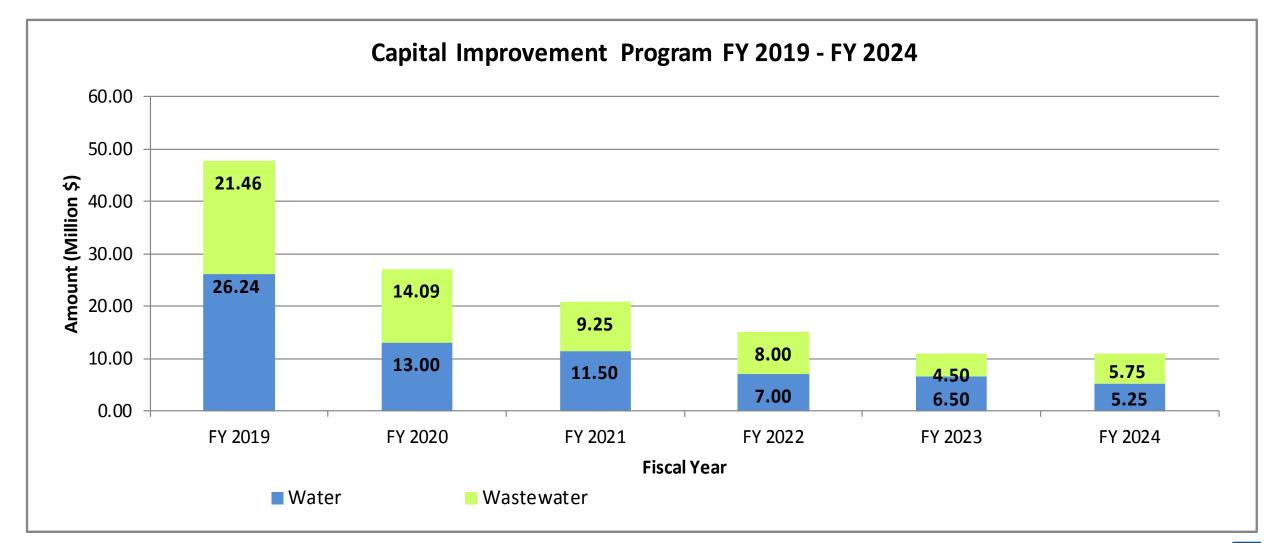
The water & sewer component of CPI has experienced higher inflation than the Overall CPI Index since 1980



FY 2019 O&M Expenses Distribution - By Category



Water & Wastewater Capital Program Projections



Capital Program: Major Multi-year Projects (FY 2019 – FY 2024)

Water CIP

- Water Main Improvements: \$31.2 M
- Large Transmission Main: \$8.0 M
- Porter Filter Plant: \$13.6 M
- Small Meter Replacement: \$3.0 M

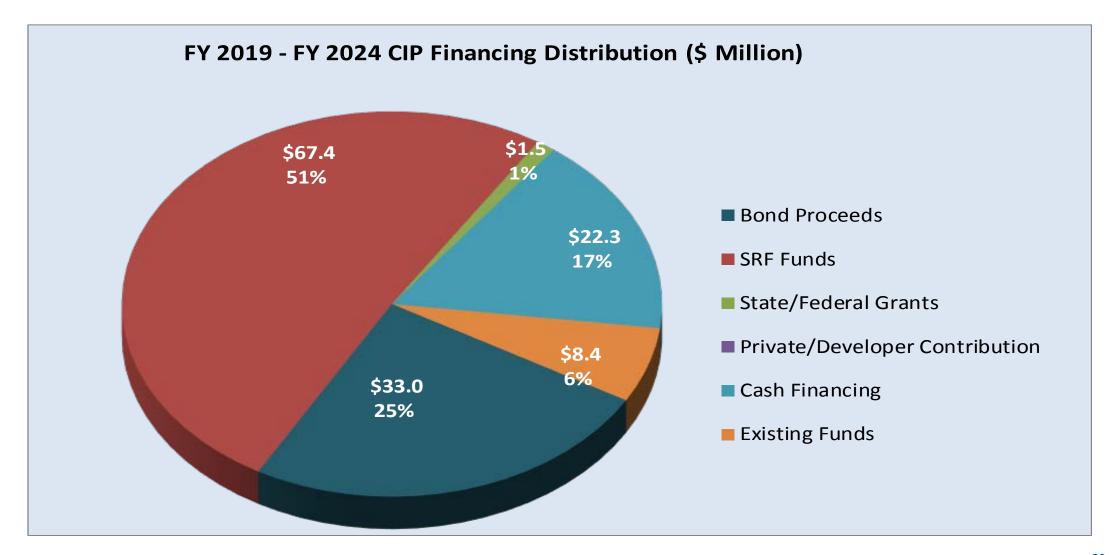
Wastewater CIP

- Minor Sewer Improvements: \$7.0 M
- ♦ Large Diameter Sewer Improvements: \$11.0 M
- Pumping Station Upgrades: \$3.0 M
- WWTP Improvements: \$14.5 M

Stormwater CIP

- Stormwater Drainage Improvements: \$6.5 M
- South Wilmington Wetlands: \$15.6 M
- Urban Forest Program: \$1.5 M

What are the Expected Funding Sources for the Capital Program?



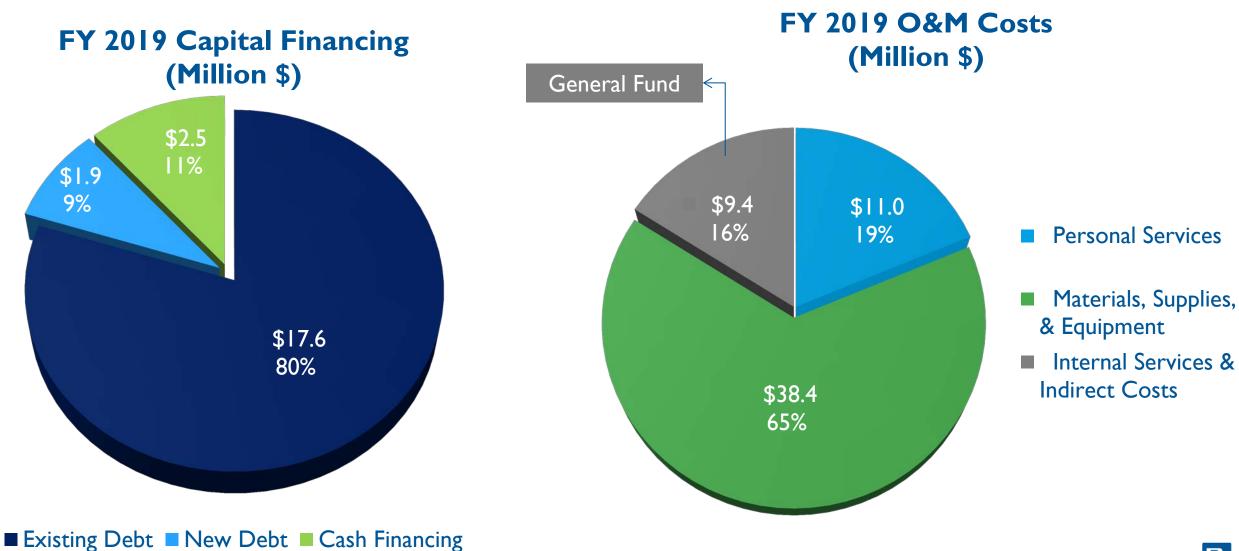
Debt Service Projections

• Existing Debt Service: \$108.3 M

Proposed Debt Service: \$ 29.9 M

Description	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)
Existing Debt Service	17.6	18.1	17.5	18.6	18.0	18.5	108.3
Future Debt Service	1.9	2.9	4.9	6.2	6.6	7.5	29.9
Total	19.5	21.0	22.3	24.8	24.6	26.1	138.2

Summary of FY 2019 Revenue Requirements



Proposed Financial Plan

Key Assumptions:

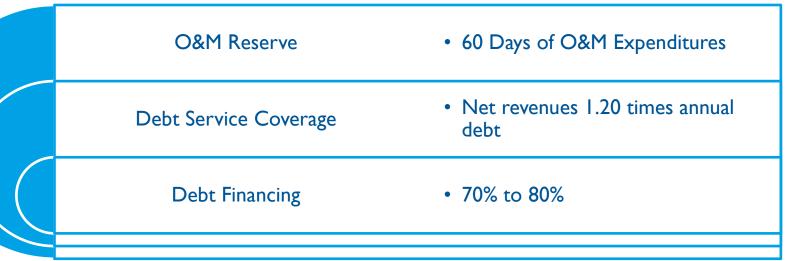
- Usage and Accounts
 projected at the FY 2018
- 2. NCC will pay its fair share of costs
- \$6.0 Million in Rate
 Stabilization Fund in FY
 2018
- 4. Operating reserve & Rate
 Stabilization balance will be dedicated to the
 Water/Sewer fund
- No transfers to the General Fund
- 6. FY 2019 rates will be effective **September 1**, **2018**
- 7. Monthly billing transition effective July 1, 2018

#	Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
1	Rate Increase (Water/Sewer)	4.00%	4.00%	5.60%	5.60%	5.60%	4.50%	4.25%
2	Rate Increase (Stormwater)	0.00%	0.00%	0.00%	2.00%	2.00%	2.00%	2.00%
3	Estimated Revenues	(\$M) 80.85	(\$M) 81.15	(\$M) 84.32	(\$M) 87.55	(\$M) 90.95	(\$M) 93.78	(\$M) 96.52
4	Less: O&M Expenditures	(57.33)	(58.88)	(60.39)	(62.09)	(63.65)	(65.40)	(67.24)
5	Less: Debt Service	(16.62)	(19.45)	(21.00)	(22.31)	(24.79)	(24.60)	(26.08)
6	Annual Operating Balance (Line 3 + Line 4 + Line 5)	6.90	2.82	2.93	3.15	2.51	3.78	3.20
7	Add: Beginning Year Operating Balance	11.14	9.55	8.37	9.01	9.66	10.48	10.77
8	Add: Water/Sewer Fund Other Revenues	3.50	0.00	0.00	0.00	0.00	0.00	0.00
9	Estimated Operating Balance (Line 6 + Line 7 +Line 8)	21.54	12.37	11.30	12.16	12.17	14.26	13.97
10	Less: Cash Financed Capital	(6.00)	(2.50)	(4.50)	(5.90)	(3.35)	(3.00)	(3.00)
11	Less: (Deposit to RSF) Add: Withdraw from RSF	(6.00)	(1.50)	2.20	3.40	1.65	(0.50)	0.15
12	Estimated Operating Balance (Line 9 + Line 10 + Line 11)	9.54	8.37	9.00	9.66	10.47	10.76	11.12
13	Target O&M Reserve (60 Days of Annual O&M)	9.42	9.68	9.93	10.21	10.46	10.75	11.05
14	Rate Stabilization Fund Balance	6.0	7.5	5.3	1.9	0.3	0.8	0.6

Proposed Financial Plan: Performance on Key Indicators

	Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
а	Rate Increase (Water/Sewer)	4.00%	4.00%	5.60%	5.60%	5.60%	4.50%	4.25%
b	Rate Increase (Stormwater)	0.00%	0.00%	0.00%	2.00%	2.00%	2.00%	2.00%
1	O&M Reserve (Days) (60 Days of Annual O&M)	60.7	51.9	54.4	56.8	60.0	60.1	60.4
2	Debt Coverage Ratio	1.42	1.15	1.14	1.14	1.10	1.15	1.12
3	Debt Financed Capital Ratio	0.69	0.95	0.83	0.72	0.78	0.73	0.73

Target: Performance targets reflect "Minimum" utility best financial management practices



Comparison with Prior Six Year Financial Forecast (FY2017 Rate Study)

	Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
а	Rate Increase (Water/Sewer)	4.00%	4.50%	4.50%	4.25%	4.00%	3.75%
b	Rate Increase (Stormwater)	0.00%	0.00%	0.00%	0.00%	4.00%	3.75%
1	O&M Reserve (Days) (60 Days of Annual O&M)	60.14	60.09	60.59	60.73	60.92	61.20
2	Debt Coverage Ratio	1.40	1.21	1.15	1.16	1.05	1.07
3	Debt Financed Capital Ratio	0.78	0.89	0.88	0.83	0.87	0.81

Residential Bill Impact (FY 2019) @2,000 gallons of Monthly Usage

FY 2019 Rate Increase Impact on Typical Residential Customer

Water, Sewer & Stormwater Typical Monthly Bill Impact

(Inside City Residential 5/8 inch meter @ 2,000 gallons monthly consumption)

Services	Monthly Charge FY 2018	Monthly Charge FY 2019	Monthly Increase
Water	19.40	18.48	(0.92)
Sewer	14.55	13.86	(0.69)
Stormwater	4.95	4.95	0.00
Total Bill	\$38.90	\$37.29	(\$1.62)

- Nearly 33% of the Inside City customers use 2,000 gallons or less per month
- Reduction is due to the proposed decrease in usage allowance from 8,000 gallons to 6,000 gallons

Residential Bill Impact (FY 2019) @4,000 gallons of Monthly Usage

FY 2019 Rate Increase Impact on Typical Residential Customer

Water, Sewer & Stormwater Typical Monthly Bill Impact

(Inside City Residential 5/8 inch meter @ 4,000 gallons monthly consumption)

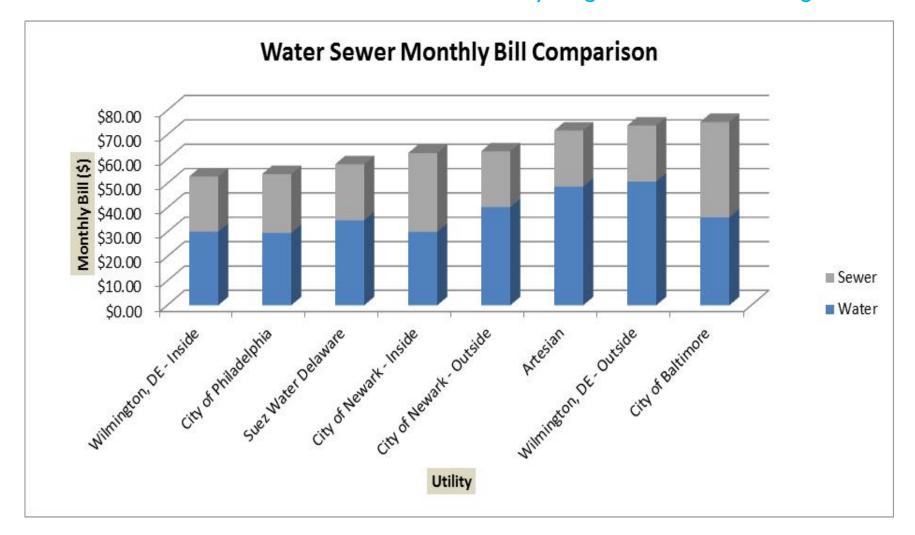
	Monthly Charge	Monthly Charge	
Services	FY 2018	FY 2019	Monthly Increase
Water	26.91	30.19	3.28
Sewer	20.18	22.64	2.46
Stormwater	4.95	4.95	0.00
Total Bill	\$52.04	\$57.78	\$5.74

- 33% of the Residential customers use between 2,000 and 4,000 gallons per month;
- Increase is due to the cumulative effect of rate increase coupled with the proposed decrease in usage allowance from 8,000 gallons to 6,000 gallons



Peer Utility Benchmarking (FY 2019 Rates)

Based on a 5/8" Residential Meter with a monthly usage allowance of 4,000 gallons



Recommendations

We recommend the implementation of this six-year financial plan to begin the journey towards sustainability and on to resiliency

In Summary....

The Enterprise Fund needs to sustain its path towards financial resiliency

Build Financial Adequacy

30 Days O&M Reserve
1.1 Debt Coverage
100% Debt Financing

Transition to Financial Sustainability

60 Days O&M Reserve
1.2 Debt Coverage
80% Debt Financing

Position for Long Term Financial Resiliency

120 Days O&M Reserve1.3 Debt Coverage70% Debt Financing







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