

Appendix H
Data and Graphics on Affordability

Affordability Analysis Details

The following document summarizes the financial data used for evaluation of rate impacts and key assumptions and inputs for the evaluation of rate impacts associated with CSO projects. Also included are detailed tables and figures for the projected affordability impacts.

Affordability Analysis

The affordability of wastewater services encompasses a number of elements that include the ability of a community to finance required facilities and the ability of individual customers to pay their bills for service.

In addition, for combined sewer overflow and sanitary sewer overflow programs, there is a regulatory element to the consideration of affordability. The negotiation of programs and schedules between local utilities and the Federal and state regulatory agencies are often closely tied to Federal guidance documents that define a framework for assessing the capability of communities to undertake the identified programs.

Federal Guidance on Financial Capability Assessment for CSO Programs

The primary Federal guidance document related to affordability for CSO/SSO programs is the February 1997 EPA document *Combined Sewer Overflows – Guidance for Financial Capability Assessment and Schedule Development* (the Guidance). As detailed below, there are two primary elements in the analysis of financial capability:

- **Permittee Financial Indicator Score**, which assess whether the community's overall financial position is strong, mid-range, or weak, based on a number of components such as bond rating and unemployment rates.
- **Financial Capability Matrix**, which defines whether the burden imposed by wastewater programs is low, medium, or high, based on charge annual cost of sewer service for a household with a median household income (MHI) for the community.

Permittee Financial Indicator Score

As illustrated in Figure H-1, the Guidance identifies six components for the financial indicator score:

- Bond Rating
- Net Debt as Percent of Full Market Value
- Unemployment Rate
- Median Household Income
- Property Tax Revenues as a Percent of Full Market Value
- Property Tax Rate Collection

For each of these components, there is a possible score of 1 (weak), 2 (mid-range), or 3 (strong), depending on the community's performance. Figure H-1 summarizes the performance levels that constitute weak, mid-range, and strong performance for each of these indicators.

Indicator	Strong	Mid-Range	Weak
Bond Rating	AAA-A (S&P) Aaa-A (Moody's)	BBB (S&P) Baa (Moody's)	BB-D (S&P) Ba-C (Moody's)
Overall Net Debt as a Percent of Full Market Property Value	Below 2%	2% - 5%	Above 5%
Unemployment Rate	More than 1 Percentage Point Below the National Average	+ Percentage Point of National Average	More than 1 Percentage Point Above the National Average
Median Household Income	More than 25% Above Adjusted National MHI	+ 25% of Adjusted National MHI	More than 25% Below Adjusted National MHI
Property Tax Revenues as a Percent of Full Property Value	Below 2%	2% - 4%	Above 4%
Property Tax Collection Rate	Above 98%	94% - 98%	Below 94%
EPA Scoring	3	2	1

Figure H-1.EPA Guidance’s Framework for Scoring Financial Indicators

The scores for the individual indicators are averaged. The guidance identifies the following range of resulting scores:

- Weak (Below 1.5)
- Mid-range (Between 1.5 and 2.5)
- High (Above 2.5)

Financial Capability Matrix

Figure H-2 illustrates the financial capability matrix. The Guidance identifies this matrix as the method for determining when wastewater charges are considered to impose an excessive burden on the community’s rate payers. As illustrated in the figure, the two primary inputs to the matrix are the permittee financial indicators score and the Residential Indicator Score. The Residential Indicator Score is the percent of annual income that a household with the community’s median income is required to pay for wastewater program services. Wastewater services include the CSO/SSO program and also include the ongoing costs for wastewater collection and treatment and administrative costs, such as management of the utility and costs associated with customer service and billing. For example, if a community Financial Indicators score is in the mid-range category, the financial burden is considered high when a household with a median income is required to pay more than 2% of its income for wastewater services.

Permittee's Financial Capability Indicators Score	Residential Indicator (Cost Per Household as a Percent of Median Household Income)		
	Low (Below 1%)	Medium (Between 1% and 2%)	High (Above 2.0%)
Weak(Below 1.5)	Medium Burden	High Burden	High Burden
Mid- Range (Between 1.5 and 2.5)	Low Burden	Medium Burden	High Burden
High (Above 2.5)	Low Burden	Low Burden	Medium Burden

Figure H-2. EPA Guidance’s Financial Capability Matrix

Local Considerations Considered in Financial Capability Assessment Analyses

The financial capability assessment analyses based on impact on a household earning MHI defined in the Guidance are often key considerations in the negotiation of CSO/SSO program requirements with Federal and state regulators, because these groups rely heavily on the framework suggested in the Guidance in their consideration of what constitutes an affordable program.

Many communities have found that the analyses suggested in the Guidance do not tell the full story regarding whether the suggested CSO/SSO program represents an excessive burden on its customers. Some of the considerations related to affordability that go beyond the elements defined in the Guidance are defined below:

- Excluded Elements
- Snapshot Analysis
- Income Profile Beyond MHI
- Local Priorities/Considerations

Excluded Elements

The Guidance excludes some items that can significantly affect a community's overall financial position and ability to pay for large wastewater capital programs. For example, in assessing Net Debt as a percent of Market Value, the Guidance specifically indicates that only general obligation debt is to be included. As a result, existing outstanding utility system debt that is revenue supported only, including both wastewater and drinking water debt, is excluded. In addition, any other revenue bonds that the communities may have issued to support other public service objectives could also significantly affect a community's financial capability but are excluded from the calculations. In the case of the City of Newport (the City), there is substantial debt associated with the City's drinking water system; the need for the community to repay that debt is a major burden on the City's residents and businesses, despite the fact that it is excluded from the Guidance's calculation of financial capability.

Also, some of the elements of the permittee financial indicators are expressed only in relation to national averages (for example, unemployment rates). Over time a community's absolute financial capability could decline if unemployment rates increase, with the decline being masked in the scoring if unemployment rates increased overall throughout the United States.

Snapshot Analysis

The calculation of financial capability and associated burden as defined in the Guidance is a single point in time analysis. A number of factors could cause changes in the assessment of financial capability over time, including, but not limited to:

- Reductions in resident/customer income
- Loss of property value
- Loss of revenue as a result of reductions in utility system usage over time through conservation, loss of population, reductions in business activity, or other factors
- Degradation of the community's financial position, such as reduction in bond rating due to the magnitude of outstanding debt to support mandated programs, general declines in the bond market, or other factors

Many communities throughout the United States experienced some or all of these factors during the past three years as fallout of the collapse of the world financial markets that began in late 2008. Over the course of a 20- or 30-year repayment period, the possibility of such negative factors affecting the affordability of mandated programs has a reasonable probability of occurring for many utility systems. Committing to a long-term capital program at the very edges of affordability based on a single point of time analysis based on today's financial conditions has a reasonable prospect of requiring utilities to build systems that will impose a severe financial hardship on customers.

Income Profile Beyond MHI

The impact of utility system charges on a household that earns a median income for the community may not be the best indicator of the affordability of a program on the community. For example, the income profile for communities varies and there may be a significant number of households well below the median income level. In that case, there may be many households severely affected by paying for the wastewater program, even if the program appears to be affordability for a household earning around the MHI.

Local Priorities/Considerations

Many communities face a variety of public improvement needs, such as the need to replace aging roads, bridges, and public buildings at the same time that investment in wastewater systems is required. Based on the full range of community needs, the stakeholders and leaders of a community may simply disagree that they can afford the level of investment in wastewater systems implied by the static, point-in-time analyses defined in the Guidance.

Financial Data Used for Evaluation of Rate Impacts

The rate impacts for the selected scenarios incorporate financial data from the City of Newport as well as several assumptions, based on the best information that is available to date. The key data sources and assumptions are outlined below.

Operating and Maintenance

Table H-1 summarizes the WPCP O&M expenditures for Fiscal Years 2010 to 2012. The rate analysis assumes cash basis evaluation and does not include interest expense and depreciation. For projections of O&M expenditures an inflation rate of 3 percent is applied starting with FY2012.

TABLE H-1

Annual WPC Operating and Maintenance Costs (2010 – 2012)

Fiscal Year	2010 Actual	2011 Budget	2012 Adopted
Salaries	\$178,525	\$124,902	\$130,634
Fringe Benefits	\$89,061	\$96,999	\$99,274
Purchased Services	\$3,815,977	\$3,947,919	\$4,553,068
Utilities	\$604,144	\$585,383	\$665,000
Internal Services	\$684,525	\$732,884	\$724,683
Other Charges	\$8,720	\$27,500	\$25,900
Materials and Supplies			
Total Operating*	\$5,380,952	\$5,515,587	\$6,198,559
Percent Change		2.50%	12.38%

Source: City of Newport, RI Adopted Budget FY 2012. Available online at <http://www.cityofnewport.com/departments/finance/cafr.cfm>

*does not include Interest Expense and Depreciation.

Existing Debt Service

Table H-2 summarizes the existing WPC debt service. The FY 2012 Budget identifies the following bond issues:

- Thames Street Interceptor Improvements/Wellington (State Revolving Loan Fund Revenue Bonds 2010 Series B)
- SRF Loan Revenue Bonds – 2011 Series A, eligible portion of Sewer Force Main Repair
- SRF Loan Revenue Bonds – Series 2009, Railroad and Ultraviolet Moat Projects

- Catch Basin Separation & High Priority Sewers (State Revolving Loan Fund Revenue Bonds - Series 2009)
- 2002 Revenue Bonds Issue – Primary / Secondary Plant

TABLE H-2

Exiting WPC Debt Service on Outstanding Debt (2012 – 2032)

Fiscal Year	Principal	Interest	Total
2012	\$1,138,833	\$1,091,317	\$2,230,150
2013	\$1,765,409	\$1,106,665	\$2,872,074
2014	\$1,826,162	\$1,060,688	\$2,886,850
2015	\$1,885,272	\$1,011,101	\$2,896,373
2016	\$1,941,910	\$958,065	\$2,899,975
2017	\$2,010,949	\$901,416	\$2,912,365
2018	\$2,078,251	\$841,083	\$2,919,334
2019	\$2,148,153	\$777,345	\$2,925,498
2020	\$2,225,526	\$710,191	\$2,935,717
2021	\$2,304,554	\$639,499	\$2,944,053
2022	\$2,392,099	\$565,000	\$2,957,099
2023	\$2,483,194	\$486,575	\$2,969,769
2024	\$1,682,496	\$412,770	\$2,095,266
2025	\$1,747,991	\$343,903	\$2,091,894
2026	\$1,821,020	\$271,731	\$2,092,751
2027	\$1,895,048	\$196,131	\$2,091,179
2028	\$1,007,609	\$138,414	\$1,146,023
2029	\$1,045,017	\$99,429	\$1,144,446
2030	\$1,085,561	\$58,802	\$1,144,363
2031	\$738,605	\$23,714	\$762,319
2032	\$216,505	\$4,666	\$221,171
Total	\$35,440,164	\$11,698,505	\$47,138,669

Source: City of Newport, RI Adopted Budget FY 2012. Available online at <http://www.cityofnewport.com/departments/finance/cafr.cfm>

CIP (FY2013-2017)

Table H-3 presents the FY 2013 – 2017 Water Pollution Control CIP, which shows an average annual CIP of approximately \$5,600,000. The table also identifies the funding source for each project. For purposes of the affordability analysis, CSO projects identified by CH2M HILL may include or supersede projects identified in Table H-3.

TABLE H-3

City of Newport, RI FY2013-17 CIP Water Pollution Control

CIP (FY 2013-2018)	Funding Source	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Prog Mgr for CSO implementation	CSO fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Implement System Mater Plan for CSO	CSO debt	\$500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Treatment Plant Op Imp 1	CSO fees	\$250,000	\$2,000,000			

TABLE H-3

City of Newport, RI FY2013-17 CIP Water Pollution Control

CIP (FY 2013-2018)	Funding Source	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Treatment Plant Op Imp 2	CSO fees			\$1,500,000		
Treatment Plant Op Imp 3	CSO fees				\$3,000,000	
Beach Pump	Rates	\$317,500				
Sanitary Sewer Sys Imp 1	Rates	\$2,150,000				
Sanitary Sewer Sys Imp 2	Rates	\$200,000	\$750,000	\$2,000,000		
Sanitary Sewer Sys Imp 3	Rates		\$200,000	\$750,000	\$2,000,000	
Sanitary Sewer Sys Imp 4	Rates			\$200,000	\$750,000	\$2,000,000
Stormwater Infra Imp	Rates	\$100,000	\$100,000	\$100,000	\$100,000	
Almy Pond TMDL	Rates	\$70,000	\$100,000			
Audit of Contract Operations	Rates	\$100,000				
Sub-total CIP (FY 2013-2018)		\$4,687,500	\$5,150,000	\$6,550,000	\$7,850,000	\$4,000,000

Source: City of Newport, RI. January 20, 2012. "City of Newport, Rhode Island Recommended Capital Improvement Program FY 2013 – 2017.

Non-Rate Revenue and Wholesale Service Revenues

In order to estimate the revenue requirements for rate projections, non-rate revenues and revenues from wholesale services are deducted. These are deducted so that rate revenue requirements are specific to the Sewer Charge and CSO Fixed Fee. Table H-4 summarizes non-rate revenues and revenues from wholesale services. Given the current market conditions, interest income is assumed to be negligible. Further, revenues from wholesale services are based on service agreements which typically specify terms and conditions for escalation of costs. Information on wholesale service agreements are not available and therefore wholesale revenues is assumed constant.

TABLE H-4

Non-Rate Revenue and Wholesale Service Revenues

Fiscal Year	2010 Actual	2011 Budget	2012 Adopted
Investment Interest Income	\$4,026	\$4,000	\$3,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$867,030	\$1,206,053	\$1,200,000
Sewage Treat. Middletown	\$977,528	\$717,038	\$711,300
Sewer Treatment, U.S.N.	\$601,565	\$569,495	\$615,600
Middletown and Navy share of debt	\$0	\$542,207	\$327,999
Total	\$2,450,149	\$3,038,793	\$2,857,899

Source: City of Newport, RI Adopted Budget FY 2012. Available online at <http://www.cityofnewport.com/departments/finance/cafr.cfm>

Key Financial Assumptions Used for Evaluation of Rate Impacts

There were several key assumptions that were used for the evaluation of rate impacts as described below.

Debt Financing

- No grants or other outside funding is assumed because of the current economic conditions. It is possible that grants could become available in the future and would help to lower the rate revenue requirements, thus help to keep sewer rates as percent of MHI below 2 percent.

- Debt financing of CSO program cost assumes an interest rate of 5.5 percent, 20 year term, 2 percent cost of issuance, 10 percent bond reserve, and debt service coverage allowance of 1.25. This is based on e-mail correspondence from Utilities Department and Rebuttal Testimony Of Maureen E. Gurghigian Managing Director First Southwest Company On Behalf Of The City Of Newport, Utilities Department, Water Division In re: City of Newport Utilities Department, Water Division Docket No. 4243 September 21, 2011. RICWFA assists the City in issuing bonds, either subsidized or at market rates. If RICWFA has the capacity to allow the City to use SRF funding, then the bonds could be subsidized (i.e., lower interest rate). Otherwise, RICWFA would sell a bond issue on behalf of City and would market rates would apply.
- For capital financing, rate analysis assumes 90 percent of the capital program debt financed and 10 percent is equity (Pay as you Go) funded. Municipalities typically do not debt finance 100 percent of the capital needs because some capital expenditures are not eligible for bond funding because of capitalization thresholds or other reasons. For purposes of this analysis 90 percent debt funding and 10 percent equity funding was agreed to be a reasonable assumption and actual percentage are subject to changes base on future economic conditions.

Revenue

- Typical Residential Bill based on 5/8-inch meter and 12,000 gallons water consumption (based on the average water consumption of residential accounts for FY 2012 per e-mail from Utilities Department). For sewer billing the City assumes 100 percent of water consumption.
- Revenue Requirements for Sewer Charge and CSO Fixed Fee assume an 80 percent and 20 percent allocation, respectively. The rational for this is based on the estimated 2012 revenues for the Sewer Charge and CSO Fixed Fee, in which there is an 80/20 split. Funding all of the proposed CSO costs with the CSO Fixed Fee would result in significant increases. These increases would affect accounts with the larger meter sizes. In order to keep the CSO Fixed Fee stable, the 80/20 allocation is a reasonable assumption for planning purposes. A more detailed cost of service analysis is not part of this analysis and is recommended as a next step.

System Usage

- Growth in the number of accounts assumes 0.1 percent for residential and 0 percent for commercial. Based on e-mail from Utilities Department, the number of new accounts added to the system include 18 for FY 08, 12 for FY09, 7 for FY10, 13 for FY11, and 18 for FY12. This represents an annual growth rate of 0.15 percent. For purposes of this analysis and to be conservative 0.1 percent growth rate is assumed for residential accounts. Based on the development patterns of Newport, minimal growth is anticipated for new connections. The number accounts by meter size as of September 2012 are provided in Table H-5.

TABLE H-5

Number of Accounts by Meter Size

Meter Size	Residential	Non-Residential*	Total
5/8	6,656	450	7,106
3/4	1,236	128	1,364
1	243	95	338
1.5	136	82	218
2	56	86	142
3	20	28	48
4	1	6	7
6	2	6	8
Total	8,350	881	9,231

Source: October 2, 2012 e-mail from Newport, RI Utilities Department.

*includes commercial and governmental

- Growth in system usage over time assumes 0 percent. Based on information presented in the Department of Utilities Water Pollution Control Budget Workshop FY 2012 presentation, there is a downward trend in water consumption (sewer flow). This could be attributed to water conservation, rainfall (decrease in outside water use), etc. It is assumed that sewer flows are not expected to increase because of water conservation, no new commercial/industrial activities with significant sewer flows. For purposes of this analysis, annual water consumption is assumed to be 700 million gallons.

Median Household Income

- FY 2012 Median Household Income is estimated to \$59,705. This is based on adjusting the MHI reported in the 2010 Census and adjusted to current year dollars (\$55,961 in 2009 dollars is adjusted to \$59,705 in current year dollars based on the annual average CPI-U).
- Growth in MHI assumes 1.8 percent. This is based on the CPI-U (<ftp://ftp.bls.gov/pub/special.requests/cpi/cpi.ai.txt>) 2011 – 2012.
- Assumed growth of the MHI is shown in Figure H-3.

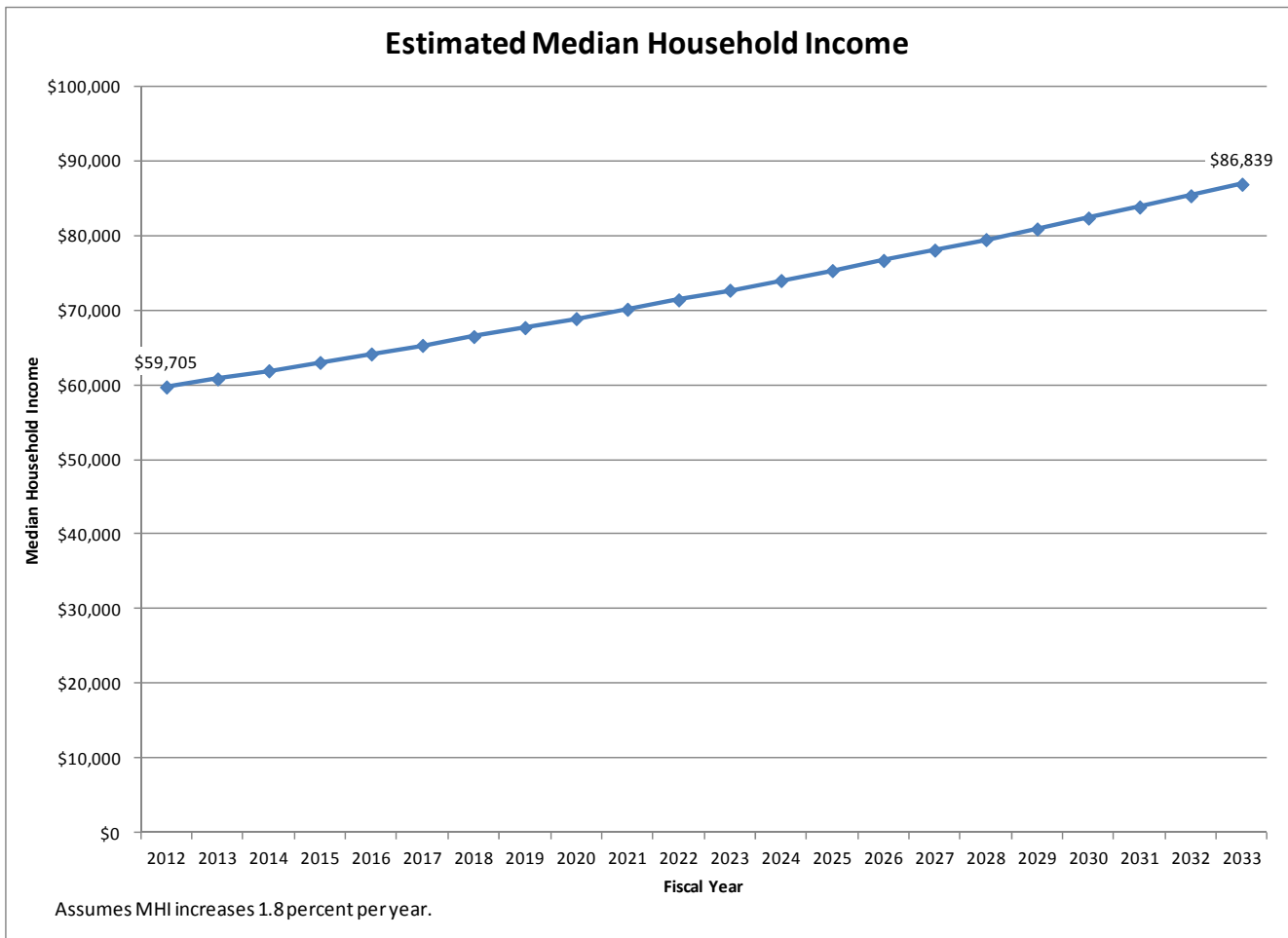


Figure H-3. Estimated Median Household Income Growth through 2033.

Selected Control Scenario Costs

- O&M associated with additional CSO programs is estimated based on cost estimates prepared by CH2M HILL.
- O&M and capital costs are escalated assuming a 3 percent rate of inflation. This is a general assumption used for planning purposes. Inflation is uncertain and the actual inflation rate could be more or less. Historically, the inflation rate, as measured by the CPI-U (<ftp://ftp.bls.gov/pub/special.requests/cpi/cpi.txt>), has been less than 3 percent. However, to be conservative 3 percent is reasonable for planning purposes.

Affordability and Rate Impact Details

- Table H-6 provides the affordability and rate impact details for Alternative C1A.
- Table H-7 provides the affordability and rate impact details for Alternative E1.
- Table H-8 provides the affordability and rate impact details for Alternative S3A.

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement												
Operating												
Salaries	\$130,634	\$134,553	\$138,590	\$142,747	\$147,030	\$151,441	\$155,984	\$160,663	\$165,483	\$170,448	\$175,561	\$180,828
Fringe Benefits	\$99,274	\$102,252	\$105,320	\$108,479	\$111,734	\$115,086	\$118,538	\$122,094	\$125,757	\$129,530	\$133,416	\$137,418
Purchased Services	\$4,553,068	\$4,689,660	\$4,830,350	\$4,975,260	\$5,124,518	\$5,278,254	\$5,436,601	\$5,599,699	\$5,767,690	\$5,940,721	\$6,118,943	\$6,302,511
Utilities	\$665,000	\$684,950	\$705,499	\$726,663	\$748,463	\$770,917	\$794,045	\$817,866	\$842,402	\$867,674	\$893,704	\$920,516
Internal Services	\$724,683	\$746,423	\$768,816	\$791,881	\$815,637	\$840,106	\$865,309	\$891,269	\$918,007	\$945,547	\$973,913	\$1,003,131
Other Charges	\$25,900	\$26,677	\$27,477	\$28,302	\$29,151	\$30,025	\$30,926	\$31,854	\$32,809	\$33,794	\$34,807	\$35,852
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP			\$0	(\$3,399)	\$9,027	\$4,813	\$338	(\$4,410)	(\$9,443)	(\$14,775)	\$70,969	\$67,743
Total Operating (A)	\$6,198,559	\$6,384,516	\$6,576,051	\$6,769,934	\$6,985,560	\$7,190,642	\$7,401,741	\$7,619,035	\$7,842,706	\$8,072,939	\$8,401,314	\$8,647,998
(excluding Interest Expense and Depreciation)												
Debt Service												
Existing Debt Service	\$2,230,150	\$2,872,074	\$2,886,850	\$2,896,373	\$2,899,975	\$2,912,365	\$2,919,334	\$2,925,498	\$2,935,717	\$2,944,053	\$2,957,099	\$2,969,769
Coverage Allowance	\$557,538	\$160,481	\$3,694	\$2,381	\$901	\$3,098	\$1,742	\$1,541	\$2,555	\$2,084	\$3,262	\$3,168
Projected Debt Service		\$0	\$488,939	\$1,284,289	\$2,515,233	\$3,853,721	\$4,997,430	\$5,921,230	\$6,438,100	\$7,423,362	\$7,946,761	\$8,383,800
Coverage Allowance		\$0	\$122,235	\$198,838	\$307,736	\$334,622	\$285,927	\$230,950	\$129,218	\$246,316	\$130,850	\$109,260
Total Debt Service and Coverage (B)	\$2,787,688	\$3,032,555	\$3,501,717	\$4,381,880	\$5,723,845	\$7,103,805	\$8,204,433	\$9,079,219	\$9,505,590	\$10,615,815	\$11,037,971	\$11,465,996
PAY-AS-YOU-GO CIP												
PAY-AS-YOU-GO CIP		\$0	\$579,663	\$942,930	\$1,459,351	\$1,586,849	\$1,355,929	\$1,095,215	\$612,777	\$1,168,081	\$620,517	\$518,133
Total PAY-AS-YOU-GO (C)	\$0	\$0	\$579,663	\$942,930	\$1,459,351	\$1,586,849	\$1,355,929	\$1,095,215	\$612,777	\$1,168,081	\$620,517	\$518,133
Less Non-Rate Revenues												
Sewage Treat. Middletown	\$711,300	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,600	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$327,999	\$333,000	\$385,000	\$482,000	\$629,000	\$781,000	\$902,000	\$998,000	\$1,045,000	\$1,167,000	\$1,214,000	\$1,261,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$2,857,899	\$2,662,000	\$2,714,000	\$2,811,000	\$2,958,000	\$3,110,000	\$3,231,000	\$3,327,000	\$3,374,000	\$3,496,000	\$3,543,000	\$3,590,000
Total Revenue Requirements (E=A+B+C-D)	\$6,128,348	\$6,755,071	\$7,943,432	\$9,283,744	\$11,210,755	\$12,771,296	\$13,731,103	\$14,466,470	\$14,587,073	\$16,360,835	\$16,516,802	\$17,042,127
Percent Change above FY 2012		110%	130%	151%	183%	208%	224%	236%	238%	267%	270%	278%
Allocation of Revenue Requirement (\$)												
Sewer Charge (\$/kgal)		\$5,404,057	\$6,354,745	\$7,426,995	\$8,968,604	\$10,217,037	\$10,984,882	\$11,573,176	\$11,669,658	\$13,088,668	\$13,213,442	\$13,633,702
CSO fixed fee (meter size)		\$1,351,014	\$1,588,686	\$1,856,749	\$2,242,151	\$2,554,259	\$2,746,221	\$2,893,294	\$2,917,415	\$3,272,167	\$3,303,360	\$3,408,425
Total		\$6,755,071	\$7,943,432	\$9,283,744	\$11,210,755	\$12,771,296	\$13,731,103	\$14,466,470	\$14,587,073	\$16,360,835	\$16,516,802	\$17,042,127

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement										
Operating										
Salaries	\$186,253	\$191,840	\$197,596	\$203,524	\$209,629	\$215,918	\$222,000	\$228,000	\$234,000	\$241,000
Fringe Benefits	\$141,541	\$145,787	\$150,161	\$154,666	\$159,306	\$164,085	\$169,000	\$174,000	\$179,000	\$184,000
Purchased Services	\$6,491,586	\$6,686,334	\$6,886,924	\$7,093,532	\$7,306,338	\$7,525,528	\$7,700,000	\$7,900,000	\$8,100,000	\$8,300,000
Utilities	\$948,131	\$976,575	\$1,005,872	\$1,036,048	\$1,067,130	\$1,099,144	\$1,130,000	\$1,160,000	\$1,190,000	\$1,220,000
Internal Services	\$1,033,225	\$1,064,221	\$1,096,148	\$1,129,033	\$1,162,903	\$1,197,791	\$1,230,000	\$1,260,000	\$1,290,000	\$1,320,000
Other Charges	\$36,927	\$38,035	\$39,176	\$40,351	\$41,562	\$42,809	\$44,000	\$45,000	\$46,000	\$47,000
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP	\$64,259	\$60,506	\$56,469	\$52,135	\$47,491	\$42,521	\$37,211	\$31,543	\$25,502	\$19,070
Total Operating (A)	\$8,901,922	\$9,163,298	\$9,432,345	\$9,709,288	\$9,994,359	\$10,287,795	\$10,532,211	\$10,798,543	\$11,064,502	\$11,331,070
(excluding Interest Expense and Depreciation)										
Debt Service										
Existing Debt Service	\$2,095,266	\$2,091,894	\$2,092,751	\$2,091,179	\$1,146,023	\$1,144,446	\$1,144,363	\$762,319	\$221,171	
Coverage Allowance	(\$218,626)	(\$843)	\$214	(\$393)	(\$236,289)	(\$394)	(\$21)	(\$95,511)		
Projected Debt Service	\$8,866,543	\$9,394,331	\$9,983,420	\$10,590,183	\$11,096,830	\$11,656,463	\$12,268,313	\$12,951,229	\$13,654,633	\$14,241,977
Coverage Allowance	\$120,686	\$131,947	\$147,272	\$151,691	\$126,662	\$139,908	\$152,963	\$170,729	\$175,851	\$146,836
Total Debt Service and Coverage (B)	\$10,863,870	\$11,617,329	\$12,223,658	\$12,832,659	\$12,133,226	\$12,940,422	\$13,565,618	\$13,788,766	\$14,051,655	\$14,388,812
PAY-AS-YOU-GO CIP										
PAY-AS-YOU-GO CIP	\$572,319	\$625,720	\$698,397	\$719,349	\$600,658	\$663,474	\$725,381	\$809,634	\$833,923	\$696,327
Total PAY-AS-YOU-GO (C)	\$572,319	\$625,720	\$698,397	\$719,349	\$600,658	\$663,474	\$725,381	\$809,634	\$833,923	\$696,327
Less Non-Rate Revenues										
Sewage Treat. Middletown	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$1,195,000	\$1,277,000	\$1,344,000	\$1,411,000	\$1,334,000	\$1,423,000	\$1,492,000	\$1,516,000	\$1,545,000	\$1,582,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$3,524,000	\$3,606,000	\$3,673,000	\$3,740,000	\$3,663,000	\$3,752,000	\$3,821,000	\$3,845,000	\$3,874,000	\$3,911,000
Total Revenue Requirements (E=A+B+C-D)	\$16,814,110	\$17,800,347	\$18,681,401	\$19,521,297	\$19,065,243	\$20,139,692	\$21,002,210	\$21,551,943	\$22,076,080	\$22,505,210
Percent Change above FY 2012	274%	290%	305%	319%	311%	329%	343%	352%	360%	367%
Allocation of Revenue Requirement (\$)										
Sewer Charge (\$/kgal)	\$13,451,288	\$14,240,278	\$14,945,121	\$15,617,038	\$15,252,194	\$16,111,753	\$16,801,768	\$17,241,555	\$17,660,864	\$18,004,168
CSO fixed fee (meter size)	\$3,362,822	\$3,560,069	\$3,736,280	\$3,904,259	\$3,813,049	\$4,027,938	\$4,200,442	\$4,310,389	\$4,415,216	\$4,501,042
Total	\$16,814,110	\$17,800,347	\$18,681,401	\$19,521,297	\$19,065,243	\$20,139,692	\$21,002,210	\$21,551,943	\$22,076,080	\$22,505,210

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts												
5/8 Res	6,656	6,663	6,670	6,677	6,684	6,691	6,698	6,705	6,712	6,719	6,726	6,733
3/4 Res	1,236	1,237	1,238	1,239	1,240	1,241	1,242	1,243	1,244	1,245	1,246	1,247
1 Res	243	243	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
Total Accounts	9,231	9,239	9,247	9,255	9,263	9,271	9,279	9,287	9,295	9,303	9,311	9,319
<i>Percent Change above FY 2012</i>		100.09%	100.17%	100.26%	100.35%	100.43%	100.52%	100.61%	100.69%	100.78%	100.87%	100.95%
Sewer Flows (thousand gallons)												
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Sewer Flows	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts										
5/8 Res	6,740	6,747	6,754	6,761	6,768	6,775	6,782	6,789	6,796	6,803
3/4 Res	1,248	1,249	1,250	1,251	1,252	1,253	1,254	1,255	1,256	1,257
1 Res	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6
Total Accounts	9,327	9,335	9,343	9,351	9,359	9,367	9,375	9,383	9,391	9,399
<i>Percent Change above FY 2012</i>	<i>101.04%</i>	<i>101.13%</i>	<i>101.21%</i>	<i>101.30%</i>	<i>101.39%</i>	<i>101.47%</i>	<i>101.56%</i>	<i>101.65%</i>	<i>101.73%</i>	<i>101.82%</i>
Sewer Flows (thousand gallons)										
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Sewer Flows	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Projected Revenues												
Sewer Volume Charge												
Rate (\$/kgal)	\$11.27	\$11.27	\$11.27	\$11.27	\$12.81	\$14.60	\$15.69	\$16.53	\$16.67	\$18.70	\$18.88	\$19.48
Residential	\$6,198,500	\$6,198,500	\$6,198,500	\$6,198,500	\$7,045,500	\$8,030,000	\$8,629,500	\$9,091,500	\$9,168,500	\$10,285,000	\$10,384,000	\$10,714,000
Commercial	\$1,690,500	\$1,690,500	\$1,690,500	\$1,690,500	\$1,921,500	\$2,190,000	\$2,353,500	\$2,479,500	\$2,500,500	\$2,805,000	\$2,832,000	\$2,922,000
Sub-total Sewer Charge	\$7,889,000	\$7,889,000	\$7,889,000	\$7,889,000	\$8,967,000	\$10,220,000	\$10,983,000	\$11,571,000	\$11,669,000	\$13,090,000	\$13,216,000	\$13,636,000
CSO Fixed Fee (annual)												
5/8"	\$192	\$192	\$192	\$192	\$206	\$235	\$252	\$266	\$268	\$300	\$303	\$312
3/4"	\$192	\$192	\$192	\$192	\$206	\$235	\$252	\$266	\$268	\$300	\$303	\$312
1	\$265	\$265	\$265	\$265	\$285	\$324	\$348	\$367	\$369	\$414	\$418	\$431
1.5	\$500	\$500	\$500	\$500	\$537	\$612	\$657	\$692	\$697	\$781	\$788	\$813
2	\$733	\$733	\$733	\$733	\$788	\$897	\$963	\$1,014	\$1,022	\$1,145	\$1,155	\$1,191
3	\$1,774	\$1,774	\$1,774	\$1,774	\$1,906	\$2,170	\$2,332	\$2,455	\$2,473	\$2,772	\$2,796	\$2,883
4	\$2,951	\$2,951	\$2,951	\$2,951	\$3,171	\$3,610	\$3,878	\$4,083	\$4,114	\$4,611	\$4,652	\$4,796
6	\$5,894	\$5,894	\$5,894	\$5,894	\$6,334	\$7,210	\$7,746	\$8,155	\$8,217	\$9,210	\$9,291	\$9,579
CSO Fixed Fee Revenue												
5/8 Res	\$1,277,952	\$1,279,296	\$1,280,640	\$1,281,984	\$1,379,086	\$1,571,544	\$1,690,175	\$1,781,244	\$1,796,649	\$2,015,740	\$2,035,583	\$2,100,972
3/4 Res	\$237,312	\$237,504	\$237,696	\$237,888	\$255,845	\$291,479	\$313,407	\$330,214	\$332,990	\$373,507	\$377,094	\$389,115
1 Res	\$64,395	\$64,395	\$64,395	\$64,395	\$69,200	\$78,775	\$84,633	\$89,100	\$89,776	\$100,619	\$101,504	\$104,656
1.5 Res	\$68,000	\$68,000	\$68,000	\$68,000	\$73,074	\$83,185	\$89,371	\$94,088	\$94,802	\$106,252	\$107,186	\$110,515
2 Res	\$41,048	\$41,048	\$41,048	\$41,048	\$44,111	\$50,214	\$53,948	\$56,796	\$57,227	\$64,139	\$64,703	\$66,712
3 Res	\$35,480	\$35,480	\$35,480	\$35,480	\$38,127	\$43,403	\$46,630	\$49,092	\$49,465	\$55,439	\$55,926	\$57,663
4 Res	\$2,951	\$2,951	\$2,951	\$2,951	\$3,171	\$3,610	\$3,878	\$4,083	\$4,114	\$4,611	\$4,652	\$4,796
6 Res	\$11,788	\$11,788	\$11,788	\$11,788	\$12,668	\$14,420	\$15,493	\$16,310	\$16,434	\$18,419	\$18,581	\$19,158
5/8 Comm / Gov	\$86,400	\$86,400	\$86,400	\$86,400	\$92,847	\$105,693	\$113,553	\$119,547	\$120,455	\$135,003	\$136,190	\$140,418
3/4 Comm / Gov	\$24,576	\$24,576	\$24,576	\$24,576	\$26,410	\$30,064	\$32,300	\$34,004	\$34,263	\$38,401	\$38,738	\$39,941
1 Comm / Gov	\$25,175	\$25,175	\$25,175	\$25,175	\$27,053	\$30,797	\$33,087	\$34,833	\$35,098	\$39,337	\$39,683	\$40,915
1.5 Comm / Gov	\$41,000	\$41,000	\$41,000	\$41,000	\$44,059	\$50,155	\$53,885	\$56,729	\$57,160	\$64,064	\$64,627	\$66,634
2 Comm / Gov	\$63,038	\$63,038	\$63,038	\$63,038	\$67,742	\$77,115	\$82,849	\$87,222	\$87,885	\$98,499	\$99,365	\$102,450
3 Comm / Gov	\$49,672	\$49,672	\$49,672	\$49,672	\$53,378	\$60,764	\$65,283	\$68,728	\$69,250	\$77,614	\$78,297	\$80,728
4 Comm / Gov	\$17,706	\$17,706	\$17,706	\$17,706	\$19,027	\$21,660	\$23,271	\$24,499	\$24,685	\$27,666	\$27,909	\$28,776
6 Comm / Gov	\$35,364	\$35,364	\$35,364	\$35,364	\$38,003	\$43,261	\$46,478	\$48,931	\$49,303	\$55,257	\$55,743	\$57,474
Sub-total CSO fixed fee	\$2,081,857	\$2,083,393	\$2,084,929	\$2,086,465	\$2,243,802	\$2,556,138	\$2,748,239	\$2,895,419	\$2,919,556	\$3,274,567	\$3,305,782	\$3,410,922
Typical Annual Residential Sewer Bill												
Sewer Volume Charge	\$541	\$541	\$541	\$541	\$615	\$701	\$753	\$793	\$800	\$897	\$906	\$935
Sewer Charge Pct Increase		0%	0%	0%	14%	14%	7%	5%	1%	12%	1%	3%
CSO Fixed Fee (based on meter size)	\$192	\$192	\$192	\$192	\$206	\$235	\$252	\$266	\$268	\$300	\$303	\$312
CSO Fixed Fee Pct Increase		0%	0%	0%	7%	14%	7%	5%	1%	12%	1%	3%
Total Typical Residential Annual Sewer Bill	\$733	\$733	\$733	\$733	\$821	\$936	\$1,005	\$1,059	\$1,068	\$1,197	\$1,209	\$1,247
Median Household Income (MHI)												
	\$59,705	\$60,780	\$61,874	\$62,987	\$64,121	\$65,275	\$66,450	\$67,646	\$68,864	\$70,104	\$71,366	\$72,650
Typical Residential Annual Sewer Bill as Percent of MHI	1.23%	1.21%	1.18%	1.16%	1.28%	1.43%	1.51%	1.56%	1.55%	1.71%	1.69%	1.72%

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Projected Revenues										
Sewer Volume Charge										
Rate (\$/kgal)	\$19.48	\$20.34	\$21.35	\$22.31	\$22.31	\$23.02	\$24.00	\$24.63	\$25.23	\$25.72
Residential	\$10,714,000	\$11,187,000	\$11,742,500	\$12,270,500	\$12,270,500	\$12,661,000	\$13,200,000	\$13,546,500	\$13,876,500	\$14,146,000
Commercial	\$2,922,000	\$3,051,000	\$3,202,500	\$3,346,500	\$3,346,500	\$3,453,000	\$3,600,000	\$3,694,500	\$3,784,500	\$3,858,000
Sub-total Sewer Charge	\$13,636,000	\$14,238,000	\$14,945,000	\$15,617,000	\$15,617,000	\$16,114,000	\$16,800,000	\$17,241,000	\$17,661,000	\$18,004,000
CSO Fixed Fee (annual)										
5/8"	\$312	\$325	\$341	\$356	\$356	\$367	\$383	\$392	\$402	\$409
3/4"	\$312	\$325	\$341	\$356	\$356	\$367	\$383	\$392	\$402	\$409
1	\$431	\$449	\$471	\$492	\$492	\$507	\$528	\$541	\$554	\$565
1.5	\$813	\$848	\$889	\$928	\$928	\$956	\$996	\$1,022	\$1,046	\$1,065
2	\$1,191	\$1,242	\$1,303	\$1,361	\$1,361	\$1,402	\$1,461	\$1,498	\$1,533	\$1,562
3	\$2,883	\$3,007	\$3,154	\$3,293	\$3,293	\$3,392	\$3,535	\$3,625	\$3,710	\$3,780
4	\$4,796	\$5,002	\$5,246	\$5,478	\$5,478	\$5,643	\$5,880	\$6,030	\$6,172	\$6,287
6	\$9,579	\$9,991	\$10,477	\$10,940	\$10,940	\$11,271	\$11,745	\$12,043	\$12,327	\$12,558
CSO Fixed Fee Revenue										
5/8 Res	\$2,103,156	\$2,195,793	\$2,305,182	\$2,409,556	\$2,412,051	\$2,487,400	\$2,594,716	\$2,663,440	\$2,729,040	\$2,782,930
3/4 Res	\$389,427	\$406,484	\$426,633	\$445,844	\$446,201	\$460,031	\$479,766	\$492,358	\$504,366	\$514,206
1 Res	\$104,656	\$109,152	\$114,471	\$119,530	\$119,530	\$123,137	\$128,317	\$131,579	\$134,681	\$137,200
1.5 Res	\$110,515	\$115,263	\$120,879	\$126,222	\$126,222	\$130,030	\$135,500	\$138,946	\$142,221	\$144,880
2 Res	\$66,712	\$69,578	\$72,968	\$76,193	\$76,193	\$78,492	\$81,794	\$83,874	\$85,851	\$87,457
3 Res	\$57,663	\$60,140	\$63,071	\$65,858	\$65,858	\$67,845	\$70,699	\$72,497	\$74,206	\$75,593
4 Res	\$4,796	\$5,002	\$5,246	\$5,478	\$5,478	\$5,643	\$5,880	\$6,030	\$6,172	\$6,287
6 Res	\$19,158	\$19,981	\$20,955	\$21,881	\$21,881	\$22,541	\$23,489	\$24,087	\$24,654	\$25,115
5/8 Comm / Gov	\$140,418	\$146,451	\$153,588	\$160,376	\$160,376	\$165,215	\$172,165	\$176,543	\$180,705	\$184,083
3/4 Comm / Gov	\$39,941	\$41,657	\$43,687	\$45,618	\$45,618	\$46,994	\$48,971	\$50,217	\$51,400	\$52,361
1 Comm / Gov	\$40,915	\$42,673	\$44,752	\$46,730	\$46,730	\$48,140	\$50,165	\$51,441	\$52,653	\$53,638
1.5 Comm / Gov	\$66,634	\$69,497	\$72,883	\$76,104	\$76,104	\$78,401	\$81,699	\$83,776	\$85,751	\$87,354
2 Comm / Gov	\$102,450	\$106,852	\$112,059	\$117,011	\$117,011	\$120,542	\$125,613	\$128,807	\$131,843	\$134,308
3 Comm / Gov	\$80,728	\$84,196	\$88,299	\$92,201	\$92,201	\$94,983	\$98,979	\$101,496	\$103,888	\$105,831
4 Comm / Gov	\$28,776	\$30,012	\$31,475	\$32,866	\$32,866	\$33,858	\$35,282	\$36,179	\$37,032	\$37,724
6 Comm / Gov	\$57,474	\$59,943	\$62,864	\$65,643	\$65,643	\$67,623	\$70,468	\$72,260	\$73,963	\$75,346
Sub-total CSO fixed fee	\$3,413,418	\$3,562,673	\$3,739,011	\$3,907,111	\$3,909,962	\$4,030,875	\$4,203,503	\$4,313,527	\$4,418,429	\$4,504,315
Typical Annual Residential Sewer Bill										
Sewer Volume Charge	\$935	\$976	\$1,024	\$1,070	\$1,070	\$1,104	\$1,151	\$1,181	\$1,210	\$1,233
Sewer Charge Pct Increase	0%	4%	5%	4%	0%	3%	4%	3%	2%	2%
CSO Fixed Fee (based on meter size)	\$312	\$325	\$341	\$356	\$356	\$367	\$383	\$392	\$402	\$409
CSO Fixed Fee Pct Increase	0%	4%	5%	4%	0%	3%	4%	3%	2%	2%
Total Typical Residential Annual Sewer Bill	\$1,247	\$1,301	\$1,365	\$1,426	\$1,426	\$1,471	\$1,534	\$1,573	\$1,612	\$1,642
Median Household Income (MHI)	\$73,958	\$75,289	\$76,644	\$78,024	\$79,428	\$80,858	\$82,313	\$83,795	\$85,303	\$86,839
Typical Residential Annual Sewer Bill as Percent of MHI	1.69%	1.73%	1.78%	1.83%	1.80%	1.82%	1.86%	1.88%	1.89%	1.89%

Table H-6
C1A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
WPCP - 1.1 (Headworks, Disinfection, Solids Handling) (Option 1 in addition to CIP)			\$635,553	\$654,620	\$4,944,563	\$5,092,900	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements			\$183,705	\$1,576,805	\$1,429,216	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements			\$26,273	\$198,450	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL			\$106,090	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections			\$954,810	\$109,273	\$900,407	\$115,927	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements			\$1,007,855	\$3,223,545	\$3,095,149	\$2,318,548	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management			\$678,976	\$393,382	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)			\$143,221	\$147,518	\$1,114,254	\$1,147,681	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Final Clarifier Improvements)			\$95,481	\$98,345	\$742,836	\$765,121	\$0	\$0	\$0	\$0	\$0	\$0
WPCP Upgrade & Expansion, Option 2 (primary clarifiers)			\$390,167	\$401,872	\$0	\$3,126,539	\$3,220,335	\$0	\$0	\$0	\$0	\$0
WPCP Upgrade & Expansion, Option 3 (aeration tank & final clarifier)			\$690,137	\$710,841	\$0	\$0	\$5,696,203	\$5,867,089	\$0	\$0	\$0	\$0
SO-3 Weirs			\$18,460	\$139,432	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-4 New Pumps at Wellington Pump Station			\$109,637	\$828,128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute			\$0	\$0	\$0	\$0	\$0	\$0	\$727,845	\$5,497,655	\$0	\$0
CSOT-3 Dechlor at Washington			\$174,120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-5 Upsize Wellington Force Main			\$216,940	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-7 Additional Inflow Removal (to achieve 50% inflow removal)			\$180,747	\$186,169	\$191,754	\$197,507	\$0	\$209,535	\$215,821	\$222,296	\$228,965	\$0
II-4 Downspout Disconnections			\$184,458	\$189,992	\$792,084	\$815,847	\$0	\$865,532	\$891,498	\$918,243	\$945,790	\$0
CU-7 Stormwater Conveyance Improvements			\$0	\$269,602	\$678,797	\$699,161	\$720,136	\$0	\$312,542	\$786,912	\$810,519	\$834,835
Ongoing Asset Management			\$0	\$0	\$225,102	\$1,101,310	\$3,522,454	\$3,628,128	\$3,736,972	\$3,849,081	\$3,964,553	\$4,083,490
Program Management			\$0	\$301,331	\$479,344	\$487,950	\$400,157	\$381,869	\$243,096	\$406,627	\$255,344	\$263,004
Sub-total Inflated Capital Costs			\$5,796,631	\$9,429,304	\$14,593,506	\$15,868,491	\$13,559,285	\$10,952,152	\$6,127,774	\$11,680,813	\$6,205,171	\$5,181,329
Additional O&M for new CIP			\$0	(\$3,399)	\$9,027	\$4,813	\$338	(\$4,410)	(\$9,443)	(\$14,775)	\$70,969	\$67,743
Total inflated			\$5,796,631	\$9,425,905	\$14,602,533	\$15,873,304	\$13,559,623	\$10,947,742	\$6,118,331	\$11,666,039	\$6,276,140	\$5,249,072

Table H-6
C1A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
WPCP - 1.1 (Headworks, Disinfection, Solids Handling) (Option 1 in addition to CIP)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Final Clarifier Improvements)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP Upgrade & Expansion, Option 2 (primary clarifiers)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP Upgrade & Expansion, Option 3 (aeration tank & final clarifier)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SO-3 Weirs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-4 New Pumps at Wellington Pump Station	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSOT-3 Dechlor at Washington	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-5 Upsize Wellington Force Main	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-7 Additional Inflow Removal (to achieve 50% inflow removal)	\$242,908	\$250,196	\$257,702	\$265,433	\$0	\$281,597	\$290,045	\$298,747	\$307,709	\$0
II-4 Downspout Disconnections	\$1,003,388	\$1,033,490	\$1,064,495	\$1,096,430	\$0	\$1,163,202	\$1,198,098	\$1,234,041	\$1,271,063	\$0
CU-7 Stormwater Conveyance Improvements	\$0	\$362,322	\$912,247	\$939,614	\$967,802	\$0	\$420,031	\$1,057,544	\$1,089,270	\$1,121,948
Ongoing Asset Management	\$4,205,995	\$4,332,174	\$4,462,140	\$4,596,004	\$4,733,884	\$4,875,901	\$5,022,178	\$5,172,843	\$5,328,028	\$5,487,869
Program Management	\$270,895	\$279,021	\$287,392	\$296,014	\$304,894	\$314,041	\$323,462	\$333,166	\$343,161	\$353,456
Sub-total Inflated Capital Costs	\$5,723,186	\$6,257,204	\$6,983,975	\$7,193,494	\$6,006,581	\$6,634,741	\$7,253,814	\$8,096,341	\$8,339,231	\$6,963,273
Additional O&M for new CIP	\$64,259	\$60,506	\$56,469	\$52,135	\$47,491	\$42,521	\$37,211	\$31,543	\$25,502	\$19,070
Total inflated	\$5,787,445	\$6,317,709	\$7,040,444	\$7,245,629	\$6,054,072	\$6,677,263	\$7,291,025	\$8,127,884	\$8,364,733	\$6,982,343

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service												
Capital Requirement			\$5,796,631	\$9,429,304	\$14,593,506	\$15,868,491	\$13,559,285	\$10,952,152	\$6,127,774	\$11,680,813	\$6,205,171	\$5,181,329
% Debt Funded			90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)			10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)			\$579,663	\$942,930	\$1,459,351	\$1,586,849	\$1,355,929	\$1,095,215	\$612,777	\$1,168,081	\$620,517	\$518,133
			Series 2014	Series 2015	Series 2016	Series 2017	Series 2018	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023
Project Costs Debt Funded	\$0	\$5,216,968	\$8,486,373	\$13,134,155	\$14,281,642	\$12,203,357	\$9,856,937	\$5,514,997	\$10,512,732	\$5,584,654	\$4,663,196	
Cost of Issuance	\$0	\$104,339	\$169,727	\$262,683	\$285,633	\$244,067	\$197,139	\$110,300	\$210,255	\$111,693	\$93,264	
Bond Reserve	\$0	\$521,697	\$848,637	\$1,313,416	\$1,428,164	\$1,220,336	\$985,694	\$551,500	\$1,051,273	\$558,465	\$466,320	
Total Bond Issue	\$0	\$5,843,004	\$9,504,738	\$14,710,254	\$15,995,439	\$13,667,759	\$11,039,769	\$6,176,796	\$11,774,260	\$6,254,813	\$5,222,780	
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Series 2014		\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	
Series 2015			\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	
Series 2016				\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	
Series 2017					\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	
Series 2018						\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	
Series 2019							\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	
Series 2020								\$516,870	\$516,870	\$516,870	\$516,870	
Series 2021									\$985,262	\$985,262	\$985,262	
Series 2022										\$523,399	\$523,399	
Series 2023											\$437,039	
Series 2024												
Series 2025												
Series 2026												
Series 2027												
Series 2028												
Series 2029												
Series 2030												
Series 2031												
Series 2032												
Series 2033												
Projected Debt Service	\$0	\$488,939	\$1,284,289	\$2,515,233	\$3,853,721	\$4,997,430	\$5,921,230	\$6,438,100	\$7,423,362	\$7,946,761	\$8,383,800	

**Table H-6
C1A (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service										
Capital Requirement	\$5,723,186	\$6,257,204	\$6,983,975	\$7,193,494	\$6,006,581	\$6,634,741	\$7,253,814	\$8,096,341	\$8,339,231	\$6,963,273
% Debt Funded	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)	\$572,319	\$625,720	\$698,397	\$719,349	\$600,658	\$663,474	\$725,381	\$809,634	\$833,923	\$696,327
	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028	Series 2029	Series 2030	Series 2031	Series 2032	Series 2033
Project Costs Debt Funded	\$5,150,867	\$5,631,483	\$6,285,577	\$6,474,145	\$5,405,923	\$5,971,267	\$6,528,433	\$7,286,707	\$7,505,308	\$6,266,946
Cost of Issuance	\$103,017	\$112,630	\$125,712	\$129,483	\$108,118	\$119,425	\$130,569	\$145,734	\$150,106	\$125,339
Bond Reserve	\$515,087	\$563,148	\$628,558	\$647,414	\$540,592	\$597,127	\$652,843	\$728,671	\$750,531	\$626,695
Total Bond Issue	\$5,768,972	\$6,307,261	\$7,039,847	\$7,251,042	\$6,054,633	\$6,687,819	\$7,311,845	\$8,161,112	\$8,405,945	\$7,018,979
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Series 2014	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939	\$488,939
Series 2015	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350	\$795,350
Series 2016	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944	\$1,230,944
Series 2017	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488	\$1,338,488
Series 2018	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709	\$1,143,709
Series 2019	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800	\$923,800
Series 2020	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870	\$516,870
Series 2021	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262	\$985,262
Series 2022	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399	\$523,399
Series 2023	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039	\$437,039
Series 2024	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744	\$482,744
Series 2025		\$527,787	\$527,787	\$527,787	\$527,787	\$527,787	\$527,787	\$527,787	\$527,787	\$527,787
Series 2026			\$589,090	\$589,090	\$589,090	\$589,090	\$589,090	\$589,090	\$589,090	\$589,090
Series 2027				\$606,762	\$606,762	\$606,762	\$606,762	\$606,762	\$606,762	\$606,762
Series 2028					\$506,648	\$506,648	\$506,648	\$506,648	\$506,648	\$506,648
Series 2029						\$559,632	\$559,632	\$559,632	\$559,632	\$559,632
Series 2030							\$611,850	\$611,850	\$611,850	\$611,850
Series 2031								\$682,916	\$682,916	\$682,916
Series 2032									\$703,404	\$703,404
Series 2033										\$587,343
Projected Debt Service	\$8,866,543	\$9,394,331	\$9,983,420	\$10,590,183	\$11,096,830	\$11,656,463	\$12,268,313	\$12,951,229	\$13,654,633	\$14,241,977

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement												
Operating												
Salaries	\$130,634	\$134,553	\$138,590	\$142,747	\$147,030	\$151,441	\$155,984	\$160,663	\$165,483	\$170,448	\$175,561	\$180,828
Fringe Benefits	\$99,274	\$102,252	\$105,320	\$108,479	\$111,734	\$115,086	\$118,538	\$122,094	\$125,757	\$129,530	\$133,416	\$137,418
Purchased Services	\$4,553,068	\$4,689,660	\$4,830,350	\$4,975,260	\$5,124,518	\$5,278,254	\$5,436,601	\$5,599,699	\$5,767,690	\$5,940,721	\$6,118,943	\$6,302,511
Utilities	\$665,000	\$684,950	\$705,499	\$726,663	\$748,463	\$770,917	\$794,045	\$817,866	\$842,402	\$867,674	\$893,704	\$920,516
Internal Services	\$724,683	\$746,423	\$768,816	\$791,881	\$815,637	\$840,106	\$865,309	\$891,269	\$918,007	\$945,547	\$973,913	\$1,003,131
Other Charges	\$25,900	\$26,677	\$27,477	\$28,302	\$29,151	\$30,025	\$30,926	\$31,854	\$32,809	\$33,794	\$34,807	\$35,852
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP			\$23,234	\$23,747	\$24,270	\$24,803	\$25,347	\$25,900	\$26,464	\$27,039	\$27,624	\$28,220
Total Operating (A)	\$6,198,559	\$6,384,516	\$6,599,285	\$6,797,080	\$7,000,803	\$7,210,632	\$7,426,750	\$7,649,346	\$7,878,613	\$8,114,752	\$8,357,969	\$8,608,475
(excluding Interest Expense and Depreciation)												
Debt Service												
Existing Debt Service	\$2,230,150	\$2,872,074	\$2,886,850	\$2,896,373	\$2,899,975	\$2,912,365	\$2,919,334	\$2,925,498	\$2,935,717	\$2,944,053	\$2,957,099	\$2,969,769
Coverage Allowance	\$557,538	\$160,481	\$3,694	\$2,381	\$901	\$3,098	\$1,742	\$1,541	\$2,555	\$2,084	\$3,262	\$3,168
Projected Debt Service		\$0	\$1,473,398	\$2,767,625	\$4,610,743	\$6,310,612	\$6,626,863	\$8,255,453	\$9,437,652	\$10,655,316	\$11,909,509	\$12,276,130
Coverage			\$368,350	\$323,557	\$460,780	\$424,967	\$79,063	\$407,148	\$295,550	\$304,416	\$313,548	\$91,655
Total Debt Service and Coverage (B)	\$2,787,688	\$3,032,555	\$4,732,292	\$5,989,935	\$7,972,398	\$9,651,042	\$9,627,002	\$11,589,640	\$12,671,473	\$13,905,868	\$15,183,417	\$15,340,722
PAY-AS-YOU-GO CIP												
PAY-AS-YOU-GO CIP		\$0	\$1,746,793	\$1,534,375	\$2,185,116	\$2,015,286	\$374,932	\$1,930,782	\$1,401,560	\$1,443,606	\$1,486,913	\$434,649
Total PAY-AS-YOU-GO (C)	\$0	\$0	\$1,746,793	\$1,534,375	\$2,185,116	\$2,015,286	\$374,932	\$1,930,782	\$1,401,560	\$1,443,606	\$1,486,913	\$434,649
Less Non-Rate Revenues												
Sewage Treat. Middletown	\$711,300	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,600	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$327,999	\$333,000	\$520,000	\$658,000	\$876,000	\$1,061,000	\$1,058,000	\$1,274,000	\$1,393,000	\$1,529,000	\$1,670,000	\$1,687,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$2,857,899	\$2,662,000	\$2,849,000	\$2,987,000	\$3,205,000	\$3,390,000	\$3,387,000	\$3,603,000	\$3,722,000	\$3,858,000	\$3,999,000	\$4,016,000
Total Revenue Requirements (E=A+B+C-D)	\$6,128,348	\$6,755,071	\$10,229,370	\$11,334,390	\$13,953,317	\$15,486,960	\$14,041,685	\$17,566,768	\$18,229,646	\$19,606,227	\$21,029,300	\$20,367,847
Percent Change above FY 2012		110%	167%	185%	228%	253%	229%	287%	297%	320%	343%	332%
Allocation of Revenue Requirement (\$)												
Sewer Charge (\$/kgal)		\$5,404,057	\$8,183,496	\$9,067,512	\$11,162,654	\$12,389,568	\$11,233,348	\$14,053,414	\$14,583,717	\$15,684,981	\$16,823,440	\$16,294,277
CSO fixed fee (meter size)		\$1,351,014	\$2,045,874	\$2,266,878	\$2,790,663	\$3,097,392	\$2,808,337	\$3,513,354	\$3,645,929	\$3,921,245	\$4,205,860	\$4,073,569
Total		\$6,755,071	\$10,229,370	\$11,334,390	\$13,953,317	\$15,486,960	\$14,041,685	\$17,566,768	\$18,229,646	\$19,606,227	\$21,029,300	\$20,367,847

Table H-7
E1 (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement										
Operating										
Salaries	\$186,253	\$191,840	\$197,596	\$203,524	\$209,629	\$215,918	\$222,000	\$228,000	\$234,000	\$241,000
Fringe Benefits	\$141,541	\$145,787	\$150,161	\$154,666	\$159,306	\$164,085	\$169,000	\$174,000	\$179,000	\$184,000
Purchased Services	\$6,491,586	\$6,686,334	\$6,886,924	\$7,093,532	\$7,306,338	\$7,525,528	\$7,700,000	\$7,900,000	\$8,100,000	\$8,300,000
Utilities	\$948,131	\$976,575	\$1,005,872	\$1,036,048	\$1,067,130	\$1,099,144	\$1,130,000	\$1,160,000	\$1,190,000	\$1,220,000
Internal Services	\$1,033,225	\$1,064,221	\$1,096,148	\$1,129,033	\$1,162,903	\$1,197,791	\$1,230,000	\$1,260,000	\$1,290,000	\$1,320,000
Other Charges	\$36,927	\$38,035	\$39,176	\$40,351	\$41,562	\$42,809	\$44,000	\$45,000	\$46,000	\$47,000
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP	\$28,827	\$29,445	\$30,074	\$69,938	\$71,767	\$73,642	\$75,565	\$77,537	\$94,273	\$97,101
Total Operating (A)	\$8,866,490	\$9,132,238	\$9,405,950	\$9,727,091	\$10,018,634	\$10,318,915	\$10,570,565	\$10,844,537	\$11,133,273	\$11,409,101
(excluding Interest Expense and Depreciation)										
Debt Service										
Existing Debt Service	\$2,095,266	\$2,091,894	\$2,092,751	\$2,091,179	\$1,146,023	\$1,144,446	\$1,144,363	\$762,319	\$221,171	
Coverage Allowance	(\$218,626)	(\$843)	\$214	(\$393)	(\$236,289)	(\$394)	(\$21)	(\$95,511)	\$55,293	
Projected Debt Service	\$14,410,171	\$16,709,952	\$19,078,726	\$20,532,775	\$20,957,790	\$23,205,297	\$25,015,938	\$26,880,897	\$28,566,572	\$29,059,281
Coverage	\$533,510	\$574,945	\$592,193	\$363,512	\$106,254	\$561,877	\$452,660	\$466,240	\$421,419	\$123,177
Total Debt Service and Coverage (B)	\$16,820,322	\$19,375,948	\$21,763,884	\$22,987,074	\$21,973,778	\$24,911,226	\$26,612,940	\$28,013,945	\$29,264,455	\$29,182,458
PAY-AS-YOU-GO CIP										
PAY-AS-YOU-GO CIP	\$2,530,021	\$2,726,514	\$2,808,309	\$1,723,854	\$503,878	\$2,664,541	\$2,146,612	\$2,211,009	\$1,998,459	\$584,132
Total PAY-AS-YOU-GO (C)	\$2,530,021	\$2,726,514	\$2,808,309	\$1,723,854	\$503,878	\$2,664,541	\$2,146,612	\$2,211,009	\$1,998,459	\$584,132
Less Non-Rate Revenues										
Sewage Treat. Middletown	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$1,850,000	\$2,131,000	\$2,394,000	\$2,528,000	\$2,417,000	\$2,740,000	\$2,927,000	\$3,081,000	\$3,219,000	\$3,210,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$4,179,000	\$4,460,000	\$4,723,000	\$4,857,000	\$4,746,000	\$5,069,000	\$5,256,000	\$5,410,000	\$5,548,000	\$5,539,000
Total Revenue Requirements (E=A+B+C-D)	\$24,037,832	\$26,774,700	\$29,255,143	\$29,581,019	\$27,750,290	\$32,825,682	\$34,074,117	\$35,659,491	\$36,848,186	\$35,636,691
Percent Change above FY 2012	392%	437%	477%	483%	453%	536%	556%	582%	601%	582%
Allocation of Revenue Requirement (\$)										
Sewer Charge (\$/kgal)	\$19,230,266	\$21,419,760	\$23,404,115	\$23,664,815	\$22,200,232	\$26,260,545	\$27,259,293	\$28,527,593	\$29,478,549	\$28,509,353
CSO fixed fee (meter size)	\$4,807,566	\$5,354,940	\$5,851,029	\$5,916,204	\$5,550,058	\$6,565,136	\$6,814,823	\$7,131,898	\$7,369,637	\$7,127,338
Total	\$24,037,832	\$26,774,700	\$29,255,143	\$29,581,019	\$27,750,290	\$32,825,682	\$34,074,117	\$35,659,491	\$36,848,186	\$35,636,691

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts												
5/8 Res	6,656	6,663	6,670	6,677	6,684	6,691	6,698	6,705	6,712	6,719	6,726	6,733
3/4 Res	1,236	1,237	1,238	1,239	1,240	1,241	1,242	1,243	1,244	1,245	1,246	1,247
1 Res	243	243	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
Total Accounts	881	881	881	881	881	881	881	881	881	881	881	881
<i>Percent Change above FY 2012</i>		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sewer Flows (thousand gallons)												
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Sewer Flows	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts										
5/8 Res	6,740	6,747	6,754	6,761	6,768	6,775	6,782	6,789	6,796	6,803
3/4 Res	1,248	1,249	1,250	1,251	1,252	1,253	1,254	1,255	1,256	1,257
1 Res	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6
Total Accounts	881	881	881	881	881	881	881	881	881	881
<i>Percent Change above FY 2012</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>
Sewer Flows (thousand gallons)										
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Sewer Flows	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenues												
Sewer Volume Charge												
Rate (\$/kgal)	\$11.27	\$11.27	\$11.69	\$12.95	\$15.95	\$17.70	\$17.70	\$20.08	\$20.83	\$22.41	\$24.03	\$24.03
Residential	\$6,198,500	\$6,198,500	\$6,429,500	\$7,122,500	\$8,772,500	\$9,735,000	\$9,735,000	\$11,044,000	\$11,456,500	\$12,325,500	\$13,216,500	\$13,216,500
Commercial	\$1,690,500	\$1,690,500	\$1,753,500	\$1,942,500	\$2,392,500	\$2,655,000	\$2,655,000	\$3,012,000	\$3,124,500	\$3,361,500	\$3,604,500	\$3,604,500
Sub-total Sewer Charge	\$7,889,000	\$7,889,000	\$8,183,000	\$9,065,000	\$11,165,000	\$12,390,000	\$12,390,000	\$14,056,000	\$14,581,000	\$15,687,000	\$16,821,000	\$16,821,000
CSO Fixed Fee (annual)												
Residential (5/8")	\$192	\$192	\$192	\$209	\$257	\$285	\$285	\$323	\$335	\$360	\$385	\$385
Commercial (<1")	\$192	\$192	\$192	\$209	\$257	\$285	\$285	\$323	\$335	\$360	\$385	\$385
Commercial (1")	\$265	\$265	\$265	\$288	\$354	\$393	\$393	\$445	\$462	\$496	\$532	\$532
Commercial (1-1/2")	\$500	\$500	\$500	\$544	\$669	\$742	\$742	\$840	\$871	\$936	\$1,003	\$1,003
Commercial (2")	\$733	\$733	\$733	\$797	\$980	\$1,087	\$1,087	\$1,232	\$1,277	\$1,373	\$1,471	\$1,471
Commercial (3")	\$1,774	\$1,774	\$1,774	\$1,929	\$2,373	\$2,632	\$2,632	\$2,981	\$3,091	\$3,322	\$3,560	\$3,560
Commercial (4")	\$2,951	\$2,951	\$2,951	\$3,209	\$3,947	\$4,378	\$4,378	\$4,958	\$5,141	\$5,526	\$5,922	\$5,922
Commercial (6")	\$5,894	\$5,894	\$5,894	\$6,408	\$7,883	\$8,743	\$8,743	\$9,903	\$10,269	\$11,036	\$11,829	\$11,829
CSO Fixed Fee Revenue												
5/8 Res	\$1,277,952	\$1,279,296	\$1,280,640	\$1,393,861	\$1,716,461	\$1,905,714	\$1,907,708	\$2,162,981	\$2,245,295	\$2,415,590	\$2,591,718	\$2,594,415
3/4 Res	\$237,312	\$237,504	\$237,696	\$258,648	\$318,434	\$353,459	\$353,743	\$400,982	\$416,142	\$447,598	\$480,119	\$480,504
1 Res	\$64,395	\$64,395	\$64,395	\$70,015	\$86,129	\$95,525	\$95,525	\$108,194	\$112,195	\$120,578	\$129,235	\$129,235
1.5 Res	\$68,000	\$68,000	\$68,000	\$73,934	\$90,951	\$100,873	\$100,873	\$114,251	\$118,476	\$127,329	\$136,470	\$136,470
2 Res	\$41,048	\$41,048	\$41,048	\$44,630	\$54,902	\$60,892	\$60,892	\$68,968	\$71,517	\$76,862	\$82,380	\$82,380
3 Res	\$35,480	\$35,480	\$35,480	\$38,576	\$47,455	\$52,632	\$52,632	\$59,612	\$61,816	\$66,436	\$71,205	\$71,205
4 Res	\$2,951	\$2,951	\$2,951	\$3,209	\$3,947	\$4,378	\$4,378	\$4,958	\$5,141	\$5,526	\$5,922	\$5,922
6 Res	\$11,788	\$11,788	\$11,788	\$12,817	\$15,767	\$17,487	\$17,487	\$19,806	\$20,538	\$22,073	\$23,658	\$23,658
5/8 Comm / Gov	\$86,400	\$86,400	\$86,400	\$93,940	\$115,561	\$128,168	\$128,168	\$145,166	\$150,534	\$161,782	\$173,398	\$173,398
3/4 Comm / Gov	\$24,576	\$24,576	\$24,576	\$26,721	\$32,871	\$36,457	\$36,457	\$41,292	\$42,818	\$46,018	\$49,322	\$49,322
1 Comm / Gov	\$25,175	\$25,175	\$25,175	\$27,372	\$33,672	\$37,345	\$37,345	\$42,298	\$43,862	\$47,140	\$50,524	\$50,524
1.5 Comm / Gov	\$41,000	\$41,000	\$41,000	\$44,578	\$54,838	\$60,820	\$60,820	\$68,887	\$71,434	\$76,772	\$82,284	\$82,284
2 Comm / Gov	\$63,038	\$63,038	\$63,038	\$68,539	\$84,314	\$93,512	\$93,512	\$105,914	\$109,830	\$118,037	\$126,512	\$126,512
3 Comm / Gov	\$49,672	\$49,672	\$49,672	\$54,007	\$66,437	\$73,685	\$73,685	\$83,457	\$86,543	\$93,010	\$99,688	\$99,688
4 Comm / Gov	\$17,706	\$17,706	\$17,706	\$19,251	\$23,682	\$26,266	\$26,266	\$29,749	\$30,849	\$33,154	\$35,534	\$35,534
6 Comm / Gov	\$35,364	\$35,364	\$35,364	\$38,450	\$47,300	\$52,460	\$52,460	\$59,417	\$61,614	\$66,218	\$70,973	\$70,973
Sub-total CSO fixed fee	2,081,857	2,083,393	2,084,929	2,268,548	2,792,718	3,099,670	3,101,949	3,515,934	3,648,605	3,924,121	4,208,943	4,212,025
Typical Annual Residential Sewer Bill												
Sewer Volume Charge	\$541	\$541	\$561	\$621	\$765	\$849	\$849	\$963	\$999	\$1,075	\$1,153	\$1,153
Sewer Charge Pct Increase		0%	4%	11%	23%	11%	0%	13%	4%	8%	7%	0%
CSO Fixed Fee (based on meter size)	\$192	\$192	\$192	\$209	\$257	\$285	\$285	\$323	\$335	\$360	\$385	\$385
CSO Fixed Fee Pct Increase		0%	0%	9%	23%	11%	0%	13%	4%	7%	7%	0%
Total Typical Residential Annual Sewer Bill	\$733	\$733	\$753	\$830	\$1,022	\$1,134	\$1,134	\$1,286	\$1,334	\$1,435	\$1,538	\$1,538
Median Household Income (MHI)												
Typical Residential Annual Sewer Bill as Percent of MHI	\$59,705	\$60,780	\$61,874	\$62,987	\$64,121	\$65,275	\$66,450	\$67,646	\$68,864	\$70,104	\$71,366	\$72,650
	1.23%	1.21%	1.22%	1.32%	1.59%	1.74%	1.71%	1.90%	1.94%	2.05%	2.16%	2.12%

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenues										
Sewer Volume Charge										
Rate (\$/kgal)	\$27.47	\$30.60	\$33.43	\$33.81	\$33.81	\$37.52	\$38.94	\$40.75	\$42.11	\$42.11
Residential	\$15,108,500	\$16,830,000	\$18,386,500	\$18,595,500	\$18,595,500	\$20,636,000	\$21,417,000	\$22,412,500	\$23,160,500	\$23,160,500
Commercial	\$4,120,500	\$4,590,000	\$5,014,500	\$5,071,500	\$5,071,500	\$5,628,000	\$5,841,000	\$6,112,500	\$6,316,500	\$6,316,500
Sub-total Sewer Charge	\$19,229,000	\$21,420,000	\$23,401,000	\$23,667,000	\$23,667,000	\$26,264,000	\$27,258,000	\$28,525,000	\$29,477,000	\$29,477,000
CSO Fixed Fee (annual)										
Residential (5/8")	\$440	\$490	\$534	\$540	\$540	\$598	\$621	\$649	\$670	\$670
Commercial (<1")	\$440	\$490	\$534	\$540	\$540	\$598	\$621	\$649	\$670	\$670
Commercial (1")	\$607	\$676	\$738	\$745	\$745	\$826	\$857	\$896	\$925	\$925
Commercial (1-1/2")	\$1,145	\$1,275	\$1,392	\$1,406	\$1,406	\$1,558	\$1,616	\$1,690	\$1,745	\$1,745
Commercial (2")	\$1,679	\$1,869	\$2,041	\$2,062	\$2,062	\$2,285	\$2,370	\$2,478	\$2,559	\$2,559
Commercial (3")	\$4,064	\$4,523	\$4,938	\$4,990	\$4,990	\$5,529	\$5,735	\$5,998	\$6,193	\$6,193
Commercial (4")	\$6,760	\$7,524	\$8,215	\$8,300	\$8,300	\$9,197	\$9,540	\$9,977	\$10,302	\$10,302
Commercial (6")	\$13,501	\$15,027	\$16,408	\$16,578	\$16,578	\$18,370	\$19,055	\$19,927	\$20,576	\$20,576
CSO Fixed Fee Revenue										
5/8 Res	\$2,964,320	\$3,302,840	\$3,609,923	\$3,651,249	\$3,655,029	\$4,054,214	\$4,209,683	\$4,406,884	\$4,555,164	\$4,559,856
3/4 Res	\$548,883	\$611,419	\$668,108	\$675,597	\$676,137	\$749,805	\$778,375	\$814,647	\$841,861	\$842,531
1 Res	\$147,508	\$164,183	\$179,262	\$181,126	\$181,126	\$200,700	\$208,182	\$217,709	\$224,803	\$224,803
1.5 Res	\$155,766	\$173,374	\$189,297	\$191,266	\$191,266	\$211,936	\$219,836	\$229,897	\$237,388	\$237,388
2 Res	\$94,028	\$104,657	\$114,269	\$115,457	\$115,457	\$127,935	\$132,704	\$138,777	\$143,298	\$143,298
3 Res	\$81,273	\$90,461	\$98,769	\$99,796	\$99,796	\$110,581	\$114,703	\$119,952	\$123,861	\$123,861
4 Res	\$6,760	\$7,524	\$8,215	\$8,300	\$8,300	\$9,197	\$9,540	\$9,977	\$10,302	\$10,302
6 Res	\$27,003	\$30,055	\$32,815	\$33,157	\$33,157	\$36,740	\$38,109	\$39,853	\$41,152	\$41,152
5/8 Comm / Gov	\$197,915	\$220,287	\$240,519	\$243,021	\$243,021	\$269,284	\$279,321	\$292,105	\$301,622	\$301,622
3/4 Comm / Gov	\$56,296	\$62,659	\$68,414	\$69,126	\$69,126	\$76,596	\$79,451	\$83,088	\$85,795	\$85,795
1 Comm / Gov	\$57,668	\$64,187	\$70,082	\$70,811	\$70,811	\$78,463	\$81,388	\$85,113	\$87,886	\$87,886
1.5 Comm / Gov	\$93,918	\$104,534	\$114,135	\$115,322	\$115,322	\$127,785	\$132,548	\$138,614	\$143,131	\$143,131
2 Comm / Gov	\$144,400	\$160,723	\$175,484	\$177,309	\$177,309	\$196,471	\$203,795	\$213,121	\$220,065	\$220,065
3 Comm / Gov	\$113,783	\$126,645	\$138,276	\$139,714	\$139,714	\$154,813	\$160,584	\$167,933	\$173,405	\$173,405
4 Comm / Gov	\$40,559	\$45,144	\$49,290	\$49,802	\$49,802	\$55,184	\$57,241	\$59,861	\$61,812	\$61,812
6 Comm / Gov	\$81,008	\$90,165	\$98,446	\$99,470	\$99,470	\$110,219	\$114,328	\$119,560	\$123,456	\$123,456
Sub-total CSO fixed fee	4,811,085	5,358,856	5,855,305	5,920,524	5,924,844	6,569,924	6,819,789	7,137,091	7,374,999	7,380,362
Typical Annual Residential Sewer Bill										
Sewer Volume Charge	\$1,318	\$1,468	\$1,604	\$1,622	\$1,622	\$1,800	\$1,868	\$1,955	\$2,020	\$2,020
Sewer Charge Pct Increase	14%	11%	9%	1%	0%	11%	4%	5%	3%	0%
CSO Fixed Fee (based on meter size)	\$440	\$490	\$534	\$540	\$540	\$598	\$621	\$649	\$670	\$670
CSO Fixed Fee Pct Increase	14%	11%	9%	1%	0%	11%	4%	5%	3%	0%
Total Typical Residential Annual Sewer Bill	\$1,758	\$1,958	\$2,138	\$2,162	\$2,162	\$2,398	\$2,489	\$2,604	\$2,690	\$2,690
Median Household Income (MHI)										
Typical Residential Annual Sewer Bill as Percent of MHI	2.38%	2.60%	2.79%	2.77%	2.72%	2.97%	3.02%	3.11%	3.15%	3.10%

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)												
WPCP - 1.1 (Headworks, Disinfection, Solids Handling) (Option 1 in addition to CIP)			\$635,553	\$654,620	\$4,944,563	\$5,092,900	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements			\$183,705	\$1,576,805	\$1,429,216	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements			\$26,273	\$198,450	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL			\$106,090	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections			\$954,810	\$109,273	\$900,407	\$115,927	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements			\$1,007,855	\$3,223,545	\$3,095,149	\$2,318,548	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management			\$678,976	\$393,382	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)			\$143,221	\$147,518	\$1,114,254	\$1,147,681	\$0	\$0	\$0	\$0	\$0	\$0
WPCP -- 1.1 (Final Clarifier Improvements)			\$95,481	\$98,345	\$742,836	\$765,121	\$0	\$0	\$0	\$0	\$0	\$0
OS-11 Washington CSO Facility Storage			\$5,300,836	\$3,532,851	\$3,638,837	\$3,748,002	\$0	\$6,145,122	\$4,095,543	\$4,218,409	\$4,344,961	\$0
OS-19 Kings Park Storage			\$167,874	\$111,883	\$115,240	\$118,697	\$0	\$194,612	\$129,703	\$133,594	\$137,602	\$0
SO-3 Weirs			\$199,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SO-2 Increased Pumping Capacity/Better Use of System Capacity			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.1 WPCP Upgrade and Expansion (Primary Clarifier)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.2 WPCP Upgrade and Expansion (Aeration Basins)			\$6,828,615	\$4,551,071	\$4,687,604	\$4,828,232	\$0	\$7,916,237	\$5,275,939	\$5,434,217	\$5,597,244	\$0
WPCP 1.4 CEPT			\$722,987	\$297,871	\$306,807	\$316,011	\$0	\$838,140	\$345,314	\$355,673	\$366,343	\$0
Ongoing Asset Management			\$0	\$0	\$225,102	\$1,101,310	\$3,522,454	\$3,628,128	\$3,736,972	\$3,849,081	\$3,964,553	\$4,083,490
Program Management			\$415,671	\$448,139	\$651,148	\$600,430	\$226,870	\$585,580	\$432,127	\$445,085	\$458,430	\$263,004
Sub-total Inflated Capital Costs			\$17,467,928	\$15,343,753	\$21,851,161	\$20,152,859	\$3,749,324	\$19,307,818	\$14,015,598	\$14,436,059	\$14,869,134	\$4,346,494
Additional O&M for new CIP			\$23,234	\$23,747	\$24,270	\$24,803	\$25,347	\$25,900	\$26,464	\$27,039	\$27,624	\$28,220
Total (inflated)			\$17,491,162	\$15,367,500	\$21,875,431	\$20,177,662	\$3,774,671	\$19,333,718	\$14,042,062	\$14,463,098	\$14,896,758	\$4,374,714

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)										
WPCP - 1.1 (Headworks, Disinfection, Solids Handling) (Option 1 in addition to CIP)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP -- 1.1 (Final Clarifier Improvements)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OS-11 Washington CSO Facility Storage	\$7,123,880	\$4,747,857	\$4,890,292	\$5,037,001	\$0	\$8,258,530	\$5,504,067	\$5,669,189	\$5,839,265	\$0
OS-19 Kings Park Storage	\$225,609	\$150,362	\$154,872	\$159,519	\$0	\$261,542	\$174,310	\$179,540	\$184,926	\$0
SO-3 Weirs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute	\$0	\$0	\$0	\$0	\$0	\$675,874	\$2,552,552	\$2,629,128	\$0	\$0
SO-2 Increased Pumping Capacity/Better Use of System Capacity	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.1 WPCP Upgrade and Expansion (Primary Clarifier)	\$2,832,224	\$10,696,366	\$11,017,257	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.2 WPCP Upgrade and Expansion (Aeration Basins)	\$9,177,088	\$6,116,259	\$6,299,747	\$6,488,740	\$0	\$10,638,760	\$7,090,421	\$7,303,134	\$7,522,228	\$0
WPCP 1.4 CEPT	\$971,634	\$400,313	\$412,323	\$424,692	\$0	\$1,126,390	\$464,073	\$477,995	\$492,335	\$0
Ongoing Asset Management	\$4,205,995	\$4,332,174	\$4,462,140	\$4,596,004	\$4,733,884	\$4,875,901	\$5,022,178	\$5,172,843	\$5,328,028	\$5,487,869
Program Management	\$763,778	\$821,808	\$846,455	\$532,584	\$304,894	\$808,411	\$658,520	\$678,266	\$617,807	\$353,456
Sub-total Inflated Capital Costs	\$25,300,207	\$27,265,140	\$28,083,086	\$17,238,539	\$5,038,778	\$26,645,408	\$21,466,120	\$22,110,094	\$19,984,587	\$5,841,325
Additional O&M for new CIP	\$28,827	\$29,445	\$30,074	\$69,938	\$71,767	\$73,642	\$75,565	\$77,537	\$94,273	\$97,101
Total (inflated)	\$25,329,034	\$27,294,584	\$28,113,160	\$17,308,477	\$5,110,545	\$26,719,050	\$21,541,684	\$22,187,631	\$20,078,860	\$5,938,426

**Table H-7
E1 (without Private I/I) 20 year implementation**

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service												
Capital Requirement			\$17,467,928	\$15,343,753	\$21,851,161	\$20,152,859	\$3,749,324	\$19,307,818	\$14,015,598	\$14,436,059	\$14,869,134	\$4,346,494
% Debt Funded			90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)			10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)			\$1,746,793	\$1,534,375	\$2,185,116	\$2,015,286	\$374,932	\$1,930,782	\$1,401,560	\$1,443,606	\$1,486,913	\$434,649
			Series 2014	Series 2015	Series 2016	Series 2017	Series 2018	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023
Project Costs Debt Funded	\$0	\$15,721,136	\$13,809,378	\$19,666,044	\$18,137,573	\$3,374,392	\$17,377,036	\$12,614,038	\$12,992,453	\$13,382,221	\$3,911,845	
Cost of Issuance	\$0	\$314,423	\$276,188	\$393,321	\$362,751	\$67,488	\$347,541	\$252,281	\$259,849	\$267,644	\$78,237	
Bond Reserve	\$0	\$1,572,114	\$1,380,938	\$1,966,604	\$1,813,757	\$337,439	\$1,737,704	\$1,261,404	\$1,299,245	\$1,338,222	\$391,184	
Total Bond Issue	\$0	\$17,607,672	\$15,466,503	\$22,025,970	\$20,314,081	\$3,779,319	\$19,462,280	\$14,127,723	\$14,551,548	\$14,988,087	\$4,381,266	
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Series 2014		\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398
Series 2015			\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227
Series 2016				\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118
Series 2017					\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869
Series 2018						\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251
Series 2019							\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591
Series 2020								\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198
Series 2021									\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664
Series 2022										\$1,254,193	\$1,254,193	\$1,254,193
Series 2023												\$366,621
Series 2024												
Series 2025												
Series 2026												
Series 2027												
Series 2028												
Series 2029												
Series 2030												
Series 2031												
Series 2032												
Series 2033												
Projected Debt Service	\$0	\$1,473,398	\$2,767,625	\$4,610,743	\$6,310,612	\$6,626,863	\$8,255,453	\$9,437,652	\$10,655,316	\$11,909,509	\$12,276,130	

Table H-7
E1 (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service										
Capital Requirement	\$25,300,207	\$27,265,140	\$28,083,086	\$17,238,539	\$5,038,778	\$26,645,408	\$21,466,120	\$22,110,094	\$19,984,587	\$5,841,325
% Debt Funded	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)	\$2,530,021	\$2,726,514	\$2,808,309	\$1,723,854	\$503,878	\$2,664,541	\$2,146,612	\$2,211,009	\$1,998,459	\$584,132
	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028	Series 2029	Series 2030	Series 2031	Series 2032	Series 2033
Project Costs Debt Funded	\$22,770,187	\$24,538,626	\$25,274,777	\$15,514,685	\$4,534,900	\$23,980,867	\$19,319,508	\$19,899,085	\$17,986,129	\$5,257,192
Cost of Issuance	\$455,404	\$490,773	\$505,496	\$310,294	\$90,698	\$479,617	\$386,390	\$397,982	\$359,723	\$105,144
Bond Reserve	\$2,277,019	\$2,453,863	\$2,527,478	\$1,551,469	\$453,490	\$2,398,087	\$1,931,951	\$1,989,908	\$1,798,613	\$525,719
Total Bond Issue	\$25,502,609	\$27,483,261	\$28,307,751	\$17,376,448	\$5,079,088	\$26,858,571	\$21,637,848	\$22,286,975	\$20,144,464	\$5,888,056
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Series 2014	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398	\$1,473,398
Series 2015	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227	\$1,294,227
Series 2016	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118	\$1,843,118
Series 2017	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869	\$1,699,869
Series 2018	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251	\$316,251
Series 2019	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591	\$1,628,591
Series 2020	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198	\$1,182,198
Series 2021	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664	\$1,217,664
Series 2022	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193	\$1,254,193
Series 2023	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621	\$366,621
Series 2024	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041	\$2,134,041
Series 2025		\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781	\$2,299,781
Series 2026			\$2,368,774	\$2,368,774	\$2,368,774	\$2,368,774	\$2,368,774	\$2,368,774	\$2,368,774	\$2,368,774
Series 2027				\$1,454,049	\$1,454,049	\$1,454,049	\$1,454,049	\$1,454,049	\$1,454,049	\$1,454,049
Series 2028					\$425,015	\$425,015	\$425,015	\$425,015	\$425,015	\$425,015
Series 2029						\$2,247,507	\$2,247,507	\$2,247,507	\$2,247,507	\$2,247,507
Series 2030							\$1,810,641	\$1,810,641	\$1,810,641	\$1,810,641
Series 2031								\$1,864,959	\$1,864,959	\$1,864,959
Series 2032									\$1,685,675	\$1,685,675
Series 2033										\$492,709
Projected Debt Service	\$14,410,171	\$16,709,952	\$19,078,726	\$20,532,775	\$20,957,790	\$23,205,297	\$25,015,938	\$26,880,897	\$28,566,572	\$29,059,281

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement												
Operating												
Salaries	\$130,634	\$134,553	\$138,590	\$142,747	\$147,030	\$151,441	\$155,984	\$160,663	\$165,483	\$170,448	\$175,561	\$180,828
Fringe Benefits	\$99,274	\$102,252	\$105,320	\$108,479	\$111,734	\$115,086	\$118,538	\$122,094	\$125,757	\$129,530	\$133,416	\$137,418
Purchased Services	\$4,553,068	\$4,689,660	\$4,830,350	\$4,975,260	\$5,124,518	\$5,278,254	\$5,436,601	\$5,599,699	\$5,767,690	\$5,940,721	\$6,118,943	\$6,302,511
Utilities	\$665,000	\$684,950	\$705,499	\$726,663	\$748,463	\$770,917	\$794,045	\$817,866	\$842,402	\$867,674	\$893,704	\$920,516
Internal Services	\$724,683	\$746,423	\$768,816	\$791,881	\$815,637	\$840,106	\$865,309	\$891,269	\$918,007	\$945,547	\$973,913	\$1,003,131
Other Charges	\$25,900	\$26,677	\$27,477	\$28,302	\$29,151	\$30,025	\$30,926	\$31,854	\$32,809	\$33,794	\$34,807	\$35,852
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP			\$23,234	\$23,877	\$24,538	\$25,217	\$25,914	\$26,631	\$564,478	\$581,348	\$598,722	\$710,743
Total Operating (A)	\$6,198,559	\$6,384,516	\$6,599,285	\$6,797,210	\$7,001,070	\$7,211,045	\$7,427,318	\$7,650,077	\$8,416,627	\$8,669,061	\$8,929,067	\$9,290,998
(excluding Interest Expense and Depreciation)												
Debt Service												
Existing Debt Service	\$2,230,150	\$2,872,074	\$2,886,850	\$2,896,373	\$2,899,975	\$2,912,365	\$2,919,334	\$2,925,498	\$2,935,717	\$2,944,053	\$2,957,099	\$2,969,769
Coverage Allowance	\$557,538	\$160,481	\$3,694	\$2,381	\$901	\$3,098	\$1,742	\$1,541	\$2,555	\$2,084	\$3,262	\$3,168
Reserved												
Coverage Allowance												
Projected Debt Service		\$0	\$537,937	\$1,269,444	\$2,642,065	\$3,855,663	\$5,040,063	\$6,337,569	\$6,764,838	\$7,369,633	\$7,992,572	\$8,356,392
Coverage		\$0	\$134,484	\$182,877	\$343,155	\$303,400	\$296,100	\$324,376	\$106,817	\$151,199	\$155,735	\$90,955
Total Debt Service and Coverage (B)	\$2,787,688	\$3,032,555	\$3,562,965	\$4,351,075	\$5,886,095	\$7,074,526	\$8,257,239	\$9,588,984	\$9,809,927	\$10,466,969	\$11,108,668	\$11,420,283
PAY-AS-YOU-GO CIP												
PAY-AS-YOU-GO CIP		\$0	\$637,753	\$867,242	\$1,627,315	\$1,438,787	\$1,404,170	\$1,538,263	\$506,550	\$717,017	\$738,528	\$431,327
Total PAY-AS-YOU-GO (C)	\$0	\$0	\$637,753	\$867,242	\$1,627,315	\$1,438,787	\$1,404,170	\$1,538,263	\$506,550	\$717,017	\$738,528	\$431,327
Less Non-Rate Revenues												
Sewage Treat. Middletown	\$711,300	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,600	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$327,999	\$333,000	\$391,000	\$478,000	\$647,000	\$778,000	\$908,000	\$1,054,000	\$1,079,000	\$1,151,000	\$1,221,000	\$1,256,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$2,857,899	\$2,662,000	\$2,720,000	\$2,807,000	\$2,976,000	\$3,107,000	\$3,237,000	\$3,383,000	\$3,408,000	\$3,480,000	\$3,550,000	\$3,585,000
Total Revenue Requirements (E=A+B+C-D)	\$6,128,348	\$6,755,071	\$8,080,003	\$9,208,526	\$11,538,481	\$12,617,358	\$13,851,727	\$15,394,324	\$15,325,104	\$16,373,048	\$17,226,262	\$17,557,609
Percent Change above FY 2012		110%	132%	150%	188%	206%	226%	251%	250%	267%	281%	286%
Allocation of Revenue Requirement (\$)												
Sewer Charge (\$/kgal)		\$5,404,057	\$6,464,002	\$7,366,821	\$9,230,785	\$10,093,886	\$11,081,381	\$12,315,459	\$12,260,083	\$13,098,438	\$13,781,010	\$14,046,087
CSO fixed fee (meter size)		\$1,351,014	\$1,616,001	\$1,841,705	\$2,307,696	\$2,523,472	\$2,770,345	\$3,078,865	\$3,065,021	\$3,274,610	\$3,445,252	\$3,511,522
Total		\$6,755,071	\$8,080,003	\$9,208,526	\$11,538,481	\$12,617,358	\$13,851,727	\$15,394,324	\$15,325,104	\$16,373,048	\$17,226,262	\$17,557,609

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenue Requirement										
Operating										
Salaries	\$186,253	\$191,840	\$197,596	\$203,524	\$209,629	\$215,918	\$222,000	\$228,000	\$234,000	\$241,000
Fringe Benefits	\$141,541	\$145,787	\$150,161	\$154,666	\$159,306	\$164,085	\$169,000	\$174,000	\$179,000	\$184,000
Purchased Services	\$6,491,586	\$6,686,334	\$6,886,924	\$7,093,532	\$7,306,338	\$7,525,528	\$7,700,000	\$7,900,000	\$8,100,000	\$8,300,000
Utilities	\$948,131	\$976,575	\$1,005,872	\$1,036,048	\$1,067,130	\$1,099,144	\$1,130,000	\$1,160,000	\$1,190,000	\$1,220,000
Internal Services	\$1,033,225	\$1,064,221	\$1,096,148	\$1,129,033	\$1,162,903	\$1,197,791	\$1,230,000	\$1,260,000	\$1,290,000	\$1,320,000
Other Charges	\$36,927	\$38,035	\$39,176	\$40,351	\$41,562	\$42,809	\$44,000	\$45,000	\$46,000	\$47,000
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional O&M from New CIP	\$731,995	\$753,882	\$776,424	\$799,640	\$823,550	\$848,175	\$873,536	\$899,656	\$926,557	\$954,353
Total Operating (A)	\$9,569,658	\$9,856,675	\$10,152,301	\$10,456,793	\$10,770,418	\$11,093,449	\$11,368,536	\$11,666,656	\$11,965,557	\$12,266,353
(excluding Interest Expense and Depreciation)										
Debt Service										
Existing Debt Service	\$2,095,266	\$2,091,894	\$2,092,751	\$2,091,179	\$1,146,023	\$1,144,446	\$1,144,363	\$762,319	\$221,171	
Coverage Allowance	(\$218,626)	(\$843)	\$214	(\$393)	(\$236,289)	(\$394)	(\$21)	(\$95,511)	\$55,293	
Reserved										
Coverage Allowance										
Projected Debt Service	\$9,125,679	\$10,720,855	\$12,363,887	\$12,809,191	\$13,230,957	\$13,907,850	\$14,546,334	\$16,194,787	\$17,892,694	\$18,381,636
Coverage	\$192,322	\$398,794	\$410,758	\$111,326	\$105,442	\$169,223	\$159,621	\$412,113	\$424,477	\$122,236
Total Debt Service and Coverage (B)	\$11,194,641	\$13,210,700	\$14,867,610	\$15,011,303	\$14,246,133	\$15,221,125	\$15,850,297	\$17,273,708	\$18,593,634	\$18,503,872
PAY-AS-YOU-GO CIP										
PAY-AS-YOU-GO CIP	\$912,032	\$1,891,168	\$1,947,903	\$527,932	\$500,027	\$802,493	\$756,957	\$1,954,330	\$2,012,960	\$579,668
Total PAY-AS-YOU-GO (C)	\$912,032	\$1,891,168	\$1,947,903	\$527,932	\$500,027	\$802,493	\$756,957	\$1,954,330	\$2,012,960	\$579,668
Less Non-Rate Revenues										
Sewage Treat. Middletown	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000	\$711,000
Sewer Treatment, U.S.N.	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000	\$615,000
Middletown and Navy share of debt	\$1,231,000	\$1,453,000	\$1,635,000	\$1,651,000	\$1,567,000	\$1,674,000	\$1,743,000	\$1,900,000	\$2,045,000	\$2,035,000
Other fees (sewer assessment, pretreatment, ICI, disposal permits)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Investment Income	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Total Non-Rate Revenues (D)	\$3,560,000	\$3,782,000	\$3,964,000	\$3,980,000	\$3,896,000	\$4,003,000	\$4,072,000	\$4,229,000	\$4,374,000	\$4,364,000
Total Revenue Requirements (E=A+B+C-D)	\$18,116,331	\$21,176,543	\$23,003,814	\$22,016,028	\$21,620,577	\$23,114,067	\$23,903,790	\$26,665,694	\$28,198,151	\$26,985,893
Percent Change above FY 2012	296%	346%	375%	359%	353%	377%	390%	435%	460%	440%
Allocation of Revenue Requirement (\$)										
Sewer Charge (\$/kgal)	\$14,493,064	\$16,941,235	\$18,403,051	\$17,612,823	\$17,296,462	\$18,491,253	\$19,123,032	\$21,332,555	\$22,558,521	\$21,588,715
CSO fixed fee (meter size)	\$3,623,266	\$4,235,309	\$4,600,763	\$4,403,206	\$4,324,115	\$4,622,813	\$4,780,758	\$5,333,139	\$5,639,630	\$5,397,179
Total	\$18,116,331	\$21,176,543	\$23,003,814	\$22,016,028	\$21,620,577	\$23,114,067	\$23,903,790	\$26,665,694	\$28,198,151	\$26,985,893

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts												
5/8 Res	6,656	6,663	6,670	6,677	6,684	6,691	6,698	6,705	6,712	6,719	6,726	6,733
3/4 Res	1,236	1,237	1,238	1,239	1,240	1,241	1,242	1,243	1,244	1,245	1,246	1,247
1 Res	243	243	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6	6	6
Total Accounts	881	881	881	881	881	881	881	881	881	881	881	881
<i>Percent Change above FY 2012</i>		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sewer Flows (thousand gallons)												
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Accounts	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Number of Accounts										
5/8 Res	6,740	6,747	6,754	6,761	6,768	6,775	6,782	6,789	6,796	6,803
3/4 Res	1,248	1,249	1,250	1,251	1,252	1,253	1,254	1,255	1,256	1,257
1 Res	243	243	243	243	243	243	243	243	243	243
1.5 Res	136	136	136	136	136	136	136	136	136	136
2 Res	56	56	56	56	56	56	56	56	56	56
3 Res	20	20	20	20	20	20	20	20	20	20
4 Res	1	1	1	1	1	1	1	1	1	1
6 Res	2	2	2	2	2	2	2	2	2	2
5/8 Comm / Gov	450	450	450	450	450	450	450	450	450	450
3/4 Comm / Gov	128	128	128	128	128	128	128	128	128	128
1 Comm / Gov	95	95	95	95	95	95	95	95	95	95
1.5 Comm / Gov	82	82	82	82	82	82	82	82	82	82
2 Comm / Gov	86	86	86	86	86	86	86	86	86	86
3 Comm / Gov	28	28	28	28	28	28	28	28	28	28
4 Comm / Gov	6	6	6	6	6	6	6	6	6	6
6 Comm / Gov	6	6	6	6	6	6	6	6	6	6
Total Accounts	881	881	881	881	881	881	881	881	881	881
<i>Percent Change above FY 2012</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>
Sewer Flows (thousand gallons)										
Residential	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000
Commercial	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Accounts	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
<i>Percent Change above FY 2012</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>	<i>100.00%</i>

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenues												
Sewer Volume Charge												
Rate (\$/kgal)	\$11.27	\$11.27	\$11.27	\$11.27	\$13.19	\$14.42	\$15.83	\$17.59	\$17.59	\$18.71	\$19.69	\$20.07
Residential	\$6,198,500	\$6,198,500	\$6,198,500	\$6,198,500	\$7,254,500	\$7,931,000	\$8,706,500	\$9,674,500	\$9,674,500	\$10,290,500	\$10,829,500	\$11,038,500
Commercial	\$1,690,500	\$1,690,500	\$1,690,500	\$1,690,500	\$1,978,500	\$2,163,000	\$2,374,500	\$2,638,500	\$2,638,500	\$2,806,500	\$2,953,500	\$3,010,500
Sub-total Sewer Charge	\$7,889,000	\$7,889,000	\$7,889,000	\$7,889,000	\$9,233,000	\$10,094,000	\$11,081,000	\$12,313,000	\$12,313,000	\$13,097,000	\$13,783,000	\$14,049,000
CSO Fixed Fee (annual)												
Residential (5/8")	\$192	\$192	\$192	\$192	\$212	\$232	\$255	\$283	\$283	\$300	\$316	\$321
Commercial (<1")	\$192	\$192	\$192	\$192	\$212	\$232	\$255	\$283	\$283	\$300	\$316	\$321
Commercial (1")	\$265	\$265	\$265	\$265	\$293	\$320	\$351	\$390	\$390	\$414	\$436	\$444
Commercial (1-1/2")	\$500	\$500	\$500	\$500	\$553	\$604	\$663	\$736	\$736	\$782	\$822	\$837
Commercial (2")	\$733	\$733	\$733	\$733	\$811	\$886	\$972	\$1,079	\$1,079	\$1,146	\$1,205	\$1,227
Commercial (3")	\$1,774	\$1,774	\$1,774	\$1,774	\$1,962	\$2,144	\$2,352	\$2,612	\$2,612	\$2,774	\$2,916	\$2,970
Commercial (4")	\$2,951	\$2,951	\$2,951	\$2,951	\$3,264	\$3,566	\$3,912	\$4,345	\$4,345	\$4,614	\$4,851	\$4,941
Commercial (6")	\$5,894	\$5,894	\$5,894	\$5,894	\$6,519	\$7,123	\$7,814	\$8,678	\$8,678	\$9,216	\$9,690	\$9,869
CSO Fixed Fee Revenue												
5/8 Res	\$1,277,952	\$1,279,296	\$1,280,640	\$1,281,984	\$1,419,401	\$1,552,601	\$1,705,023	\$1,895,490	\$1,897,469	\$2,017,245	\$2,123,019	\$2,164,521
3/4 Res	\$237,312	\$237,504	\$237,696	\$237,888	\$263,324	\$287,966	\$316,160	\$351,394	\$351,676	\$373,786	\$393,292	\$400,885
1 Res	\$64,395	\$64,395	\$64,395	\$64,395	\$71,223	\$77,825	\$85,376	\$94,814	\$94,814	\$100,694	\$105,864	\$107,821
1.5 Res	\$68,000	\$68,000	\$68,000	\$68,000	\$75,210	\$82,182	\$90,156	\$100,122	\$100,122	\$106,331	\$111,790	\$113,857
2 Res	\$41,048	\$41,048	\$41,048	\$41,048	\$45,400	\$49,609	\$54,422	\$60,438	\$60,438	\$64,187	\$67,482	\$68,730
3 Res	\$35,480	\$35,480	\$35,480	\$35,480	\$39,242	\$42,880	\$47,040	\$52,240	\$52,240	\$55,480	\$58,328	\$59,407
4 Res	\$2,951	\$2,951	\$2,951	\$2,951	\$3,264	\$3,566	\$3,912	\$4,345	\$4,345	\$4,614	\$4,851	\$4,941
6 Res	\$11,788	\$11,788	\$11,788	\$11,788	\$13,038	\$14,246	\$15,629	\$17,356	\$17,356	\$18,433	\$19,379	\$19,737
5/8 Comm / Gov	\$86,400	\$86,400	\$86,400	\$86,400	\$95,561	\$104,419	\$114,551	\$127,214	\$127,214	\$135,103	\$142,040	\$144,666
3/4 Comm / Gov	\$24,576	\$24,576	\$24,576	\$24,576	\$27,182	\$29,702	\$32,583	\$36,185	\$36,185	\$38,429	\$40,402	\$41,149
1 Comm / Gov	\$25,175	\$25,175	\$25,175	\$25,175	\$27,844	\$30,425	\$33,377	\$37,067	\$37,067	\$39,366	\$41,387	\$42,152
1.5 Comm / Gov	\$41,000	\$41,000	\$41,000	\$41,000	\$45,347	\$49,551	\$54,359	\$60,368	\$60,368	\$64,112	\$67,403	\$68,649
2 Comm / Gov	\$63,038	\$63,038	\$63,038	\$63,038	\$69,722	\$76,185	\$83,577	\$92,816	\$92,816	\$98,572	\$103,633	\$105,549
3 Comm / Gov	\$49,672	\$49,672	\$49,672	\$49,672	\$54,939	\$60,032	\$65,856	\$73,136	\$73,136	\$77,672	\$81,660	\$83,169
4 Comm / Gov	\$17,706	\$17,706	\$17,706	\$17,706	\$19,583	\$21,399	\$23,475	\$26,070	\$26,070	\$27,687	\$29,108	\$29,646
6 Comm / Gov	\$35,364	\$35,364	\$35,364	\$35,364	\$39,114	\$42,739	\$46,886	\$52,069	\$52,069	\$55,299	\$58,138	\$59,212
Sub-total CSO fixed fee	2,081,857	2,083,393	2,084,929	2,086,465	2,309,395	2,525,328	2,772,382	3,081,126	3,083,388	3,277,011	3,447,778	3,514,094
Typical Annual Residential Sewer Bill												
Sewer Volume Charge	\$541	\$541	\$541	\$541	\$633	\$692	\$760	\$844	\$844	\$898	\$945	\$963
Sewer Charge Pct Increase		0%	0%	0%	17%	9%	10%	11%	0%	6%	5%	2%
CSO Fixed Fee (based on meter size)	\$192	\$192	\$192	\$192	\$212	\$232	\$255	\$283	\$283	\$300	\$316	\$321
CSO Fixed Fee Pct Increase		0%	0%	0%	11%	9%	10%	11%	0%	6%	5%	2%
Total Typical Residential Annual Sewer Bill	\$733	\$733	\$733	\$733	\$845	\$924	\$1,015	\$1,127	\$1,127	\$1,198	\$1,261	\$1,284
Median Household Income (MHI)	\$59,705	\$60,780	\$61,874	\$62,987	\$64,121	\$65,275	\$66,450	\$67,646	\$68,864	\$70,104	\$71,366	\$72,650
Typical Residential Annual Sewer Bill as Percent of MHI	1.23%	1.21%	1.18%	1.16%	1.32%	1.42%	1.53%	1.67%	1.64%	1.71%	1.77%	1.77%

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Revenues										
Sewer Volume Charge										
Rate (\$/kgal)	\$20.70	\$24.20	\$26.29	\$26.29	\$26.29	\$26.42	\$27.32	\$30.48	\$32.23	\$32.23
Residential	\$11,385,000	\$13,310,000	\$14,459,500	\$14,459,500	\$14,459,500	\$14,531,000	\$15,026,000	\$16,764,000	\$17,726,500	\$17,726,500
Commercial	\$3,105,000	\$3,630,000	\$3,943,500	\$3,943,500	\$3,943,500	\$3,963,000	\$4,098,000	\$4,572,000	\$4,834,500	\$4,834,500
Sub-total Sewer Charge	\$14,490,000	\$16,940,000	\$18,403,000	\$18,403,000	\$18,403,000	\$18,494,000	\$19,124,000	\$21,336,000	\$22,561,000	\$22,561,000
CSO Fixed Fee (annual)										
Residential (5/8")	\$331	\$387	\$420	\$420	\$420	\$421	\$435	\$485	\$513	\$513
Commercial (<1")	\$331	\$387	\$420	\$420	\$420	\$421	\$435	\$485	\$513	\$513
Commercial (1")	\$457	\$534	\$580	\$580	\$580	\$582	\$601	\$670	\$708	\$708
Commercial (1-1/2")	\$863	\$1,008	\$1,094	\$1,094	\$1,094	\$1,097	\$1,134	\$1,264	\$1,336	\$1,336
Commercial (2")	\$1,265	\$1,478	\$1,604	\$1,604	\$1,604	\$1,609	\$1,662	\$1,853	\$1,958	\$1,958
Commercial (3")	\$3,063	\$3,577	\$3,883	\$3,883	\$3,883	\$3,893	\$4,023	\$4,485	\$4,739	\$4,739
Commercial (4")	\$5,095	\$5,951	\$6,460	\$6,460	\$6,460	\$6,476	\$6,693	\$7,461	\$7,884	\$7,884
Commercial (6")	\$10,175	\$11,885	\$12,902	\$12,902	\$12,902	\$12,935	\$13,367	\$14,901	\$15,746	\$15,746
CSO Fixed Fee Revenue										
5/8 Res	\$2,234,087	\$2,612,269	\$2,838,544	\$2,841,486	\$2,844,427	\$2,854,758	\$2,953,191	\$3,295,409	\$3,485,849	\$3,489,439
3/4 Res	\$413,671	\$483,581	\$525,345	\$525,765	\$526,185	\$527,972	\$546,049	\$609,182	\$644,236	\$644,749
1 Res	\$111,171	\$129,855	\$140,957	\$140,957	\$140,957	\$141,322	\$146,044	\$162,800	\$172,031	\$172,031
1.5 Res	\$117,395	\$137,124	\$148,848	\$148,848	\$148,848	\$149,234	\$154,220	\$171,914	\$181,661	\$181,661
2 Res	\$70,865	\$82,775	\$89,851	\$89,851	\$89,851	\$90,085	\$93,095	\$103,775	\$109,659	\$109,659
3 Res	\$61,252	\$71,547	\$77,663	\$77,663	\$77,663	\$77,865	\$80,467	\$89,699	\$94,785	\$94,785
4 Res	\$5,095	\$5,951	\$6,460	\$6,460	\$6,460	\$6,476	\$6,693	\$7,461	\$7,884	\$7,884
6 Res	\$20,351	\$23,771	\$25,803	\$25,803	\$25,803	\$25,870	\$26,735	\$29,802	\$31,492	\$31,492
5/8 Comm / Gov	\$149,160	\$174,229	\$189,124	\$189,124	\$189,124	\$189,615	\$195,950	\$218,432	\$230,817	\$230,817
3/4 Comm / Gov	\$42,428	\$49,558	\$53,795	\$53,795	\$53,795	\$53,935	\$55,737	\$62,132	\$65,655	\$65,655
1 Comm / Gov	\$43,462	\$50,766	\$55,106	\$55,106	\$55,106	\$55,249	\$57,096	\$63,646	\$67,255	\$67,255
1.5 Comm / Gov	\$70,782	\$82,678	\$89,746	\$89,746	\$89,746	\$89,979	\$92,986	\$103,654	\$109,531	\$109,531
2 Comm / Gov	\$108,828	\$127,118	\$137,986	\$137,986	\$137,986	\$138,344	\$142,967	\$159,369	\$168,406	\$168,406
3 Comm / Gov	\$85,753	\$100,165	\$108,729	\$108,729	\$108,729	\$109,011	\$112,653	\$125,578	\$132,698	\$132,698
4 Comm / Gov	\$30,567	\$35,705	\$38,757	\$38,757	\$38,757	\$38,858	\$40,156	\$44,763	\$47,301	\$47,301
6 Comm / Gov	\$61,052	\$71,313	\$77,410	\$77,410	\$77,410	\$77,610	\$80,204	\$89,405	\$94,475	\$94,475
Sub-total CSO fixed fee	3,625,918	4,238,406	4,604,125	4,607,487	4,610,849	4,626,184	4,784,242	5,337,022	5,643,734	5,647,837
Typical Annual Residential Sewer Bill										
Sewer Volume Charge	\$993	\$1,161	\$1,261	\$1,261	\$1,261	\$1,267	\$1,310	\$1,462	\$1,546	\$1,546
Sewer Charge Pct Increase	3%	17%	9%	0%	0%	0%	3%	12%	6%	0%
CSO Fixed Fee (based on meter size)	\$331	\$387	\$420	\$420	\$420	\$421	\$435	\$485	\$513	\$513
CSO Fixed Fee Pct Increase	3%	17%	9%	0%	0%	0%	3%	11%	6%	0%
Total Typical Residential Annual Sewer Bill	\$1,324	\$1,548	\$1,681	\$1,681	\$1,681	\$1,688	\$1,745	\$1,947	\$2,059	\$2,059
Median Household Income (MHI)										
Typical Residential Annual Sewer Bill as Percent of MHI	1.79%	2.06%	2.19%	2.15%	2.12%	2.09%	2.12%	2.32%	2.41%	2.37%

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)												
WPCP - 1.1 (Headworks, Disinfection, Solids Handling) (Option 1 in addition to CIP)			\$635,553	\$654,620	\$4,944,563	\$5,092,900	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements			\$183,705	\$1,576,805	\$1,429,216	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements			\$26,273	\$198,450	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL			\$106,090	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections			\$954,810	\$109,273	\$900,407	\$115,927	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements			\$1,007,855	\$3,223,545	\$3,095,149	\$2,318,548	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management			\$678,976	\$393,382	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)			\$143,221	\$147,518	\$1,114,254	\$1,147,681	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Final Clarifier Improvements)			\$95,481	\$98,345	\$742,836	\$765,121	\$0	\$0	\$0	\$0	\$0	\$0
OS-11 Washington CSO Facility Storage			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OS-19 Kings Park Storage			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SO-3 Weirs			\$199,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute			\$0	\$0	\$0	\$0	\$0	\$0	\$727,845	\$2,748,828	\$2,831,292	\$0
SO-2 Increased Pumping Capacity/Better Use of System Capacity			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.1 WPCP Upgrade and Expansion (Primary Clarifier)			\$390,167	\$401,872	\$3,035,475	\$3,126,539	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.2 WPCP Upgrade and Expansion (Aeration Basins)			\$690,137	\$710,841	\$0	\$0	\$5,696,203	\$5,867,089	\$0	\$0	\$0	\$0
WPCP 1.4 CEPT			\$542,295	\$558,564	\$0	\$0	\$4,475,959	\$4,610,237	\$0	\$0	\$0	\$0
II-4 Downspout Disconnections (engineering only)			\$722,987	\$297,871	\$306,807	\$316,011	\$0	\$838,140	\$345,314	\$355,673	\$366,343	\$0
Ongoing Asset Management			\$0	\$0	\$225,102	\$1,101,310	\$3,522,454	\$3,628,128	\$3,736,972	\$3,849,081	\$3,964,553	\$4,083,490
Program Management			\$0	\$301,331	\$479,344	\$403,829	\$347,081	\$439,036	\$255,373	\$216,592	\$223,090	\$229,783
Sub-total Inflated Capital Costs			\$6,377,531	\$8,672,416	\$16,273,152	\$14,387,867	\$14,041,696	\$15,382,629	\$5,065,503	\$7,170,174	\$7,385,279	\$4,313,273
Additional O&M for new CIP			\$23,234	\$23,877	\$24,538	\$25,217	\$25,914	\$26,631	\$564,478	\$581,348	\$598,722	\$710,743
Total inflated			\$6,400,765	\$8,696,293	\$16,297,689	\$14,413,083	\$14,067,611	\$15,409,260	\$5,629,981	\$7,751,522	\$7,984,001	\$5,024,016

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Improvement Projects (Inflated)										
WPCP - 1.1 (Headworks, Disinfection, Solids Handling)										
(Option 1 in addition to CIP)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wellington Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ruggles Pump Station Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bridge St. Tide Gates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Almy Pond - TMDL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-1 Catchbasin Disconnections	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Sewer Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Beach PS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Audit - UW Service Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSO Program Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Headworks & Disinfection)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP - 1.1 (Final Clarifier Improvements)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OS-11 Washington CSO Facility Storage	\$3,689,871	\$13,935,411	\$14,353,474	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OS-19 Kings Park Storage	\$0	\$0	\$0	\$0	\$0	\$1,748,264	\$1,800,712	\$13,601,381	\$14,009,422	\$0
SO-3 Weirs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CU-2 Catchment 10 Reroute	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SO-2 Increased Pumping Capacity/Better Use of System Capacity	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.1 WPCP Upgrade and Expansion (Primary Clarifier)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP-1.2 WPCP Upgrade and Expansion (Aeration Basins)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPCP 1.4 CEPT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-4 Downspout Disconnections (engineering only)	\$971,634	\$400,313	\$412,323	\$424,692	\$0	\$1,126,390	\$464,073	\$477,995	\$492,335	\$0
Ongoing Asset Management	\$4,205,995	\$4,332,174	\$4,462,140	\$4,596,004	\$4,733,884	\$4,875,901	\$5,022,178	\$5,172,843	\$5,328,028	\$5,487,869
Program Management	\$252,816	\$243,777	\$251,090	\$258,623	\$266,381	\$274,373	\$282,604	\$291,082	\$299,814	\$308,809
Sub-total Inflated Capital Costs	\$9,120,315	\$18,911,675	\$19,479,026	\$5,279,319	\$5,000,265	\$8,024,928	\$7,569,566	\$19,543,301	\$20,129,600	\$5,796,678
Additional O&M for new CIP	\$731,995	\$753,882	\$776,424	\$799,640	\$823,550	\$848,175	\$873,536	\$899,656	\$926,557	\$954,353
Total inflated	\$9,852,310	\$19,665,558	\$20,255,450	\$6,078,959	\$5,823,815	\$8,873,103	\$8,443,103	\$20,442,957	\$21,056,156	\$6,751,031

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Status	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service												
Capital Requirement			\$6,377,531	\$8,672,416	\$16,273,152	\$14,387,867	\$14,041,696	\$15,382,629	\$5,065,503	\$7,170,174	\$7,385,279	\$4,313,273
% Debt Funded			90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)			10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)			\$637,753	\$867,242	\$1,627,315	\$1,438,787	\$1,404,170	\$1,538,263	\$506,550	\$717,017	\$738,528	\$431,327
			Series 2014	Series 2015	Series 2016	Series 2017	Series 2018	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023
Project Costs Debt Funded	\$0	\$5,739,778	\$7,805,175	\$14,645,836	\$12,949,080	\$12,637,527	\$13,844,366	\$4,558,953	\$6,453,157	\$6,646,751	\$3,881,945	
Cost of Issuance	\$0	\$114,796	\$156,103	\$292,917	\$258,982	\$252,751	\$276,887	\$91,179	\$129,063	\$132,935	\$77,639	
Bond Reserve	\$0	\$573,978	\$780,517	\$1,464,584	\$1,294,908	\$1,263,753	\$1,384,437	\$455,895	\$645,316	\$664,675	\$388,195	
Total Bond Issue	\$0	\$6,428,551	\$8,741,796	\$16,403,337	\$14,502,970	\$14,154,030	\$15,505,690	\$5,106,027	\$7,227,535	\$7,444,361	\$4,347,779	
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Series 2014		\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	
Series 2015			\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	
Series 2016				\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	
Series 2017				\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	
Series 2018					\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	
Series 2019						\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	
Series 2020							\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	
Series 2021								\$604,795	\$604,795	\$604,795	\$604,795	
Series 2022									\$622,939	\$622,939	\$622,939	
Series 2023											\$363,819	
Series 2024												
Series 2025												
Series 2026												
Series 2027												
Series 2028												
Series 2029												
Series 2030												
Series 2031												
Series 2032												
Series 2033												
Projected Debt Service	\$0	\$537,937	\$1,269,444	\$2,642,065	\$3,855,663	\$5,040,063	\$6,337,569	\$6,764,838	\$7,369,633	\$7,992,572	\$8,356,392	

Table H-8
S3A (without Private I/I) 20 year implementation

Fiscal Year	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Status	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Capital Requirement and Debt Service										
Capital Requirement	\$9,120,315	\$18,911,675	\$19,479,026	\$5,279,319	\$5,000,265	\$8,024,928	\$7,569,566	\$19,543,301	\$20,129,600	\$5,796,678
% Debt Funded	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
% Equity Funded (Pay Go)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Amount Equity Funded (Pay Go)	\$912,032	\$1,891,168	\$1,947,903	\$527,932	\$500,027	\$802,493	\$756,957	\$1,954,330	\$2,012,960	\$579,668
	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028	Series 2029	Series 2030	Series 2031	Series 2032	Series 2033
Project Costs Debt Funded	\$8,208,284	\$17,020,508	\$17,531,123	\$4,751,387	\$4,500,239	\$7,222,435	\$6,812,610	\$17,588,971	\$18,116,640	\$5,217,010
Cost of Issuance	\$164,166	\$340,410	\$350,622	\$95,028	\$90,005	\$144,449	\$136,252	\$351,779	\$362,333	\$104,340
Bond Reserve	\$820,828	\$1,702,051	\$1,753,112	\$475,139	\$450,024	\$722,243	\$681,261	\$1,758,897	\$1,811,664	\$521,701
Total Bond Issue	\$9,193,278	\$19,062,969	\$19,634,858	\$5,321,553	\$5,040,267	\$8,089,127	\$7,630,123	\$19,699,647	\$20,290,636	\$5,843,051
Series 2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Series 2014	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937	\$537,937
Series 2015	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508	\$731,508
Series 2016	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620	\$1,372,620
Series 2017	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599	\$1,213,599
Series 2018	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400	\$1,184,400
Series 2019	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506	\$1,297,506
Series 2020	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269	\$427,269
Series 2021	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795	\$604,795
Series 2022	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939	\$622,939
Series 2023	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819	\$363,819
Series 2024	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287	\$769,287
Series 2025		\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176	\$1,595,176
Series 2026			\$1,643,032	\$1,643,032	\$1,643,032	\$1,643,032	\$1,643,032	\$1,643,032	\$1,643,032	\$1,643,032
Series 2027				\$445,304	\$445,304	\$445,304	\$445,304	\$445,304	\$445,304	\$445,304
Series 2028					\$421,766	\$421,766	\$421,766	\$421,766	\$421,766	\$421,766
Series 2029						\$676,893	\$676,893	\$676,893	\$676,893	\$676,893
Series 2030							\$638,484	\$638,484	\$638,484	\$638,484
Series 2031								\$1,648,453	\$1,648,453	\$1,648,453
Series 2032									\$1,697,907	\$1,697,907
Series 2033										\$488,943
Projected Debt Service	\$9,125,679	\$10,720,855	\$12,363,887	\$12,809,191	\$13,230,957	\$13,907,850	\$14,546,334	\$16,194,787	\$17,892,694	\$18,381,636