In the Matter of the Philadelphia Water Department's Proposed Change in Water, Wastewater and Stormwater Rates and Related Charges

Fiscal Years 2021-2022

Philadelphia Water Department

PWD Exhibit 6

Black & Veatch Management Consulting, LLC Calculations Supporting Schedules BV-1, BV-2, BV-3, and BV-5

Dated: February 2020

INDEX TO
BLACK & VEATCH MANAGEMENT CONSULTING, LLC
CALCULATIONS SUPPORTING FEBRUARY 2020
SCHEDULES BV-1, BV-2, BV-3, AND BV-5

IN THE MATTER OF THE PHILADELPHIA WATER DEPARTMENT'S PROPOSED CHANGE IN WATER, WASTEWATER AND STORMWATER RATES AND RELATED CHARGES

FISCAL YEARS 2021-2022

The calculations supporting the February 2020 Schedules BV-1, BV-2, BV-3 and BV-5 are developed in three computer model workbook files: FINPLAN19.XLS, WCOS19_21.XLS, and SCOS19_21.XLS. Each workbook file consists of many worksheets, and each worksheet may contain many pages of calculations. This printout of the computer model includes identifying tabs showing the name of the workbook file (e.g., Finplan19.XLS) and the worksheet (e.g., Customer) that is printed.

The Finplan19.XLS workbook file develops projected revenue requirements and cash flows for each utility and the combined utilities. The WCOS19_21.XLS workbook file allocates the water utility test year cost of service to contract wholesale and retail water utility customers and develops proposed water rates for the test year. The SCOS19_21.XLS workbook file allocates the wastewater utility test year cost of service to contract wholesale and retail sanitary sewer and stormwater customers and develops proposed sewer and stormwater rates for the test year.

The Index tab for each workbook file includes the following:

- Schedule Tables Reference Index – These pages provide calculation page references for the tables in Schedules BV-1, BV-2, BV-3 and BV-5.
- Section Index Pages – These pages provide brief descriptions of the purpose of each worksheet within the corresponding workbook file. In addition to this description, these pages include an index showing the description and page number of each page within the worksheet. Page numbers refer to the identifying page number for each page of the worksheet that is shown in the upper right-hand corner of a printed page, such as Customer-1 or LagRate-30. On many of the printed pages, references to other calculation pages are made using these page numbers. At the top of each printed page is a three-line page header that includes the name of the workbook file, a description of the content of the page, the page number and other miscellaneous information.

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ASSUMPTIONS

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Account Escalation Factors							Assumptions - 1
Description	2019	2020	2021	2022	2023	2024	2025
Index	3	4	5	6	7	8	9
Account - Small Decrease	-2.5%	-2.5%	-2.6%	-2.7%	0.0%	0.0%	0.0%
Account - Small Growth	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
Account - Med Growth	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Account - Large Growth	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Account - No Growth	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Volume Escalation Factors								Assumptions - 2
Description		2019	2020	2021	2022	2023	2024	2025
Volume - Small Decrease (SC)		-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - Small Decrease		-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - Small Decrease with Adjustment		-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - Small Growth		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Volume - Med Growth		2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Volume - No Growth		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Volume - No Growth with Adjustment		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
AMI Theft Volume Adjustment	FALSE	0.2%	0.4%	0.314%	0.108%	0.000%	0.004%	0.000%
Projected Revenue		488,963	493,472	488,885	484,722	480,568	476,428	472,304
Original Projection		497,967	498,989	499,377	495,196	490,943	486,697	482,469
Impact		(9,004)	(5,517)	(10,492)	(10,474)	(10,375)	(10,270)	(10,165)
(Note may include impact of collection factor adjustment)				(4,032)	(8,213)	(12,466)	(16,711)	(20,939)

NOT IN USE

Other Revenue							Assumptions - 3
	2019	2020	2021	2022	2023	2024	2025
Water	1.52%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Sewer	1.52%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Interest Income	1.59%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Debt Service Reserve Interest Income	2.05%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Misc City Revenues	1,449	1,720	1,720	1,720	1,720	1,720	1,720
Other	10,958	10,900	11,300	11,300	11,300	11,300	11,300
State & Federal Grants	698	1,000	1,000	1,000	1,000	1,000	1,000
Permits Issued by L&I (L&I)	6,493	4,640	4,640	4,640	4,640	4,640	4,640
Miscellaneous (Employee Benefit + Procurement)	413	420	420	420	420	420	420
City & UESF Grants		300	300	300	300	300	300
Affordability Program Discount Adjustment	-	-	-	-	-	-	-

Allocation	Water	Sewer
Aviation	100.0%	0.0%
Other	50.0%	50.0%
State & Federal Grants	100.0%	0.0%
Permits Issued by L&I (L&I)	50.0%	50.0%
Miscellaneous (Employee Benefit + Procurement)	50.0%	50.0%
City & UESF Grants	44.0%	56.0%
Affordability Program Discount Adjustment	44.0%	56.0%

Water - Customer Billed Volume Per Account (Mcf/Account) Assumptions - 4

	USE	Historical Averages				Historical Usage Per Account				
	2020	1 Year	2 Year	3 Year	5 Year	2015	2016	2017	2018	2019
Senior Citizens										
5/8" Meter	5.45	5.54	5.45	5.42	5.50	5.74	5.51	5.35	5.37	5.54
> 5/8" Meter	6.54	5.71	6.54	5.91	6.20	7.05	6.20	4.64	7.37	5.71
General Service (Residential)										
5/8" Meter	6.48	6.42	6.48	6.57	6.72	7.09	6.80	6.73	6.54	6.42
> 5/8" Meter	43.49	40.30	43.49	47.04	55.78	73.88	63.87	54.15	46.68	40.30
General Service (Commercial)										
5/8" Meter	10.71	10.55	10.71	10.81	11.10	11.73	11.31	11.03	10.87	10.55
> 5/8" Meter	149.35	146.62	149.35	151.75	156.62	165.22	162.64	156.57	152.07	146.62
General Service (Industrial)										
5/8" Meter	12.71	13.01	12.71	12.29	11.96	11.74	11.19	11.46	12.40	13.01
> 5/8" Meter	216.73	269.34	216.73	197.22	182.39	153.57	166.71	158.21	164.12	269.34
General Service (Public Utilities)										
5/8" Meter	9.77	8.39	9.77	9.90	9.71	8.96	9.92	10.15	11.15	8.39
> 5/8" Meter	86.84	83.92	86.84	102.40	109.66	124.31	116.76	133.54	89.75	83.92
General Service (Excluding Senior Citizens)										
5/8" Meter	NA	6.69	6.76	6.84	7.00	7.40	7.09	7.01	6.82	6.69
> 5/8" Meter	NA	97.92	100.65	104.23	113.06	130.10	122.49	111.39	103.38	97.92
General Service (Including Senior Citizens)										
5/8" Meter	NA	6.64	6.69	6.77	6.93	7.32	7.02	6.93	6.75	6.64
> 5/8" Meter	NA	97.88	100.61	104.18	113.01	130.06	122.44	111.34	103.34	97.88
PHA	26.76	26.77	26.76	26.73	27.78	30.25	28.48	26.67	26.74	26.77
Charities & Schools	72.66	72.89	72.66	72.75	72.65	73.67	71.32	72.95	72.42	72.89
Hospital/University	713.72	705.56	713.72	672.48	634.21	543.35	610.24	590.00	721.88	705.56
Hand Bill	1,864.84	1,778.52	1,864.84	1,955.45	2,032.68	2,125.74	2,171.28	2,136.67	1,951.17	1,778.52
Scheduled	3.73	4.17	3.73	3.62	5.31	10.35	5.33	3.40	3.30	4.17
xxxxxxxxxx	0.00	#N/A	#N/A	#N/A	#N/A	0.00	0.00	#N/A	#N/A	#N/A
xxxxxxxxxx	0.00	#N/A	#N/A	#N/A	#N/A	0.00	0.00	#N/A	#N/A	#N/A
Fire Service	2.51	1.53	2.51	2.73	2.99	2.82	3.95	3.18	3.48	1.53
Public Fire (Hydrants)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water - Billings per Usage (Prior to Adjustment Factor)							Assumptions - 5
	2019	2020	2021	2022	2023	2024	2025
NOT IN USE							

Water - Calculated Billings Adjustment Factor							Assumptions - 6
	2019	2020	2021	2022	2023	2024	2025
Senior Citizens	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Residential)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Commercial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Industrial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Public Utilities)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Excluding Senior Citizens)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PHA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Charities & Schools	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hospital/University	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hand Bill	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Scheduled	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fire Service	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Private Fire (Unmetered)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Public Fire (Hydrants)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer - Billings per Usage (Prior to Adjustment Factor)							Assumptions - 7
	2019	2020	2021	2022	2023	2024	2025
NOT IN USE							

Sewer - Calculated Billings Adjustment Factor							Assumptions - 8
	2019	2020	2021	2022	2023	2024	2025
Senior Citizens	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Residential)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Commercial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Industrial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Public Utilities)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Excluding Senior Citizens)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PHA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Charities & Schools	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hospital/University	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hand Bill	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Scheduled	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fire Service	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sewer	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Groundwater (Non-City)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx							
Stormwater	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Misc Municipal Revenue							Assumptions - 9
	2019	2020	2021	2022	2023	2024	2025
Not in Use							
See Other Revenue							

Collection Adjustment Factors								Assumptions - 10
		2019	2020	2021	2022	2023	2024	2025
Non SW Only								
Current Year	86.68%	86.87%	86.68%	86.68%	86.68%	86.68%	86.68%	86.68%
First Year Prior	8.74%	8.36%	8.74%	8.74%	8.74%	8.74%	8.74%	8.74%
Second Year Prior	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%
SW Only								
Current Year	63.19%	68.27%	63.19%	63.19%	63.19%	63.19%	63.19%	63.19%
First Year Prior	7.88%	8.22%	7.88%	7.88%	7.88%	7.88%	7.88%	7.88%
Second Year Prior	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%
AMI Revenue Adjustment **(NOT IN USE)**								
Current Year	FALSE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
First Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Second Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Revenue Impact								
Revenue Projection		659,549	667,680	664,062	659,177	653,771	648,349	642,952
Prior to Adjustment	NOT IN USE	672,200	675,731	672,003	666,176	660,082	655,343	651,370
Impact		-12,651	-8,051	-7,940	-6,999	-6,312	-6,994	-8,418
Effective Months		10	10	10	10	10	10	10
Water Revenue Increase		0.00%	0.00%	5.50%	5.50%	10.90%	10.90%	10.90%
Combined Water & Wastewater Revenue Increase		0.00%	0.00%	6.20%	6.20%	6.75%	6.75%	6.75%
Offset Rate Compression		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

Collection Adjustment Factors								Assumptions - 10
		2019	2020	2021	2022	2023	2024	2025
Water Revenue Increase Compression Factor								
Monthly Collection Factor Data								
July	94.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug	94.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep	94.02%	94.02%	94.02%	94.02%	94.02%	94.02%	94.02%	94.02%
Oct	94.19%	94.19%	94.19%	94.19%	94.19%	94.19%	94.19%	94.19%
Nov	93.39%	93.39%	93.39%	93.39%	93.39%	93.39%	93.39%	93.39%
Dec	93.65%	93.65%	93.65%	93.65%	93.65%	93.65%	93.65%	93.65%
Jan	92.61%	92.61%	92.61%	92.61%	92.61%	92.61%	92.61%	92.61%
Feb	91.53%	91.53%	91.53%	91.53%	91.53%	91.53%	91.53%	91.53%
Mar	90.34%	90.34%	90.34%	90.34%	90.34%	90.34%	90.34%	90.34%
Apr	87.76%	87.76%	87.76%	87.76%	87.76%	87.76%	87.76%	87.76%
May	80.60%	80.60%	80.60%	80.60%	80.60%	80.60%	80.60%	80.60%
Jun	32.73%	32.73%	32.73%	32.73%	32.73%	32.73%	32.73%	32.73%
Effective Annual Collection Factor	86.67%							
Water Effective Increase								
July		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Oct		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Nov		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Dec		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Jan		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Feb		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Mar		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Apr		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
May		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Jun		100.00%	100.00%	105.50%	105.50%	110.90%	110.90%	110.90%
Water Additional Revenue Collection Factor		85.08%	85.08%	85.08%	85.08%	85.08%	85.08%	85.08%
Water Additional Revenue Compression Factor		97.94%	98.16%	98.16%	98.16%	98.16%	98.16%	98.16%

Collection Adjustment Factors								Assumptions - 10
		2019	2020	2021	2022	2023	2024	2025
Combined Water & Wastewater Revenue Increase Compression Factor								
Monthly Collection Factor Data								
July	94.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug	93.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep	93.33%	93.33%	93.33%	93.33%	93.33%	93.33%	93.33%	93.33%
Oct	93.40%	93.40%	93.40%	93.40%	93.40%	93.40%	93.40%	93.40%
Nov	92.59%	92.59%	92.59%	92.59%	92.59%	92.59%	92.59%	92.59%
Dec	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
Jan	91.77%	91.77%	91.77%	91.77%	91.77%	91.77%	91.77%	91.77%
Feb	90.77%	90.77%	90.77%	90.77%	90.77%	90.77%	90.77%	90.77%
Mar	89.62%	89.62%	89.62%	89.62%	89.62%	89.62%	89.62%	89.62%
Apr	86.97%	86.97%	86.97%	86.97%	86.97%	86.97%	86.97%	86.97%
May	79.94%	79.94%	79.94%	79.94%	79.94%	79.94%	79.94%	79.94%
Jun	32.66%	32.66%	32.66%	32.66%	32.66%	32.66%	32.66%	32.66%
Effective Annual Collection Factor	85.98%							
Combined Water & Wastewater Effective Increase								
July		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Oct		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Nov		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Dec		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Jan		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Feb		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Mar		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Apr		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
May		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Jun		100.00%	100.00%	106.20%	106.20%	106.75%	106.75%	106.75%
Water & Wastewater Additional Revenue Collection Factor		84.40%	84.40%	84.40%	84.40%	84.40%	84.40%	84.40%
Water & Wastewater Additional Revenue Compression Factor		98.17%	98.17%	98.17%	98.17%	98.17%	98.17%	98.17%

Sewer Only - Billed Volume (Mcf) Assumptions - 11

Historical Data Review	Historical Averages 1 Year	2 Year	3 Year	5 Year	Historical Billed Volume 2015	2016	2017	2018	2019
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Fire	8,387	7,960	7,415	6,261	2,665	6,393	6,326	7,533	8,387
Sewer Only	66,411	71,054	81,296	79,558	70,303	83,596	101,781	75,697	66,411
Groundwater (Non-City)	231,240	220,178	215,498	226,953	276,587	211,684	206,137	209,117	231,240
xxxxxxxxxx	0	0	0	0	0	0	0	0	0

Projection Assumptions	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire	8,387	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
Sewer Only	66,411	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000
Groundwater (Non-City)	231,240	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0

Beyond Study Period

Water Wholesale **Assumptions - 12**

	2019	2020	2021	2022	2023	2024	2025
Bucks County							
Commodity Charge ($/Mcf)	-	-	-	-	-	-	-
Demand Charge ($/mgd of maximum demand)	-	-	-	-	-	-	-
Lump Sum Payment ($/year)	-	-	-	-	-	-	-
Usage (Mcf)	-	-	-	-	-	-	-
Max Demand (mgd)	-	-	-	-	-	-	-
Management Fee	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aqua PA							
Commodity Charge ($/Mcf)	3.053	3.019	3.019	3.019	3.019	3.019	3.019
Lump Sum Payment ($/year)	3,152,000	3,280,167	3,280,167	3,280,167	3,280,167	3,280,167	3,280,167
Usage (Mcf)	60,951	63,991	100,000	100,000	100,000	100,000	100,000
Management Fee	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

NOT IN USE

Surcharge							Assumptions - 13
	2019	2020	2021	2022	2023	2024	2025
Account Growth	-	-	-	-	-	-	-
lbs per Account							
BOD	150,000	150,000	150,000	150,000	150,000	150,000	150,000
SS	23,000	23,000	23,000	23,000	23,000	23,000	23,000
Effective Rate ($/lb)							
BOD	0.391	0.397	0.397	0.397	0.397	0.397	0.397
SS	0.391	0.388	0.388	0.388	0.388	0.388	0.388
Actual							

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
Abington							
Rates							
Volume ($/Mcf)	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	589,167	587,167	587,000	587,000	587,000	587,000	587,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	98,164	96,000	96,000	96,000	96,000	96,000	96,000
Capacity (cfs)	9.542	9.542	9.542	9.542	9.542	9.542	9.542
SS (1,000 lbs.)	979	1,000	1,000	1,000	1,000	1,000	1,000
BOD (1,000 lbs.)	1,423	1,400	1,400	1,400	1,400	1,400	1,400
Bensalem							
Rates							
Volume ($/Mcf)	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	92,667	92,167	92,000	92,000	92,000	92,000	92,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units							
Volume (Mcf)	178,629	175,000	175,000	175,000	175,000	175,000	175,000
Capacity (cfs)	11.740	11.740	11.740	11.740	11.740	11.740	11.740
SS (1,000 lbs.)	1,666	2,000	2,000	2,000	2,000	2,000	2,000
BOD (1,000 lbs.)	1,640	2,200	2,200	2,200	2,200	2,200	2,200

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
Bucks County							
Rates							
Volume ($/Mcf)	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	425,667	396,333	396,000	396,000	396,000	396,000	396,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units							
Volume (Mcf)	1,123,541	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Capacity (cfs)	74.260	74.260	74.260	74.260	74.260	74.260	74.260
SS (1,000 lbs.)	9,441	10,300	10,300	10,300	10,300	10,300	10,300
BOD (1,000 lbs.)	9,377	9,800	9,800	9,800	9,800	9,800	9,800
Cheltenham							
Rates							
Volume ($/Mcf)	1.6548	1.6550	1.6500	1.6500	1.6500	1.6500	1.6500
Capacity ($/cfs)	6,866	6,840	6,828	6,828	6,828	6,828	6,828
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	1,490,833	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	464,162	428,000	428,000	428,000	428,000	428,000	428,000
Capacity (cfs)	31.750	31.750	31.750	31.750	31.750	31.750	31.750
SS (1,000 lbs.)	2,985	3,400	3,400	3,400	3,400	3,400	3,400
BOD (1,000 lbs.)	2,597	3,000	3,000	3,000	3,000	3,000	3,000

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
Lower Moreland							
Rates							
Volume ($/Mcf)	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	331,167	335,167	335,000	335,000	335,000	335,000	335,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	70,412	65,000	65,000	65,000	65,000	65,000	65,000
Capacity (cfs)	5.880	5.880	5.880	5.880	5.880	5.880	5.880
SS (1,000 lbs.)	706	660	660	660	660	660	660
BOD (1,000 lbs.)	529	500	500	500	500	500	500
Lower Southampton							
Rates							
Volume ($/Mcf)	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)	1,881,667	1,986,167	2,003,000	2,003,000	2,003,000	2,003,000	2,003,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	346,766	300,000	300,000	300,000	300,000	300,000	300,000
Capacity (cfs)	15.790	15.790	15.790	15.790	15.790	15.790	15.790
SS (1,000 lbs.)	2,464	2,440	2,440	2,440	2,440	2,440	2,440
BOD (1,000 lbs.)	1,805	1,820	1,820	1,820	1,820	1,820	1,820

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
DELCORA							
Rates							
Volume ($/Mcf)	1.5497	1.5633	1.5600	1.5600	1.5600	1.5600	1.5600
Capacity ($/cfs)	7,165	7,264	7,247	7,247	7,247	7,247	7,247
SS ($/1,000 lbs.)	194.0919	187.7850	187.5200	187.5200	187.5200	187.5200	187.5200
BOD ($/1,000 lbs.)	186.4979	187.7617	187.6700	187.6700	187.6700	187.6700	187.6700
Annual Lump Sum ($)	1,129,500	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	1,360,421	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Capacity (cfs)	155.000	155.000	155.000	155.000	155.000	155.000	155.000
SS (1,000 lbs.)	14,044	13,400	13,400	13,400	13,400	13,400	13,400
BOD (1,000 lbs.)	11,103	11,000	11,000	11,000	11,000	11,000	11,000
Lower Merion							
Rates							
Volume ($/Mcf)	1.6076	1.6150	1.6100	1.6100	1.6100	1.6100	1.6100
Capacity ($/cfs)	7,328	7,429	7,412	7,412	7,412	7,412	7,412
SS ($/1,000 lbs.)	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)	125,500	124,333	124,000	124,000	124,000	124,000	124,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units							
Volume (Mcf)	384,414	360,000	360,000	360,000	360,000	360,000	360,000
Capacity (cfs)	31.570	31.570	31.570	31.570	31.570	31.570	31.570
SS (1,000 lbs.)	3,992	3,700	3,700	3,700	3,700	3,700	3,700
BOD (1,000 lbs.)	3,439	3,200	3,200	3,200	3,200	3,200	3,200

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
Springfield (less Wyndmoor)							
Rates							
Volume ($/Mcf)	1.8529	1.8733	1.8700	1.8700	1.8700	1.8700	1.8700
Capacity ($/cfs)	9,609	9,067	9,050	9,050	9,050	9,050	9,050
SS ($/1,000 lbs.)	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)	695,500	694,000	694,000	694,000	694,000	694,000	694,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	122,367	128,000	128,000	128,000	128,000	128,000	128,000
Capacity (cfs)	4.600	4.600	4.600	4.600	4.600	4.600	4.600
SS (1,000 lbs.)	2,506	2,200	2,200	2,200	2,200	2,200	2,200
BOD (1,000 lbs.)	2,441	2,250	2,250	2,250	2,250	2,250	2,250
Upper Darby							
Rates							
Volume ($/Mcf)	1.6076	1.6150	1.6100	1.6100	1.6100	1.6100	1.6100
Capacity ($/cfs)	7,328	7,429	7,412	7,412	7,412	7,412	7,412
SS ($/1,000 lbs.)	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)	42,667	42,167	42,000	42,000	42,000	42,000	42,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units							
Volume (Mcf)	554,451	490,000	490,000	490,000	490,000	490,000	490,000
Capacity (cfs)	35.000	35.000	35.000	35.000	35.000	35.000	35.000
SS (1,000 lbs.)	5,396	4,800	4,800	4,800	4,800	4,800	4,800
BOD (1,000 lbs.)	4,601	4,000	4,000	4,000	4,000	4,000	4,000

Sewer Wholesale							Assumptions - 14
	2019	2020	2021	2022	2023	2024	2025
Springfield (Wyndmoor)							
Rates							
Volume ($/Mcf)	2.2871	2.3083	2.3000	2.3000	2.3000	2.3000	2.3000
Capacity ($/cfs)	15,942	16,149	16,108	16,108	16,108	16,108	16,108
SS ($/1,000 lbs.)	293.6469	283.5417	283.0300	283.0300	283.0300	283.0300	283.0300
BOD ($/1,000 lbs.)	123.4025	124.5100	124.3900	124.3900	124.3900	124.3900	124.3900
Annual Lump Sum ($)	138,667	137,000	137,000	137,000	137,000	137,000	137,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units							
Volume (Mcf)	23,317	22,000	22,000	22,000	22,000	22,000	22,000
Capacity (cfs)	1.930	1.930	1.930	1.930	1.930	1.930	1.930
SS (1,000 lbs.)	245	240	240	240	240	240	240
BOD (1,000 lbs.)	187	180	180	180	180	180	180

O&M Escalation Factors							Assumptions - 15
	2019	2020	2021	2022	2023	2024	2025
Constant	NA	NA	0.00%	0.00%	0.00%	0.00%	0.00%
Labor	NA	NA	2.90%	2.90%	2.90%	2.90%	2.90%
Other Benefits	NA	NA	5.27%	4.66%	4.51%	4.39%	4.29%
Pension	NA	NA	2.53%	1.45%	2.86%	1.39%	0.00%
Pension Obligations	NA	NA	0.00%	0.00%	0.00%	0.00%	0.00%
General	NA	NA	1.40%	1.40%	1.40%	1.40%	1.40%
Property Leases	NA	NA	2.00%	2.00%	2.00%	2.00%	2.00%
Other 200	NA	NA	4.15%	4.15%	4.15%	4.15%	4.15%
Other 300	NA	NA	2.90%	2.90%	2.90%	2.90%	2.90%
Other 400	NA	NA	2.00%	2.00%	2.00%	2.00%	2.00%
Energy	NA	NA	3.00%	0.00%	0.50%	1.00%	1.00%
Gas	NA	NA	3.00%	0.00%	0.50%	1.00%	1.00%
Chemicals	NA	NA	5.00%	5.00%	5.00%	5.00%	5.00%
Transfers	NA	NA	0.90%	0.90%	0.90%	0.90%	0.90%

Capitalized Interest Period Named Range	Assumptions - 16
Years	
0	
1	
2	
3	
4	
5	

NOT IN USE

Affordability Analysis Assumptions **Assumptions - 17**

	Affordability Scale
Red	2.00%
Yellow	1.50%

Median Household Income	2019	2020	2021	2022	2023	2024	2025
$	$ 38,192	$ 39,338	$ 40,518	$ 41,733	$ 42,985	$ 44,275	$ 45,603
Inflation		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%

NOT IN USE

Customer Classes	Assumptions - 18
Small Residential	
Large Residential	
Commercial	
Industrial	
Other 1	
Other 2	

NOT IN USE

Discounts

Assumptions - 19

Choose Discount 0

Type of Discount	0-Existing % of Discount	1-Alternative % of Discount	Use % of Discount
Senior Citizen	25%	0%	25%
PHA	5%	0%	5%
Charity/Hospital/Education	25%	0%	25%

Meter Sizes	Assumptions - 20
5/8"	
3/4"	
1"	
1 1/4"	
1 1/2"	
2"	
3"	
4"	
6"	
8"	
10"	
12"	

List of meter sizes provided for Drop Down Lists

Capital Account Deposit								Assumptions - 21
		2019	2020	2021	2022	2023	2024	2025
		Base Year	Test Year	Calculation	Calculation	Calculation	Calculation	Calculation
Water System Net Plant Investment	41.06%	1,021,527,223	1,111,290,542	1,200,193,786	1,296,209,289	1,399,906,032	1,511,898,514	1,632,850,395
Wastewater System Net Plant Investment	58.94%	1,466,361,777	1,595,213,458	1,722,830,534	1,860,656,977	2,009,509,535	2,170,270,298	2,343,891,922
Total System Net Plant Investment (Prior Year)		2,487,889,000	2,706,504,000	2,923,024,320	3,156,866,266	3,409,415,567	3,682,168,812	3,976,742,317
Estimated Increase in System Net Value	8.00%							
Capital Account Deposit %		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

Assumptions - 21

	2019	2018	2017	2016	2015	2014
Total System Net Plant Investment	2,706,504,000	2,487,889,000	2,318,410,000	2,230,233,000	2,149,680,000	2,070,492,000
Annual Increase	8.79%	7.31%	3.95%	3.75%	3.82%	

Direct O&M Actual to Budget Factors — Assumptions - 22A

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2019	2018	2017	2016	2015
		2 year average									
PWD Direct O&M											
Human Resources and Administration											
Salaries & Wages	100	91.75%	95.25%	91.75%	94.16%	94.66%	95.25%	88.39%	100.00%	92.92%	98.04%
Services	200	62.11%	53.05%	62.11%	64.77%	67.80%	53.05%	73.81%	69.78%	65.23%	78.04%
Materials and Supplies	300	77.13%	79.73%	77.13%	70.59%	65.79%	79.73%	74.57%	57.67%	57.88%	59.66%
Equipment	400	53.50%	29.24%	53.50%	71.09%	66.35%	29.24%	85.49%	100.00%	29.70%	98.33%
Indemnities	500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Transfers	800	0.00%									
Subtotal Human Resources and Administration			76.86%	79.72%	81.60%	82.10%	76.86%	82.77%	85.66%	78.21%	87.38%
Finance											
Salaries & Wages	100	77.89%	64.96%	77.89%	81.05%	83.38%	64.96%	98.72%	89.31%	89.16%	87.78%
Services	200	91.65%	93.18%	91.65%	95.46%	77.20%	93.18%	90.27%	103.24%	26.88%	65.70%
SMIP/GARP	2xx	100.00%	100.00%	100.00%	97.57%	103.58%	100.00%	100.00%	90.00%	131.00%	113.15%
Materials and Supplies	300	61.29%	72.01%	61.29%	64.17%	25.73%	72.01%	54.06%	69.53%	18.62%	5.28%
Equipment	400	76.71%	63.80%	76.71%	62.56%	37.37%	63.80%	108.98%	0.00%	0.00%	0.00%
Indemnities	500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
Transfers	800	85.40%	73.21%	69.87%	88.61%	75.29%	73.21%	66.54%	134.41%	76.87%	44.60%
Subtotal Finance			89.26%	90.01%	93.71%	88.72%	89.26%	90.74%	103.59%	85.58%	72.04%
Construction and Engineering											
Salaries & Wages	100	79.47%	77.94%	79.47%	79.76%	83.41%	77.94%	81.84%	80.69%	87.79%	97.38%
Services	200	88.83%	84.05%	88.83%	71.77%	67.55%	84.05%	96.68%	34.57%	47.74%	60.29%
Materials and Supplies	300	41.03%	45.14%	41.03%	35.11%	37.45%	45.14%	38.04%	24.60%	29.09%	51.55%
Equipment	400	7.46%	6.65%	7.46%	12.26%	13.11%	6.65%	10.57%	35.69%	6.56%	24.77%
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Construction and Engineering			75.09%	77.64%	72.64%	73.45%	75.09%	81.65%	58.83%	69.64%	81.42%
Operations											
Salaries & Wages	100	96.40%	95.51%	96.40%	97.20%	97.54%	95.51%	97.33%	98.94%	95.71%	100.61%
Services	200	96.27%	95.28%	96.27%	97.72%	94.56%	95.28%	97.41%	101.08%	91.69%	86.03%
Power	220	79.93%	71.03%	79.93%	79.35%	77.58%	71.03%	90.39%	78.46%	72.08%	79.44%
Gas	221	85.11%	85.06%	85.11%	75.21%	78.84%	85.06%	85.17%	57.35%	70.51%	104.77%
Materials and Supplies	300	82.68%	81.40%	82.68%	84.63%	83.77%	81.40%	84.03%	88.58%	82.34%	82.35%
Chemicals	307	97.50%	95.57%	97.50%	93.60%	93.70%	95.57%	99.53%	85.59%	93.35%	94.32%
Equipment	400	78.15%	87.17%	78.15%	73.22%	75.03%	87.17%	63.25%	52.50%	82.66%	77.30%
Indemnities	500	0.00%			0.00%	0.00%			0.00%		
Transfers	800	0.00%									
Subtotal Operations			91.81%	93.40%	93.44%	92.21%	91.81%	95.15%	93.53%	89.23%	91.25%

Direct O&M Actual to Budget Factors — Assumptions - 22A

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2019	2018	2017	2016	2015
		2 year average									
Planning & Environmental Services											
Salaries & Wages	100	96.46%	100.74%	96.46%	95.89%	96.67%	100.74%	92.14%	94.70%	99.40%	96.55%
Services	200	96.22%	96.29%	96.22%	97.08%	95.71%	96.29%	96.14%	98.45%	88.56%	100.06%
Materials and Supplies	300	86.24%	87.91%	86.24%	85.08%	81.83%	87.91%	84.00%	82.87%	78.20%	73.34%
Equipment	400	64.45%	41.09%	64.45%	61.00%	50.57%	41.09%	91.22%	51.96%	33.47%	32.20%
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Planning & Environmental Services			96.24%	95.08%	95.29%	94.56%	96.24%	93.78%	95.66%	90.52%	96.81%
Public Affairs											
Salaries & Wages	100	91.87%	100.64%	91.87%	90.27%	90.03%	100.64%	83.69%	84.62%	83.15%	95.96%
Services	200	99.18%	98.81%	99.18%	96.72%	94.14%	98.81%	99.55%	91.33%	89.21%	91.83%
Materials and Supplies	300	75.98%	77.49%	75.98%	69.44%	65.84%	77.49%	74.41%	54.60%	74.39%	41.94%
Equipment	400	14.37%	9.76%	14.37%	11.08%	59.99%	9.76%	19.14%	4.39%	179.54%	88.75%
Indemnities	500	94.25%	89.13%	94.25%	95.82%	95.82%	89.13%	100.00%	100.00%		
Transfers	800	0.00%									
Subtotal Public Affairs			98.13%	95.54%	93.50%	91.95%	98.13%	93.05%	88.33%	87.46%	91.22%
Water Department Operating and Maintenance Expenses Summary											
Salaries & Wages	100		94.68%	94.88%	95.69%	96.30%	94.68%	95.09%	97.53%	95.34%	99.38%
Services	200		93.50%	94.61%	95.66%	92.04%	93.50%	95.87%	97.87%	84.81%	87.53%
Power	220		71.03%	79.93%	79.35%	77.58%	71.03%	90.39%	78.46%	72.08%	79.44%
Gas	221		85.06%	85.11%	75.21%	78.84%	85.06%	85.17%	57.35%	70.51%	104.77%
SMIP/GARP	2xx		100.00%	100.00%	97.57%	103.58%	100.00%	100.00%	90.00%	131.00%	113.15%
Materials and Supplies	300		81.51%	82.13%	83.19%	81.57%	81.51%	82.80%	85.33%	79.91%	77.94%
Chemicals	307		95.57%	97.50%	93.60%	93.70%	95.57%	99.53%	85.59%	93.35%	94.32%
Equipment	400		71.41%	71.08%	69.13%	67.42%	71.41%	70.58%	62.67%	58.62%	69.33%
Indemnities	500		74.52%	78.68%	79.01%	70.99%	74.52%	83.33%	79.84%	0.00%	0.00%
Transfers	800		73.21%	69.87%	88.61%	75.29%	73.21%	66.54%	134.41%	76.87%	44.60%
Total Water Department Operating and Maintenance Expenses Summary			91.27%	92.36%	92.91%	91.38%	91.27%	93.55%	94.10%	88.27%	89.48%

Direct O&M Actual to Budget Factors — Assumptions - 22B

		Actual					Budget				
		2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
PWD Direct O&M											
Human Resources and Administration											
Salaries & Wages	100	$ 9,009,476	$ 8,707,658	$ 7,948,131	$ 8,190,963	$ 8,502,816	$ 9,459,000	$ 9,851,135	$ 7,948,132	$ 8,815,500	$ 8,673,039
Services	200	2,997,589	3,228,503	3,710,260	3,406,310	4,562,319	5,650,000	4,374,100	5,316,800	5,222,100	5,846,000
Materials and Supplies	300	899,390	859,256	664,311	660,930	725,233	1,128,000	1,152,218	1,151,988	1,141,850	1,215,550
Equipment	400	214,297	475,462	783,911	188,501	413,078	733,000	556,190	783,911	634,600	420,100
Indemnities	500	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration		$ 13,120,752	$ 13,270,879	$ 13,106,613	$ 12,446,704	$ 14,203,446	$ 17,070,000	$ 16,033,643	$ 15,300,831	$ 15,914,050	$ 16,254,689
Finance											
Salaries & Wages	100	$ 3,193,307	$ 3,012,527	$ 2,725,589	$ 2,273,794	$ 2,170,853	$ 4,916,034	$ 3,051,659	$ 3,051,659	$ 2,550,200	$ 2,472,925
Services	200	7,328,266	7,882,538	8,384,056	1,961,689	4,811,153	7,865,000	8,731,808	8,120,759	7,297,500	7,322,500
SMIP/GARP	2xx	25,000,000	26,900,000	15,000,000	15,000,000	11,598,134	25,000,000	26,900,000	16,666,841	11,450,000	10,250,000
Materials and Supplies	300	46,807	52,064	60,298	16,054	23,023	65,000	96,305	86,725	86,200	436,200
Equipment	400	26,798	18,309	-	-	-	42,000	16,800	13,300	37,800	10,800
Indemnities	500	-	-	-	-	-	10,000	-	-	-	-
Transfers	800	8,052,752	7,319,325	12,097,064	8,100,186	6,244,621	11,000,000	11,000,000	9,000,000	10,537,000	14,000,000
Subtotal Finance		$ 43,647,930	$ 45,184,763	$ 38,267,007	$ 27,351,723	$ 24,847,784	$ 48,898,034	$ 49,796,572	$ 36,939,284	$ 31,958,700	$ 34,492,425
Construction and Engineering											
Salaries & Wages	100	$ 2,225,368	$ 1,513,130	$ 1,187,885	$ 1,075,392	$ 1,199,514	$ 2,855,352	$ 1,848,821	$ 1,472,207	$ 1,225,000	$ 1,231,738
Services	200	1,141,400	799,991	346,543	237,504	297,188	1,358,000	827,500	1,002,500	497,500	492,900
Materials and Supplies	300	63,643	73,576	46,356	54,541	102,067	141,000	193,420	188,440	187,500	198,000
Equipment	400	15,632	6,486	21,649	3,873	14,614	235,000	61,350	60,650	59,000	59,000
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering		$ 3,446,043	$ 2,393,183	$ 1,602,433	$ 1,371,310	$ 1,613,383	$ 4,589,352	$ 2,931,091	$ 2,723,797	$ 1,969,000	$ 1,981,638
Operations											
Salaries & Wages	100	$ 80,747,114	$ 79,570,651	$ 74,937,545	$ 71,318,230	$ 71,789,745	$ 84,546,676	$ 81,757,426	$ 75,736,594	$ 74,515,100	$ 71,357,193
Services	200	76,327,780	67,977,576	65,234,449	54,441,610	51,086,665	80,109,026	69,784,843	64,537,200	59,373,700	59,381,100
Power	220	13,854,363	15,002,114	18,252,847	20,071,556	20,427,534	19,505,474	16,596,570	23,265,000	27,845,000	25,714,000
Gas	221	4,652,000	3,855,757	3,176,528	4,013,404	4,190,988	5,469,000	4,527,170	5,538,900	5,692,000	4,000,000
Materials and Supplies	300	16,573,700	16,189,484	17,375,608	15,057,143	14,703,881	20,361,000	19,266,793	19,615,689	18,286,100	17,855,400
Chemicals	307	22,115,310	21,771,176	18,728,508	21,075,520	22,324,969	23,141,000	21,872,905	21,880,928	22,575,800	23,668,950
Equipment	400	4,195,679	1,845,043	964,973	1,486,260	1,219,613	4,813,000	2,916,897	1,838,140	1,798,000	1,577,800
Indemnities	500	-	-	-	-	-	-	-	1,000	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Operations		$ 218,465,946	$ 206,211,801	$ 198,670,458	$ 187,463,723	$ 185,743,395	$ 237,945,176	$ 216,722,604	$ 212,413,451	$ 210,085,700	$ 203,554,443

Direct O&M Actual to Budget Factors — Assumptions - 22B

		Actual					Budget				
		2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
Planning & Environmental Services											
Salaries & Wages	100	$ 14,956,269	$ 13,558,767	$ 13,465,491	$ 12,946,501	$ 12,135,854	$ 14,847,000	$ 14,714,696	$ 14,219,367	$ 13,024,700	$ 12,569,537
Services	200	19,507,659	16,333,568	23,055,720	22,364,997	22,388,075	20,259,000	16,989,043	23,419,092	25,254,200	22,374,200
Materials and Supplies	300	1,680,851	1,200,234	1,448,059	1,101,182	989,788	1,912,000	1,428,850	1,747,285	1,408,100	1,349,600
Equipment	400	385,416	746,607	348,946	285,682	187,954	938,000	818,441	671,513	853,450	583,650
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services		$ 36,530,195	$ 31,839,176	$ 38,318,216	$ 36,698,362	$ 35,701,671	$ 37,956,000	$ 33,951,030	$ 40,057,257	$ 40,540,450	$ 36,876,987
Public Affairs											
Salaries & Wages	100	$ 4,922,385	$ 4,390,923	$ 2,420,693	$ 2,354,115	$ 2,644,067	$ 4,891,060	$ 5,246,556	$ 2,860,744	$ 2,831,100	$ 2,755,277
Services	200	8,327,583	8,700,798	7,167,949	8,040,229	8,001,034	8,428,000	8,740,488	7,848,700	9,013,200	8,712,700
Materials and Supplies	300	432,412	401,159	264,012	279,935	156,358	558,000	539,124	483,500	376,300	372,800
Equipment	400	1,562	2,966	681	27,829	13,757	16,000	15,500	15,500	15,500	15,500
Indemnities	500	500,000	500,000	400,000	-	-	561,000	500,000	400,000	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs		$ 14,183,942	$ 13,995,846	$ 10,253,335	$ 10,702,108	$ 10,815,216	$ 14,454,060	$ 15,041,668	$ 11,608,444	$ 12,236,100	$ 11,856,277
Water Department Operating and Maintenance Expenses Su											
Salaries & Wages	100	$ 115,053,919	$ 110,753,656	$ 102,685,334	$ 98,158,995	$ 98,442,849	$ 121,515,122	$ 116,470,294	$ 105,288,703	$ 102,961,600	$ 99,059,709
Services	200	115,630,277	104,922,974	107,898,977	90,452,339	91,146,434	123,669,026	109,447,782	110,245,051	106,658,200	104,129,400
Power	220	13,854,363	15,002,114	18,252,847	20,071,556	20,427,534	19,505,474	16,596,570	23,265,000	27,845,000	25,714,000
Gas	221	4,652,000	3,855,757	3,176,528	4,013,404	4,190,988	5,469,000	4,527,170	5,538,900	5,692,000	4,000,000
SMIP/GARP	2xx	25,000,000	26,900,000	15,000,000	15,000,000	11,598,134	25,000,000	26,900,000	16,666,841	11,450,000	10,250,000
Materials and Supplies	300	19,696,803	18,775,773	19,858,644	17,169,785	16,700,350	24,165,000	22,676,710	23,273,627	21,486,050	21,427,550
Chemicals	307	22,115,310	21,771,176	18,728,508	21,075,520	22,324,969	23,141,000	21,872,905	21,880,928	22,575,800	23,668,950
Equipment	400	4,839,384	3,094,873	2,120,160	1,992,145	1,849,016	6,777,000	4,385,178	3,383,014	3,398,350	2,666,850
Indemnities	500	500,000	500,000	400,000	-	-	671,000	600,000	501,000	100,000	100,000
Transfers	800	8,052,752	7,319,325	12,097,064	8,100,186	6,244,621	11,000,000	11,000,000	9,000,000	10,537,000	14,000,000
Total Water Department Operating and Maintenance Expens		**$ 329,394,808**	**$ 312,895,648**	**$ 300,218,062**	**$ 276,033,930**	**$ 272,924,895**	**$ 360,912,622**	**$ 334,476,609**	**$ 319,043,064**	**$ 312,704,000**	**$ 305,016,459**
		$ 329,394,808	$ 312,895,648	$ 300,218,062	$ 276,033,930	$ 272,924,895	$ 360,912,622	$ 334,476,609	$ 319,043,064	$ 312,704,000	$ 305,016,459

Direct O&M - Water and Sewer Allocation						Assumptions - 23		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
PWD Direct O&M								
Human Resources and Administration								
Class 100 - xxxxxxxxxx		0	91.75%	-	0.00%	31.00%	69.00%	0.00%
Class 100 - All Other		9,675,000	91.75%	8,876,855	100.00%	31.00%	69.00%	0.00%
Class 100 - Total	100	9,675,000	91.75%	8,876,855	100.00%	31.00%	69.00%	0.00%
Class 200 - xxxxxxxxxx		0	62.11%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - All Other		4,923,000	62.11%	3,057,736	100.00%	31.00%	69.00%	0.00%
Class 200 - Total	200	4,923,000	62.11%	3,057,736	100.00%	31.00%	69.00%	0.00%
Class 300 - xxxxxxxxxx		0	77.13%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other		1,118,000	77.13%	862,271	100.00%	31.00%	69.00%	0.00%
Class 300 - Total	300	1,118,000	77.13%	862,271	100.00%	31.00%	69.00%	0.00%
Class 400 - xxxxxxxxxx		0	53.50%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other		705,000	53.50%	377,198	100.00%	31.00%	69.00%	0.00%
Class 400 - Total	400	705,000	53.50%	377,198	100.00%	31.00%	69.00%	0.00%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		100,000	0.00%	-	0.00%	31.00%	69.00%	0.00%
Class 500 - Total	500	100,000	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	31.00%	69.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Human Resources and Administration		16,521,000	79.74%	13,174,060				
Finance								
Class 100 - xxxxxxxxxx		0	77.89%	-	0.00%	0.00%	0.00%	100.00%
Class 100 - All Other		3,675,000	77.89%	2,862,364	100.00%	38.00%	62.00%	0.00%
Class 100 - Total		3,675,000	77.89%	2,862,364	100.00%	38.00%	62.00%	0.00%
Stormwater Program - Residential		0	91.65%	-	0.00%	0.00%	0.00%	100.00%
Stormwater Program - Non-Residential		0	91.65%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		0	91.65%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - Green Initiatives (LTCP)		0	91.65%	-	0.00%	0.00%	50.00%	50.00%
Class 200 - Customer (Grants)		0	91.65%	-	0.00%	44.00%	35.00%	21.00%
Class 200 - Customer (Basis2)		0	91.65%	-	0.00%	33.40%	33.30%	33.30%
Class 200 - All Other		7,870,000	91.65%	7,212,774	100.00%	38.00%	62.00%	0.00%
Class 200 - Total		7,870,000	91.65%	7,212,774	100.00%	38.00%	62.00%	0.00%

Direct O&M - Water and Sewer Allocation						Assumptions - 23		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 2xx - Wastewater Collection Mains		25,000,000	100.00%	25,000,000	100.00%	0.00%	100.00%	0.00%
Class 2xx - All Other		0	100.00%	-	0.00%	0.00%	100.00%	0.00%
Class 2xx - Total		25,000,000	100.00%	25,000,000	100.00%	0.00%	100.00%	0.00%
Class 300 - xxxxxxxxxx		0	61.29%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other		68,000	61.29%	41,680	100.00%	38.00%	62.00%	0.00%
Class 300 - Total		68,000	61.29%	41,680	100.00%	38.00%	62.00%	0.00%
Class 400 - xxxxxxxxxx		0	76.71%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other		42,000	76.71%	32,219	100.00%	38.00%	62.00%	0.00%
Class 400 - Total		42,000	76.71%	32,219	100.00%	38.00%	62.00%	0.00%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		10,000	0.00%	-	0.00%	38.00%	62.00%	0.00%
Class 500 - Total		10,000	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	85.40%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		9,000,000	85.40%	7,686,000	100.00%	36.00%	64.00%	0.00%
Class 800 - Total		9,000,000	85.40%	7,686,000	100.00%	36.00%	64.00%	0.00%
Subtotal Finance		45,665,000	93.80%	42,835,037				
Construction and Engineering								
Class 100 - xxxxxxxxxxxxxx		0	79.47%	-	0.00%	15.00%	85.00%	0.00%
Class 100 - xxxxxxxxxxxxxx		0	79.47%	-	0.00%	40.00%	60.00%	0.00%
Class 100 - All Other (Plant Investment)		3,716,360	79.47%	2,953,464	100.00%	40.00%	60.00%	0.00%
Class 100 - Total	100	3,716,360	79.47%	2,953,464	100.00%	40.00%	60.00%	0.00%
Class 200 - Res Stormwater Program		0	88.83%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Non-Res Stormwater Program		0	88.83%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		0	88.83%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - xxxxxxxxxxxxxx		0	88.83%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - xxxxxxxxxxxxxx		0	88.83%	-	0.00%	40.00%	60.00%	0.00%
Class 200 - xxxxxxxxxxxxxx		0	88.83%	-	0.00%	40.00%	60.00%	0.00%
Class 200 - All Other (Plant Investment)		2,128,000	88.83%	1,890,313	100.00%	40.00%	60.00%	0.00%
Class 200 - Total	200	2,128,000	88.83%	1,890,313	100.00%	40.00%	60.00%	0.00%
Class 300 - xxxxxxxxxxxxxx		0	41.03%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - xxxxxxxxxxxxxx		0	41.03%	-	0.00%	40.00%	60.00%	0.00%
Class 300 - All Other (Plant Investment)		116,500	41.03%	47,802	100.00%	40.00%	60.00%	0.00%
Class 300 - Total	300	116,500	41.03%	47,802	100.00%	40.00%	60.00%	0.00%

Direct O&M - Water and Sewer Allocation						Assumptions - 23		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Wastewater	Stormwater
Class 400 - xxxxxxxxxxxxxx		0	7.46%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - xxxxxxxxxxxxxx		0	7.46%	-	0.00%	40.00%	60.00%	0.00%
Class 400 - All Other (Plant Investment)		285,000	7.46%	21,271	100.00%	40.00%	60.00%	0.00%
Class 400 - Total	400	285,000	7.46%	21,271	100.00%	40.00%	60.00%	0.00%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Construction and Engineering		6,245,860	78.66%	4,912,850				
Operations								
Class 100	100	See Assumptions-24 and Direct O&M-9						
Class 200	200	See Assumptions-26 and Direct O&M-11						
Class 220	220	See Assumptions-25A and Direct O&M-10A						
Class 221	221	See Assumptions-25B and Direct O&M-10B						
Class 300	300	See Assumptions-28 and Direct O&M-13						
Class 307	307	See Assumptions-27 and Direct O&M-12						
Class 400	400	See Assumptions-29 and Direct O&M-14						
Class 500	500					50.00%	50.00%	0.00%
Class 800	800					50.00%	50.00%	0.00%
Planning & Environmental Services								
Class 100 - Office of Watersheds		3,181,943	96.46%	3,069,283	18.82%	15.00%	85.00%	0.00%
Class 100 - BLS		7,316,575	96.46%	7,057,525	43.28%	40.00%	60.00%	0.00%
Class 100 - P&R		2,050,334	96.46%	1,977,740	12.13%	40.00%	60.00%	0.00%
Class 100 - GSI Implementation		4,357,888	96.46%	4,203,593	25.78%	0.00%	100.00%	0.00%
Class 100 - Total	100	16,906,740	96.46%	16,308,141	100.00%	24.98%	75.02%	0.00%
Class 200 - Res Stormwater Program		0	96.22%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Non-Res Stormwater Program		450,000	96.22%	433,004	2.14%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		1,800,000	96.22%	1,732,016	8.55%	0.00%	100.00%	0.00%
Class 200 - GSI Implementation		1,305,000	96.22%	1,255,712	6.20%	0.00%	100.00%	0.00%
Class 200 - All Other - Office of Watersheds		11,008,000	96.22%	10,592,240	52.26%	40.00%	60.00%	0.00%
Class 200 - All Other - BLS		2,562,000	96.22%	2,465,236	12.16%	40.00%	60.00%	0.00%
Class 200 - All Other - P&R		3,939,850	96.22%	3,791,046	18.70%	40.00%	60.00%	0.00%
Class 200 - Total	200	21,064,850	96.22%	20,269,254	100.00%	33.25%	64.61%	2.14%

Direct O&M - Water and Sewer Allocation						Assumptions - 23		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 300 - Office of Watersheds		159,000	86.24%	137,119	10.01%	0.00%	0.00%	100.00%
Class 300 - BLS		1,370,000	86.24%	1,181,462	86.26%	40.00%	60.00%	0.00%
Class 300 - P&R		6,200	86.24%	5,347	0.39%	40.00%	60.00%	0.00%
Class 300 - GSI Implementation		53,000	86.24%	45,706	3.34%	0.00%	100.00%	0.00%
Class 300 - Total	300	1,588,200	86.24%	1,369,634	100.00%	34.66%	55.33%	10.01%
Class 400 - Office of Watersheds		4,000	64.45%	2,578	0.42%	0.00%	0.00%	100.00%
Class 400 - BLS		907,000	64.45%	584,560	95.37%	40.00%	60.00%	0.00%
Class 400 - P&R		20,000	64.45%	12,890	2.10%	40.00%	60.00%	0.00%
Class 300 - GSI Implementation		20,000	64.45%	12,890	2.10%	0.00%	100.00%	0.00%
Class 400 - Total	400	951,000	64.45%	612,918	100.00%	38.99%	60.59%	0.42%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Planning & Environmental Services		40,510,790	95.18%	38,559,947				
Public Affairs								
Class 100 - xxxxxxxxxx		0	91.87%	-	0.00%	0.00%	0.00%	100.00%
Class 100 - All Other		5,245,060	91.87%	4,818,575	100.00%	50.00%	50.00%	0.00%
Class 100 - Total	100	5,245,060	91.87%	4,818,575	100.00%	50.00%	50.00%	0.00%
Class 200 - Stormwater Res		0	99.18%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Stormwater Non-Res		0	99.18%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		0	99.18%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - All Other - A&G Volume		4,200,000	99.18%	4,165,725	49.04%	50.00%	50.00%	0.00%
Class 200 - All Other - A&G Customer		1,246,000	99.18%	1,235,832	14.55%	50.00%	50.00%	0.00%
Class 200 - All Other - A&G		3,119,000	99.18%	3,093,547	36.42%	50.00%	50.00%	0.00%
Class 200 - Total	200	8,565,000	99.18%	8,495,104	100.00%	50.00%	50.00%	0.00%
Class 300 - xxxxxxxxxx		0	75.98%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other		559,000	75.98%	424,716	100.00%	50.00%	50.00%	0.00%
Class 300 - Total	300	559,000	75.98%	424,716	100.00%	50.00%	50.00%	0.00%
Class 400 - xxxxxxxxxx		0	14.37%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other		16,000	14.37%	2,300	100.00%	50.00%	50.00%	0.00%

Direct O&M - Water and Sewer Allocation						Assumptions - 23		
						Allocation		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Water	Wastewater	Stormwater
Class 400 - Total	400	16,000	14.38%	2,300	100.00%	50.00%	50.00%	0.00%
Class 500 - xxxxxxxxxx		0	94.25%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		505,000	94.25%	475,966	100.00%	50.00%	50.00%	0.00%
Class 500 - Total	500	505,000	94.25%	475,966	100.00%	50.00%	50.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	50.00%	50.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Public Affairs		14,890,060	95.48%	14,216,661				

Direct O&M - Water and Sewer Allocation - Operations Class 100						Assumptions - 24		
		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs								
Baxter Treatment Plant	x	3,441,589	96.40%	3,317,705	3.90%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	x	3,292,875	96.40%	3,174,344	3.74%	100.00%	0.00%	0.00%
Belmont Treatment Plant	x	3,498,417	96.40%	3,372,487	3.97%	100.00%	0.00%	0.00%
Conveyance Headquarters			96.40%	-	0.00%	100.00%	0.00%	0.00%
Load Control	x	1,820,511	96.40%	1,754,979	2.07%	100.00%	0.00%	0.00%
Distribution	x	15,939,752	96.40%	15,365,980	18.09%	100.00%	0.00%	0.00%
Pumping	x	3,034,472	96.40%	2,925,242	3.44%	100.00%	0.00%	0.00%
Emergency & Support Services			96.40%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs								
Biosolids Engr Services			96.40%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization			96.40%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing			96.40%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	x	7,043,011	96.40%	6,789,488	7.99%	0.00%	100.00%	0.00%
SWWPCP	x	7,186,632	96.40%	6,927,940	8.15%	0.00%	100.00%	0.00%
SEWPCP	x	4,346,822	96.40%	4,190,352	4.93%	0.00%	100.00%	0.00%
Industrial Waste		1,986,337	96.40%	1,914,836	2.25%	0.00%	100.00%	0.00%
Sewer Maintenance	x	10,898,772	96.40%	10,506,456	12.37%	0.00%	100.00%	0.00%
Inlet Cleaning	x	5,615,032	96.40%	5,412,911	6.37%	0.00%	100.00%	0.00%
Interceptors/Flow Control	x	5,064,269	96.40%	4,881,974	5.75%	0.00%	100.00%	0.00%
GSI Maintenance	x	925,634	96.40%	892,315	1.05%	0.00%	100.00%	0.00%
Collector System Support	x	1,062,242	96.40%	1,024,005	1.21%	0.00%	100.00%	0.00%
Allocated Costs								
Treatment Headquarters (50/50)	x	503,569	96.40%	485,442	0.57%	50.00%	50.00%	0.00%
Machine Shops (50/50)			96.40%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)			96.40%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)			96.40%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)		6,179,061	96.40%	5,956,637	7.01%	50.00%	50.00%	0.00%
Materials Management (50/50)	x	1,939,499	96.40%	1,869,685	2.20%	50.00%	50.00%	0.00%
Customer Service (50/50)	x	1,696,903	96.40%	1,635,820	1.93%	50.00%	50.00%	0.00%
Warranty Program			96.40%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	x	2,660,864	96.40%	2,565,083	3.02%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)		0	96.40%	-	0.00%	35.00%	65.00%	0.00%
Total		88,136,264	96.40%	84,963,681	100.00%	42.57%	57.43%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Power Costs				Assumptions - 25A		
	2020 Budget Detail	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs						
Baxter Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Belmont Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Conveyance Headquarters		-	0.00%	100.00%	0.00%	0.00%
Load Control	52.00%	7,235,420	52.00%	100.00%	0.00%	0.00%
Distribution	0.50%	69,571	0.50%	100.00%	0.00%	0.00%
Pumping		-	0.00%	100.00%	0.00%	0.00%
Emergency & Support Services		-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs						
Biosolids Engr Services		-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing		-	0.00%	0.00%	100.00%	0.00%
NEWPCP	8.20%	1,140,970	8.20%	0.00%	100.00%	0.00%
SWWPCP	27.20%	3,784,681	27.20%	0.00%	100.00%	0.00%
SEWPCP	8.10%	1,127,056	8.10%	0.00%	100.00%	0.00%
Industrial Waste		-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance		-	0.00%	0.00%	100.00%	0.00%
Inlet Cleaning		-	0.00%	0.00%	100.00%	0.00%
Interceptors/Flow Control	4.00%	556,571	4.00%	0.00%	100.00%	0.00%
GSI Maintenance		-	0.00%	0.00%	100.00%	0.00%
Collector System Support	0.00%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs						
Treatment Headquarters (50/50)	0.00%	-	0.00%	50.00%	50.00%	0.00%
Machine Shops (50/50)		-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)		-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)		-	0.00%	50.00%	50.00%	0.00%
Customer Service (50/50)		-	0.00%	50.00%	50.00%	0.00%
Warranty Program		-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)		-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)		-	0.00%	35.00%	65.00%	0.00%
Total	100.00%	13,914,269	100.00%	52.50%	47.50%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Gas Costs					Assumptions - 25B		
	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant			-	0.00%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant			-	0.00%	100.00%	0.00%	0.00%
Belmont Treatment Plant			-	0.00%	100.00%	0.00%	0.00%
Conveyance Headquarters			-	0.00%	100.00%	0.00%	0.00%
Load Control	12.30%		490,452	12.30%	100.00%	0.00%	0.00%
Distribution	2.30%		91,710	2.30%	100.00%	0.00%	0.00%
Pumping			-	0.00%	100.00%	0.00%	0.00%
Emergency & Support Services			-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services			-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization			-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	58.80%		2,344,598	58.80%	0.00%	100.00%	0.00%
NEWPCP	19.50%		777,545	19.50%	0.00%	100.00%	0.00%
SWWPCP	0.00%		-	0.00%	0.00%	100.00%	0.00%
SEWPCP	3.90%		155,509	3.90%	0.00%	100.00%	0.00%
Industrial Waste			-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance			-	0.00%	0.00%	100.00%	0.00%
Inlet Cleaning			-	0.00%	0.00%	100.00%	0.00%
Interceptors/Flow Control	0.00%		-	0.00%	0.00%	100.00%	0.00%
GSI Maintenance			-	0.00%	0.00%	100.00%	0.00%
Collector System Support	1.70%		67,786	1.70%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	1.50%		59,811	1.50%	50.00%	50.00%	0.00%
Machine Shops (50/50)			-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)			-	0.00%	50.00%	50.00%	0.00%
Security (50/50)			-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)			-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)			-	0.00%	50.00%	50.00%	0.00%
Customer Service (50/50)			-	0.00%	50.00%	50.00%	0.00%
Warranty Program			-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)			-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)			-	0.00%	35.00%	65.00%	0.00%
Total	100.00%		3,987,411	100.00%	15.35%	84.65%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 200 Excluding Power and Gas					Assumptions - 26		
	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	781,000	96.27%	751,882	1.05%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	1,400,000	96.27%	1,347,804	1.89%	100.00%	0.00%	0.00%
Belmont Treatment Plant	559,000	96.27%	538,159	0.75%	100.00%	0.00%	0.00%
Conveyance Headquarters		96.27%	-	0.00%	100.00%	0.00%	0.00%
Load Control	1,848,100	96.27%	1,779,197	2.50%	100.00%	0.00%	0.00%
Distribution	2,378,200	96.27%	2,289,533	3.21%	100.00%	0.00%	0.00%
Pumping	396,000	96.27%	381,236	0.53%	100.00%	0.00%	0.00%
Emergency & Support Services		96.27%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		96.27%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization	0	96.27%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	23,235,000	96.27%	22,368,726	31.38%	0.00%	100.00%	0.00%
NEWPCP	10,604,000	96.27%	10,208,650	14.32%	0.00%	100.00%	0.00%
SWWPCP	3,906,000	96.27%	3,760,372	5.27%	0.00%	100.00%	0.00%
SEWPCP	1,186,000	96.27%	1,141,782	1.60%	0.00%	100.00%	0.00%
Industrial Waste	215,000	96.27%	206,984	0.29%	0.00%	100.00%	0.00%
Sewer Maintenance	3,295,000	96.27%	3,172,152	4.45%	0.00%	100.00%	0.00%
Inlet Cleaning	64,000	96.27%	61,614	0.09%	0.00%	100.00%	0.00%
Interceptors/Flow Control	2,704,000	96.27%	2,603,186	3.65%	0.00%	100.00%	0.00%
GSI Maintenance	4,947,000	96.27%	4,762,560	6.68%	0.00%	100.00%	0.00%
Collector System Support	12,000	96.27%	11,553	0.02%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	220,000	96.27%	211,798	0.30%	50.00%	50.00%	0.00%
Machine Shops (50/50)		96.27%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		96.27%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		96.27%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	11,083,000	96.27%	10,669,791	14.97%	50.00%	50.00%	0.00%
Materials Management (50/50)	150,000	96.27%	144,408	0.20%	50.00%	50.00%	0.00%
Customer Service (50/50)	5,048,000	96.27%	4,859,795	6.82%	50.00%	50.00%	0.00%
Warranty Program		96.27%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	20,000	96.27%	19,254	0.03%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	0	96.27%	-	0.00%	35.00%	65.00%	0.00%
Total	74,051,300	96.27%	71,290,436	100.00%	21.10%	78.90%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Chemical Costs					Assumptions - 27		
	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	9,332,000	97.50%	9,098,271	40.86%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	5,200,000	97.50%	5,069,761	22.77%	100.00%	0.00%	0.00%
Belmont Treatment Plant	4,877,000	97.50%	4,754,851	21.35%	100.00%	0.00%	0.00%
Conveyance Headquarters		97.50%	-	0.00%	100.00%	0.00%	0.00%
Load Control	0	97.50%	-	0.00%	100.00%	0.00%	0.00%
Distribution	50,000	97.50%	48,748	0.22%	100.00%	0.00%	0.00%
Pumping	3,000	97.50%	2,925	0.01%	100.00%	0.00%	0.00%
Emergency & Support Services		97.50%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services	0	97.50%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization	0	97.50%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing		97.50%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	1,068,000	97.50%	1,041,251	4.68%	0.00%	100.00%	0.00%
SWWPCP	472,000	97.50%	460,178	2.07%	0.00%	100.00%	0.00%
SEWPCP	466,000	97.50%	454,329	2.04%	0.00%	100.00%	0.00%
Industrial Waste		97.50%	-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance	5,000	97.50%	4,875	0.02%	0.00%	100.00%	0.00%
Inlet Cleaning	2,000	97.50%	1,950	0.01%	0.00%	100.00%	0.00%
Interceptors/Flow Control	1,311,000	97.50%	1,278,165	5.74%	0.00%	100.00%	0.00%
GSI Maintenance	8,000	97.50%	7,800	0.04%	0.00%	100.00%	0.00%
Collector System Support	0	97.50%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	3,000	97.50%	2,925	0.01%	50.00%	50.00%	0.00%
Machine Shops (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)	41,000	97.50%	39,973	0.18%	50.00%	50.00%	0.00%
Customer Service (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Warranty Program		97.50%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	0	97.50%	-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	0	97.50%	-	0.00%	35.00%	65.00%	0.00%
Total	22,838,000	97.50%	22,266,002	100.00%	85.31%	14.69%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 300 Excluding Chemicals					Assumptions - 28		
	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	1,267,000	82.68%	1,047,521	6.04%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	979,000	82.68%	809,411	4.66%	100.00%	0.00%	0.00%
Belmont Treatment Plant	854,000	82.68%	706,064	4.07%	100.00%	0.00%	0.00%
Conveyance Headquarters		82.68%	-	0.00%	100.00%	0.00%	0.00%
Load Control	186,000	82.68%	153,780	0.89%	100.00%	0.00%	0.00%
Distribution	304,200	82.68%	251,504	1.45%	100.00%	0.00%	0.00%
Pumping	560,000	82.68%	462,993	2.67%	100.00%	0.00%	0.00%
Emergency & Support Services		82.68%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		82.68%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		82.68%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	50,000	82.68%	41,339	0.24%	0.00%	100.00%	0.00%
NEWPCP	2,402,000	82.68%	1,985,908	11.44%	0.00%	100.00%	0.00%
SWWPCP	1,504,000	82.68%	1,243,466	7.17%	0.00%	100.00%	0.00%
SEWPCP	1,708,000	82.68%	1,412,128	8.14%	0.00%	100.00%	0.00%
Industrial Waste	94,000	82.68%	77,717	0.45%	0.00%	100.00%	0.00%
Sewer Maintenance	674,000	82.68%	557,245	3.21%	0.00%	100.00%	0.00%
Inlet Cleaning	109,000	82.68%	90,118	0.52%	0.00%	100.00%	0.00%
Interceptors/Flow Control	1,024,000	82.68%	846,615	4.88%	0.00%	100.00%	0.00%
GSI Maintenance	543,000	82.68%	448,938	2.59%	0.00%	100.00%	0.00%
Collector System Support	0	82.68%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	12,000	82.68%	9,921	0.06%	50.00%	50.00%	0.00%
Machine Shops (50/50)		82.68%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		82.68%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		82.68%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	296,500	82.68%	245,138	1.41%	50.00%	50.00%	0.00%
Materials Management (50/50)	8,285,000	82.68%	6,849,813	39.47%	50.00%	50.00%	0.00%
Customer Service (50/50)	31,000	82.68%	25,630	0.15%	50.00%	50.00%	0.00%
Warranty Program		82.68%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	106,000	82.68%	87,638	0.51%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	0	82.68%	-	0.00%	35.00%	65.00%	0.00%
Total	20,988,700	82.68%	17,352,887	100.00%	40.57%	59.43%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 400					Assumptions - 29		
	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	124,000	78.15%	96,903	2.23%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	53,000	78.15%	41,418	0.95%	100.00%	0.00%	0.00%
Belmont Treatment Plant	66,000	78.15%	51,577	1.19%	100.00%	0.00%	0.00%
Conveyance Headquarters	0	78.15%	-	0.00%	100.00%	0.00%	0.00%
Load Control	24,000	78.15%	18,755	0.43%	100.00%	0.00%	0.00%
Distribution	210,000	78.15%	164,110	3.78%	100.00%	0.00%	0.00%
Pumping	64,000	78.15%	50,014	1.15%	100.00%	0.00%	0.00%
Emergency & Support Services		78.15%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		78.15%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		78.15%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	0	78.15%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	168,000	78.15%	131,288	3.02%	0.00%	100.00%	0.00%
SWWPCP	264,000	78.15%	206,309	4.75%	0.00%	100.00%	0.00%
SEWPCP	130,000	78.15%	101,592	2.34%	0.00%	100.00%	0.00%
Industrial Waste	20,000	78.15%	15,630	0.36%	0.00%	100.00%	0.00%
Sewer Maintenance	68,000	78.15%	53,140	1.22%	0.00%	100.00%	0.00%
Inlet Cleaning	28,000	78.15%	21,881	0.50%	0.00%	100.00%	0.00%
Interceptors/Flow Control	35,000	78.15%	27,352	0.63%	0.00%	100.00%	0.00%
GSI Maintenance	71,000	78.15%	55,485	1.28%	0.00%	100.00%	0.00%
Collector System Support	0	78.15%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	4,000	78.15%	3,126	0.07%	50.00%	50.00%	0.00%
Machine Shops (50/50)		78.15%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		78.15%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		78.15%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	4,214,500	78.15%	3,293,527	75.77%	50.00%	50.00%	0.00%
Materials Management (50/50)	1,000	78.15%	781	0.02%	50.00%	50.00%	0.00%
Customer Service (50/50)	7,000	78.15%	5,470	0.13%	50.00%	50.00%	0.00%
Warranty Program		78.15%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	11,000	78.15%	8,596	0.20%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	0	78.15%	-	0.00%	35.00%	65.00%	0.00%
Total	5,562,500	78.15%	4,346,954	100.00%	47.82%	52.18%	0.00%

Other Department O&M Actual to Budget Factors — Assumptions - 30A

		Use	Historical Averages 1 Year	2 Year	3 Year	5 Year	Actual to Budget Factor 2019	2018	2017	2016	2015
Other Department O&M											
Division of Technology											
Salaries & Wages	100	83.48%	81.24%	83.48%	86.30%	86.96%	81.24%	85.95%	93.10%	86.45%	89.96%
Services	200	72.69%	72.86%	72.69%	74.36%	75.16%	72.86%	72.50%	78.53%	67.71%	88.54%
Materials and Supplies	300	69.65%	64.90%	69.65%	72.35%	69.57%	64.90%	75.00%	79.91%	41.88%	88.52%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Division of Technology			74.20%	75.10%	77.20%	77.77%	74.20%	76.10%	82.42%	70.54%	88.97%
Mayor's Office of Transportation & Utilities											
Salaries & Wages	100	100.00%	100.00%	100.00%	100.00%	99.67%	100.00%	100.00%	100.00%	99.72%	98.74%
Services	200	100.00%	100.00%	100.00%	98.89%	99.17%	100.00%	100.00%	96.67%	100.00%	
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Mayor's Office of Transportation & Utilities			100.00%	100.00%	99.86%	99.62%	100.00%	100.00%	99.57%	99.76%	98.74%
Philadelphia Water, Sewer and Stormwater Rate Board											
Salaries & Wages	100	100.00%	0.00%	14.00%	9.36%	9.36%	0.00%	18.67%	3.17%		
Services	200	100.00%	0.00%	34.28%	25.39%	25.39%	0.00%	54.44%	11.28%		
Materials and Supplies	300	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			0.00%	31.61%	23.35%	23.35%	0.00%	50.02%	10.27%		
Public Property											
Salaries & Wages	100	0.00%									
Services	200	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Public Property			100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fleet Management											
Salaries & Wages	100	94.40%	94.35%	94.40%	94.78%	91.48%	94.35%	94.44%	95.55%	85.10%	87.65%
Services	200	84.55%	99.48%	84.55%	88.10%	92.58%	99.48%	69.63%	95.20%	98.67%	99.95%
Materials and Supplies	300	76.81%	72.08%	76.81%	77.82%	84.62%	72.08%	81.54%	79.83%	90.66%	99.01%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Fleet Management			84.46%	84.23%	85.44%	88.34%	84.46%	84.00%	87.87%	90.13%	95.31%

Other Department O&M Actual to Budget Factors — Assumptions - 30A

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2019	2018	2017	2016	2015
City Finance											
Salaries & Wages	100	0.00%									
Benefits	1xx	89.01%	88.35%	95.42%	96.21%	93.82%	88.35%	103.42%	97.93%	89.01%	90.91%
Pension	191	100.00%	99.70%	106.54%	106.39%	103.83%	99.70%	114.67%	106.05%	100.25%	97.29%
Pension Obligations	190	100.00%	100.14%	106.90%	108.02%	105.10%	100.14%	114.55%	110.49%	103.05%	97.57%
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	56.44%	39.01%	56.44%	69.02%	69.85%	39.01%	73.87%	99.67%	83.70%	59.09%
Transfers	800	0.00%									
Subtotal City Finance			91.58%	98.89%	100.05%	97.63%	91.58%	107.27%	102.64%	94.58%	92.14%
City Finance											
Salaries & Wages	100	0.00%									
Benefits	1xx	89.01%		0.00%				0.00%			
Pension	191	100.00%		0.00%				0.00%			
Pension Obligations	190	100.00%		0.00%				0.00%			
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal City Finance				0.00%							
Revenue											
Salaries & Wages	100	97.07%	94.53%	97.07%	93.73%	91.60%	94.53%	99.76%	88.26%	89.31%	87.81%
Services	200	95.90%	96.05%	95.90%	96.52%	97.75%	96.05%	95.76%	97.76%	99.84%	99.92%
Materials and Supplies	300	72.20%	81.48%	72.20%	67.43%	73.91%	81.48%	62.91%	57.94%	92.73%	98.42%
Equipment	400	0.00%									
Indemnities	500	0.00%	0.00%	0.00%	0.80%	7.88%	0.00%	0.00%	2.40%	11.56%	25.46%
Transfers	800	0.00%									
Subtotal Revenue			93.85%	94.53%	92.34%	92.15%	93.85%	95.24%	88.49%	92.32%	91.36%
Procurement											
Salaries & Wages	100	95.74%	96.87%	95.74%	97.10%	94.24%	96.87%	94.57%	100.00%	99.94%	78.66%
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Procurement			96.87%	95.74%	97.10%	94.24%	96.87%	94.57%	100.00%	99.94%	78.66%

Other Department O&M Actual to Budget Factors — Assumptions - 30A

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2019	2018	2017	2016	2015
Law											
Salaries & Wages	100	97.55%	100.00%	97.55%	96.52%	91.63%	100.00%	95.04%	94.43%	83.20%	85.29%
Services	200	84.05%	99.97%	84.05%	64.04%	52.69%	99.97%	68.12%	24.02%	26.55%	44.77%
Materials and Supplies	300	79.23%	98.59%	79.23%	81.09%	60.92%	98.59%	59.88%	84.79%	42.72%	18.60%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Law			99.98%	94.46%	89.43%	82.95%	99.98%	88.83%	79.29%	70.57%	75.76%
Other Department O&M Expenses Summary											
Salaries & Wages	100		90.61%	92.13%	91.66%	90.15%	90.61%	93.74%	90.76%	87.46%	88.14%
Benefits	1xx		88.35%	90.68%	92.88%	91.79%	88.35%	93.05%	97.93%	89.01%	90.91%
Pension	191		99.70%	101.58%	102.89%	101.55%	99.70%	103.58%	106.05%	100.25%	97.29%
Pension Obligations	190		100.14%	102.29%	104.77%	103.12%	100.14%	104.51%	110.49%	103.05%	97.57%
Services	200		80.62%	79.96%	80.77%	82.28%	80.62%	79.27%	82.60%	79.23%	92.20%
Power	220										
Materials and Supplies	300		71.06%	73.57%	74.28%	78.39%	71.06%	76.18%	75.85%	76.41%	95.63%
Chemicals	307										
Equipment	400										
Indemnities	500		38.99%	56.41%	68.98%	69.81%	38.99%	73.83%	99.60%	83.64%	59.06%
Transfers	800										
Total Other Department O&M Expenses Summary			88.96%	91.13%	92.89%	92.28%	88.96%	93.39%	96.89%	90.65%	91.73%
Total Water Fund			90.40%	91.90%	92.90%	91.71%	90.40%	93.49%	95.13%	89.12%	90.27%

Other Department O&M Actual to Budget Factors — Assumptions - 30B

		Actual					Budget				
		2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
Other Department O&M											
Division of Technology											
Salaries & Wages	100	$ 6,502,251	$ 6,236,674	$ 5,893,231	$ 5,416,218	$ 5,233,042	$ 8,003,747	$ 7,256,281	$ 6,330,207	$ 6,265,289	$ 5,816,911
Services	200	15,249,284	13,806,992	12,605,190	9,957,749	10,226,939	20,930,724	19,043,874	16,050,511	14,706,497	11,551,218
Materials and Supplies	300	1,967,863	2,025,326	1,634,654	848,074	1,609,074	3,032,350	2,700,550	2,045,628	2,025,150	1,817,650
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology		$ 23,719,398	$ 22,068,992	$ 20,133,075	$ 16,222,041	$ 17,069,055	$ 31,966,821	$ 29,000,705	$ 24,426,346	$ 22,996,936	$ 19,185,779
Mayor's Office of Transportation & Utilities											
Salaries & Wages	100	$ 202,424	$ 202,424	$ 202,424	$ 201,861	$ 227,983	$ 202,424	$ 202,424	$ 202,424	$ 202,424	$ 230,886
Services	200	30,000	30,000	29,000	30,000	-	30,000	30,000	30,000	30,000	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities		$ 232,424	$ 232,424	$ 231,424	$ 231,861	$ 227,983	$ 232,424	$ 232,424	$ 232,424	$ 232,424	$ 230,886
Philadelphia Water, Sewer and Stormwater Rate Board											
Salaries & Wages	100	$ -	$ 22,404	$ 3,800	$ -	$ -	$ 40,000	$ 120,000	$ 120,000	$ -	$ -
Services	200	-	462,749	95,851	-	-	500,000	850,000	850,000	-	-
Materials and Supplies	300	-	-	-	-	-	25,000	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate E		$ -	$ 485,153	$ 99,651	$ -	$ -	$ 565,000	$ 970,000	$ 970,000	$ -	$ -
Public Property											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Services	200	4,265,847	4,256,817	4,042,633	4,042,633	3,959,919	4,265,847	4,256,817	4,042,633	4,042,633	3,959,919
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property		$ 4,265,847	$ 4,256,817	$ 4,042,633	$ 4,042,633	$ 3,959,919	$ 4,265,847	$ 4,256,817	$ 4,042,633	$ 4,042,633	$ 3,959,919
Fleet Management											
Salaries & Wages	100	$ 2,909,020	$ 2,891,880	$ 2,925,816	$ 2,526,922	$ 2,602,612	$ 3,083,114	$ 3,062,196	$ 3,062,196	$ 2,969,317	$ 2,969,317
Services	200	1,481,230	1,036,762	1,417,465	1,469,209	1,488,271	1,489,000	1,489,000	1,489,000	1,489,000	1,489,000
Materials and Supplies	300	3,081,353	3,485,331	3,412,351	3,875,181	4,232,497	4,274,640	4,274,640	4,274,640	4,274,640	4,274,640
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management		$ 7,471,603	$ 7,413,973	$ 7,755,632	$ 7,871,312	$ 8,323,380	$ 8,846,754	$ 8,825,836	$ 8,825,836	$ 8,732,957	$ 8,732,957

Other Department O&M Actual to Budget Factors — Assumptions - 30B

		Actual					Budget				
		2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
City Finance											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Benefits	1xx	54,912,153	56,886,859	52,651,923	47,276,002	48,293,131	62,155,000	55,005,283	53,765,209	53,115,262	53,120,209
Pension	191	64,686,954	62,666,813	55,552,438	46,646,526	40,861,335	64,881,002	54,652,000	52,384,383	46,529,000	42,000,000
Pension Obligations	190	14,170,375	14,290,585	13,362,362	12,468,686	11,415,451	14,150,000	12,475,000	12,093,775	12,100,000	11,700,000
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	3,316,246	6,279,219	6,952,193	5,440,242	3,840,767	8,500,000	8,500,000	6,975,000	6,500,000	6,500,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance		$ 137,085,728	$ 140,123,476	$ 128,518,916	$ 111,831,456	$ 104,410,684	$ 149,686,002	$ 130,632,283	$ 125,218,367	$ 118,244,262	$ 113,320,209
City Finance											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Benefits	1xx	-	-	-	-	-	-	6,131,000	-	-	-
Pension	191	-	-	-	-	-	-	5,846,000	-	-	-
Pension Obligations	190	-	-	-	-	-	-	1,199,000	-	-	-
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ 13,176,000	$ -	$ -	$ -
Revenue											
Salaries & Wages	100	$ 9,791,864	$ 9,735,827	$ 10,844,659	$ 9,948,364	$ 10,013,594	$ 10,358,907	$ 9,759,200	$ 12,287,592	$ 11,138,839	$ 11,404,254
Services	200	4,858,989	4,834,053	4,958,726	4,477,102	4,241,117	5,059,000	5,048,100	5,072,174	4,484,480	4,244,480
Materials and Supplies	300	1,164,755	898,556	831,018	594,307	630,784	1,429,500	1,428,400	1,434,199	640,920	640,920
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	120	578	1,273	5,000	5,000	5,000	5,000	5,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue		$ 15,815,608	$ 15,468,436	$ 16,634,523	$ 15,020,351	$ 14,886,768	$ 16,852,407	$ 16,240,700	$ 18,798,965	$ 16,269,239	$ 16,294,654
Procurement											
Salaries & Wages	100	$ 90,176	$ 84,412	$ 85,470	$ 77,339	$ 60,866	$ 93,093	$ 89,261	$ 85,470	$ 77,383	$ 77,383
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement		$ 90,176	$ 84,412	$ 85,470	$ 77,339	$ 60,866	$ 93,093	$ 89,261	$ 85,470	$ 77,383	$ 77,383

Other Department O&M Actual to Budget Factors — Assumptions - 30B

		Actual					Budget				
		2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
Law											
Salaries & Wages	100	$ 2,569,445	$ 2,381,984	$ 2,369,450	$ 2,085,052	$ 2,137,491	$ 2,569,445	$ 2,506,206	$ 2,509,294	$ 2,506,206	$ 2,506,206
Services	200	691,440	471,162	166,099	183,651	309,631	691,614	691,614	691,614	691,614	691,614
Materials and Supplies	300	42,404	25,753	36,469	18,376	8,002	43,010	43,010	43,010	43,010	43,010
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Law		$ 3,303,289	$ 2,878,899	$ 2,572,018	$ 2,287,079	$ 2,455,124	$ 3,304,069	$ 3,240,830	$ 3,243,918	$ 3,240,830	$ 3,240,830
Other Department O&M Expenses Summary											
Salaries & Wages	100	$ 22,065,180	$ 21,555,605	$ 22,324,850	$ 20,255,756	$ 20,275,588	$ 24,350,730	$ 22,995,568	$ 24,597,183	$ 23,159,458	$ 23,004,957
Benefits	1xx	54,912,153	56,886,859	52,651,923	47,276,002	48,293,131	62,155,000	61,136,283	53,765,209	53,115,262	53,120,209
Pension	191	64,686,954	62,666,813	55,552,438	46,646,526	40,861,335	64,881,002	60,498,000	52,384,383	46,529,000	42,000,000
Pension Obligations	190	14,170,375	14,290,585	13,362,362	12,468,686	11,415,451	14,150,000	13,674,000	12,093,775	12,100,000	11,700,000
Services	200	26,576,790	24,898,535	23,314,964	20,160,344	20,225,877	32,966,185	31,409,405	28,225,932	25,444,224	21,936,231
Power	220	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	6,256,375	6,434,966	5,914,492	5,335,938	6,480,357	8,804,500	8,446,600	7,797,477	6,983,720	6,776,220
Chemicals	307	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	3,316,246	6,279,219	6,952,313	5,440,820	3,842,040	8,505,000	8,505,000	6,980,000	6,505,000	6,505,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Total Other Department O&M Expenses Summary		**$ 191,984,073**	**$ 193,012,582**	**$ 180,073,342**	**$ 157,584,072**	**$ 151,393,779**	**$ 215,812,417**	**$ 206,664,856**	**$ 185,843,959**	**$ 173,836,664**	**$ 165,042,617**
		$ 191,984,073	$ 193,012,582	$ 180,073,342	$ 157,584,072	$ 151,393,779	$ 215,812,417	$ 206,664,856	$ 185,843,959	$ 173,836,664	$ 165,042,617
Total Water Fund		**$ 521,378,881**	**$ 505,908,230**	**$ 480,291,404**	**$ 433,618,002**	**$ 424,318,674**	**$ 576,725,039**	**$ 541,141,465**	**$ 504,887,023**	**$ 486,540,664**	**$ 470,059,076**

Other Department O&M - Water and Sewer Allocation Assumptions - 31

		2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Other Department O&M								
Division of Technology								
Class 100 - UBIS		1,836,797	83.48%	1,533,341	21.11%	33.30%	33.40%	33.30%
Class 100 - All Other		6,863,835	83.48%	5,729,864	78.89%	61.00%	39.00%	0.00%
Class 100 - Total	100	8,700,632	83.48%	7,263,205	100.00%	55.15%	37.82%	7.03%
Class 200 - UBIS		7,215,670	72.69%	5,244,843	36.05%	33.30%	33.40%	33.30%
Class 200 - All Other		12,799,872	72.69%	9,303,824	63.95%	61.00%	39.00%	0.00%
Class 200 - Total	200	20,015,542	72.69%	14,548,667	100.00%	51.01%	36.98%	12.00%
Class 300 - UBIS		271,000	69.65%	188,762	12.70%	33.30%	33.40%	33.30%
Class 300 - All Other		1,862,850	69.65%	1,297,548	87.30%	61.00%	39.00%	0.00%
Class 300 - Total	300	2,133,850	69.65%	1,486,310	100.00%	57.48%	38.29%	4.23%
Class 400 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 400 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 400 - Total	400	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 500 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 500 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 800 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Division of Technology		30,850,024		23,298,182				

Other Department O&M - Water and Sewer Allocation Assumptions - 31

	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Mayor's Office of Transportation & Utilities							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Mayor's Office of Transportation & Utilities							
Philadelphia Water, Sewer and Stormwater Rate Board							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board							
Public Property							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Public Property							
Fleet Management							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Fleet Management							

Other Department O&M - Water and Sewer Allocation Assumptions - 31

	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
City Finance							
100					36.00%	64.00%	0.00%
1xx					NA	NA	NA
191					NA	NA	NA
190					NA	NA	NA
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					37.00%	63.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal City Finance							
City Finance (270)							
100					46.00%	54.00%	0.00%
1xx (270)					46.00%	54.00%	0.00%
191 (270)					46.00%	54.00%	0.00%
190 (270)					46.00%	54.00%	0.00%
200					46.00%	54.00%	0.00%
300					46.00%	54.00%	0.00%
400					46.00%	54.00%	0.00%
500					46.00%	54.00%	0.00%
800					46.00%	54.00%	0.00%
Subtotal City Finance (270)							
Revenue							
100					33.40%	33.30%	33.30%
200					33.40%	33.30%	33.30%
300					33.40%	33.30%	33.30%
400					33.40%	33.30%	33.30%
500					33.40%	33.30%	33.30%
800					33.40%	33.30%	33.30%
Subtotal Revenue							

Other Department O&M - Water and Sewer Allocation Assumptions - 31

	2020 Budget Detail	Actual/Budget Factor	2020 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Procurement							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Procurement							
Law							
100					37.00%	63.00%	0.00%
200					37.00%	63.00%	0.00%
300					37.00%	63.00%	0.00%
400					37.00%	63.00%	0.00%
500					37.00%	63.00%	0.00%
800					37.00%	63.00%	0.00%
Subtotal Law							

WTP Sludge Costs Growth Assumptions - 32

	Use	Averages Growth			Annual Growth					
		1 Year	3 Year	5 Year	2019	2020	2021	2022	2023	2024
WTP Sludge Costs	6.00%	5.42%	4.79%	6.25%		-0.81%	10.05%	6.95%	4.45%	4.49%

NOTE: ONLY REQUIRED FOR PROJECTIONS BEYOND FY 2025. PROJECTIONS THRU FY2025 REFLECT ALLOCATIONS FROM SCOS.

Liquidated Encumbrance Ratio **Assumptions - 33**

	Use	Historical Averages 1 Year	3 Year	5 Year	Liquidated Encumbrance Ratio 2019	2018	2017	2016	2015
Actual		17.29%	17.19%	16.04%	17.29%	19.72%	14.62%	15.77%	12.53%
Budget	34,163,878	10.21%	10.81%	12.19%	10.21%	11.42%	10.86%	16.28%	12.29%

Ratio: Liquidated Encumbrances to Total Class 200 & 300 O&M

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Liquidated Encumbrance Ratio	17.21%	17.20%	17.20%	17.20%	17.20%	17.20%	17.20%	17.20%	17.20%	17.20%
Projected Liquidated Encumbrance	30,420,600	31,670,560	32,938,819	34,163,878	35,456,055	36,817,682	38,235,332	39,711,374	41,248,278	42,848,624
Actual	30,420,600	-								

Liquidated Encumbrance Ratio **Assumptions - 33**

	Class 200 (Excluding SMIP/GARP) & 300 O&M				Liquidated Encumbrances				
	2018	2017	2016	2015	2019	2018	2017	2016	2015
Actual	$ 164,327,794	$ 167,915,504	$ 152,782,604	$ 154,790,275	$ 30,420,600	$ 32,413,214	$ 24,549,754	$ 24,088,000	$ 19,389,000
Budget	175,121,137	184,203,506	184,257,050	178,939,900	$ 20,000,000	$ 20,000,000	$ 20,000,000	$ 30,000,000	$ 22,000,000

Liquidated Encumbrance Water/Sewer Alloca

Assumptions - 34

		Averages Growth			Allocation of Class 200 & 300						
	Use	1 Year	3 Year	5 Year	2019	2020	2021	2022	2023	2024	2025
Direct Costs - Class 200 & 300											
Water	33.70%	32.59%	32.56%	32.56%	32.59%	32.45%	32.64%	32.79%	32.94%	33.09%	33.25%
Sewer	66.30%	67.41%	67.44%	67.44%	67.41%	67.55%	67.36%	67.21%	67.06%	66.91%	66.75%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Liquidated Encumbrance Water/Sewer Alloc Assumptions - 34

	Projected Class 200 & 300						
	2019	2020	2021	2022	2023	2024	2025
Direct Costs - Class 200 & 300							
Water	$ 65,746,539	$ 67,872,515	$ 70,659,275	$ 73,319,477	$ 76,136,333	$ 79,115,392	$ 82,221,682
Sewer	136,002,214	141,258,646	145,845,484	150,307,723	155,003,522	159,940,901	165,076,760
Total	$ 201,748,753	$ 209,131,161	$ 216,504,759	$ 223,627,200	$ 231,139,855	$ 239,056,293	$ 247,298,442

Rate Stabilization Fund Balance Allocation b/w W & WW	Assumptions - 35
Water	40%
Wastewater	60%

Revenue/Operating Fund Balance Allocation b/w W & WW		Assumptions - 36
Water	40%	
Wastewater	60%	

CIP Inflation	Assumptions - 37
Low	0.0%
Medium	3.0%
High	3.0%
Base Year	**2021**

Transfer to General Fund Adjustment								Assumptions - 38
Description	Water	2019	2020	2021	2022	2023	2024	2025
Additional Transfer								
xxxxxx	0%	-	-	-	-	-	-	-
xxxxxx	0%	-	-	-	-	-	-	-
xxxxxx	0%	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-
Water Allocation								
xxxxxx		-	-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-
Wastewater Allocation								
xxxxxx		-	-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-

NOTE: CURRENTLY NOT IN USE

Stormwater IA GA Projections Assumptions - 39

Factor 1000

Average IA Per Parcel	Residential	Use	Non Residential	Use	Condominium	Use
Non-Discount	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)
Water & Sewer	1,200	1.200	16,030.98	16.031	11,499.04	11.499
SW Only	1,200	1.200	2,529.12	2.529	15,388.93	15.389
Discount: Elderly, Education & Charities						
Water & Sewer	1,200	1.200	51,984.59	51.985	19,489.27	19.489
SW Only	1,200	1.200	13,472.35	13.472	20,649.00	20.649
Discount PHA						
Water & Sewer	1,200	1.200	30,970.14	30.970	6,158.00	6.158
SW Only	1,200	1.200	721.50	0.721	-	0.000
xxxxxxxx						
Water & Sewer		0.000		0.000		0.000
SW Only		0.000		0.000		0.000

Average GA Per Parcel	Residential	Use	Non Residential	Use	Condominium	Use
Non-Discount	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)
Water & Sewer	2,110	2.110	28,595.76	28.596	15,995.72	15.996
SW Only	2,110	2.110	8,562.42	8.562	23,636.80	23.637
Discount: Elderly, Education & Charities						
Water & Sewer	2,110	2.110	95,328.90	95.329	40,950.78	40.951
SW Only	2,110	2.110	23,021.17	23.021	24,704.00	24.704
Discount PHA						
Water & Sewer	2,110	2.110	56,352.56	56.353	9,358.00	9.358
SW Only	2,110	2.110	2,014.84	2.015	-	0.000
xxxxxxxxx						
Water & Sewer		0.000		0.000		0.000
SW Only		0.000		0.000		0.000

2 year average (FY 2016 and FY 2017) area calculated for projections

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections — Assumptions - 40

Factor 1,000

	IA and GA For Use (1,000 Sq Ft)							Credit Projections -Source UOS Book & Credit Projections Book						
Total credits	2020	2021	2022	2023	2024	2025	2026	2020	2021	2022	2023	2024	2025	2026
Parcels	1,285	1,378	1,444	1,510	1,576	1,642	1,708	1,285	1,378	1,444	1,510	1,576	1,642	1,708
Impervious Area	106,792	117,921	123,229	131,483	139,626	147,659	155,588	106,792,120	117,920,940	123,229,220	131,483,310	139,625,900	147,659,290	155,588,130
Gross Area	345,842	367,692	383,721	402,697	421,561	440,315	458,965	345,841,660	367,691,760	383,721,300	402,696,660	421,560,510	440,315,180	458,965,300
								2020	2021	2022	2023	2024	2025	2026

Stormwater Deductions Projections

Assumptions - 40

Factor 1,000

	IA and GA For Use (1,000 Sq Ft)							Credit Projections -Source UOS Book & Credit Projections Book						
Total credits	2020	2021	2022	2023	2024	2025	2026	2020	2021	2022	2023	2024	2025	2026
Parcels	1,285	1,378	1,444	1,510	1,576	1,642	1,708	1,285	1,378	1,444	1,510	1,576	1,642	1,708
Impervious Area	106,792	117,921	123,229	131,483	139,626	147,659	155,588	106,792,120	117,920,940	123,229,220	131,483,310	139,625,900	147,659,290	155,588,130
Gross Area	345,842	367,692	383,721	402,697	421,561	440,315	458,965	345,841,660	367,691,760	383,721,300	402,696,660	421,560,510	440,315,180	458,965,300
								2020	2021	2022	2023	2024	2025	2026
NOT IN USE														
NOT IN USE														
NOT IN USE														

Stormwater Deductions Projections Assumptions - 40

Choose Credit Allocation	0								
	Use-Percent Allocation for projection of Credits			Existing (0)-Percent Allocation for projection of Credits			Alternative (1)-Percent Allocation for projection of Credits		
	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area
Residential									
Non-Discount									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Non Residential									
Non-Discount									
Water & Sewer	57.1%	75.7%	65.2%	57.09%	75.72%	65.23%	0.0%	0.0%	0.0%
SW Only	25.3%	14.1%	24.1%	25.31%	14.14%	24.08%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	13.4%	5.9%	8.4%	13.42%	5.87%	8.42%	0.0%	0.0%	0.0%
SW Only	0.9%	0.2%	0.2%	0.86%	0.15%	0.21%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Condominiums									
Non-Discount									
Water & Sewer	3.0%	3.9%	1.9%	3.04%	3.88%	1.93%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.3%	0.2%	0.1%	0.29%	0.25%	0.13%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%

Appeals	Use	Average	2019	2016	2015	2014
Annual Impervious Area Loss Per Parcel	4.005	4,005	4,230	3,780	1,970	3,970
Annual Gross Area Loss Per Parcel (sf)	5.345	5,345	5,240	5,450	(460)	40

Projection	2020	2021	2022	2023	2024	2025	2026
# of Appeals	11.00	-58.00	-58.00	-58.00	-53.00	0.00	0.00

Adjust to input average 2-yr # of Appeals

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections Assumptions - 40

Exemptions

Choose Exemption Allocation 0

COMMUNITY GARDENS HISTORICAL DISTRIBUTION OF PARCELS, IMPERVIOUS AREA AND GROSS AREA

	Use-Percent Allocation for projection of Exemptions			Existing (0)-Percent Allocation for projection of Exemptions			Alternative (1)-Percent Allocation for projection of Exemptions		
	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area
Residential									
Non-Discount									
Water & Sewer	0.9%	3.0%	0.5%	0.9%	3.0%	0.5%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Non Residential									
Non-Discount									
Water & Sewer	2.7%	6.0%	12.8%	2.68%	6.01%	12.81%	0.0%	0.0%	0.0%
SW Only	55.4%	52.6%	31.6%	55.36%	52.61%	31.65%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	8.0%	9.5%	45.8%	8.04%	9.52%	45.79%	0.0%	0.0%	0.0%
SW Only	28.1%	20.9%	7.2%	28.13%	20.87%	7.24%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	4.9%	8.0%	2.0%	4.91%	8.02%	2.02%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Condominiums									
Non-Discount									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections Assumptions - 40

Factor 1,000

	IA and GA For Use (1,000 Sq Ft)							Community Gardens Projections -Source UOS Book & Credit Projections Book						
Total Community Gardens	2020	2021	2022	2023	2024	2025	2026	2020	2021	2022	2023	2024	2025	2026
Parcels	39	39	39	39	39	39	39	39	39	39	39	39	39	39
Impervious Area	20	20	20	20	20	20	20	19,526	19,526	19,526	19,526	19,526	19,526	19,526
Gross Area	488	488	488	488	488	488	488	488,459	488,459	488,459	488,459	488,459	488,459	488,459

COMMUNITY GARDENS AVERAGE

Parcels	0.000	0		39
Impervious Area (sf)	0.000	0		
Gross Area (sf)				19,526
xxxxxxxx (NOT IN USE)	**NOT IN USE - INPUT ON CUSTOMER TAB**			488,459
Impervious Area Per Parcel (sf)	0.000	0		
Gross Area Per Parcel (sf)	0.000	0		

SMIP/GARP ALLOCATION

Allocation of SMIP/GARP	Sanitary	Stormwater
	40.00%	60.00%

Constants Assumptions - 41

BILLING FREQUENCY

Senior Citizens	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Residential)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Commercial)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Industrial)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Public Utilities)	
5/8" Meter	12.00
> 5/8" Meter	12.00
PHA	12.00
Charities & Schools	12.00
Hospital/University	12.00
Hand Bill	12.00
Scheduled	12.00
xxxxxxxxxx	12.00
xxxxxxxxxx	12.00
Fire Service	12.00
Public Fire (Hydrants)	12.00
Sewer Only	12.00
Groundwater	12.00

Available Historical O&M Cost Data	Available Historical O&M Cost Data - 42
2019	
2018	
2017	
2016	
2015	

List of years provided for Drop Down Lists

FINPLAN19.XLS

CUSTOMER

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Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water - Accounts													**Customer - 1**
Senior Citizens													
5/8" Meter	Account - No Growth	19,518	20,188	21,384	22,365	22,994	23,460	23,460	23,460	23,460	23,460	23,460	23,460
> 5/8" Meter	Account - No Growth	5	4	5	7	7	9	9	9	9	9	9	9
Total Senior Citizens		19,523	20,192	21,389	22,372	23,001	23,469	23,469	23,469	23,469	23,469	23,469	23,469
General Service (Residential)													
5/8" Meter	Account - No Growth	410,553	403,992	410,847	411,896	418,816	413,482	413,482	413,482	413,482	413,482	413,482	413,482
> 5/8" Meter	Account - No Growth	4,263	4,827	5,524	6,670	7,688	8,885	8,885	8,885	8,885	8,885	8,885	8,885
Total General Service (Residential)		414,816	408,819	416,371	418,566	426,504	422,367	422,367	422,367	422,367	422,367	422,367	422,367
General Service (Commercial)													
5/8" Meter	Account - No Growth	28,205	28,118	28,151	28,133	28,246	28,142	28,142	28,142	28,142	28,142	28,142	28,142
> 5/8" Meter	Account - No Growth	7,122	7,374	7,476	7,839	8,293	8,605	8,605	8,605	8,605	8,605	8,605	8,605
Total General Service (Commercial)		35,327	35,492	35,627	35,972	36,539	36,747	36,747	36,747	36,747	36,747	36,747	36,747
General Service (Industrial)													
5/8" Meter	Account - No Growth	537	530	528	527	523	514	514	514	514	514	514	514
> 5/8" Meter	Account - No Growth	551	550	546	544	550	550	550	550	550	550	550	550
Total General Service (Industrial)		1,088	1,080	1,074	1,071	1,073	1,064	1,064	1,064	1,064	1,064	1,064	1,064
General Service (Public Utilities)													
5/8" Meter	Account - No Growth	37	44	48	58	66	74	74	74	74	74	74	74
> 5/8" Meter	Account - No Growth	82	83	90	97	99	99	99	99	99	99	99	99
Total General Service (Public Utilities)		119	127	138	155	165	173	173	173	173	173	173	173
General Service (Excluding Senior Citizens)													
5/8" Meter		439,332	432,684	439,574	440,614	447,651	442,212	442,212	442,212	442,212	442,212	442,212	442,212
> 5/8" Meter		12,018	12,834	13,636	15,150	16,630	18,139	18,139	18,139	18,139	18,139	18,139	18,139
Total General Service (excluding SC)		451,350	445,518	453,210	455,764	464,281	460,351	460,351	460,351	460,351	460,351	460,351	460,351
General Service (Including Senior Citizens)													
5/8" Meter		458,850	452,872	460,958	462,979	470,645	465,672	465,672	465,672	465,672	465,672	465,672	465,672
> 5/8" Meter		12,023	12,838	13,641	15,157	16,637	18,148	18,148	18,148	18,148	18,148	18,148	18,148
Total General Service (including SC)		470,873	465,710	474,599	478,136	487,282	483,820	483,820	483,820	483,820	483,820	483,820	483,820
PHA	Account - No Growth	5,981	5,896	5,731	5,934	5,911	5,877	5,877	5,877	5,877	5,877	5,877	5,877
Charity and Schools	Account - No Growth	2,731	2,607	2,523	2,436	2,233	2,163	2,163	2,163	2,163	2,163	2,163	2,163
Hospital/University	Account - No Growth	427	502	493	511	350	406	406	406	406	406	406	406
Hand Bill	Account - No Growth	272	270	264	255	241	241	241	241	241	241	241	241
Scheduled	Account - No Growth	2	2	3	4	4	3	3	3	3	3	3	3
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Account - No Growth	3,511	4,104	3,797	4,541	4,562	5,538	5,538	5,538	5,538	5,538	5,538	5,538
Fire Hydrants	Account - No Growth	25,364	25,364	25,364	25,419	25,419	25,419	25,419	25,419	25,419	25,419	25,419	25,419
Total		509,161	504,455	512,774	517,236	526,002	523,467	523,467	523,467	523,467	523,467	523,467	523,467
Fire Service (Unmetered)	Account - No Growth	5,889	6,498	7,122	7,452	7,810	9,173	9,173	9,173	9,173	9,173	9,173	9,173

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Customer Account Growth													**Customer - 1A**
Annual Growth													
Senior Citizens													
5/8" Meter		1.50%	3.43%	5.92%	4.59%	2.81%	2.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		0.00%	-20.00%	25.00%	40.00%	0.00%	28.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		1.50%	3.43%	5.93%	4.60%	2.81%	2.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		-0.05%	-1.60%	1.70%	0.26%	1.68%	-1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		18.85%	13.23%	14.44%	20.75%	15.26%	15.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		0.12%	-1.45%	1.85%	0.53%	1.90%	-0.97%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		2.07%	-0.31%	0.12%	-0.06%	0.40%	-0.37%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		6.51%	3.54%	1.38%	4.86%	5.79%	3.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		2.93%	0.47%	0.38%	0.97%	1.58%	0.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		0.00%	-1.30%	-0.38%	-0.19%	-0.76%	-1.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		8.25%	-0.18%	-0.73%	-0.37%	1.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		4.02%	-0.74%	-0.56%	-0.28%	0.19%	-0.84%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		8.82%	18.92%	9.09%	20.83%	13.79%	12.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.81%	1.22%	8.43%	7.78%	2.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		10.19%	6.72%	8.66%	12.32%	6.45%	4.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.09%	-1.51%	1.59%	0.24%	1.60%	-1.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.69%	6.79%	6.25%	11.10%	9.77%	9.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		0.34%	-1.29%	1.73%	0.56%	1.87%	-0.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.15%	-1.30%	1.79%	0.44%	1.66%	-1.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.69%	6.78%	6.25%	11.11%	9.76%	9.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		0.39%	-1.10%	1.91%	0.75%	1.91%	-0.71%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-0.70%	-1.42%	-2.80%	3.54%	-0.39%	-0.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		1.11%	-4.54%	-3.22%	-3.45%	-8.33%	-3.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		4.40%	17.56%	-1.79%	3.65%	-31.51%	16.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		3.03%	-0.74%	-2.22%	-3.41%	-5.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		0.00%	0.00%	50.00%	33.33%	0.00%	-25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		6.20%	16.89%	-7.48%	19.59%	0.46%	21.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		0.17%	0.00%	0.00%	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		0.41%	-0.92%	1.65%	0.87%	1.69%	-0.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Service (Unmetered)		8.43%	10.34%	9.60%	4.63%	4.81%	17.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Customer Account Growth													**Customer - 1A**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		0.95%	2.46%	4.67%	5.25%	3.70%	2.42%	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		11.80%	-10.56%	0.00%	32.29%	18.32%	13.39%	13.39%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		0.95%	2.46%	4.67%	5.26%	3.70%	2.42%	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		-1.67%	-0.83%	0.04%	0.97%	0.97%	0.19%	-0.64%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.95%	16.00%	13.83%	17.55%	17.97%	15.42%	7.50%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-1.56%	-0.67%	0.19%	1.19%	1.21%	0.45%	-0.49%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		0.51%	0.87%	-0.10%	0.03%	0.17%	0.02%	-0.18%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		2.72%	5.01%	2.46%	3.10%	5.32%	4.77%	1.86%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		0.94%	1.69%	0.42%	0.67%	1.27%	1.07%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		-0.92%	-0.65%	-0.84%	-0.28%	-0.47%	-1.24%	-0.86%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-0.45%	3.95%	-0.45%	-0.55%	0.37%	0.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-0.68%	1.61%	-0.65%	-0.42%	-0.05%	-0.33%	-0.42%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		4.32%	13.76%	13.90%	14.81%	17.26%	12.95%	5.89%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		13.19%	5.91%	4.76%	8.11%	4.88%	1.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		10.19%	8.44%	7.69%	10.47%	9.35%	5.65%	2.40%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		-1.53%	-0.72%	0.03%	0.91%	0.91%	0.18%	-0.61%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.33%	8.72%	6.52%	8.65%	10.43%	9.42%	4.44%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-1.37%	-0.48%	0.21%	1.14%	1.21%	0.50%	-0.42%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		-1.43%	-0.58%	0.23%	1.11%	1.05%	0.29%	-0.53%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.33%	8.72%	6.52%	8.66%	10.44%	9.42%	4.44%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-1.27%	-0.36%	0.39%	1.33%	1.33%	0.59%	-0.36%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-1.50%	-1.06%	-2.11%	0.32%	1.56%	-0.48%	-0.29%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-0.22%	-1.76%	-3.88%	-3.34%	-5.92%	-5.77%	-1.58%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		3.71%	10.79%	7.45%	0.89%	-15.74%	-10.86%	7.70%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		-2.65%	1.13%	-1.48%	-2.82%	-4.46%	-2.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		0.00%	0.00%	22.47%	41.42%	15.47%	-13.40%	-13.40%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		0.36%	11.42%	3.99%	5.19%	9.61%	10.43%	10.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		0.02%	0.08%	0.00%	0.11%	0.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		-1.19%	-0.26%	0.35%	1.26%	1.28%	0.60%	-0.24%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Service (Unmetered)		4.20%	9.38%	9.97%	7.09%	4.72%	10.95%	8.38%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Customer Account Growth													**Customer - 1A**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		1.26%	1.77%	3.60%	4.64%	4.43%	3.14%	1.61%	0.67%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		35.72%	0.00%	0.00%	11.87%	20.51%	21.64%	8.74%	8.74%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		1.27%	1.77%	3.60%	4.65%	4.44%	3.14%	1.61%	0.67%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	-1.64%	0.01%	0.11%	1.21%	0.21%	0.13%	-0.43%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	11.71%	15.48%	16.09%	16.78%	17.17%	10.03%	4.94%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	-1.52%	0.16%	0.30%	1.42%	0.48%	0.30%	-0.32%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	0.23%	0.62%	-0.09%	0.15%	-0.01%	0.01%	-0.12%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	2.99%	3.79%	3.25%	3.99%	4.80%	3.16%	1.24%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	0.78%	1.25%	0.60%	0.97%	1.04%	0.71%	0.19%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	-1.05%	-0.56%	-0.62%	-0.44%	-0.89%	-0.83%	-0.58%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	-0.36%	2.37%	-0.43%	0.00%	0.24%	0.37%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	-0.70%	0.88%	-0.52%	-0.22%	-0.31%	-0.22%	-0.28%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	8.97%	12.18%	16.17%	14.47%	15.52%	8.46%	3.89%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	9.05%	6.74%	5.76%	6.05%	3.23%	0.68%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	9.02%	8.51%	9.21%	9.12%	7.83%	3.73%	1.59%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.10%	-1.53%	0.05%	0.10%	1.14%	0.20%	0.12%	-0.41%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.33%	5.81%	7.89%	8.03%	9.02%	9.98%	6.19%	2.94%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		0.22%	-1.34%	0.25%	0.32%	1.38%	0.52%	0.33%	-0.28%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.15%	-1.39%	0.20%	0.30%	1.29%	0.34%	0.19%	-0.35%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.34%	5.81%	7.89%	8.03%	9.02%	9.98%	6.19%	2.94%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		0.27%	-1.21%	0.39%	0.51%	1.52%	0.64%	0.39%	-0.24%	0.00%	0.00%	0.00%	0.00%
PHA		-0.72%	-1.47%	-1.64%	-0.26%	0.08%	0.84%	-0.32%	-0.19%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-4.36%	-1.68%	-2.25%	-3.74%	-5.03%	-5.00%	-3.88%	-1.06%	0.00%	0.00%	0.00%	0.00%
Hospital/University		#N/A	8.14%	6.42%	6.17%	-11.33%	-6.27%	-7.38%	5.07%	0.00%	0.00%	0.00%	0.00%
Hand Bill		#N/A	-2.01%	0.00%	-2.13%	-3.72%	-2.99%	-1.86%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	0.00%	14.47%	25.99%	25.99%	0.00%	-9.14%	-9.14%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-6.10%	5.59%	4.72%	8.95%	3.59%	13.41%	6.84%	6.68%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		0.05%	0.01%	0.06%	0.07%	0.07%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		#N/A	-1.10%	0.37%	0.53%	1.40%	0.69%	0.40%	-0.16%	0.00%	0.00%	0.00%	0.00%
Fire Service (Unmetered)		12.14%	6.21%	9.46%	8.16%	6.32%	8.80%	7.17%	5.51%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Customer Account Growth													**Customer - 1A**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		1.28%	1.71%	2.61%	3.15%	3.64%	3.75%	3.05%	1.87%	0.96%	0.40%	0.00%	0.00%
> 5/8" Meter		20.11%	14.87%	20.11%	11.84%	6.96%	12.47%	17.61%	12.47%	5.15%	5.15%	0.00%	0.00%
Total Senior Citizens		1.28%	1.71%	2.62%	3.15%	3.64%	3.75%	3.05%	1.87%	0.96%	0.40%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	-0.61%	0.39%	0.14%	0.47%	0.13%	0.08%	-0.26%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	14.01%	16.47%	15.82%	12.98%	9.97%	5.90%	2.94%	0.00%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	-0.45%	0.58%	0.36%	0.65%	0.29%	0.18%	-0.19%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	0.15%	0.44%	-0.04%	0.02%	-0.01%	0.01%	-0.07%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	3.04%	4.40%	3.86%	3.14%	2.85%	1.88%	0.74%	0.00%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	0.74%	1.26%	0.79%	0.70%	0.62%	0.43%	0.11%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	-0.74%	-0.53%	-0.87%	-0.61%	-0.54%	-0.50%	-0.35%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-0.44%	1.56%	-0.04%	0.00%	0.15%	0.22%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	-0.59%	0.51%	-0.45%	-0.30%	-0.19%	-0.13%	-0.17%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	11.27%	14.19%	14.87%	10.96%	9.04%	4.99%	2.31%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	8.67%	5.99%	3.84%	3.59%	1.92%	0.41%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	9.60%	8.85%	7.77%	6.38%	4.62%	2.22%	0.95%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.29%	-0.14%	0.07%	-0.56%	0.39%	0.13%	0.44%	0.12%	0.07%	-0.24%	0.00%	0.00%
> 5/8" Meter		3.17%	4.57%	5.80%	6.94%	8.90%	8.58%	7.16%	5.87%	3.67%	1.75%	0.00%	0.00%
Total General Service (excluding SC)		0.36%	-0.02%	0.22%	-0.35%	0.64%	0.40%	0.66%	0.31%	0.20%	-0.17%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.33%	-0.06%	0.18%	-0.40%	0.54%	0.30%	0.56%	0.20%	0.12%	-0.21%	0.00%	0.00%
> 5/8" Meter		3.17%	4.57%	5.81%	6.94%	8.90%	8.58%	7.17%	5.88%	3.67%	1.75%	0.00%	0.00%
Total General Service (including SC)		0.40%	0.05%	0.32%	-0.21%	0.77%	0.54%	0.77%	0.39%	0.24%	-0.14%	0.00%	0.00%
PHA		-0.47%	-0.67%	-1.28%	-0.76%	-0.37%	-0.35%	-0.06%	0.50%	-0.19%	-0.12%	0.00%	0.00%
Charity and Schools		-3.02%	-3.80%	-4.17%	-2.35%	-3.73%	-4.56%	-3.67%	-3.03%	-2.35%	-0.63%	0.00%	0.00%
Hospital/University		#N/A	#N/A	#N/A	5.18%	-3.07%	-1.00%	-4.16%	-3.81%	-4.50%	3.01%	0.00%	0.00%
Hand Bill		#N/A	#N/A	#N/A	-2.34%	-1.81%	-2.39%	-2.25%	-1.81%	-1.12%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	14.87%	14.87%	8.45%	8.45%	0.00%	-5.59%	-5.59%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-4.29%	0.08%	-2.18%	5.43%	6.65%	9.54%	6.18%	7.84%	4.05%	3.95%	0.00%	0.00%
Fire Hydrants		0.14%	0.12%	0.03%	0.05%	0.08%	0.04%	0.04%	0.04%	0.00%	0.00%	0.00%	0.00%
Total		#N/A	#N/A	#N/A	-0.16%	0.74%	0.56%	0.74%	0.41%	0.24%	-0.10%	0.00%	0.00%
Fire Service (Unmetered)		6.95%	10.56%	11.27%	6.56%	7.54%	9.27%	7.14%	5.19%	4.24%	3.27%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only													**Customer - 2**
Accounts													
Senior Citizens													
5/8" Meter	Account - No Growth	17	17	19	18	20	20	20	20	20	20	20	20
> 5/8" Meter	Account - No Growth	1	1	2	3	2	2	2	2	2	2	2	2
Total Senior Citizens		18	18	21	21	22	22	22	22	22	22	22	22
General Service (Residential)													
5/8" Meter	Account - No Growth	1,267	1,259	1,262	1,252	1,260	1,259	1,259	1,259	1,259	1,259	1,259	1,259
> 5/8" Meter	Account - No Growth	797	893	803	954	929	1,074	1,074	1,074	1,074	1,074	1,074	1,074
Total General Service (Residential)		2,064	2,152	2,065	2,206	2,189	2,333	2,333	2,333	2,333	2,333	2,333	2,333
General Service (Commercial)													
5/8" Meter	Account - No Growth	103	105	105	107	108	111	111	111	111	111	111	111
> 5/8" Meter	Account - No Growth	598	682	621	715	731	832	832	832	832	832	832	832
Total General Service (Commercial)		701	787	726	822	839	943	943	943	943	943	943	943
General Service (Industrial)													
5/8" Meter	Account - No Growth	3	3	4	3	3	3	3	3	3	3	3	3
> 5/8" Meter	Account - No Growth	38	40	38	39	39	41	41	41	41	41	41	41
Total General Service (Industrial)		41	43	42	42	42	44	44	44	44	44	44	44
General Service (Public Utilities)													
5/8" Meter	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter	Account - No Growth	3	3	3	3	3	3	3	3	3	3	3	3
Total General Service (Public Utilities)		3	3	3	3	3	3	3	3	3	3	3	3
General Service (Excluding Senior Citizens)													
5/8" Meter		1,373	1,367	1,371	1,362	1,371	1,373	1,373	1,373	1,373	1,373	1,373	1,373
> 5/8" Meter		1,436	1,618	1,465	1,711	1,702	1,950	1,950	1,950	1,950	1,950	1,950	1,950
Total General Service (excluding SC)		2,809	2,985	2,836	3,073	3,073	3,323	3,323	3,323	3,323	3,323	3,323	3,323
General Service (Including Senior Citizens)													
5/8" Meter		1,390	1,384	1,390	1,380	1,391	1,393	1,393	1,393	1,393	1,393	1,393	1,393
> 5/8" Meter		1,437	1,619	1,467	1,714	1,704	1,952	1,952	1,952	1,952	1,952	1,952	1,952
Total General Service (including SC)		2,827	3,003	2,857	3,094	3,095	3,345	3,345	3,345	3,345	3,345	3,345	3,345

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only													**Customer - 2**
PHA	Account - No Growth	124	135	112	138	130	140	140	140	140	140	140	140
Charities & Schools	Account - No Growth	125	107	99	112	106	112	112	112	112	112	112	112
Hospital/University	Account - No Growth	52	71	67	80	45	53	53	53	53	53	53	53
Hand Bill	Account - No Growth	18	23	22	23	22	24	24	24	24	24	24	24
Scheduled	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Account - No Growth	3,430	4,030	3,720	4,451	4,457	5,426	5,426	5,426	5,426	5,426	5,426	5,426
Fire Hydrants	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Total		6,576	7,369	6,877	7,898	7,855	9,100	9,100	9,100	9,100	9,100	9,100	9,100
Billed Volume (Mcf)													
Senior Citizens													
5/8" Meter	Volume - No Growth	83	71	88	102	103	103	103	103	103	103	103	103
> 5/8" Meter	Volume - No Growth	-	-	6	6	2	0	0	0	0	0	0	0
Total Senior Citizens		83	71	94	108	105	103	103	103	103	103	103	103
General Service (Residential)													
5/8" Meter	Volume - No Growth	10,177	10,747	10,686	10,408	9,497	8,988	8,988	8,988	8,988	8,988	8,988	8,988
> 5/8" Meter	Volume - No Growth	2,959	3,320	3,153	4,089	2,858	2,501	2,501	2,501	2,501	2,501	2,501	2,501
Total General Service (Residential)		13,136	14,067	13,839	14,497	12,354	11,489	11,489	11,489	11,489	11,489	11,489	11,489
General Service (Commercial)													
5/8" Meter	Volume - No Growth	1,532	1,741	1,809	1,673	1,516	1,723	1,723	1,723	1,723	1,723	1,723	1,723
> 5/8" Meter	Volume - No Growth	22,847	34,108	32,692	42,249	29,899	58,441	58,441	58,441	58,441	58,441	58,441	58,441
Total General Service (Commercial)		24,380	35,849	34,500	43,922	31,415	60,164	60,164	60,164	60,164	60,164	60,164	60,164
General Service (Industrial)													
5/8" Meter	Volume - No Growth	48	35	43	52	21	21	21	21	21	21	21	21
> 5/8" Meter	Volume - No Growth	11,701	5,893	6,441	6,448	18,096	57,774	57,774	57,774	57,774	57,774	57,774	57,774
Total General Service (Industrial)		11,749	5,927	6,484	6,499	18,117	57,795	57,795	57,795	57,795	57,795	57,795	57,795
General Service (Public Utilities)													
5/8" Meter	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter	Volume - No Growth	1	1	1	1	1	1	1	1	1	1	1	1
Total General Service (Public Utilities)		1	1	1	1	1	1	1	1	1	1	1	1
General Service (Excluding Senior Citizens)													
5/8" Meter		11,757	12,523	12,538	12,132	11,034	10,732	10,732	10,732	10,732	10,732	10,732	10,732
> 5/8" Meter		37,508	43,322	42,287	52,786	50,854	118,718	118,718	118,718	118,718	118,718	118,718	118,718
Total General Service (excluding SC)		49,266	55,844	54,824	64,919	61,887	129,450	129,450	129,450	129,450	129,450	129,450	129,450

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only													**Customer - 2**
General Service (Including Senior Citizens)													
5/8" Meter		11,840	12,594	12,625	12,234	11,137	10,834	10,834	10,834	10,834	10,834	10,834	10,834
> 5/8" Meter		37,508	43,322	42,293	52,792	50,856	118,718	118,718	118,718	118,718	118,718	118,718	118,718
Total General Service (including SC)		49,348	55,916	54,919	65,026	61,992	129,552	129,552	129,552	129,552	129,552	129,552	129,552
PHA	Volume - No Growth	23	34	45	47	31	66	66	66	66	66	66	66
Charities & Schools	Volume - No Growth	6,057	1,291	988	944	750	912	912	912	912	912	912	912
Hospital/University	Volume - No Growth	51	42	38	45	24	35	35	35	35	35	35	35
Hand Bill	Volume - No Growth	37,723	76,304	127,689	100,250	75,159	9,767	9,767	9,767	9,767	9,767	9,767	9,767
Scheduled	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Volume - No Growth	6,286	8,904	8,588	8,104	8,346	100	100	100	100	100	100	100
Fire Hydrants	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Total		99,489	142,491	192,267	174,416	146,303	140,432	140,432	140,432	140,432	140,432	140,432	140,432

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water Only Customer Account Growth													**Customer - 2A**
Annual Growth													
Senior Citizens													
5/8" Meter		30.77%	0.00%	11.76%	-5.26%	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		0.00%	0.00%	100.00%	50.00%	-33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		28.57%	0.00%	16.67%	0.00%	4.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		21.94%	-0.63%	0.24%	-0.79%	0.64%	-0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		11.78%	12.05%	-10.08%	18.80%	-2.62%	15.61%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		17.81%	4.26%	-4.04%	6.83%	-0.77%	6.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		11.96%	1.94%	0.00%	1.90%	0.93%	2.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		8.14%	14.05%	-8.94%	15.14%	2.24%	13.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		8.68%	12.27%	-7.75%	13.22%	2.07%	12.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		0.00%	0.00%	33.33%	-25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.56%	5.26%	-5.00%	2.63%	0.00%	5.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		5.13%	4.88%	-2.33%	0.00%	0.00%	4.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		21.08%	-0.44%	0.29%	-0.66%	0.66%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.04%	12.67%	-9.46%	16.79%	-0.53%	14.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		15.17%	6.27%	-4.99%	8.36%	0.00%	8.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		21.19%	-0.43%	0.43%	-0.72%	0.80%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.03%	12.67%	-9.39%	16.84%	-0.58%	14.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		15.25%	6.23%	-4.86%	8.30%	0.03%	8.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		4.20%	8.87%	-17.04%	23.21%	-5.80%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		15.74%	-14.40%	-7.48%	13.13%	-5.36%	5.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		18.18%	36.54%	-5.63%	19.40%	-43.75%	17.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		12.50%	27.78%	-4.35%	4.55%	-4.35%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		6.49%	17.49%	-7.69%	19.65%	0.13%	21.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		10.32%	12.06%	-6.68%	14.85%	-0.54%	15.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Customer Account Growth													**Customer - 2A**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		37.44%	14.35%	5.72%	2.90%	2.60%	5.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		0.00%	0.00%	41.42%	73.21%	0.00%	-18.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		34.16%	13.39%	8.01%	8.01%	2.35%	2.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		25.46%	10.08%	-0.20%	-0.28%	-0.08%	0.28%	-0.04%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		16.23%	11.91%	0.38%	3.36%	7.56%	6.10%	7.52%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		21.64%	10.83%	0.02%	1.25%	2.96%	2.84%	3.24%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		18.78%	6.83%	0.97%	0.95%	1.42%	1.85%	1.38%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		8.39%	11.05%	1.90%	2.39%	8.50%	7.87%	6.68%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		9.75%	10.46%	1.77%	2.20%	7.50%	7.11%	6.02%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		22.47%	0.00%	15.47%	0.00%	-13.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.72%	5.41%	0.00%	-1.26%	1.31%	2.53%	2.53%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		11.46%	5.00%	1.21%	-1.17%	0.00%	2.35%	2.35%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		22.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		22.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		24.91%	9.79%	-0.07%	-0.18%	0.00%	0.40%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		12.63%	11.35%	1.00%	2.83%	7.79%	6.76%	7.04%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		18.16%	10.63%	0.48%	1.46%	4.09%	3.99%	3.99%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		25.04%	9.85%	0.00%	-0.14%	0.04%	0.47%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		12.62%	11.34%	1.04%	2.89%	7.78%	6.72%	7.03%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		18.24%	10.64%	0.53%	1.50%	4.08%	3.98%	3.96%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		11.92%	6.51%	-4.96%	1.11%	7.74%	0.72%	3.77%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		7.58%	-0.46%	-11.01%	2.31%	3.47%	0.00%	2.79%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		6.32%	27.03%	13.51%	6.15%	-18.05%	-18.61%	8.53%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		6.07%	19.90%	10.55%	0.00%	0.00%	2.15%	4.45%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		0.48%	11.86%	4.14%	5.09%	9.46%	10.41%	10.34%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		7.52%	11.18%	2.26%	3.53%	6.87%	7.34%	7.63%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Customer Account Growth													**Customer - 2A**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		12.31%	23.61%	13.48%	1.92%	5.57%	1.72%	3.57%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	0.00%	25.99%	44.22%	25.99%	0.00%	-12.64%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		14.47%	21.64%	14.47%	5.27%	6.92%	1.56%	1.56%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	16.08%	6.70%	-0.40%	0.03%	-0.08%	0.19%	-0.03%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	14.82%	4.04%	6.18%	1.33%	10.18%	4.03%	4.95%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	15.55%	5.63%	2.24%	0.57%	4.15%	1.88%	2.15%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	12.88%	4.50%	1.28%	0.94%	1.87%	1.23%	0.92%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	10.24%	3.94%	6.14%	2.34%	10.24%	5.18%	4.41%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	10.58%	4.02%	5.45%	2.16%	9.11%	4.68%	3.97%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	14.47%	10.06%	0.00%	0.00%	-9.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	8.87%	1.82%	0.87%	-0.84%	2.57%	1.68%	1.68%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	9.22%	2.50%	0.81%	-0.78%	1.56%	1.56%	1.56%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		#N/A	14.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	14.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		3.40%	15.81%	6.53%	-0.27%	0.10%	0.05%	0.27%	0.05%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		80.30%	12.64%	3.93%	6.01%	1.70%	10.00%	4.45%	4.64%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		23.62%	14.05%	5.16%	3.04%	0.97%	5.42%	2.64%	2.64%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		3.49%	15.90%	6.61%	-0.24%	0.17%	0.07%	0.31%	0.05%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		80.34%	12.63%	3.95%	6.05%	1.72%	9.99%	4.43%	4.63%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		23.55%	14.09%	5.21%	3.05%	1.01%	5.40%	2.63%	2.62%	0.00%	0.00%	0.00%	0.00%
PHA		#N/A	10.89%	-2.00%	3.63%	-1.25%	7.72%	0.48%	2.50%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		52.86%	-0.31%	-2.86%	-3.59%	-0.31%	4.20%	0.00%	1.85%	0.00%	0.00%	0.00%	0.00%
Hospital/University		#N/A	15.57%	15.05%	15.44%	-14.10%	-7.52%	-12.82%	5.61%	0.00%	0.00%	0.00%	0.00%
Hand Bill		#N/A	12.86%	11.20%	8.51%	-1.47%	2.94%	1.43%	2.94%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		#N/A	5.86%	4.92%	9.07%	3.41%	13.41%	6.83%	6.78%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	9.01%	4.88%	6.30%	2.15%	9.79%	4.84%	5.03%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Customer Account Growth													**Customer - 2A**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		2.53%	5.65%	9.63%	14.87%	9.00%	3.30%	3.30%	1.03%	2.13%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	24.57%	14.87%	14.87%	14.87%	0.00%	-7.79%	0.00%	0.00%	0.00%
Total Senior Citizens		3.71%	6.86%	11.84%	16.00%	9.46%	4.10%	4.10%	0.93%	0.93%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	9.23%	3.93%	-0.13%	0.00%	-0.05%	0.11%	-0.02%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	10.09%	5.44%	6.15%	3.76%	5.99%	2.40%	2.94%	0.00%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	9.60%	4.55%	2.48%	1.63%	2.47%	1.13%	1.28%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	7.95%	3.26%	1.51%	1.12%	1.12%	0.74%	0.55%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	7.03%	5.74%	6.83%	4.06%	6.02%	3.08%	2.62%	0.00%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	7.15%	5.40%	6.11%	3.68%	5.37%	2.78%	2.36%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	8.45%	0.00%	0.00%	0.00%	-5.59%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	4.70%	1.61%	1.53%	0.50%	1.53%	1.01%	1.01%	0.00%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	4.94%	1.49%	1.42%	0.46%	0.93%	0.93%	0.93%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		#N/A	#N/A	#N/A	8.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	8.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.70%	1.03%	2.00%	9.13%	3.87%	0.00%	0.09%	0.03%	0.16%	0.03%	0.00%	0.00%
> 5/8" Meter		38.09%	44.93%	43.00%	8.61%	5.46%	6.31%	3.80%	5.89%	2.65%	2.76%	0.00%	0.00%
Total General Service (excluding SC)		11.75%	13.98%	13.78%	8.84%	4.73%	3.42%	2.17%	3.22%	1.58%	1.58%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.72%	1.08%	2.08%	9.19%	3.93%	0.04%	0.13%	0.04%	0.19%	0.03%	0.00%	0.00%
> 5/8" Meter		38.11%	44.95%	43.04%	8.63%	5.46%	6.32%	3.81%	5.88%	2.63%	2.75%	0.00%	0.00%
Total General Service (including SC)		11.68%	13.92%	13.77%	8.88%	4.76%	3.42%	2.18%	3.20%	1.57%	1.57%	0.00%	0.00%
PHA		0.00%	0.00%	0.00%	0.00%	0.00%	2.46%	0.73%	4.56%	0.29%	1.49%	0.00%	0.00%
Charity and Schools		23.22%	21.95%	23.12%	0.73%	-0.37%	-2.17%	0.92%	2.50%	0.00%	1.11%	0.00%	0.00%
Hospital/University		#N/A	#N/A	#N/A	11.70%	0.45%	0.38%	-5.68%	-4.58%	-7.90%	3.33%	0.00%	0.00%
Hand Bill		#N/A	#N/A	#N/A	7.53%	6.58%	5.92%	0.85%	1.76%	0.85%	1.76%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		#N/A	#N/A	#N/A	5.55%	6.71%	9.61%	6.13%	7.84%	4.04%	4.01%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	#N/A	#N/A	6.79%	5.67%	6.71%	4.31%	5.76%	2.87%	2.99%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Billed Volume Growth													**Customer - 2B**
Annual Growth													
Senior Citizens													
5/8" Meter		21.91%	-13.87%	22.83%	15.85%	1.67%	-0.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-4.69%	-72.13%	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		21.91%	-13.87%	31.79%	14.45%	-2.51%	-2.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		13.68%	5.60%	-0.57%	-2.60%	-8.76%	-5.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-14.50%	12.20%	-5.03%	29.68%	-30.11%	-12.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		5.82%	7.09%	-1.62%	4.75%	-14.78%	-7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		-8.47%	13.62%	3.89%	-7.51%	-9.37%	13.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		15.45%	49.29%	-4.15%	29.23%	-29.23%	95.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		13.58%	47.05%	-3.76%	27.31%	-28.48%	91.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		71.43%	-27.71%	23.92%	19.77%	-59.61%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		36.89%	-49.64%	9.30%	0.10%	180.67%	219.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		37.00%	-49.55%	9.39%	0.23%	178.76%	219.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		10.36%	6.51%	0.12%	-3.23%	-9.06%	-2.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		17.95%	15.50%	-2.39%	24.83%	-3.66%	133.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		16.04%	13.35%	-1.83%	18.41%	-4.67%	109.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		10.43%	6.37%	0.25%	-3.10%	-8.97%	-2.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		17.95%	15.50%	-2.37%	24.82%	-3.67%	133.44%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		16.05%	13.31%	-1.78%	18.41%	-4.67%	108.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		88.62%	47.84%	31.20%	3.78%	-34.48%	116.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		551.99%	-78.68%	-23.49%	-4.45%	-20.52%	21.59%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-15.00%	-17.25%	-9.95%	18.95%	-46.24%	43.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		-3.35%	102.27%	67.34%	-21.49%	-25.03%	-87.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		2.66%	41.64%	-3.54%	-5.64%	2.99%	-98.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		12.19%	43.22%	34.93%	-9.28%	-16.12%	-4.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Billed Volume Growth													**Customer - 2B**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		23.90%	2.47%	2.85%	19.29%	8.53%	0.49%	-0.34%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	#N/A	-48.46%	-100.00%	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		23.90%	2.47%	6.54%	22.82%	5.63%	-2.40%	-1.15%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		25.70%	9.57%	2.47%	-1.59%	-5.73%	-7.07%	-2.71%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		38.08%	-2.06%	3.23%	10.97%	-4.80%	-21.79%	-6.44%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		28.20%	6.45%	2.64%	1.52%	-5.52%	-10.98%	-3.56%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		12.34%	1.98%	8.65%	-1.98%	-8.45%	1.48%	6.60%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		23.79%	31.28%	19.62%	11.30%	-4.37%	17.61%	39.81%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		22.96%	29.24%	18.96%	10.69%	-4.58%	17.04%	38.39%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		54.92%	11.32%	-5.35%	21.83%	-30.45%	-36.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-16.27%	-16.97%	-25.81%	4.60%	67.62%	199.34%	78.68%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-16.15%	-16.86%	-25.71%	4.71%	67.16%	198.21%	78.61%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	9.54%	9.54%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	9.54%	9.54%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		23.77%	8.42%	3.27%	-1.57%	-6.19%	-5.95%	-1.38%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		6.37%	16.72%	6.18%	10.38%	9.66%	49.97%	52.79%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		9.85%	14.69%	5.49%	7.82%	6.25%	41.21%	44.63%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		23.77%	8.38%	3.26%	-1.44%	-6.08%	-5.89%	-1.37%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		6.37%	16.72%	6.19%	10.39%	9.66%	49.96%	52.79%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		9.87%	14.67%	5.49%	7.84%	6.25%	41.15%	44.56%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		#N/A	66.99%	39.27%	16.68%	-17.54%	18.97%	46.97%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		195.21%	17.90%	-59.61%	-14.50%	-12.86%	-1.69%	10.27%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-14.03%	-16.14%	-13.68%	3.49%	-20.03%	-12.26%	19.67%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		15.65%	39.82%	83.98%	14.62%	-23.28%	-68.79%	-63.95%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		7.82%	20.58%	16.89%	-4.60%	-1.42%	-88.89%	-89.05%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		14.98%	26.76%	39.02%	10.64%	-12.77%	-10.27%	-2.03%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Billed Volume Growth													**Customer - 2B**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		2.94%	9.76%	8.85%	7.02%	13.10%	5.37%	0.33%	-0.23%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	-99.99%	-99.99%	-99.98%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		2.94%	9.76%	11.44%	9.12%	13.72%	2.92%	-1.60%	-0.77%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	18.61%	6.08%	0.75%	-4.04%	-5.60%	-4.77%	-1.82%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	28.85%	-3.06%	11.38%	-4.88%	-7.43%	-15.11%	-4.34%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	20.73%	3.69%	3.34%	-4.24%	-6.01%	-7.46%	-2.39%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	12.77%	2.62%	2.97%	-4.50%	-1.61%	0.99%	4.35%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	31.76%	18.21%	22.74%	-4.30%	21.37%	11.42%	25.03%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	30.52%	17.14%	21.68%	-4.31%	20.37%	11.06%	24.18%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	20.16%	15.37%	2.37%	-15.68%	-21.50%	-26.08%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	-29.32%	-9.00%	-18.02%	45.35%	107.78%	107.70%	47.25%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	-29.21%	-8.90%	-17.91%	45.13%	107.34%	107.18%	47.21%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		#N/A	0.00%	0.00%	6.27%	6.27%	6.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	0.00%	0.00%	6.27%	6.27%	6.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.80%	17.73%	5.58%	1.05%	-4.13%	-5.05%	-4.01%	-0.92%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-23.64%	9.33%	9.97%	12.06%	5.49%	41.07%	31.02%	32.66%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-20.23%	11.00%	8.90%	9.63%	3.48%	33.16%	25.87%	27.89%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		-2.76%	17.67%	5.60%	1.10%	-4.02%	-4.97%	-3.97%	-0.91%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-23.64%	9.33%	9.97%	12.07%	5.49%	41.06%	31.01%	32.66%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-20.21%	11.00%	8.90%	9.63%	3.50%	33.12%	25.83%	27.85%	0.00%	0.00%	0.00%	0.00%
PHA		#N/A	#N/A	54.09%	26.26%	-3.73%	13.67%	12.28%	29.27%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		24.75%	22.94%	2.07%	-46.18%	-16.55%	-2.62%	-1.13%	6.73%	0.00%	0.00%	0.00%	0.00%
Hospital/University		#N/A	-15.12%	-14.12%	-3.94%	-16.80%	-2.89%	-8.35%	12.72%	0.00%	0.00%	0.00%	0.00%
Hand Bill		#N/A	39.34%	48.45%	38.51%	-0.50%	-57.55%	-53.99%	-49.35%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		#N/A	18.09%	11.94%	8.84%	-2.13%	-77.33%	-76.89%	-77.12%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-0.26%	23.71%	29.43%	20.58%	0.88%	-9.94%	-6.97%	-1.36%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water Only Billed Volume Growth													**Customer - 2B**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		-4.80%	-2.35%	2.91%	13.47%	8.72%	4.36%	7.52%	3.19%	0.20%	-0.14%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	-99.56%	-99.56%	-99.43%	0.00%	0.00%
Total Senior Citizens		-4.80%	-2.35%	4.37%	14.81%	9.08%	4.36%	7.52%	1.74%	-0.97%	-0.46%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	10.07%	1.19%	-2.45%	-3.51%	-3.40%	-2.89%	-1.09%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	21.38%	-3.76%	-3.31%	-5.51%	-4.53%	-9.36%	-2.63%	0.00%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	12.65%	-0.09%	-2.64%	-3.97%	-3.65%	-4.54%	-1.44%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	6.62%	-1.96%	2.37%	-0.21%	-0.97%	0.59%	2.59%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	23.16%	8.60%	20.66%	11.37%	12.32%	6.70%	14.34%	0.00%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	22.19%	7.92%	19.80%	10.91%	11.76%	6.50%	13.88%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	20.82%	-5.77%	-15.40%	-9.73%	-13.52%	-16.58%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-17.32%	16.18%	37.63%	57.86%	55.08%	55.05%	26.13%	0.00%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	-17.21%	16.13%	37.52%	57.69%	54.89%	54.81%	26.11%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		#N/A	#N/A	#N/A	3.71%	3.71%	3.71%	3.71%	3.71%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	3.71%	3.71%	3.71%	3.71%	3.71%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.50%	1.79%	-0.42%	9.59%	0.70%	-1.81%	-3.04%	-3.06%	-2.42%	-0.55%	0.00%	0.00%
> 5/8" Meter		-16.92%	-8.41%	-12.88%	9.75%	9.84%	25.92%	22.34%	22.93%	17.60%	18.48%	0.00%	0.00%
Total General Service (excluding SC)		-14.55%	-6.63%	-10.80%	9.72%	7.83%	21.31%	18.31%	18.75%	14.80%	15.90%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		-2.52%	1.76%	-0.40%	9.62%	0.76%	-1.76%	-2.97%	-3.01%	-2.40%	-0.55%	0.00%	0.00%
> 5/8" Meter		-16.92%	-8.41%	-12.88%	9.75%	9.85%	25.92%	22.34%	22.93%	17.60%	18.48%	0.00%	0.00%
Total General Service (including SC)		-14.54%	-6.62%	-10.78%	9.73%	7.83%	21.29%	18.30%	18.73%	14.78%	15.88%	0.00%	0.00%
PHA		#N/A	#N/A	#N/A	#N/A	20.00%	23.29%	14.02%	7.99%	7.20%	16.65%	0.00%	0.00%
Charity and Schools		-4.31%	1.48%	-20.55%	6.32%	-4.18%	-31.52%	-6.71%	-1.58%	-0.68%	3.99%	0.00%	0.00%
Hospital/University		#N/A	#N/A	#N/A	-8.11%	-16.54%	-7.36%	-3.78%	-1.74%	-5.10%	7.45%	0.00%	0.00%
Hand Bill		#N/A	#N/A	#N/A	28.87%	14.00%	-23.68%	-33.71%	-40.20%	-37.23%	-33.51%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		#N/A	#N/A	#N/A	8.43%	6.39%	-56.32%	-59.25%	-58.96%	-58.48%	-58.72%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-2.99%	12.25%	13.91%	18.31%	10.53%	7.14%	-0.29%	-6.09%	-4.24%	-0.82%	0.00%	0.00%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume (Mcf)													**Customer - 3**
Senior Citizens													
5/8" Meter		109,915	115,925	117,758	119,552	123,485	129,938	125,511	122,930	120,584	118,238	115,892	113,546
> 5/8" Meter		48	28	31	33	52	51	59	59	59	59	59	59
Total Senior Citizens		109,963	115,954	117,789	119,585	123,537	129,989	125,570	122,989	120,643	118,297	115,951	113,605
General Service (Residential)													
5/8" Meter		2,901,905	2,864,109	2,794,005	2,773,962	2,740,574	2,656,052	2,625,611	2,571,858	2,522,240	2,472,622	2,423,005	2,373,387
> 5/8" Meter		366,322	356,604	352,830	361,200	358,904	358,036	386,409	386,409	386,409	386,409	386,409	386,409
Total General Service (Residential)		3,268,227	3,220,713	3,146,835	3,135,162	3,099,478	3,014,087	3,012,019	2,958,267	2,908,649	2,859,031	2,809,413	2,759,795
General Service (Commercial)													
5/8" Meter		319,577	329,723	318,358	310,172	306,974	296,856	295,210	289,300	283,390	277,762	272,133	266,786
> 5/8" Meter		1,132,777	1,218,360	1,215,869	1,227,357	1,261,109	1,261,706	1,285,157	1,285,157	1,285,157	1,285,157	1,285,157	1,285,157
Total General Service (Commercial)		1,452,354	1,548,083	1,534,227	1,537,529	1,568,082	1,558,562	1,580,366	1,574,457	1,568,547	1,562,918	1,557,290	1,551,943
General Service (Industrial)													
5/8" Meter		5,758	6,221	5,908	6,039	6,487	6,687	6,399	6,271	6,147	6,024	5,906	5,788
> 5/8" Meter		90,318	84,463	91,021	86,068	90,264	148,137	119,202	119,202	119,202	119,202	119,202	119,202
Total General Service (Industrial)		96,076	90,683	96,929	92,107	96,751	154,824	125,601	125,472	125,349	125,226	125,107	124,989
General Service (Public Utilities)													
5/8" Meter		424	394	476	589	736	621	708	694	680	667	653	640
> 5/8" Meter		8,085	10,318	10,508	12,954	8,886	8,308	8,597	8,597	8,597	8,597	8,597	8,597
Total General Service (Public Utilities)		8,508	10,712	10,984	13,542	9,622	8,929	9,305	9,291	9,277	9,264	9,251	9,237
General Service (Excluding Senior Citizens)													
5/8" Meter		3,227,663	3,200,447	3,118,747	3,090,762	3,054,771	2,960,215	2,927,928	2,868,123	2,812,458	2,757,075	2,701,697	2,646,601
> 5/8" Meter		1,597,502	1,669,745	1,670,228	1,687,578	1,719,162	1,776,187	1,799,364	1,799,364	1,799,364	1,799,364	1,799,364	1,799,364
Total General Service (excluding SC)		4,825,166	4,870,192	4,788,975	4,778,340	4,773,933	4,736,402	4,727,292	4,667,487	4,611,822	4,556,439	4,501,061	4,445,965
General Service (Including Senior Citizens)													
5/8" Meter		3,337,578	3,316,372	3,236,505	3,210,314	3,178,256	3,090,153	3,053,439	2,991,053	2,933,042	2,875,313	2,817,589	2,760,147
> 5/8" Meter		1,597,550	1,669,773	1,670,259	1,687,611	1,719,214	1,776,238	1,799,423	1,799,423	1,799,423	1,799,423	1,799,423	1,799,423
Total General Service (including SC)		4,935,129	4,986,145	4,906,764	4,897,925	4,897,470	4,866,391	4,852,862	4,790,476	4,732,465	4,674,736	4,617,012	4,559,570

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume (Mcf)													**Customer - 3**
PHA		165,984	178,327	163,222	158,256	158,068	157,347	157,269	157,269	157,269	157,269	157,269	157,269
Charities & Schools		217,250	192,057	179,950	177,712	161,720	157,659	157,164	157,164	157,164	157,164	157,164	157,164
Hospital/University		262,373	272,764	300,850	301,488	252,658	286,455	289,770	289,770	289,770	289,770	289,770	289,770
Hand Bill		562,496	573,950	573,219	544,850	470,231	428,623	449,426	449,426	449,426	449,426	449,426	449,426
Scheduled		22	21	16	14	13	13	11	11	11	11	11	11
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		9,277	11,569	14,981	14,430	15,880	8,487	13,900	13,900	13,900	13,900	13,900	13,900
Fire Hydrants		-	-	-	-	-	-	-	-	-	-	-	-
Total		6,152,531	6,214,832	6,139,002	6,094,673	5,956,039	5,904,975	5,920,402	5,858,016	5,800,005	5,742,276	5,684,553	5,627,110
Annnual Change		-2.66%	1.01%	-1.22%	-0.72%	-2.27%	-0.86%	0.26%	-1.05%	-0.99%	-1.00%	-1.01%	-1.01%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume Per Account (Mcf/Account)													**Customer - 4**
Senior Citizens													
5/8" Meter	Volume - Small Decrease	5.63	5.74	5.51	5.35	5.37	5.54	5.35	5.24	5.14	5.04	4.94	4.84
> 5/8" Meter	Volume - No Growth	9.60	7.05	6.20	4.64	7.37	5.71	6.54	6.54	6.54	6.54	6.54	6.54
Total Senior Citizens		5.63	5.74	5.51	5.35	5.37	5.54	5.35	5.24	5.14	5.04	4.94	4.84
General Service (Residential)			0.3%	-4.1%	-1.0%	-2.8%	-1.8%	-1.1%	-2.0%				
5/8" Meter	Volume - Small Decrease	7.07	7.09	6.80	6.73	6.54	6.42	6.35	6.22	6.10	5.98	5.86	5.74
> 5/8" Meter	Volume - No Growth with	85.93	73.88	63.87	54.15	46.68	40.30	43.49	43.49	43.49	43.49	43.49	43.49
Total General Service (Residential)		7.88	7.88	7.56	7.49	7.27	7.14	7.13	7.00	6.89	6.77	6.65	6.53
						134.11	*131.65*	*130.14*	*127.48*	*125.02*	*122.56*	*120.10*	*117.64*
General Service (Commercial)													
5/8" Meter	Volume - Small Decrease	11.33	11.73	11.31	11.03	10.87	10.55	10.49	10.28	10.07	9.87	9.67	9.48
> 5/8" Meter	Volume - No Growth with	159.05	165.22	162.64	156.57	152.07	146.62	149.35	149.35	149.35	149.35	149.35	149.35
Total General Service (Commercial)		41.11	43.62	43.06	42.74	42.92	42.41	43.01	42.85	42.69	42.53	42.38	42.23
General Service (Industrial)													
5/8" Meter	Volume - Small Decrease	10.72	11.74	11.19	11.46	12.40	13.01	12.45	12.20	11.96	11.72	11.49	11.26
> 5/8" Meter	Volume - No Growth with	163.92	153.57	166.71	158.21	164.12	269.34	216.73	216.73	216.73	216.73	216.73	216.73
Total General Service (Industrial)		88.31	83.97	90.25	86.00	90.17	145.51	118.05	117.93	117.81	117.69	117.58	117.47
General Service (Public Utilities)													
5/8" Meter	Volume - Small Decrease	11.45	8.96	9.92	10.15	11.15	8.39	9.57	9.38	9.19	9.01	8.83	8.65
> 5/8" Meter	Volume - No Growth	98.59	124.31	116.76	133.54	89.75	83.92	86.84	86.84	86.84	86.84	86.84	86.84
Total General Service (Public Utilities)		71.50	84.35	79.59	87.37	58.31	51.61	53.79	53.71	53.63	53.55	53.47	53.39
General Service (Excluding Senior Citizens)						-2.7%	-1.9%	-1.1%	-2.0%	-1.9%	-2.0%	-2.0%	
5/8" Meter		7.35	7.40	7.09	7.01	6.82	6.69	6.62	6.49	6.36	6.23	6.11	5.98
> 5/8" Meter		132.93	130.10	122.49	111.39	103.38	97.92	99.20	99.20	99.20	99.20	99.20	99.20
Total General Service (excluding SC)		10.69	10.93	10.57	10.48	10.28	10.29	10.27	10.14	10.02	9.90	9.78	9.66
General Service (Including Senior Citizens)									-2.1%				
5/8" Meter		7.27	7.32	7.02	6.93	6.75	6.64	6.56	6.42	6.30	6.17	6.05	5.93
> 5/8" Meter		132.87	130.06	122.44	111.34	103.34	97.88	99.15	99.15	99.15	99.15	99.15	99.15
Total General Service (including SC)		10.48	10.71	10.34	10.24	10.05	10.06	10.03	9.90	9.78	9.66	9.54	9.42
PHA	Volume - No Growth	27.75	30.25	28.48	26.67	26.74	26.77	26.76	26.76	26.76	26.76	26.76	26.76
Charities & Schools	Volume - No Growth	79.55	73.67	71.32	72.95	72.42	72.89	72.66	72.66	72.66	72.66	72.66	72.66
Hospital/University	Volume - No Growth	614.46	543.35	610.24	590.00	721.88	705.56	713.72	713.72	713.72	713.72	713.72	713.72
Hand Bill	Volume - No Growth	2,068.00	2,125.74	2,171.28	2,136.67	1,951.17	1,778.52	1,864.84	1,864.84	1,864.84	1,864.84	1,864.84	1,864.84
Scheduled	Volume - No Growth	11.00	10.35	5.33	3.40	3.30	4.17	3.73	3.73	3.73	3.73	3.73	3.73
xxxxxxxxxx	Volume - No Growth	-	-	-	#N/A	#N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xxxxxxxxxx	Volume - No Growth	-	-	-	#N/A	#N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fire Service	Volume - No Growth	2.64	2.82	3.95	3.18	3.48	1.53	2.51	2.51	2.51	2.51	2.51	2.51
Fire Hydrants	Volume - No Growth	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		12.08	12.32	11.97	11.78	11.32	11.28	11.31	11.19	11.08	10.97	10.86	10.75

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume Per Account Growth													**Customer - 4A**
Annual Growth													
Senior Citizens													
5/8" Meter		-1.57%	1.97%	-4.10%	-2.93%	0.46%	3.14%	-3.41%	-2.06%	-1.91%	-1.95%	-1.98%	-2.02%
> 5/8" Meter		-33.79%	-26.56%	-12.06%	-25.12%	58.77%	-22.52%	14.51%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		-1.75%	1.95%	-4.10%	-2.94%	0.48%	3.12%	-3.40%	-2.06%	-1.91%	-1.94%	-1.98%	-2.02%
General Service (Residential)													
5/8" Meter		-3.94%	0.30%	-4.08%	-0.97%	-2.84%	-1.83%	-1.15%	-2.05%	-1.93%	-1.97%	-2.01%	-2.05%
> 5/8" Meter		-18.70%	-14.03%	-13.54%	-15.22%	-13.79%	-13.68%	7.92%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-4.02%	-0.01%	-4.07%	-0.89%	-2.98%	-1.80%	-0.07%	-1.78%	-1.68%	-1.71%	-1.74%	-1.77%
General Service (Commercial)													
5/8" Meter		-3.33%	3.49%	-3.56%	-2.51%	-1.43%	-2.94%	-0.55%	-2.00%	-2.04%	-1.99%	-2.03%	-1.96%
> 5/8" Meter		-8.18%	3.88%	-1.57%	-3.73%	-2.88%	-3.58%	1.86%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-4.79%	6.10%	-1.27%	-0.75%	0.40%	-1.17%	1.40%	-0.37%	-0.38%	-0.36%	-0.36%	-0.34%
General Service (Industrial)													
5/8" Meter		-0.09%	9.46%	-4.66%	2.41%	8.24%	4.90%	-4.31%	-2.01%	-1.97%	-2.01%	-1.96%	-2.00%
> 5/8" Meter		-2.87%	-6.31%	8.55%	-5.09%	3.73%	64.12%	-19.53%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		0.78%	-4.91%	7.48%	-4.71%	4.85%	61.38%	-18.88%	-0.10%	-0.10%	-0.10%	-0.09%	-0.09%
General Service (Public Utilities)													
5/8" Meter		-15.81%	-21.69%	10.63%	2.34%	9.90%	-24.81%	14.11%	-1.99%	-2.03%	-1.96%	-2.00%	-2.04%
> 5/8" Meter		-13.89%	26.09%	-6.08%	14.38%	-32.79%	-6.50%	3.48%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		-13.57%	17.98%	-5.64%	9.77%	-33.26%	-11.50%	4.22%	-0.15%	-0.15%	-0.14%	-0.14%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-3.67%	0.68%	-4.08%	-1.13%	-2.72%	-1.90%	-1.09%	-2.04%	-1.94%	-1.97%	-2.01%	-2.04%
> 5/8" Meter		-11.55%	-2.12%	-5.85%	-9.06%	-7.19%	-5.28%	1.30%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-3.52%	2.25%	-3.34%	-0.78%	-1.92%	0.06%	-0.19%	-1.27%	-1.19%	-1.20%	-1.22%	-1.22%
General Service (Including Senior Citizens)													
5/8" Meter		-3.71%	0.69%	-4.10%	-1.28%	-2.60%	-1.63%	-1.20%	-2.13%	-1.87%	-2.06%	-1.94%	-1.98%
> 5/8" Meter		-11.56%	-2.11%	-5.86%	-9.07%	-7.19%	-5.28%	1.30%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-3.50%	2.15%	-3.44%	-0.92%	-1.89%	0.08%	-0.28%	-1.29%	-1.21%	-1.22%	-1.23%	-1.24%
PHA		0.11%	8.99%	-5.84%	-6.36%	0.27%	0.12%	-0.05%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-0.65%	-7.39%	-3.18%	2.28%	-0.73%	0.64%	-0.31%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-4.06%	-11.57%	12.31%	-3.32%	22.35%	-2.26%	1.16%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		-3.64%	2.79%	2.14%	-1.59%	-8.68%	-8.85%	4.85%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		41.03%	-5.91%	-48.47%	-36.25%	-2.94%	26.26%	-10.48%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-45.45%	6.68%	39.97%	-19.46%	9.54%	-55.97%	63.78%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-3.05%	1.95%	-2.82%	-1.58%	-3.90%	-0.38%	0.26%	-1.05%	-0.99%	-1.00%	-1.01%	-1.01%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume Per Account Growth													**Customer - 4A**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		0.73%	0.17%	-1.11%	-3.52%	-1.25%	1.79%	-0.19%	-2.73%	-1.98%	-1.93%	-1.96%	-2.00%
> 5/8" Meter		-17.34%	-30.27%	-19.64%	-18.85%	9.04%	10.91%	-5.81%	7.01%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		0.73%	0.15%	-1.12%	-3.52%	-1.24%	1.79%	-0.19%	-2.73%	-1.98%	-1.93%	-1.96%	-2.00%
General Service (Residential)													
5/8" Meter		-0.55%	-1.82%	-1.91%	-2.54%	-1.91%	-2.34%	-1.49%	-1.60%	-1.99%	-1.95%	-1.99%	-2.03%
> 5/8" Meter		-12.32%	-16.40%	-13.79%	-14.38%	-14.51%	-13.74%	-3.48%	3.89%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-0.72%	-2.02%	-2.06%	-2.49%	-1.94%	-2.39%	-0.94%	-0.93%	-1.73%	-1.69%	-1.72%	-1.75%
General Service (Commercial)													
5/8" Meter		-0.48%	0.05%	-0.10%	-3.04%	-1.97%	-2.19%	-1.75%	-1.28%	-2.02%	-2.01%	-2.01%	-2.00%
> 5/8" Meter		-2.86%	-2.33%	1.12%	-2.65%	-3.30%	-3.23%	-0.90%	0.93%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-1.10%	0.51%	2.35%	-1.01%	-0.17%	-0.39%	0.11%	0.51%	-0.37%	-0.37%	-0.36%	-0.35%
General Service (Industrial)													
5/8" Meter		0.43%	4.59%	2.16%	-1.19%	5.28%	6.55%	0.19%	-3.16%	-1.99%	-1.99%	-1.98%	-1.98%
> 5/8" Meter		-4.94%	-4.61%	0.85%	1.50%	-0.78%	30.48%	14.92%	-10.30%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-4.45%	-2.11%	1.10%	1.20%	-0.05%	30.08%	14.42%	-9.98%	-0.10%	-0.10%	-0.10%	-0.09%
General Service (Public Utilities)													
5/8" Meter		-3.36%	-18.82%	-6.92%	6.40%	6.05%	-9.09%	-7.37%	5.76%	-2.01%	-1.99%	-1.98%	-2.02%
> 5/8" Meter		-0.96%	4.20%	8.82%	3.65%	-12.32%	-20.73%	-1.64%	1.73%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		1.14%	0.98%	5.51%	1.77%	-14.41%	-23.14%	-3.96%	2.01%	-0.15%	-0.15%	-0.14%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-0.47%	-1.52%	-1.73%	-2.62%	-1.93%	-2.31%	-1.50%	-1.57%	-1.99%	-1.96%	-1.99%	-2.02%
> 5/8" Meter		-6.07%	-6.96%	-4.01%	-7.47%	-8.13%	-6.24%	-2.04%	0.65%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-0.33%	-0.66%	-0.58%	-2.07%	-1.35%	-0.94%	-0.07%	-0.73%	-1.23%	-1.20%	-1.21%	-1.22%
General Service (Including Senior Citizens)													
5/8" Meter		-0.48%	-1.53%	-1.73%	-2.70%	-1.94%	-2.11%	-1.42%	-1.67%	-2.00%	-1.97%	-2.00%	-1.96%
> 5/8" Meter		-6.07%	-6.95%	-4.01%	-7.48%	-8.13%	-6.24%	-2.05%	0.65%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-0.35%	-0.70%	-0.68%	-2.18%	-1.40%	-0.91%	-0.10%	-0.78%	-1.25%	-1.22%	-1.23%	-1.24%
PHA		-1.65%	4.45%	1.30%	-6.10%	-3.10%	0.19%	0.03%	-0.02%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		0.54%	-4.08%	-5.31%	-0.49%	0.77%	-0.04%	0.16%	-0.16%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-5.11%	-7.89%	-0.34%	4.20%	8.76%	9.36%	-0.57%	0.58%	0.00%	0.00%	0.00%	0.00%
Hand Bill		1.93%	-0.47%	2.47%	0.26%	-5.20%	-8.77%	-2.24%	2.40%	0.00%	0.00%	0.00%	0.00%
Scheduled		38.31%	15.19%	-30.37%	-42.68%	-21.34%	10.70%	6.32%	-5.38%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-24.61%	-23.65%	22.20%	6.17%	-6.07%	-30.55%	-15.08%	27.98%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-0.38%	-0.58%	-0.46%	-2.20%	-2.75%	-2.16%	-0.06%	-0.40%	-1.02%	-0.99%	-1.00%	-1.01%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume Per Account Growth													**Customer - 4A**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		-0.82%	1.13%	-1.24%	-1.72%	-2.21%	0.19%	0.03%	-0.82%	-2.46%	-1.97%	-1.95%	-1.98%
> 5/8" Meter		-15.66%	-20.54%	-24.66%	-21.51%	1.50%	-2.70%	12.10%	-3.91%	4.62%	0.00%	0.00%	0.00%
Total Senior Citizens		-0.82%	1.13%	-1.30%	-1.73%	-2.21%	0.19%	0.03%	-0.82%	-2.46%	-1.97%	-1.95%	-1.98%
General Service (Residential)													
5/8" Meter		#N/A	-0.28%	-2.60%	-1.60%	-2.64%	-1.88%	-1.94%	-1.68%	-1.71%	-1.98%	-1.97%	-2.01%
> 5/8" Meter		#N/A	-12.89%	-15.46%	-14.27%	-14.19%	-14.23%	-7.05%	-2.33%	2.57%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	-0.46%	-2.71%	-1.67%	-2.65%	-1.90%	-1.62%	-1.22%	-1.18%	-1.72%	-1.71%	-1.74%
General Service (Commercial)													
5/8" Meter		#N/A	0.84%	-1.18%	-0.91%	-2.50%	-2.29%	-1.65%	-1.84%	-1.54%	-2.01%	-2.02%	-1.99%
> 5/8" Meter		#N/A	-0.66%	-2.08%	-0.52%	-2.73%	-3.40%	-1.56%	-0.60%	0.62%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	1.25%	-0.09%	1.31%	-0.54%	-0.51%	0.21%	-0.05%	0.21%	-0.37%	-0.36%	-0.35%
General Service (Industrial)													
5/8" Meter		#N/A	3.37%	1.41%	2.24%	1.86%	5.15%	2.80%	-0.55%	-2.77%	-1.99%	-1.98%	-1.99%
> 5/8" Meter		#N/A	-5.40%	-0.41%	-1.17%	2.24%	17.34%	11.06%	9.71%	-6.99%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	-4.60%	0.99%	-0.88%	2.40%	17.26%	11.13%	9.36%	-6.80%	-0.10%	-0.10%	-0.10%
General Service (Public Utilities)													
5/8" Meter		#N/A	-9.92%	-9.98%	-3.93%	7.56%	-5.43%	-1.94%	-5.61%	3.10%	-1.99%	-1.99%	-2.00%
> 5/8" Meter		#N/A	7.34%	0.66%	10.64%	-10.29%	-10.42%	-13.36%	-1.09%	1.15%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	6.47%	-1.28%	6.91%	-11.58%	-13.45%	-14.93%	-2.71%	1.28%	-0.15%	-0.15%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.62%	-0.09%	-2.42%	-1.53%	-2.65%	-1.92%	-1.91%	-1.68%	-1.69%	-1.98%	-1.97%	-2.01%
> 5/8" Meter		-14.87%	-4.77%	-6.59%	-5.72%	-7.38%	-7.19%	-3.79%	-1.37%	0.43%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-5.63%	0.52%	-1.56%	-0.65%	-2.02%	-0.89%	-0.69%	-0.47%	-0.88%	-1.22%	-1.20%	-1.21%
General Service (Including Senior Citizens)													
5/8" Meter		-2.61%	-0.09%	-2.40%	-1.58%	-2.67%	-1.84%	-1.81%	-1.66%	-1.74%	-2.02%	-1.96%	-2.00%
> 5/8" Meter		-14.88%	-4.77%	-6.59%	-5.72%	-7.38%	-7.19%	-3.79%	-1.37%	0.43%	0.00%	0.00%	0.00%
Total General Service (including SC)		-5.55%	0.50%	-1.62%	-0.76%	-2.09%	-0.91%	-0.70%	-0.50%	-0.93%	-1.24%	-1.22%	-1.23%
PHA		-3.20%	1.78%	0.91%	-1.32%	-4.02%	-2.04%	0.11%	0.02%	-0.02%	0.00%	0.00%	0.00%
Charity and Schools		-21.48%	-2.17%	-3.78%	-2.84%	-0.57%	0.73%	-0.13%	0.11%	-0.10%	0.00%	0.00%	0.00%
Hospital/University		#N/A	-7.31%	-1.60%	-1.34%	9.93%	4.96%	6.55%	-0.38%	0.38%	0.00%	0.00%	0.00%
Hand Bill		#N/A	2.22%	0.39%	1.09%	-2.82%	-6.43%	-4.43%	-1.50%	1.59%	0.00%	0.00%	0.00%
Scheduled		#N/A	21.64%	-11.92%	-32.39%	-31.68%	-7.90%	3.14%	4.17%	-3.62%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		19.94%	-15.36%	-6.55%	6.34%	7.28%	-27.04%	-7.56%	-10.33%	17.87%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	0.38%	-1.33%	-0.84%	-2.77%	-1.96%	-1.36%	-0.39%	-0.60%	-1.01%	-1.00%	-1.00%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Billed Volume Per Account Growth													**Customer - 4A**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		-0.63%	0.18%	-0.92%	-0.73%	-1.25%	-0.33%	-1.41%	-0.99%	-0.78%	-1.26%	-2.26%	-1.98%
> 5/8" Meter		-9.14%	-17.64%	-17.27%	-19.87%	-12.66%	-9.87%	-1.49%	1.07%	7.09%	-2.37%	2.75%	0.00%
Total Senior Citizens		-0.63%	0.18%	-0.92%	-0.73%	-1.29%	-0.33%	-1.40%	-0.99%	-0.78%	-1.26%	-2.26%	-1.98%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	-1.20%	-2.33%	-1.89%	-2.18%	-1.77%	-1.96%	-1.79%	-1.82%	-2.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-13.49%	-15.08%	-14.05%	-10.06%	-7.40%	-4.29%	-1.41%	1.54%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	-1.28%	-2.40%	-1.96%	-1.97%	-1.51%	-1.67%	-1.41%	-1.40%	-1.73%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	-0.73%	-1.49%	-1.42%	-2.20%	-1.89%	-1.80%	-1.91%	-1.72%	-2.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-1.46%	-2.57%	-1.61%	-2.00%	-1.69%	-0.94%	-0.36%	0.37%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	0.34%	-0.12%	0.63%	-0.28%	-0.10%	-0.03%	-0.18%	-0.02%	-0.36%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	1.52%	2.94%	3.94%	1.19%	1.74%	0.86%	-1.13%	-2.45%	-1.99%
> 5/8" Meter		#N/A	#N/A	#N/A	-2.70%	-0.56%	10.44%	7.13%	5.39%	6.50%	5.72%	-4.25%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	-2.32%	0.57%	10.51%	7.05%	5.49%	6.50%	5.47%	-4.17%	-0.10%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	-3.71%	-3.89%	-6.03%	1.32%	-1.11%	-1.96%	-4.18%	1.04%	-2.00%
> 5/8" Meter		#N/A	#N/A	#N/A	5.85%	-4.75%	-3.17%	-6.92%	-5.75%	-8.25%	-0.66%	0.69%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	4.57%	-6.76%	-6.31%	-8.61%	-7.57%	-9.30%	-1.69%	0.71%	-0.15%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.89%	-1.57%	-2.29%	-1.13%	-2.22%	-1.84%	-2.19%	-1.78%	-1.94%	-1.79%	-1.81%	-2.00%
> 5/8" Meter		-10.33%	-9.87%	-10.68%	-5.86%	-7.21%	-5.93%	-5.28%	-4.13%	-2.29%	-0.82%	0.26%	0.00%
Total General Service (excluding SC)		-4.76%	-3.20%	-3.64%	-0.53%	-1.49%	-0.76%	-1.24%	-0.82%	-0.91%	-0.76%	-1.01%	-1.22%
General Service (Including Senior Citizens)													
5/8" Meter		-2.85%	-1.54%	-2.26%	-1.14%	-2.22%	-1.80%	-2.17%	-1.77%	-1.89%	-1.78%	-1.84%	-2.00%
> 5/8" Meter		-10.33%	-9.87%	-10.69%	-5.86%	-7.21%	-5.93%	-5.28%	-4.13%	-2.29%	-0.82%	0.26%	0.00%
Total General Service (including SC)		-4.68%	-3.15%	-3.63%	-0.59%	-1.54%	-0.82%	-1.30%	-0.86%	-0.92%	-0.79%	-1.05%	-1.24%
PHA		-3.41%	-0.54%	-1.42%	-1.45%	-0.72%	-0.72%	-2.42%	-1.24%	0.07%	0.01%	-0.01%	0.00%
Charity and Schools		-14.69%	-13.70%	-15.37%	-1.50%	-1.99%	-1.73%	-0.28%	0.37%	-0.08%	0.07%	-0.06%	0.00%
Hospital/University		#N/A	#N/A	#N/A	-2.87%	2.42%	2.80%	5.61%	3.18%	3.88%	-0.23%	0.23%	0.00%
Hand Bill		#N/A	#N/A	#N/A	1.43%	-1.89%	-2.97%	-2.58%	-3.00%	-2.68%	-0.90%	0.95%	0.00%
Scheduled		#N/A	#N/A	#N/A	-9.98%	-15.81%	-17.65%	-18.46%	-6.90%	1.87%	2.48%	-2.19%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		33.18%	-0.56%	20.89%	-7.32%	-6.38%	-10.32%	-2.29%	-8.65%	-4.61%	-6.33%	10.37%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	#N/A	#N/A	-0.67%	-1.90%	-1.37%	-1.70%	-1.34%	-1.22%	-0.63%	-0.76%	-1.01%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Existing Rates													**Customer - 5**
Actual Rate													
Service Charge ($/bill)													
5/8"		$ 6.44	$ 6.46	$ 6.46	$ 6.58	$ 6.61	$ 5.12	$ 5.21	$ 5.21	$ 5.21	$ 5.21	$ 5.21	$ 5.21
3/4"		7.47	7.49	7.49	7.54	7.59	5.47	5.55	5.55	5.55	5.55	5.55	5.55
1"		9.97	9.98	9.98	9.90	10.02	6.62	6.70	6.70	6.70	6.70	6.70	6.70
1 1/4"		13.08	13.10	13.10	12.85	13.03	7.98	8.05	8.05	8.05	8.05	8.05	8.05
1 1/2"		15.56	15.56	15.56	15.13	15.38	8.83	8.88	8.88	8.88	8.88	8.88	8.88
2"		23.06	23.05	23.05	22.25	22.66	12.26	12.32	12.32	12.32	12.32	12.32	12.32
3"		39.69	39.64	39.64	37.91	38.70	19.39	19.44	19.44	19.44	19.44	19.44	19.44
4"		69.05	69.00	69.00	66.31	67.61	35.27	35.39	35.39	35.39	35.39	35.39	35.39
6"		133.73	133.60	133.60	127.93	130.56	66.12	66.29	66.29	66.29	66.29	66.29	66.29
8"		208.72	208.47	208.47	199.07	203.32	100.48	100.66	100.66	100.66	100.66	100.66	100.66
10"		302.78	302.43	302.43	289.09	295.18	147.20	147.50	147.50	147.50	147.50	147.50	147.50
12"		530.87	530.00	530.00	502.82	514.45	239.66	239.52	239.52	239.52	239.52	239.52	239.52
14"		-	-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)													
0 - 2 Mcf		37.12	39.05	39.05	41.11	43.08	45.52	44.80	44.80	44.80	44.80	44.80	44.80
2 - 100 Mcf		30.20	31.54	31.54	35.91	37.67	39.21	38.56	38.56	38.56	38.56	38.56	38.56
100 - 2,000 Mcf		27.56	28.95	28.95	27.93	29.31	30.54	29.88	29.88	29.88	29.88	29.88	29.88
Over 2,000 Mcf		20.93	21.98	21.98	27.14	28.51	29.72	29.06	29.06	29.06	29.06	29.06	29.06
Private Fire Charge ($/bill)													
5/8"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
3/4"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
1"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
1 1/4"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
1 1/2"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
2"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
3"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
4"		23.66	23.79	23.79	25.41	25.63	27.30	27.63	27.63	27.63	27.63	27.63	27.63
6"		43.11	43.35	43.35	46.33	46.80	50.19	50.74	50.74	50.74	50.74	50.74	50.74
8"		63.93	64.27	64.27	68.73	69.52	74.98	75.77	75.77	75.77	75.77	75.77	75.77
10"		94.51	95.03	95.03	101.61	102.72	110.55	111.74	111.74	111.74	111.74	111.74	111.74
12"		142.90	143.61	143.61	153.78	156.11	171.15	172.64	172.64	172.64	172.64	172.64	172.64
14"		-	-	-	-	-	-	-	-	-	-	-	-
Public Fire Charge (Annual Charge)		7,874,000	8,162,000	8,162,000	7,617,000	7,866,000	9,300,000	9,235,000	9,235,000	9,235,000	9,235,000	9,235,000	9,235,000

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Existing Rates													**Customer - 5**
Effective Rate													
Effective Months													
Service Charge		12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Volume Charge		11.50	11.50	11.50	11.50	11.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
Service Charge													
5/8"		6.44	6.46	6.46	6.58	6.61	5.37	5.20	5.21	5.21	5.21	5.21	5.21
3/4"		7.47	7.49	7.49	7.54	7.59	5.82	5.54	5.55	5.55	5.55	5.55	5.55
1"		9.97	9.98	9.98	9.90	10.02	7.19	6.69	6.70	6.70	6.70	6.70	6.70
1 1/4"		13.08	13.10	13.10	12.85	13.03	8.82	8.04	8.05	8.05	8.05	8.05	8.05
1 1/2"		15.56	15.56	15.56	15.13	15.38	9.92	8.87	8.88	8.88	8.88	8.88	8.88
2"		23.06	23.05	23.05	22.25	22.66	13.99	12.31	12.32	12.32	12.32	12.32	12.32
3"		39.69	39.64	39.64	37.91	38.70	22.61	19.43	19.44	19.44	19.44	19.44	19.44
4"		69.05	69.00	69.00	66.31	67.61	40.66	35.37	35.39	35.39	35.39	35.39	35.39
6"		133.73	133.60	133.60	127.93	130.56	76.86	66.26	66.29	66.29	66.29	66.29	66.29
8"		208.72	208.47	208.47	199.07	203.32	117.62	100.63	100.66	100.66	100.66	100.66	100.66
10"		302.78	302.43	302.43	289.09	295.18	171.86	147.45	147.50	147.50	147.50	147.50	147.50
12"		530.87	530.00	530.00	502.82	514.45	285.46	239.54	239.52	239.52	239.52	239.52	239.52
14"		-	-	-	-	-	-	-	-	-	-	-	-
Volume Charge													
0 - 2 Mcf		37.20	38.97	39.05	41.02	43.00	45.01	44.95	44.80	44.80	44.80	44.80	44.80
2 - 100 Mcf		30.26	31.48	31.54	35.73	37.60	38.89	38.70	38.56	38.56	38.56	38.56	38.56
100 - 2,000 Mcf		27.62	28.89	28.95	27.97	29.25	30.28	30.02	29.88	29.88	29.88	29.88	29.88
Over 2,000 Mcf		20.97	21.94	21.98	26.93	28.45	29.47	29.20	29.06	29.06	29.06	29.06	29.06
Private Fire Charge													
5/8"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
3/4"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
1"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
1 1/4"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
1 1/2"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
2"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
3"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
4"		23.66	23.79	23.79	25.41	25.63	27.02	27.58	27.63	27.63	27.63	27.63	27.63
6"		43.11	43.35	43.35	46.33	46.80	49.63	50.65	50.74	50.74	50.74	50.74	50.74
8"		63.93	64.27	64.27	68.73	69.52	74.07	75.64	75.77	75.77	75.77	75.77	75.77
10"		94.51	95.03	95.03	101.61	102.72	109.25	111.54	111.74	111.74	111.74	111.74	111.74
12"		142.90	143.61	143.61	153.78	156.11	168.64	172.39	172.64	172.64	172.64	172.64	172.64
14"		-	-	-	-	-	-	-	-	-	-	-	-

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water - Calculated Billings (prior to adjustment factor)													**Customer - 6**
Senior Citizens													
5/8" Meter		4,149	4,506	4,635	4,962	5,307	5,468	5,277	5,181	5,103	5,025	4,947	4,869
> 5/8" Meter		2	1	2	2	2	2	3	3	3	3	3	3
Total Senior Citizens		4,151	4,507	4,637	4,963	5,309	5,471	5,280	5,183	5,105	5,027	4,950	4,872
General Service (Residential)													
5/8" Meter		136,583	139,643	137,737	143,921	148,628	143,540	141,124	138,457	136,284	134,112	131,939	129,767
> 5/8" Meter		14,064	14,424	14,444	15,768	16,593	16,882	17,988	17,932	17,932	17,932	17,932	17,932
Total General Service (Residential)		150,647	154,067	152,181	159,689	165,221	160,421	159,112	156,389	154,217	152,044	149,872	147,699
General Service (Commercial)													
5/8" Meter		12,113	12,873	12,527	13,136	13,585	13,197	13,022	12,761	12,536	12,322	12,108	11,905
> 5/8" Meter		37,957	42,357	42,390	46,101	49,746	50,381	50,802	50,624	50,624	50,624	50,624	50,624
Total General Service (Commercial)		50,069	55,230	54,917	59,237	63,332	63,578	63,824	63,386	63,161	62,947	62,733	62,529
General Service (Industrial)													
5/8" Meter		202	222	213	230	254	261	248	243	239	235	231	227
> 5/8" Meter		2,706	2,647	2,841	2,869	3,148	5,153	4,127	4,111	4,111	4,111	4,111	4,111
Total General Service (Industrial)		2,908	2,869	3,055	3,100	3,402	5,413	4,376	4,354	4,350	4,346	4,342	4,338
General Service (Public Utilities)													
5/8" Meter		16	16	19	26	33	29	32	32	31	31	30	30
> 5/8" Meter		287	371	381	507	379	352	358	357	357	357	357	357
Total General Service (Public Utilities)		303	387	400	533	412	381	391	389	388	388	387	387
General Service (Excluding Senior Citizens)													
5/8" Meter		148,914	152,755	150,497	157,313	162,501	157,026	154,427	151,493	149,091	146,700	144,309	141,928
> 5/8" Meter		55,014	59,799	60,056	65,246	69,865	72,767	73,276	73,025	73,025	73,025	73,025	73,025
Total General Service (excluding SC)		203,928	212,553	210,553	222,558	232,367	229,793	227,702	224,518	222,116	219,725	217,334	214,954
General Service (Including Senior Citizens)													
5/8" Meter		153,063	157,261	155,132	162,274	167,808	162,495	159,704	156,673	154,194	151,725	149,256	146,798
> 5/8" Meter		55,016	59,800	60,057	65,248	69,868	72,769	73,279	73,028	73,028	73,028	73,028	73,028
Total General Service (including SC)		208,079	217,061	215,189	227,522	237,676	235,264	232,982	229,701	227,222	224,753	222,284	219,825
PHA		5,596	6,204	5,720	5,934	6,196	6,253	6,203	6,183	6,183	6,183	6,183	6,183
Charities & Schools		5,739	5,310	5,002	5,350	5,104	4,951	4,880	4,864	4,864	4,864	4,864	4,864
Hospital/University		5,957	6,486	7,131	7,480	6,525	7,558	7,575	7,545	7,545	7,545	7,545	7,545
Hand Bill		15,775	16,793	16,799	16,713	15,149	14,226	14,786	14,725	14,725	14,725	14,725	14,725
Scheduled		1	1	1	1	1	1	1	1	1	1	1	1
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		285	370	480	503	582	322	526	524	524	524	524	524
Private Fire (Unmetered)		2,118	2,350	2,576	2,880	3,047	3,785	3,863	3,870	3,870	3,870	3,870	3,870
Public Fire Charge (Hydrants)		7,874	8,162	8,162	7,617	7,866	9,300	9,235	9,235	9,235	9,235	9,235	9,235
Total		251,424	262,738	261,060	274,001	282,144	281,659	280,050	276,648	274,168	271,699	269,230	266,772

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water - Retail - Billings Under Existing Rates													**Customer - 7**
Senior Citizens													
5/8" Meter		4,149	4,506	4,635	4,962	5,307	5,468	5,277	5,181	5,103	5,025	4,947	4,869
> 5/8" Meter		2	1	2	2	2	2	3	3	3	3	3	3
Total Senior Citizens		4,151	4,507	4,637	4,963	5,309	5,471	5,280	5,183	5,105	5,027	4,950	4,872
General Service (Residential)													
5/8" Meter		136,583	139,643	137,737	143,921	148,628	143,540	141,124	138,457	136,284	134,112	131,939	129,767
> 5/8" Meter		14,064	14,424	14,444	15,768	16,593	16,882	17,988	17,932	17,932	17,932	17,932	17,932
Total General Service (Residential)		150,647	154,067	152,181	159,689	165,221	160,421	159,112	156,389	154,217	152,044	149,872	147,699
General Service (Commercial)													
5/8" Meter		12,113	12,873	12,527	13,136	13,585	13,197	13,022	12,761	12,536	12,322	12,108	11,905
> 5/8" Meter		37,957	42,357	42,390	46,101	49,746	50,381	50,802	50,624	50,624	50,624	50,624	50,624
Total General Service (Commercial)		50,069	55,230	54,917	59,237	63,332	63,578	63,824	63,386	63,161	62,947	62,733	62,529
General Service (Industrial)													
5/8" Meter		202	222	213	230	254	261	248	243	239	235	231	227
> 5/8" Meter		2,706	2,647	2,841	2,869	3,148	5,153	4,127	4,111	4,111	4,111	4,111	4,111
Total General Service (Industrial)		2,908	2,869	3,055	3,100	3,402	5,413	4,376	4,354	4,350	4,346	4,342	4,338
General Service (Public Utilities)													
5/8" Meter		16	16	19	26	33	29	32	32	31	31	30	30
> 5/8" Meter		287	371	381	507	379	352	358	357	357	357	357	357
Total General Service (Public Utilities)		303	387	400	533	412	381	391	389	388	388	387	387
General Service (Excluding Senior Citizens)													
5/8" Meter		148,914	152,755	150,497	157,313	162,501	157,026	154,427	151,493	149,091	146,700	144,309	141,928
> 5/8" Meter		55,014	59,799	60,056	65,246	69,865	72,767	73,276	73,025	73,025	73,025	73,025	73,025
Total General Service (excluding SC)		203,928	212,553	210,553	222,558	232,367	229,793	227,702	224,518	222,116	219,725	217,334	214,954
General Service (Including Senior Citizens)													
5/8" Meter		153,063	157,261	155,132	162,274	167,808	162,495	159,704	156,673	154,194	151,725	149,256	146,798
> 5/8" Meter		55,016	59,800	60,057	65,248	69,868	72,769	73,279	73,028	73,028	73,028	73,028	73,028
Total General Service (including SC)		208,079	217,061	215,189	227,522	237,676	235,264	232,982	229,701	227,222	224,753	222,284	219,825
PHA		5,596	6,204	5,720	5,934	6,196	6,253	6,203	6,183	6,183	6,183	6,183	6,183
Charities & Schools		5,739	5,310	5,002	5,350	5,104	4,951	4,880	4,864	4,864	4,864	4,864	4,864
Hospital/University		5,957	6,486	7,131	7,480	6,525	7,558	7,575	7,545	7,545	7,545	7,545	7,545
Hand Bill		15,775	16,793	16,799	16,713	15,149	14,226	14,786	14,725	14,725	14,725	14,725	14,725
Scheduled		1	1	1	1	1	1	1	1	1	1	1	1
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		285	370	480	503	582	322	526	524	524	524	524	524
Private Fire (Unmetered)		2,118	2,350	2,576	2,880	3,047	4,288	3,863	3,870	3,870	3,870	3,870	3,870
Public Fire Charge (Hydrants)		7,874	8,162	8,162	7,617	7,866	9,300	9,235	9,235	9,235	9,235	9,235	9,235
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Total		251,424	262,738	261,060	274,001	282,144	282,162	280,050	276,648	274,168	271,699	269,230	266,772

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water - General Service Collections													**Customer - 8**
Total General Service Billings		241,146	251,855	249,842	263,000	270,649	268,252	266,427	263,019	260,539	258,070	255,601	253,143
Total General Service + xxxxxxxxxx Billings		241,146	251,855	249,842	263,000	270,649	268,252	266,427	263,019	260,539	258,070	255,601	253,143
Collection Factors													
Current Year		86.19%	87.15%	87.68%	88.16%	87.89%	86.87%	86.68%	86.68%	86.68%	86.68%	86.68%	86.68%
First Year Prior		9.81%	8.63%	8.26%	8.31%	8.17%	8.36%	8.74%	8.74%	8.74%	8.74%	8.74%	8.74%
Second Year Prior		1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%
Collections		Actual	Actual	Actual	Actual	Actual	Actual	Calculated					
General Service		231,869	244,054	241,442	252,576	259,848	262,410	259,527	256,367	253,885	251,464	249,061	246,667
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Public Fire		7,874	8,162	8,162	7,617	7,866	9,300	9,235	9,235	9,235	9,235	9,235	9,235
Private Fire		2,236	2,374	2,740	2,872	3,169	3,598	4,388	4,394	4,394	4,394	4,394	4,394
Total		241,979	254,590	252,344	263,065	270,883	275,308	273,150	269,996	267,514	265,092	262,689	260,296
										Total			
General Service	Calculated	232,835	244,381	244,447	257,408	264,108	260,654			1,503,832			
General Service + Wholesale	Calculated	244,313	248,136	248,008	260,640	267,344	264,326			1,532,767			
General Service + Wholesale	Actual	243,406	247,804	245,004	255,853	263,114	266,000			1,521,179			
	Ratio	100.4%	100.1%	101.2%	101.9%	101.6%	99.4%			100.8%			
General Service + xxxxxxxxxx	Calculated	244,313	248,136	248,008	260,640	267,344	264,326			1,532,767			
General Service + xxxxxxxxxx	Actual	243,347	247,810	245,004	255,807	263,084	266,082			1,521,134			
	Ratio	100.4%	100.1%	101.2%	101.9%	101.6%	99.3%			100.8%			
General Service + xxxxxxxxxx	Calculated	101.3%	98.5%	99.3%	99.1%	98.8%	98.5%						
General Service + xxxxxxxxxx	Actual	100.9%	98.4%	98.1%	97.3%	97.2%	99.2%						
Collections - Detail													
Senior Citizens							5,291	5,155	5,058	4,979	4,902	4,827	4,751
General Service (Residential)							156,205	155,079	152,513	150,367	148,242	146,128	144,014
General Service (Commercial)							61,650	62,082	61,729	61,500	61,287	61,078	60,879
General Service (Industrial)							5,046	4,331	4,260	4,234	4,230	4,226	4,222
General Service (Public Utilities)							376	380	379	378	378	377	377
PHA							6,063	6,041	6,021	6,018	6,017	6,017	6,017
Charities & Schools							4,829	4,759	4,736	4,734	4,733	4,733	4,733
Hospital/University							7,253	7,350	7,346	7,343	7,343	7,343	7,343
Hand Bill							13,942	14,348	14,326	14,332	14,330	14,330	14,330
Scheduled							1	1	1	1	1	1	1
xxxxxxxxxx							-	-	-	-	-	-	-
xxxxxxxxxx							-	-	-	-	-	-	-
Fire Service							322	526	524	524	524	524	524
Private Fire (Unmetered)							4,288	3,863	3,870	3,870	3,870	3,870	3,870
Public Fire Charge (Hydrants)							9,300	9,235	9,235	9,235	9,235	9,235	9,235
xxxxxxxxxx							-	-	-	-	-	-	-
Total							274,564	273,150	269,996	267,514	265,092	262,689	260,296

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Wholesale													**Customer - 9**
Bucks County													
Commodity Charge ($/Mcf)		1.708	2.279	2.279	-	-	-	-	-	-	-	-	-
Demand Charge ($/mgd of maximum demand)		135,048	159,238	159,238	-	-	-	-	-	-	-	-	-
Lump Sum Payment ($/year)		3,226,000	-	-	-	-	-	-	-	-	-	-	-
Usage (Mcf)		535,000	-	-	-	-	-	-	-	-	-	-	-
Max Demand (mgd)		21.00	-	-	-	-	-	-	-	-	-	-	-
Management Fee		12.00%	12.00%	12.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commodity ($1,000)		914	-	-	-	-	-	-	-	-	-	-	-
Demand ($1,000)		2,836	-	-	-	-	-	-	-	-	-	-	-
Lump Sum ($1,000)		3,226	-	-	-	-	-	-	-	-	-	-	-
Management Fee ($1,000)		837	-	-	-	-	-	-	-	-	-	-	-
Subtotal ($1,000)		7,813	-	-	-	-	-	-	-	-	-	-	-
Aqua PA													
Commodity Charge ($/Mcf)		2.698	2.969	2.969	3.404	3.508	3.053	3.019	3.019	3.019	3.019	3.019	3.019
Lump Sum Payment ($/year)		2,933,000	3,030,000	3,030,000	2,695,000	2,707,000	3,152,000	3,280,167	3,280,167	3,280,167	3,280,167	3,280,167	3,280,167
Usage (Mcf)		147,909	129,410	69,888	71,320	67,031	60,951	63,991	100,000	100,000	100,000	100,000	100,000
Management Fee		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Commodity ($1,000)		399	384	207	243	235	186	193	302	302	302	302	302
Lump Sum ($1,000)		2,933	3,030	3,030	2,695	2,707	3,152	3,280	3,280	3,280	3,280	3,280	3,280
Management Fee ($1,000)		333	341	324	294	294	334	347	358	358	358	358	358
Subtotal ($1,000)		3,665	3,756	3,561	3,232	3,236	3,672	3,821	3,940	3,940	3,940	3,940	3,940
Total ($1,000)		11,478	3,756	3,561	3,232	3,236	3,672	3,821	3,940	3,940	3,940	3,940	3,940
Actual		11,537	3,750	3,561	3,277	3,266	3,590	-					

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water - Revenue Summary													**Customer - 10**
Revenue ($1,000)													
General Service		231,869	244,054	241,442	252,576	259,848	262,410	259,527	256,367	253,885	251,464	249,061	246,667
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Public Fire		7,874	8,162	8,162	7,617	7,866	9,300	9,235	9,235	9,235	9,235	9,235	9,235
Private Fire		2,236	2,374	2,740	2,872	3,169	3,598	4,388	4,394	4,394	4,394	4,394	4,394
Wholesale		11,537	3,750	3,561	3,277	3,266	3,590	3,821	3,940	3,940	3,940	3,940	3,940
Total		253,516	258,340	255,906	266,342	274,149	278,897	276,970	273,936	271,454	269,033	266,630	264,236

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Accounts													**Customer - 11**
Senior Citizens													
5/8" Meter		19,501	20,171	21,365	22,347	22,974	23,440	23,440	23,440	23,440	23,440	23,440	23,440
> 5/8" Meter		4	3	3	4	5	7	7	7	7	7	7	7
Total Senior Citizens		19,505	20,174	21,368	22,351	22,979	23,447	23,447	23,447	23,447	23,447	23,447	23,447
General Service (Residential)													
5/8" Meter		409,286	402,733	409,585	410,644	417,556	412,223	412,223	412,223	412,223	412,223	412,223	412,223
> 5/8" Meter		3,466	3,934	4,721	5,716	6,759	7,811	7,811	7,811	7,811	7,811	7,811	7,811
Total General Service (Residential)		412,752	406,667	414,306	416,360	424,315	420,034	420,034	420,034	420,034	420,034	420,034	420,034
General Service (Commercial)													
5/8" Meter		28,102	28,013	28,046	28,026	28,138	28,031	28,031	28,031	28,031	28,031	28,031	28,031
> 5/8" Meter		6,524	6,692	6,855	7,124	7,562	7,773	7,773	7,773	7,773	7,773	7,773	7,773
Total General Service (Commercial)		34,626	34,705	34,901	35,150	35,700	35,804	35,804	35,804	35,804	35,804	35,804	35,804
General Service (Industrial)													
5/8" Meter		534	527	524	524	520	511	511	511	511	511	511	511
> 5/8" Meter		513	510	508	505	511	509	509	509	509	509	509	509
Total General Service (Industrial)		1,047	1,037	1,032	1,029	1,031	1,020	1,020	1,020	1,020	1,020	1,020	1,020
General Service (Public Utilities)													
5/8" Meter		37	44	48	58	66	74	74	74	74	74	74	74
> 5/8" Meter		79	80	87	94	96	96	96	96	96	96	96	96
Total General Service (Public Utilities)		116	124	135	152	162	170	170	170	170	170	170	170
General Service (Excluding Senior Citizens)													
5/8" Meter		437,959	431,317	438,203	439,252	446,280	440,839	440,839	440,839	440,839	440,839	440,839	440,839
> 5/8" Meter		10,582	11,216	12,171	13,439	14,928	16,189	16,189	16,189	16,189	16,189	16,189	16,189
Total General Service (excluding SC)		448,541	442,533	450,374	452,691	461,208	457,028	457,028	457,028	457,028	457,028	457,028	457,028
General Service (Including Senior Citizens)													
5/8" Meter		457,460	451,488	459,568	461,599	469,254	464,279	464,279	464,279	464,279	464,279	464,279	464,279
> 5/8" Meter		10,586	11,219	12,174	13,443	14,933	16,196	16,196	16,196	16,196	16,196	16,196	16,196
Total General Service (including SC)		468,046	462,707	471,742	475,042	484,187	480,475	480,475	480,475	480,475	480,475	480,475	480,475
PHA		5,857	5,761	5,619	5,796	5,781	5,737	5,737	5,737	5,737	5,737	5,737	5,737
Charities & Schools		2,606	2,500	2,424	2,324	2,127	2,051	2,051	2,051	2,051	2,051	2,051	2,051
Hospital/University		375	431	426	431	305	353	353	353	353	353	353	353
Hand Bill		254	247	242	232	219	217	217	217	217	217	217	217
Scheduled		2	2	3	4	4	3	3	3	3	3	3	3
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		81	74	77	90	105	112	112	112	112	112	112	112
Sewer Only	Account - No Growth	59	66	77	61	63	59	59	59	59	59	59	59
Groundwater (Non-City)	Account - No Growth	5	4	3	4	4	5	5	5	5	5	5	5
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Total		477,285	471,792	480,613	483,984	492,795	489,012	489,012	489,012	489,012	489,012	489,012	489,012

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer Customer Account Growth													**Customer - 11A**
Annual Growth													
Senior Citizens													
5/8" Meter		1.48%	3.44%	5.92%	4.60%	2.81%	2.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		0.00%	-25.00%	0.00%	33.33%	25.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		1.48%	3.43%	5.92%	4.60%	2.81%	2.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		-0.10%	-1.60%	1.70%	0.26%	1.68%	-1.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		20.60%	13.50%	20.01%	21.08%	18.25%	15.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		0.04%	-1.47%	1.88%	0.50%	1.91%	-1.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		2.03%	-0.32%	0.12%	-0.07%	0.40%	-0.38%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		6.36%	2.58%	2.44%	3.92%	6.15%	2.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		2.82%	0.23%	0.56%	0.71%	1.56%	0.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		0.00%	-1.31%	-0.57%	0.00%	-0.76%	-1.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		8.46%	-0.58%	-0.39%	-0.59%	1.19%	-0.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		3.97%	-0.96%	-0.48%	-0.29%	0.19%	-1.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		8.82%	18.92%	9.09%	20.83%	13.79%	12.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		11.27%	1.27%	8.75%	8.05%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		10.48%	6.90%	8.87%	12.59%	6.58%	4.94%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.03%	-1.52%	1.60%	0.24%	1.60%	-1.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.78%	5.99%	8.51%	10.42%	11.08%	8.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		0.26%	-1.34%	1.77%	0.51%	1.88%	-0.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.09%	-1.31%	1.79%	0.44%	1.66%	-1.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		10.78%	5.98%	8.51%	10.42%	11.08%	8.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		0.31%	-1.14%	1.95%	0.70%	1.93%	-0.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-0.80%	-1.64%	-2.46%	3.15%	-0.26%	-0.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charities & Schools		0.50%	-4.07%	-3.04%	-4.13%	-8.48%	-3.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		2.74%	14.93%	-1.16%	1.17%	-29.23%	15.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		2.42%	-2.76%	-2.02%	-4.13%	-5.60%	-0.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		0.00%	0.00%	50.00%	33.33%	0.00%	-25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-4.71%	-8.64%	4.05%	16.88%	16.67%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Only		28.26%	11.86%	16.67%	-20.78%	3.28%	-6.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		0.00%	-20.00%	-25.00%	33.33%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		0.30%	-1.15%	1.87%	0.70%	1.82%	-0.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer Customer Account Growth													**Customer - 11A**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		0.93%	2.45%	4.67%	5.26%	3.70%	2.42%	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		15.47%	-13.40%	-13.40%	15.47%	29.10%	32.29%	18.32%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		0.93%	2.45%	4.67%	5.26%	3.70%	2.42%	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		-1.73%	-0.86%	0.04%	0.98%	0.97%	0.19%	-0.64%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		9.84%	17.00%	16.71%	20.54%	19.65%	16.90%	7.50%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-1.64%	-0.72%	0.19%	1.18%	1.20%	0.44%	-0.51%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		0.46%	0.85%	-0.10%	0.02%	0.16%	0.01%	-0.19%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		2.24%	4.45%	2.51%	3.18%	5.03%	4.46%	1.39%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		0.78%	1.52%	0.40%	0.64%	1.14%	0.93%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		-1.01%	-0.66%	-0.94%	-0.29%	-0.38%	-1.25%	-0.87%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-1.15%	3.84%	-0.49%	-0.49%	0.29%	0.40%	-0.20%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-1.08%	1.48%	-0.72%	-0.39%	-0.05%	-0.44%	-0.53%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		4.32%	13.76%	13.90%	14.81%	17.26%	12.95%	5.89%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		12.88%	6.15%	4.94%	8.40%	5.05%	1.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		9.92%	8.67%	7.88%	10.72%	9.54%	5.76%	2.44%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		-1.59%	-0.75%	0.03%	0.92%	0.92%	0.18%	-0.61%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		4.44%	8.36%	7.25%	9.46%	10.75%	9.76%	4.14%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-1.46%	-0.54%	0.20%	1.14%	1.20%	0.48%	-0.45%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		-1.49%	-0.61%	0.23%	1.11%	1.05%	0.29%	-0.53%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		4.45%	8.35%	7.24%	9.46%	10.75%	9.76%	4.14%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-1.36%	-0.42%	0.39%	1.32%	1.31%	0.57%	-0.38%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-1.73%	-1.22%	-2.05%	0.30%	1.43%	-0.51%	-0.38%	0.00%	0.00%	0.00%	0.00%	0.00%
Charities & Schools		-0.55%	-1.81%	-3.56%	-3.58%	-6.33%	-6.06%	-1.80%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		3.36%	8.67%	6.58%	0.00%	-15.39%	-9.50%	7.58%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		-3.19%	-0.20%	-2.39%	-3.08%	-4.87%	-3.29%	-0.46%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		0.00%	0.00%	22.47%	41.42%	15.47%	-13.40%	-13.40%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-4.60%	-6.69%	-2.50%	10.28%	16.77%	11.55%	3.28%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Only		28.02%	19.78%	14.24%	-3.86%	-9.55%	-1.65%	-3.23%	0.00%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		11.80%	-10.56%	-22.54%	0.00%	15.47%	11.80%	11.80%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-1.36%	-0.43%	0.35%	1.28%	1.26%	0.52%	-0.38%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer Customer Account Growth													**Customer - 11A**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		1.25%	1.76%	3.60%	4.65%	4.43%	3.14%	1.60%	0.67%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		25.99%	0.00%	-9.14%	0.00%	18.56%	32.64%	20.51%	11.87%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		1.26%	1.76%	3.59%	4.64%	4.44%	3.14%	1.61%	0.67%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	-1.68%	-0.01%	0.11%	1.21%	0.21%	0.13%	-0.43%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	11.05%	17.99%	18.15%	19.77%	18.27%	10.97%	4.94%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	-1.59%	0.14%	0.29%	1.43%	0.46%	0.29%	-0.34%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	0.20%	0.61%	-0.09%	0.15%	-0.02%	0.01%	-0.13%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	2.35%	3.77%	2.98%	4.16%	4.28%	2.95%	0.92%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	0.60%	1.20%	0.50%	0.95%	0.86%	0.62%	0.10%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	-1.11%	-0.63%	-0.63%	-0.44%	-0.83%	-0.83%	-0.58%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	-0.96%	2.41%	-0.52%	0.07%	0.07%	0.26%	-0.13%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	-1.04%	0.82%	-0.58%	-0.19%	-0.39%	-0.29%	-0.36%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	8.97%	12.18%	16.17%	14.47%	15.52%	8.46%	3.89%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	8.87%	7.01%	5.97%	6.27%	3.34%	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	8.91%	8.74%	9.43%	9.32%	7.99%	3.80%	1.62%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.09%	-1.57%	0.03%	0.10%	1.14%	0.20%	0.12%	-0.41%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.77%	4.96%	8.41%	8.29%	10.00%	9.98%	6.40%	2.74%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		0.13%	-1.42%	0.22%	0.31%	1.39%	0.49%	0.32%	-0.30%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.14%	-1.43%	0.18%	0.30%	1.29%	0.34%	0.19%	-0.35%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.78%	4.95%	8.41%	8.29%	10.00%	9.98%	6.41%	2.74%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		0.17%	-1.29%	0.37%	0.50%	1.52%	0.61%	0.38%	-0.26%	0.00%	0.00%	0.00%	0.00%
PHA		-1.41%	-1.70%	-1.64%	-0.35%	0.12%	0.70%	-0.34%	-0.25%	0.00%	0.00%	0.00%	0.00%
Charities & Schools		-5.49%	-1.74%	-2.22%	-3.75%	-5.24%	-5.42%	-4.08%	-1.21%	0.00%	0.00%	0.00%	0.00%
Hospital/University		#N/A	7.08%	5.29%	4.75%	-10.89%	-6.07%	-6.44%	4.99%	0.00%	0.00%	0.00%	0.00%
Hand Bill		#N/A	-3.04%	-0.81%	-2.97%	-3.93%	-3.57%	-2.20%	-0.31%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	0.00%	14.47%	25.99%	25.99%	0.00%	-9.14%	-9.14%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		8.17%	-5.97%	-3.24%	3.57%	12.37%	13.30%	7.56%	2.17%	0.00%	0.00%	0.00%	0.00%
Sewer Only		31.41%	22.39%	18.73%	1.12%	-1.54%	-8.49%	-1.11%	-2.16%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		#N/A	0.00%	-15.66%	-7.17%	0.00%	18.56%	7.72%	7.72%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	-1.29%	0.33%	0.47%	1.46%	0.58%	0.35%	-0.26%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer Customer Account Growth													**Customer - 11A**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		1.28%	1.71%	2.61%	3.14%	3.64%	3.75%	3.05%	1.87%	0.96%	0.40%	0.00%	0.00%
> 5/8" Meter		14.87%	8.45%	8.45%	5.92%	4.56%	11.84%	18.47%	18.47%	11.84%	6.96%	0.00%	0.00%
Total Senior Citizens		1.28%	1.71%	2.61%	3.14%	3.64%	3.75%	3.05%	1.87%	0.96%	0.40%	0.00%	0.00%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	-0.63%	0.38%	0.14%	0.47%	0.13%	0.08%	-0.26%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	14.75%	18.65%	17.65%	14.70%	10.59%	6.44%	2.94%	0.00%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	-0.49%	0.56%	0.35%	0.65%	0.27%	0.18%	-0.20%	0.00%	0.00%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	0.13%	0.43%	-0.05%	0.01%	-0.01%	0.00%	-0.08%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	2.68%	4.27%	3.57%	3.04%	2.55%	1.76%	0.55%	0.00%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	0.61%	1.17%	0.67%	0.63%	0.51%	0.37%	0.06%	0.00%	0.00%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	-0.78%	-0.53%	-0.88%	-0.61%	-0.50%	-0.50%	-0.35%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-0.77%	1.56%	-0.16%	-0.04%	0.04%	0.16%	-0.08%	0.00%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	-0.78%	0.47%	-0.52%	-0.33%	-0.23%	-0.18%	-0.21%	0.00%	0.00%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	11.27%	14.19%	14.87%	10.96%	9.04%	4.99%	2.31%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	8.68%	6.22%	3.97%	3.71%	1.99%	0.42%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	9.63%	9.06%	7.94%	6.51%	4.72%	2.26%	0.97%	0.00%	0.00%
General Service (Excluding Senior Citizens)													
5/8" Meter		0.29%	-0.14%	0.06%	-0.58%	0.38%	0.13%	0.44%	0.12%	0.07%	-0.25%	0.00%	0.00%
> 5/8" Meter		1.14%	2.30%	3.93%	6.74%	9.34%	8.88%	7.62%	5.87%	3.79%	1.64%	0.00%	0.00%
Total General Service (excluding SC)		0.31%	-0.08%	0.16%	-0.40%	0.61%	0.38%	0.65%	0.29%	0.19%	-0.18%	0.00%	0.00%
General Service (Including Senior Citizens)													
5/8" Meter		0.33%	-0.06%	0.17%	-0.42%	0.53%	0.30%	0.56%	0.20%	0.12%	-0.21%	0.00%	0.00%
> 5/8" Meter		1.15%	2.30%	3.93%	6.74%	9.34%	8.88%	7.62%	5.88%	3.80%	1.64%	0.00%	0.00%
Total General Service (including SC)		0.35%	-0.01%	0.26%	-0.25%	0.74%	0.53%	0.76%	0.37%	0.23%	-0.15%	0.00%	0.00%
PHA		-0.88%	-1.13%	-1.67%	-0.90%	-0.42%	-0.41%	-0.08%	0.42%	-0.20%	-0.15%	0.00%	0.00%
Charities & Schools		-3.65%	-4.36%	-4.72%	-2.48%	-3.88%	-4.68%	-3.88%	-3.29%	-2.47%	-0.73%	0.00%	0.00%
Hospital/University		#N/A	#N/A	#N/A	4.19%	-3.53%	-1.20%	-3.91%	-3.69%	-3.91%	2.97%	0.00%	0.00%
Hand Bill		#N/A	#N/A	#N/A	-3.06%	-2.46%	-3.10%	-2.56%	-2.16%	-1.33%	-0.18%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	14.87%	14.87%	8.45%	8.45%	0.00%	-5.59%	-5.59%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-13.05%	6.90%	3.77%	0.22%	4.32%	6.70%	8.64%	7.78%	4.47%	1.30%	0.00%	0.00%
Sewer Only		-0.34%	20.48%	24.25%	11.12%	6.49%	0.00%	-2.22%	-5.19%	-0.66%	-1.30%	0.00%	0.00%
Groundwater (Non-City)		#N/A	#N/A	#N/A	0.00%	-4.36%	0.00%	4.56%	10.76%	4.56%	4.56%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	#N/A	#N/A	-0.27%	0.70%	0.49%	0.72%	0.35%	0.21%	-0.15%	0.00%	0.00%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume (Mcf)													**Customer - 12**
Senior Citizens													
5/8" Meter		109,832	115,854	117,670	119,450	123,382	129,835	125,408	122,828	120,482	118,136	115,790	113,444
> 5/8" Meter		48	28	25	26	50	51	59	59	59	59	59	59
Total Senior Citizens		109,880	115,882	117,695	119,477	123,432	129,887	125,467	122,887	120,541	118,195	115,849	113,503
General Service (Residential)													
5/8" Meter		2,891,728	2,853,362	2,783,319	2,763,554	2,731,078	2,647,063	2,616,623	2,562,870	2,513,252	2,463,634	2,414,016	2,364,399
> 5/8" Meter		363,363	353,284	349,677	357,111	356,046	355,534	383,907	383,907	383,907	383,907	383,907	383,907
Total General Service (Residential)		3,255,091	3,206,646	3,132,996	3,120,665	3,087,124	3,002,598	3,000,530	2,946,777	2,897,160	2,847,542	2,797,924	2,748,306
General Service (Commercial)													
5/8" Meter		318,045	327,982	316,549	308,500	305,458	295,133	293,487	287,577	281,667	276,039	270,410	265,063
> 5/8" Meter		1,109,930	1,184,252	1,183,177	1,185,108	1,231,210	1,203,265	1,226,715	1,226,715	1,226,715	1,226,715	1,226,715	1,226,715
Total General Service (Commercial)		1,427,975	1,512,234	1,499,726	1,493,608	1,536,667	1,498,398	1,520,202	1,514,292	1,508,383	1,502,754	1,497,126	1,491,779
General Service (Industrial)													
5/8" Meter		5,710	6,186	5,865	5,987	6,466	6,667	6,379	6,250	6,127	6,003	5,885	5,767
> 5/8" Meter		78,617	78,570	84,580	79,621	72,168	90,363	61,427	61,427	61,427	61,427	61,427	61,427
Total General Service (Industrial)		84,327	84,756	90,445	85,608	78,633	97,029	67,806	67,677	67,554	67,431	67,312	67,194
General Service (Public Utilities)													
5/8" Meter		424	394	476	589	736	621	708	694	680	667	653	640
> 5/8" Meter		8,084	10,317	10,507	12,952	8,885	8,307	8,596	8,596	8,596	8,596	8,596	8,596
Total General Service (Public Utilities)		8,507	10,711	10,983	13,541	9,621	8,927	9,304	9,290	9,276	9,263	9,249	9,236
General Service (Excluding Senior Citizens)													
5/8" Meter		3,215,906	3,187,924	3,106,209	3,078,630	3,043,737	2,949,484	2,917,196	2,857,391	2,801,726	2,746,343	2,690,965	2,635,869
> 5/8" Meter		1,559,994	1,626,423	1,627,941	1,634,792	1,668,308	1,657,469	1,680,646	1,680,646	1,680,646	1,680,646	1,680,646	1,680,646
Total General Service (excluding SC)		4,775,900	4,814,347	4,734,150	4,713,422	4,712,045	4,606,952	4,597,842	4,538,037	4,482,372	4,426,989	4,371,611	4,316,515
General Service (Including Senior Citizens)													
5/8" Meter		3,325,738	3,303,778	3,223,879	3,198,080	3,167,119	3,079,319	3,042,605	2,980,219	2,922,208	2,864,479	2,806,755	2,749,313
> 5/8" Meter		1,560,042	1,626,452	1,627,966	1,634,818	1,668,358	1,657,520	1,680,705	1,680,705	1,680,705	1,680,705	1,680,705	1,680,705
Total General Service (including SC)		4,885,780	4,930,230	4,851,845	4,832,898	4,835,477	4,736,839	4,723,309	4,660,924	4,602,913	4,545,184	4,487,460	4,430,018
PHA		165,961	178,292	163,177	158,209	158,037	157,280	157,202	157,202	157,202	157,202	157,202	157,202
Charities & Schools		211,193	190,766	178,962	176,768	160,970	156,747	156,251	156,251	156,251	156,251	156,251	156,251
Hospital/University		262,322	272,722	300,812	301,443	252,634	286,421	289,736	289,736	289,736	289,736	289,736	289,736
Hand Bill		524,773	497,646	445,530	444,600	395,072	418,857	439,660	439,660	439,660	439,660	439,660	439,660
Scheduled		22	21	16	14	13	13	11	11	11	11	11	11
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		2,991	2,665	6,393	6,326	7,533	8,387	8,000	8,000	8,000	8,000	8,000	8,000
Sewer Only		76,652	70,303	83,596	101,781	75,697	66,411	71,000	71,000	71,000	71,000	71,000	71,000
Groundwater (Non-City)		157,872	276,587	211,684	206,137	209,117	231,240	220,000	220,000	220,000	220,000	220,000	220,000
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Total		6,287,566	6,419,231	6,242,015	6,228,174	6,094,551	6,062,195	6,065,170	6,002,784	5,944,773	5,887,044	5,829,320	5,771,878

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume Per Account (Mcf/Account)													**Customer - 13**
Senior Citizens													
5/8" Meter		5.63	5.74	5.51	5.35	5.37	5.54	5.35	5.24	5.14	5.04	4.94	4.84
> 5/8" Meter		12.00	9.40	8.20	6.60	9.98	7.34	8.41	8.41	8.41	8.41	8.41	8.41
Total Senior Citizens		5.63	5.74	5.51	5.35	5.37	5.54	5.35	5.24	5.14	5.04	4.94	4.84
General Service (Residential)													
5/8" Meter		7.07	7.08	6.80	6.73	6.54	6.42	6.35	6.22	6.10	5.98	5.86	5.74
> 5/8" Meter		104.84	89.80	74.07	62.48	52.68	45.52	49.15	49.15	49.15	49.15	49.15	49.15
Total General Service (Residential)		7.89	7.89	7.56	7.50	7.28	7.15	7.14	7.02	6.90	6.78	6.66	6.54
General Service (Commercial)													
5/8" Meter		11.32	11.71	11.29	11.01	10.86	10.53	10.47	10.26	10.05	9.85	9.65	9.46
> 5/8" Meter		170.13	176.97	172.60	166.35	162.82	154.80	157.82	157.82	157.82	157.82	157.82	157.82
Total General Service (Commercial)		41.24	43.57	42.97	42.49	43.04	41.85	42.46	42.29	42.13	41.97	41.81	41.67
General Service (Industrial)													
5/8" Meter		10.69	11.74	11.19	11.43	12.43	13.05	12.48	12.23	11.99	11.75	11.52	11.29
> 5/8" Meter		153.25	154.06	166.50	157.66	141.23	177.53	120.68	120.68	120.68	120.68	120.68	120.68
Total General Service (Industrial)		80.54	81.73	87.64	83.20	76.27	95.13	66.48	66.35	66.23	66.11	65.99	65.88
General Service (Public Utilities)													
5/8" Meter		11.45	8.96	9.92	10.15	11.15	8.39	9.57	9.38	9.19	9.01	8.83	8.65
> 5/8" Meter		102.33	128.96	120.77	137.79	92.55	86.53	89.54	89.54	89.54	89.54	89.54	89.54
Total General Service (Public Utilities)		73.34	86.38	81.36	89.08	59.39	52.51	54.73	54.65	54.56	54.49	54.41	54.33
General Service (Excluding Senior Citizens)													
5/8" Meter		7.34	7.39	7.09	7.01	6.82	6.69	6.62	6.48	6.36	6.23	6.10	5.98
> 5/8" Meter		147.42	145.01	133.76	121.65	111.76	102.38	103.81	103.81	103.81	103.81	103.81	103.81
Total General Service (excluding SC)		10.65	10.88	10.51	10.41	10.22	10.08	10.06	9.93	9.81	9.69	9.57	9.44
General Service (Including Senior Citizens)													
5/8" Meter		7.27	7.32	7.02	6.93	6.75	6.63	6.55	6.42	6.29	6.17	6.05	5.92
> 5/8" Meter		147.37	144.97	133.72	121.61	111.72	102.34	103.77	103.77	103.77	103.77	103.77	103.77
Total General Service (including SC)		10.44	10.66	10.28	10.17	9.99	9.86	9.83	9.70	9.58	9.46	9.34	9.22
PHA		28.34	30.95	29.04	27.30	27.34	27.42	27.40	27.40	27.40	27.40	27.40	27.40
Charities & Schools		81.04	76.31	73.83	76.06	75.68	76.42	76.18	76.18	76.18	76.18	76.18	76.18
Hospital/University		699.52	632.77	706.13	699.40	828.31	811.39	820.78	820.78	820.78	820.78	820.78	820.78
Hand Bill		2,066.03	2,014.76	1,841.03	1,916.38	1,803.98	1,930.21	2,026.08	2,026.08	2,026.08	2,026.08	2,026.08	2,026.08
Scheduled		11.00	10.35	5.33	3.40	3.30	4.17	3.73	3.73	3.73	3.73	3.73	3.73
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		36.93	36.01	83.03	70.29	71.74	74.89	71.43	71.43	71.43	71.43	71.43	71.43
Sewer Only		1,299.18	1,065.20	1,085.66	1,668.54	1,201.54	1,125.62	1,203.39	1,203.39	1,203.39	1,203.39	1,203.39	1,203.39
Groundwater (Non-City)		31,574.38	69,146.70	70,561.33	51,534.13	52,279.20	46,248.00	44,000.00	44,000.00	44,000.00	44,000.00	44,000.00	44,000.00
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Total		13.17	13.61	12.99	12.87	12.37	12.40	12.40	12.28	12.16	12.04	11.92	11.80

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume Per Account Growth													**Customer - 13A**
Annual Growth													
Senior Citizens													
5/8" Meter		-1.60%	1.98%	-4.11%	-2.95%	0.47%	3.14%	-3.41%	-2.06%	-1.91%	-1.95%	-1.99%	-2.03%
> 5/8" Meter		-33.79%	-21.67%	-12.77%	-19.51%	51.21%	-26.42%	14.51%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		-1.62%	1.97%	-4.11%	-2.95%	0.49%	3.13%	-3.40%	-2.06%	-1.91%	-1.95%	-1.98%	-2.03%
General Service (Residential)													
5/8" Meter		-3.90%	0.28%	-4.09%	-0.97%	-2.81%	-1.82%	-1.15%	-2.05%	-1.94%	-1.97%	-2.01%	-2.06%
> 5/8" Meter		-19.80%	-14.34%	-17.52%	-15.65%	-15.68%	-13.59%	7.98%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-3.96%	-0.01%	-4.10%	-0.88%	-2.93%	-1.75%	-0.07%	-1.79%	-1.68%	-1.71%	-1.74%	-1.77%
General Service (Commercial)													
5/8" Meter		-3.22%	3.45%	-3.60%	-2.47%	-1.38%	-3.01%	-0.56%	-2.01%	-2.06%	-2.00%	-2.04%	-1.98%
> 5/8" Meter		-8.33%	4.02%	-2.47%	-3.62%	-2.13%	-4.92%	1.95%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-4.91%	5.66%	-1.38%	-1.11%	1.30%	-2.77%	1.46%	-0.39%	-0.39%	-0.37%	-0.37%	-0.36%
General Service (Industrial)													
5/8" Meter		-0.41%	9.78%	-4.64%	2.09%	8.82%	4.92%	-4.32%	-2.01%	-1.97%	-2.01%	-1.97%	-2.01%
> 5/8" Meter		-6.29%	0.53%	8.07%	-5.30%	-10.42%	25.70%	-32.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-2.38%	1.48%	7.23%	-5.07%	-8.33%	24.73%	-30.12%	-0.19%	-0.18%	-0.18%	-0.18%	-0.18%
General Service (Public Utilities)													
5/8" Meter		-15.84%	-21.69%	10.63%	2.34%	9.90%	-24.81%	14.11%	-1.99%	-2.03%	-1.96%	-2.00%	-2.04%
> 5/8" Meter		-14.24%	26.03%	-6.35%	14.09%	-32.84%	-6.50%	3.48%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		-13.80%	17.79%	-5.82%	9.50%	-33.34%	-11.57%	4.22%	-0.15%	-0.15%	-0.14%	-0.14%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-3.76%	0.66%	-4.09%	-1.12%	-2.69%	-1.90%	-1.09%	-2.05%	-1.95%	-1.98%	-2.02%	-2.05%
> 5/8" Meter		-11.99%	-1.64%	-7.76%	-9.05%	-8.13%	-8.39%	1.40%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-3.58%	2.17%	-3.38%	-0.95%	-1.88%	-1.34%	-0.20%	-1.30%	-1.23%	-1.24%	-1.25%	-1.26%
General Service (Including Senior Citizens)													
5/8" Meter		-3.70%	0.65%	-4.13%	-1.24%	-2.58%	-1.73%	-1.19%	-2.05%	-1.95%	-1.98%	-2.02%	-2.05%
> 5/8" Meter		-11.99%	-1.63%	-7.76%	-9.06%	-8.13%	-8.40%	1.40%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-3.56%	2.07%	-3.47%	-1.08%	-1.84%	-1.28%	-0.29%	-1.32%	-1.24%	-1.25%	-1.27%	-1.28%
PHA		0.20%	9.22%	-6.16%	-6.01%	0.15%	0.28%	-0.05%	0.00%	0.00%	0.00%	0.00%	0.00%
Charities & Schools		-2.41%	-5.84%	-3.25%	3.02%	-0.50%	0.98%	-0.32%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-2.50%	-9.54%	11.59%	-0.95%	18.43%	-2.04%	1.16%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Bill		-2.87%	-2.48%	-8.62%	4.09%	-5.87%	7.00%	4.97%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		41.03%	-5.91%	-48.47%	-36.25%	-2.94%	26.26%	-10.48%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-68.17%	-2.48%	130.53%	-15.35%	2.07%	4.38%	-4.62%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Only		4.74%	-18.01%	1.92%	53.69%	-27.99%	-6.32%	6.91%	0.00%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		-2.19%	119.00%	2.05%	-26.97%	1.45%	-11.54%	-4.86%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-2.82%	3.28%	-4.55%	-0.92%	-3.90%	0.24%	0.05%	-1.03%	-0.97%	-0.97%	-0.98%	-0.99%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume Per Account Growth													**Customer - 13A**
2-Year Average Growth													
Senior Citizens													
5/8" Meter		0.74%	0.18%	-1.11%	-3.53%	-1.25%	1.80%	-0.19%	-2.74%	-1.98%	-1.93%	-1.97%	-2.01%
> 5/8" Meter		-19.96%	-27.98%	-17.34%	-16.21%	10.32%	5.48%	-8.21%	7.01%	0.00%	0.00%	0.00%	0.00%
Total Senior Citizens		0.73%	0.16%	-1.12%	-3.53%	-1.25%	1.80%	-0.19%	-2.73%	-1.98%	-1.93%	-1.97%	-2.00%
General Service (Residential)													
5/8" Meter		-0.56%	-1.83%	-1.93%	-2.54%	-1.89%	-2.32%	-1.49%	-1.60%	-2.00%	-1.96%	-1.99%	-2.03%
> 5/8" Meter		-11.61%	-17.11%	-15.95%	-16.59%	-15.67%	-14.64%	-3.41%	3.91%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-0.72%	-2.01%	-2.08%	-2.50%	-1.91%	-2.34%	-0.91%	-0.93%	-1.74%	-1.70%	-1.73%	-1.76%
General Service (Commercial)													
5/8" Meter		-0.48%	0.06%	-0.14%	-3.04%	-1.93%	-2.20%	-1.79%	-1.29%	-2.03%	-2.03%	-2.02%	-2.01%
> 5/8" Meter		-2.76%	-2.35%	0.72%	-3.04%	-2.88%	-3.54%	-1.55%	0.97%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-1.23%	0.24%	2.08%	-1.25%	0.08%	-0.76%	-0.68%	0.53%	-0.39%	-0.38%	-0.37%	-0.37%
General Service (Industrial)													
5/8" Meter		0.28%	4.56%	2.31%	-1.34%	5.40%	6.85%	0.19%	-3.17%	-1.99%	-1.99%	-1.99%	-1.99%
> 5/8" Meter		-2.23%	-2.94%	4.23%	1.16%	-7.90%	6.11%	-7.56%	-17.55%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-2.13%	-0.47%	4.31%	0.89%	-6.71%	6.93%	-6.64%	-16.48%	-0.19%	-0.18%	-0.18%	-0.18%
General Service (Public Utilities)													
5/8" Meter		-3.36%	-18.82%	-6.92%	6.40%	6.05%	-9.09%	-7.37%	5.76%	-2.01%	-1.99%	-1.98%	-2.02%
> 5/8" Meter		-0.68%	3.97%	8.64%	3.37%	-12.46%	-20.76%	-1.64%	1.73%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		1.39%	0.76%	5.32%	1.55%	-14.56%	-23.22%	-4.00%	2.01%	-0.15%	-0.15%	-0.14%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-0.48%	-1.58%	-1.75%	-2.62%	-1.91%	-2.30%	-1.50%	-1.57%	-2.00%	-1.96%	-2.00%	-2.03%
> 5/8" Meter		-5.43%	-6.96%	-4.75%	-8.41%	-8.59%	-8.26%	-3.62%	0.70%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-0.33%	-0.74%	-0.64%	-2.17%	-1.41%	-1.61%	-0.77%	-0.75%	-1.26%	-1.23%	-1.24%	-1.26%
General Service (Including Senior Citizens)													
5/8" Meter		-0.46%	-1.55%	-1.77%	-2.70%	-1.91%	-2.16%	-1.46%	-1.62%	-2.00%	-1.96%	-2.00%	-2.03%
> 5/8" Meter		-5.43%	-6.95%	-4.74%	-8.41%	-8.60%	-8.26%	-3.62%	0.70%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-0.36%	-0.78%	-0.74%	-2.29%	-1.46%	-1.56%	-0.79%	-0.80%	-1.28%	-1.25%	-1.26%	-1.28%
PHA		-1.42%	4.61%	1.24%	-6.09%	-2.98%	0.22%	0.12%	-0.02%	0.00%	0.00%	0.00%	0.00%
Charities & Schools		-0.38%	-4.14%	-4.55%	-0.16%	1.25%	0.24%	0.33%	-0.16%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-4.79%	-6.09%	0.47%	5.13%	8.31%	7.71%	-0.46%	0.58%	0.00%	0.00%	0.00%	0.00%
Hand Bill		1.54%	-2.68%	-5.60%	-2.47%	-1.01%	0.36%	5.98%	2.45%	0.00%	0.00%	0.00%	0.00%
Scheduled		38.31%	15.19%	-30.37%	-42.68%	-21.34%	10.70%	6.32%	-5.38%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-44.84%	-44.29%	49.94%	39.70%	-7.04%	3.22%	-0.22%	-2.34%	0.00%	0.00%	0.00%	0.00%
Sewer Only		20.05%	-7.33%	-8.59%	25.16%	5.20%	-17.87%	0.08%	3.40%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		-11.04%	46.36%	49.49%	-13.67%	-13.92%	-5.27%	-8.26%	-2.46%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-0.04%	0.19%	-0.71%	-2.75%	-2.42%	-1.85%	0.14%	-0.49%	-1.00%	-0.97%	-0.98%	-0.98%

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume Per Account Growth													**Customer - 13A**
3-Year Average Growth													
Senior Citizens													
5/8" Meter		-0.78%	1.15%	-1.27%	-1.73%	-2.21%	0.19%	0.03%	-0.82%	-2.46%	-1.97%	-1.95%	-1.99%
> 5/8" Meter		-9.14%	-20.54%	-23.23%	-18.07%	2.02%	-3.61%	8.41%	-5.55%	4.62%	0.00%	0.00%	0.00%
Total Senior Citizens		-0.78%	1.14%	-1.29%	-1.73%	-2.21%	0.19%	0.04%	-0.82%	-2.46%	-1.97%	-1.95%	-1.99%
General Service (Residential)													
5/8" Meter		#N/A	-0.28%	-2.59%	-1.61%	-2.63%	-1.87%	-1.93%	-1.68%	-1.71%	-1.99%	-1.97%	-2.01%
> 5/8" Meter		#N/A	-12.53%	-17.25%	-15.85%	-16.29%	-14.98%	-7.69%	-2.28%	2.59%	0.00%	0.00%	0.00%
Total General Service (Residential)		#N/A	-0.48%	-2.71%	-1.68%	-2.65%	-1.86%	-1.59%	-1.21%	-1.18%	-1.73%	-1.71%	-1.74%
General Service (Commercial)													
5/8" Meter		#N/A	0.81%	-1.17%	-0.92%	-2.49%	-2.29%	-1.66%	-1.87%	-1.54%	-2.02%	-2.03%	-2.00%
> 5/8" Meter		#N/A	-0.55%	-2.39%	-0.75%	-2.74%	-3.56%	-1.74%	-1.03%	0.65%	0.00%	0.00%	0.00%
Total General Service (Commercial)		#N/A	1.01%	-0.31%	1.00%	-0.41%	-0.88%	-0.03%	-0.58%	0.22%	-0.38%	-0.38%	-0.37%
General Service (Industrial)													
5/8" Meter		#N/A	3.35%	1.40%	2.24%	1.94%	5.24%	2.99%	-0.55%	-2.78%	-2.00%	-1.99%	-2.00%
> 5/8" Meter		#N/A	-1.32%	0.60%	0.95%	-2.86%	2.16%	-8.52%	-5.11%	-12.07%	0.00%	0.00%	0.00%
Total General Service (Industrial)		#N/A	-0.94%	2.03%	1.09%	-2.28%	2.77%	-7.21%	-4.54%	-11.37%	-0.18%	-0.18%	-0.18%
General Service (Public Utilities)													
5/8" Meter		#N/A	-9.90%	-9.99%	-3.93%	7.56%	-5.43%	-1.94%	-5.61%	3.10%	-1.99%	-1.99%	-2.00%
> 5/8" Meter		#N/A	7.52%	0.41%	10.43%	-10.47%	-10.52%	-13.38%	-1.09%	1.15%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		#N/A	6.59%	-1.48%	6.70%	-11.74%	-13.58%	-14.99%	-2.73%	1.29%	-0.15%	-0.15%	-0.14%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.64%	-0.10%	-2.42%	-1.54%	-2.64%	-1.91%	-1.90%	-1.68%	-1.70%	-1.99%	-1.98%	-2.01%
> 5/8" Meter		-11.46%	-4.18%	-7.22%	-6.20%	-8.32%	-8.52%	-5.15%	-2.43%	0.46%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-5.33%	0.49%	-1.63%	-0.74%	-2.07%	-1.39%	-1.14%	-0.95%	-0.91%	-1.25%	-1.24%	-1.25%
General Service (Including Senior Citizens)													
5/8" Meter		-2.59%	-0.09%	-2.42%	-1.59%	-2.66%	-1.85%	-1.84%	-1.66%	-1.73%	-1.99%	-1.98%	-2.01%
> 5/8" Meter		-11.46%	-4.18%	-7.22%	-6.20%	-8.32%	-8.53%	-5.15%	-2.43%	0.46%	0.00%	0.00%	0.00%
Total General Service (including SC)		-5.26%	0.45%	-1.69%	-0.85%	-2.14%	-1.40%	-1.14%	-0.96%	-0.95%	-1.27%	-1.26%	-1.27%
PHA		-2.52%	2.00%	0.89%	-1.24%	-4.05%	-1.90%	0.13%	0.08%	-0.02%	0.00%	0.00%	0.00%
Charities & Schools		-21.13%	-2.23%	-3.85%	-2.09%	-0.27%	1.16%	0.05%	0.22%	-0.11%	0.00%	0.00%	0.00%
Hospital/University		#N/A	-6.40%	-0.53%	-0.01%	9.39%	4.74%	5.48%	-0.30%	0.38%	0.00%	0.00%	0.00%
Hand Bill		#N/A	0.18%	-4.70%	-2.48%	-3.62%	1.59%	1.87%	3.95%	1.63%	0.00%	0.00%	0.00%
Scheduled		#N/A	21.64%	-11.90%	-32.39%	-31.68%	-7.90%	3.14%	4.17%	-3.62%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-28.52%	-33.30%	-10.56%	23.93%	25.83%	-3.38%	0.54%	-0.15%	-1.56%	0.00%	0.00%	0.00%
Sewer Only		-18.39%	5.72%	-4.35%	8.70%	4.10%	1.21%	-10.32%	0.05%	2.25%	0.00%	0.00%	0.00%
Groundwater (Non-City)		#N/A	20.11%	29.78%	17.74%	-8.90%	-13.14%	-5.13%	-5.58%	-1.65%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	1.06%	-1.42%	-0.78%	-3.13%	-1.54%	-1.22%	-0.25%	-0.65%	-0.99%	-0.97%	-0.98%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Billed Volume Per Account Growth													**Customer - 13A**
5-Year Average Growth													
Senior Citizens													
5/8" Meter		-0.61%	0.20%	-0.92%	-0.75%	-1.27%	-0.33%	-1.41%	-0.99%	-0.78%	-1.26%	-2.26%	-1.99%
> 5/8" Meter		-4.99%	-12.76%	-12.51%	-18.83%	-11.25%	-9.36%	-2.20%	0.50%	4.96%	-3.37%	2.75%	0.00%
Total Senior Citizens		-0.61%	0.19%	-0.92%	-0.75%	-1.27%	-0.34%	-1.41%	-0.99%	-0.78%	-1.26%	-2.26%	-1.98%
General Service (Residential)													
5/8" Meter		#N/A	#N/A	#N/A	-1.19%	-2.31%	-1.89%	-2.17%	-1.76%	-1.96%	-1.79%	-1.83%	-2.01%
> 5/8" Meter		#N/A	#N/A	#N/A	-14.18%	-16.62%	-15.37%	-11.36%	-7.88%	-4.68%	-1.38%	1.55%	0.00%
Total General Service (Residential)		#N/A	#N/A	#N/A	-1.30%	-2.39%	-1.95%	-1.96%	-1.49%	-1.65%	-1.40%	-1.40%	-1.74%
General Service (Commercial)													
5/8" Meter		#N/A	#N/A	#N/A	-0.74%	-1.48%	-1.43%	-2.21%	-1.89%	-1.81%	-1.93%	-1.73%	-2.02%
> 5/8" Meter		#N/A	#N/A	#N/A	-1.56%	-2.59%	-1.87%	-2.26%	-1.77%	-1.05%	-0.62%	0.39%	0.00%
Total General Service (Commercial)		#N/A	#N/A	#N/A	0.10%	-0.15%	0.29%	-0.52%	-0.32%	-0.17%	-0.50%	-0.02%	-0.38%
General Service (Industrial)													
5/8" Meter		#N/A	#N/A	#N/A	1.45%	2.98%	4.06%	1.24%	1.79%	0.97%	-1.13%	-2.46%	-2.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-0.33%	-2.89%	2.99%	-4.77%	-6.23%	-5.21%	-3.10%	-7.43%	0.00%
Total General Service (Industrial)		#N/A	#N/A	#N/A	-0.21%	-1.56%	3.38%	-4.05%	-5.41%	-4.46%	-2.82%	-7.05%	-0.18%
General Service (Public Utilities)													
5/8" Meter		#N/A	#N/A	#N/A	-3.70%	-3.89%	-6.03%	1.32%	-1.11%	-1.96%	-4.18%	1.04%	-2.00%
> 5/8" Meter		#N/A	#N/A	#N/A	5.84%	-4.95%	-3.30%	-7.04%	-5.81%	-8.26%	-0.66%	0.69%	0.00%
Total General Service (Public Utilities)		#N/A	#N/A	#N/A	4.54%	-6.94%	-6.46%	-8.72%	-7.65%	-9.34%	-1.71%	0.71%	-0.15%
General Service (Excluding Senior Citizens)													
5/8" Meter		-2.91%	-1.58%	-2.28%	-1.12%	-2.22%	-1.84%	-2.19%	-1.77%	-1.94%	-1.79%	-1.82%	-2.01%
> 5/8" Meter		-8.22%	-7.79%	-8.83%	-5.89%	-7.77%	-7.03%	-6.47%	-4.94%	-3.12%	-1.46%	0.28%	0.00%
Total General Service (excluding SC)		-4.55%	-3.09%	-3.48%	-0.58%	-1.54%	-1.09%	-1.55%	-1.13%	-1.19%	-1.06%	-1.04%	-1.25%
General Service (Including Senior Citizens)													
5/8" Meter		-2.85%	-1.55%	-2.26%	-1.14%	-2.22%	-1.82%	-2.18%	-1.76%	-1.90%	-1.78%	-1.84%	-2.01%
> 5/8" Meter		-8.22%	-7.79%	-8.83%	-5.89%	-7.77%	-7.03%	-6.47%	-4.95%	-3.12%	-1.47%	0.28%	0.00%
Total General Service (including SC)		-4.49%	-3.06%	-3.48%	-0.66%	-1.60%	-1.14%	-1.60%	-1.16%	-1.20%	-1.08%	-1.08%	-1.27%
PHA		-3.00%	-0.09%	-1.03%	-1.31%	-0.67%	-0.66%	-2.40%	-1.15%	0.08%	0.05%	-0.01%	0.00%
Charities & Schools		-14.38%	-13.26%	-14.88%	-1.41%	-1.84%	-1.17%	-0.03%	0.63%	0.03%	0.13%	-0.06%	0.00%
Hospital/University		#N/A	#N/A	#N/A	-1.95%	2.91%	3.01%	5.34%	3.05%	3.25%	-0.18%	0.23%	0.00%
Hand Bill		#N/A	#N/A	#N/A	-0.89%	-3.24%	-1.35%	0.11%	1.93%	1.12%	2.35%	0.97%	0.00%
Scheduled		#N/A	#N/A	#N/A	-9.98%	-15.81%	-17.65%	-18.46%	-6.90%	1.87%	2.48%	-2.19%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		16.96%	-30.59%	-3.86%	-10.35%	-9.17%	15.19%	14.68%	-2.96%	0.32%	-0.09%	-0.94%	0.00%
Sewer Only		249.30%	-20.45%	-14.60%	13.10%	-0.64%	-2.83%	2.47%	2.08%	-6.33%	0.03%	1.35%	0.00%
Groundwater (Non-City)		#N/A	#N/A	#N/A	5.25%	10.12%	7.93%	-8.64%	-9.01%	-3.11%	-3.39%	-0.99%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		#N/A	#N/A	#N/A	-0.48%	-1.82%	-1.21%	-1.83%	-1.12%	-1.13%	-0.54%	-0.78%	-0.99%

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Existing Rates													**Customer - 14**
Actual Rate													
Service Charge ($/bill)													
5/8"		6.36	6.55	6.55	7.17	7.41	7.04	7.01	7.01	7.01	7.01	7.01	7.01
3/4"		7.81	8.04	8.04	8.76	9.08	8.95	8.93	8.93	8.93	8.93	8.93	8.93
1"		11.05	11.39	11.39	12.34	12.84	13.06	13.07	13.07	13.07	13.07	13.07	13.07
1 1/4"		15.16	15.64	15.64	16.87	17.61	18.33	18.37	18.37	18.37	18.37	18.37	18.37
1 1/2"		18.63	19.24	19.24	20.68	21.63	22.89	22.97	22.97	22.97	22.97	22.97	22.97
2"		28.35	29.31	29.31	31.41	32.90	35.25	35.42	35.42	35.42	35.42	35.42	35.42
3"		50.34	52.07	52.07	55.65	58.40	63.46	63.82	63.82	63.82	63.82	63.82	63.82
4"		86.21	89.15	89.15	95.42	100.05	107.93	108.49	108.49	108.49	108.49	108.49	108.49
6"		168.95	174.77	174.77	186.85	196.03	212.60	213.81	213.81	213.81	213.81	213.81	213.81
8"		266.14	275.38	275.38	294.17	308.78	336.27	338.27	338.27	338.27	338.27	338.27	338.27
10"		384.75	398.07	398.07	425.36	446.41	485.42	488.25	488.25	488.25	488.25	488.25	488.25
12"		691.38	715.77	715.77	763.12	801.99	881.42	887.22	887.22	887.22	887.22	887.22	887.22
14"		-	-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)													
0 - 2 Mcf		26.19	28.07	28.07	30.55	32.46	30.82	31.25	31.25	31.25	31.25	31.25	31.25
2 - 100 Mcf		26.19	28.07	28.07	30.55	32.46	30.82	31.25	31.25	31.25	31.25	31.25	31.25
100 - 2,000 Mcf		26.19	28.07	28.07	30.55	32.46	30.82	31.25	31.25	31.25	31.25	31.25	31.25
Over 2,000 Mcf		26.19	28.07	28.07	30.55	32.46	30.82	31.25	31.25	31.25	31.25	31.25	31.25
Groundwater Volume Charge ($/Mcf)		10.13	10.76	10.76	11.31	11.93	13.76	13.86	13.86	13.86	13.86	13.86	13.86
Effective Rate													
Effective Months													
Service Charge		12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Volume Charge		11.50	11.50	11.50	11.50	11.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
Service Charge ($/bill)													
5/8"		6.36	6.55	6.55	7.17	7.41	7.10	7.02	7.01	7.01	7.01	7.01	7.01
3/4"		7.81	8.04	8.04	8.76	9.08	8.97	8.93	8.93	8.93	8.93	8.93	8.93
1"		11.05	11.39	11.39	12.34	12.84	13.02	13.07	13.07	13.07	13.07	13.07	13.07
1 1/4"		15.16	15.64	15.64	16.87	17.61	18.21	18.36	18.37	18.37	18.37	18.37	18.37
1 1/2"		18.63	19.24	19.24	20.68	21.63	22.68	22.96	22.97	22.97	22.97	22.97	22.97
2"		28.35	29.31	29.31	31.41	32.90	34.86	35.39	35.42	35.42	35.42	35.42	35.42
3"		50.34	52.07	52.07	55.65	58.40	62.62	63.76	63.82	63.82	63.82	63.82	63.82
4"		86.21	89.15	89.15	95.42	100.05	106.62	108.40	108.49	108.49	108.49	108.49	108.49
6"		168.95	174.77	174.77	186.85	196.03	209.84	213.61	213.81	213.81	213.81	213.81	213.81
8"		266.14	275.38	275.38	294.17	308.78	331.69	337.94	338.27	338.27	338.27	338.27	338.27
10"		384.75	398.07	398.07	425.36	446.41	478.92	487.78	488.25	488.25	488.25	488.25	488.25
12"		691.38	715.77	715.77	763.12	801.99	868.18	886.25	887.22	887.22	887.22	887.22	887.22
14"		-	-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)													
0 - 2 Mcf		26.27	27.99	28.07	30.45	32.38	31.16	31.16	31.25	31.25	31.25	31.25	31.25
2 - 100 Mcf		26.27	27.99	28.07	30.45	32.38	31.16	31.16	31.25	31.25	31.25	31.25	31.25
100 - 2,000 Mcf		26.27	27.99	28.07	30.45	32.38	31.16	31.16	31.25	31.25	31.25	31.25	31.25
Over 2,000 Mcf		26.27	27.99	28.07	30.45	32.38	31.16	31.16	31.25	31.25	31.25	31.25	31.25
Groundwater Volume Charge ($/Mcf)		10.16	10.73	10.76	11.29	11.90	13.38	13.84	13.86	13.86	13.86	13.86	13.86

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Calculated Billings (prior to adjustment factor)													**Customer - 15**
Senior Citizens													
5/8" Meter		3,280	3,621	3,737	4,170	4,529	4,533	4,411	4,358	4,303	4,248	4,193	4,138
> 5/8" Meter		1	1	1	1	2	2	2	2	2	2	2	2
Total Senior Citizens		3,281	3,622	3,738	4,171	4,530	4,535	4,413	4,360	4,305	4,250	4,195	4,140
General Service (Residential)													
5/8" Meter		107,198	111,525	110,321	119,473	125,563	117,617	116,236	114,766	113,215	111,665	110,114	108,564
> 5/8" Meter		10,157	10,606	10,676	11,997	12,915	12,733	13,631	13,666	13,666	13,666	13,666	13,666
Total General Service (Residential)		117,355	122,131	120,997	131,470	138,478	130,350	129,867	128,432	126,881	125,331	123,780	122,230
General Service (Commercial)													
5/8" Meter		10,499	11,383	11,090	11,804	12,393	11,586	11,505	11,345	11,160	10,984	10,808	10,641
> 5/8" Meter		31,485	35,618	35,741	38,902	43,000	40,900	41,678	41,791	41,791	41,791	41,791	41,791
Total General Service (Commercial)		41,984	47,001	46,831	50,706	55,393	52,485	53,183	53,136	52,951	52,775	52,599	52,432
General Service (Industrial)													
5/8" Meter		191	215	206	227	256	251	242	238	234	231	227	223
> 5/8" Meter		2,220	2,358	2,533	2,593	2,516	3,004	2,105	2,110	2,110	2,110	2,110	2,110
Total General Service (Industrial)		2,411	2,573	2,738	2,821	2,771	3,255	2,346	2,349	2,345	2,341	2,337	2,333
General Service (Public Utilities)													
5/8" Meter		14	14	17	23	30	26	28	28	27	27	27	26
> 5/8" Meter		251	330	339	446	343	318	327	328	328	328	328	328
Total General Service (Public Utilities)		265	344	357	469	373	343	356	356	356	355	355	355
General Service (Excluding Senior Citizens)													
5/8" Meter		117,902	123,137	121,634	131,527	138,241	129,479	128,011	126,377	124,637	122,907	121,176	119,454
> 5/8" Meter		44,114	48,912	49,289	53,938	58,775	56,954	57,741	57,895	57,895	57,895	57,895	57,895
Total General Service (excluding SC)		162,015	172,049	170,923	185,465	197,015	186,433	185,752	184,272	182,533	180,802	179,071	177,349
General Service (Including Senior Citizens)													
5/8" Meter		121,182	126,758	125,371	135,697	142,769	134,012	132,422	130,734	128,940	127,154	125,369	123,592
> 5/8" Meter		44,115	48,913	49,290	53,939	58,776	56,957	57,744	57,898	57,898	57,898	57,898	57,898
Total General Service (including SC)		165,297	175,671	174,661	189,636	201,546	190,968	190,165	188,632	186,837	185,052	183,266	181,489
PHA		4,668	5,275	4,872	5,161	5,466	5,246	5,240	5,253	5,253	5,253	5,253	5,253
Charities & Schools		4,783	4,622	4,366	4,652	4,499	4,261	4,257	4,268	4,268	4,268	4,268	4,268
Hospital/University		5,406	6,008	6,612	7,186	6,359	6,971	7,053	7,073	7,073	7,073	7,073	7,073
Hand Bill		14,011	14,157	12,729	13,765	13,019	13,292	13,943	13,983	13,983	13,983	13,983	13,983
Scheduled		1	1	1	1	1	1	1	1	1	1	1	1
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		79	75	179	193	244	261	249	250	250	250	250	250
Sewer Only		2,034	1,992	2,375	3,123	2,477	2,095	2,238	2,245	2,245	2,245	2,245	2,245
Groundwater (Non-City)		1,603	2,969	2,278	2,327	2,489	3,094	3,045	3,049	3,049	3,049	3,049	3,049
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Total		197,881	210,769	208,072	226,042	236,100	226,188	226,191	224,753	222,959	221,173	219,387	217,611

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Retail - Billings Under Existing Rates													**Customer - 16**
Senior Citizens													
5/8" Meter		3,280	3,621	3,737	4,170	4,529	4,533	4,411	4,358	4,303	4,248	4,193	4,138
> 5/8" Meter		1	1	1	1	2	2	2	2	2	2	2	2
Total Senior Citizens		3,281	3,622	3,738	4,171	4,530	4,535	4,413	4,360	4,305	4,250	4,195	4,140
General Service (Residential)													
5/8" Meter		107,198	111,525	110,321	119,473	125,563	117,617	116,236	114,766	113,215	111,665	110,114	108,564
> 5/8" Meter		10,157	10,606	10,676	11,997	12,915	12,733	13,631	13,666	13,666	13,666	13,666	13,666
Total General Service (Residential)		117,355	122,131	120,997	131,470	138,478	130,350	129,867	128,432	126,881	125,331	123,780	122,230
General Service (Commercial)													
5/8" Meter		10,499	11,383	11,090	11,804	12,393	11,586	11,505	11,345	11,160	10,984	10,808	10,641
> 5/8" Meter		31,485	35,618	35,741	38,902	43,000	40,900	41,678	41,791	41,791	41,791	41,791	41,791
Total General Service (Commercial)		41,984	47,001	46,831	50,706	55,393	52,485	53,183	53,136	52,951	52,775	52,599	52,432
General Service (Industrial)													
5/8" Meter		191	215	206	227	256	251	242	238	234	231	227	223
> 5/8" Meter		2,220	2,358	2,533	2,593	2,516	3,004	2,105	2,110	2,110	2,110	2,110	2,110
Total General Service (Industrial)		2,411	2,573	2,738	2,821	2,771	3,255	2,346	2,349	2,345	2,341	2,337	2,333
General Service (Public Utilities)													
5/8" Meter		14	14	17	23	30	26	28	28	27	27	27	26
> 5/8" Meter		251	330	339	446	343	318	327	328	328	328	328	328
Total General Service (Public Utilities)		265	344	357	469	373	343	356	356	356	355	355	355
General Service (Excluding Senior Citizens)													
5/8" Meter		117,902	123,137	121,634	131,527	138,241	129,479	128,011	126,377	124,637	122,907	121,176	119,454
> 5/8" Meter		44,114	48,912	49,289	53,938	58,775	56,954	57,741	57,895	57,895	57,895	57,895	57,895
Total General Service (excluding SC)		162,015	172,049	170,923	185,465	197,015	186,433	185,752	184,272	182,533	180,802	179,071	177,349
General Service (Including Senior Citizens)													
5/8" Meter		121,182	126,758	125,371	135,697	142,769	134,012	132,422	130,734	128,940	127,154	125,369	123,592
> 5/8" Meter		44,115	48,913	49,290	53,939	58,776	56,957	57,744	57,898	57,898	57,898	57,898	57,898
Total General Service (including SC)		165,297	175,671	174,661	189,636	201,546	190,968	190,165	188,632	186,837	185,052	183,266	181,489
PHA		4,668	5,275	4,872	5,161	5,466	5,246	5,240	5,253	5,253	5,253	5,253	5,253
Charities & Schools		4,783	4,622	4,366	4,652	4,499	4,261	4,257	4,268	4,268	4,268	4,268	4,268
Hospital/University		5,406	6,008	6,612	7,186	6,359	6,971	7,053	7,073	7,073	7,073	7,073	7,073
Hand Bill		14,011	14,157	12,729	13,765	13,019	13,292	13,943	13,983	13,983	13,983	13,983	13,983
Scheduled		1	1	1	1	1	1	1	1	1	1	1	1
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		79	75	179	193	244	261	249	250	250	250	250	250
Sewer Only		2,034	1,992	2,375	3,123	2,477	2,095	2,238	2,245	2,245	2,245	2,245	2,245
Groundwater (non-City)		1,603	2,969	2,278	2,327	2,489	3,094	3,045	3,049	3,049	3,049	3,049	3,049
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Total		197,881	210,769	208,072	226,042	236,100	226,188	226,191	224,753	222,958	221,173	219,387	217,610
Total Excluding xxxxxxxxxx & Fire		197,803	210,695	207,892	225,850	235,856	225,927	225,942	224,503	222,708	220,923	219,137	217,360

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Retail - Collections													**Customer - 17**
		164,994	173,209	188,575	202,787	200,628							
Total General Service Billings Excluding xxxxxxxxxx & Fire		197,803	210,695	207,892	225,850	235,856	225,927	225,942	224,503	222,708	220,923	219,137	217,360
Total General Service Billings Excluding Fire		197,803	210,695	207,892	225,850	235,856	225,927	225,942	224,503	222,708	220,923	219,137	217,360
Collection Factors													
Current Year		86.19%	87.15%	87.68%	88.16%	87.89%	86.87%	86.68%	86.68%	86.68%	86.68%	86.68%	86.68%
First Year Prior		9.81%	8.63%	8.26%	8.31%	8.17%	8.36%	8.74%	8.74%	8.74%	8.74%	8.74%	8.74%
Second Year Prior		1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%
Collections		Actual	Actual	Actual	Actual	Actual	Actual						
General Service		211,417	225,485	222,408	240,900	245,907	213,394	220,073	218,639	216,958	215,226	213,488	211,758
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Protection		100	-	-	-	-	261	249	250	250	250	250	250
Total		211,517	225,485	222,408	240,900	245,907	213,655	220,323	218,889	217,208	215,476	213,738	212,008
General Service Calculated		182,659	196,294	193,352	220,388	229,696	220,271	220,073	218,639	216,958	215,226	174,942	211,758
Actual		211,417	225,485	222,408	240,900	245,907	231,225						
Ratio		86.4%	87.1%	86.9%	91.5%	93.4%	95.3%						
General Service + xxxxxxxxxx Calculated		182,659	196,294	193,352	220,388	229,696	220,271	220,073	218,639	216,958	215,226	174,942	211,758
Actual		211,417	225,485	222,408	240,900	245,907	231,225						
Ratio		86.4%	87.1%	86.9%	91.5%	93.4%	95.3%						
Collections - Detail													
Senior Citizens							4,397	4,308	4,251	4,196	4,143	4,089	4,036
General Service (Residential)							127,310	126,592	125,152	123,673	122,166	120,657	119,148
General Service (Commercial)							51,188	51,739	51,703	51,552	51,383	51,211	51,048
General Service (Industrial)							3,113	2,371	2,303	2,282	2,279	2,275	2,271
General Service (Public Utilities)							338	345	346	346	346	345	345
PHA							5,112	5,104	5,111	5,112	5,112	5,112	5,112
Charities & Schools							4,166	4,148	4,152	4,153	4,153	4,153	4,153
Hospital/University							6,724	6,843	6,879	6,883	6,883	6,883	6,883
Hand Bill							12,896	13,495	13,591	13,607	13,608	13,608	13,608
Scheduled							1	1	1	1	1	1	1
xxxxxxxxxx							-	-	-	-	-	-	-
xxxxxxxxxx							-	-	-	-	-	-	-
Fire Service							261	249	250	250	250	250	250
Sewer Only							2,086	2,170	2,181	2,184	2,184	2,184	2,184
Groundwater (non-City)							2,940	2,957	2,968	2,967	2,967	2,967	2,967
xxxxxxxxxx							-	-	-	-	-	-	-
Total		-	-	-	-	-	220,533	220,323	218,889	217,208	215,476	213,738	212,008

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Surcharge													**Customer - 18**
Surcharge Accounts		76	74	70	67	70	71	71	71	71	71	71	71
Account Growth		(6)	(2)	(4)	(3)	3	-	-	-	-	-	-	-
Billed lbs													
BOD		14,102,589	15,302,981	16,947,824	15,081,956	9,125,634	10,650,000	10,650,000	10,650,000	10,650,000	10,650,000	10,650,000	10,650,000
SS		2,030,223	1,829,290	2,467,261	1,967,143	1,514,551	1,633,000	1,633,000	1,633,000	1,633,000	1,633,000	1,633,000	1,633,000
lbs per Account													
BOD		185,560	206,797	242,112	225,104	130,366	150,000	150,000	150,000	150,000	150,000	150,000	150,000
SS		26,713	24,720	35,247	29,360	21,636	23,000	23,000	23,000	23,000	23,000	23,000	23,000
Effective Rate ($/lb)													
BOD		0.327	0.350	0.350	0.350	0.372	0.391	0.397	0.397	0.397	0.397	0.397	0.397
SS		0.310	0.332	0.332	0.369	0.393	0.391	0.388	0.388	0.388	0.388	0.388	0.388
Surcharge Revenue													
BOD		4,612	5,356	5,932	5,279	3,395	4,166	4,225	4,228	4,228	4,228	4,228	4,228
SS		629	607	819	726	595	638	634	634	634	634	634	634
Total		5,241	5,963	6,751	6,005	3,990	4,804	4,859	4,862	4,862	4,862	4,862	4,862
Actual - Input		4,252	3,407	7,375	5,909	5,628	4,699	-					

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Abington													
Rates													
Volume ($/Mcf)		1.4676	1.5385	1.5385	1.5974	1.6303	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)		9,378	9,591	9,591	11,925	12,295	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		503,000	503,000	503,000	595,000	595,000	589,167	587,167	587,000	587,000	587,000	587,000	587,000
Management Fee (%)		10.00%	10.00%	10.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		102,068	100,091	95,757	88,329	94,740	98,164	96,000	96,000	96,000	96,000	96,000	96,000
Capacity (cfs)		9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542
SS (1,000 lbs.)		1,167	1,068	963	891	945	979	1,000	1,000	1,000	1,000	1,000	1,000
BOD (1,000 lbs.)		989	1,295	1,498	1,380	1,469	1,423	1,400	1,400	1,400	1,400	1,400	1,400
Billings													
Volume		149,794	153,989	147,322	141,097	154,454	173,103	169,440	168,960	168,960	168,960	168,960	168,960
Capacity		89,485	91,517	91,517	113,788	117,319	121,126	120,773	120,554	120,554	120,554	120,554	120,554
SS		206,535	198,964	179,468	193,124	211,663	214,401	216,765	216,490	216,490	216,490	216,490	216,490
BOD		190,519	260,357	301,276	333,881	367,652	355,822	350,835	351,022	351,022	351,022	351,022	351,022
Lump Sum		503,000	503,000	503,000	595,000	595,000	589,167	587,167	587,000	587,000	587,000	587,000	587,000
Management Fee		113,933	120,783	122,258	165,227	173,531	174,434	173,398	173,283	173,283	173,283	173,283	173,283
Total		1,253,267	1,328,611	1,344,842	1,542,118	1,619,618	1,628,053	1,618,378	1,617,309	1,617,309	1,617,309	1,617,309	1,617,309
Bensalem													
Rates													
Volume ($/Mcf)		1.4676	1.5385	1.5385	1.5974	1.6303	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)		9,378	9,591	9,591	11,925	12,295	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		93,000	93,000	93,000	91,000	91,000	92,667	92,167	92,000	92,000	92,000	92,000	92,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units													
Volume (Mcf)		180,864	171,935	165,636	164,090	172,705	178,629	175,000	175,000	175,000	175,000	175,000	175,000
Capacity (cfs)		11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740
SS (1,000 lbs.)		2,204	2,189	2,302	2,251	2,269	1,666	2,000	2,000	2,000	2,000	2,000	2,000
BOD (1,000 lbs.)		2,525	2,697	2,754	2,676	2,756	1,640	2,200	2,200	2,200	2,200	2,200	2,200
Billings													
Volume		265,436	264,521	254,831	262,117	281,561	314,995	308,875	308,000	308,000	308,000	308,000	308,000
Capacity		110,098	112,598	112,598	140,000	144,343	149,028	148,593	148,323	148,323	148,323	148,323	148,323
SS		389,985	407,878	428,859	487,795	507,877	364,928	433,530	432,980	432,980	432,980	432,980	432,980
BOD		486,157	542,362	553,885	647,549	689,665	409,944	551,313	551,606	551,606	551,606	551,606	551,606
Lump Sum		93,000	93,000	93,000	91,000	91,000	92,667	92,167	92,000	92,000	92,000	92,000	92,000
Management Fee		134,468	142,036	144,317	162,846	171,445	133,156	153,448	153,291	153,291	153,291	153,291	153,291
Total		1,479,143	1,562,395	1,587,491	1,791,307	1,885,890	1,464,718	1,687,926	1,686,200	1,686,200	1,686,200	1,686,200	1,686,200

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Bucks County													
Rates													
Volume ($/Mcf)		1.4676	1.5385	1.5385	1.5974	1.6303	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)		9,378	9,591	9,591	11,925	12,295	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		185,000	185,000	185,000	564,000	564,000	425,667	396,333	396,000	396,000	396,000	396,000	396,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units													
Volume (Mcf)		945,440	846,849	777,314	754,135	898,824	1,123,541	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Capacity (cfs)		74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260
SS (1,000 lbs.)		9,887	11,614	10,111	9,734	11,232	9,441	10,300	10,300	10,300	10,300	10,300	10,300
BOD (1,000 lbs.)		9,067	10,732	9,852	9,021	10,133	9,377	9,800	9,800	9,800	9,800	9,800	9,800
Billings													
Volume		1,387,528	1,302,877	1,195,898	1,204,655	1,465,353	1,981,252	1,765,000	1,760,000	1,760,000	1,760,000	1,760,000	1,760,000
Capacity		696,410	712,228	712,228	885,551	913,027	942,656	939,909	938,201	938,201	938,201	938,201	938,201
SS		1,749,438	2,164,110	1,883,902	2,108,932	2,514,481	2,068,495	2,232,680	2,229,847	2,229,847	2,229,847	2,229,847	2,229,847
BOD		1,746,010	2,158,341	1,981,324	2,182,759	2,536,028	2,344,032	2,455,848	2,457,154	2,457,154	2,457,154	2,457,154	2,457,154
Lump Sum		185,000	185,000	185,000	564,000	564,000	425,667	396,333	396,000	396,000	396,000	396,000	396,000
Management Fee		576,439	652,256	595,835	694,590	799,289	776,210	778,977	778,120	778,120	778,120	778,120	778,120
Total		6,340,825	7,174,811	6,554,187	7,640,486	8,792,178	8,538,313	8,568,746	8,559,322	8,559,322	8,559,322	8,559,322	8,559,322
Cheltenham													
Rates													
Volume ($/Mcf)		1.3815	1.4478	1.4478	1.4491	1.5290	1.6548	1.6550	1.6500	1.6500	1.6500	1.6500	1.6500
Capacity ($/cfs)		4,870	4,993	4,993	6,489	6,696	6,866	6,840	6,828	6,828	6,828	6,828	6,828
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		1,119,000	1,119,000	1,119,000	1,495,000	1,495,000	1,490,833	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		281,173	356,825	294,940	347,778	391,871	464,162	428,000	428,000	428,000	428,000	428,000	428,000
Capacity (cfs)		31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750
SS (1,000 lbs.)		2,522	3,135	2,582	3,018	2,985	2,985	3,400	3,400	3,400	3,400	3,400	3,400
BOD (1,000 lbs.)		2,182	2,726	2,252	2,631	2,597	2,597	3,000	3,000	3,000	3,000	3,000	3,000
Billings													
Volume		388,441	516,612	427,014	503,965	599,171	768,095	708,340	706,200	706,200	706,200	706,200	706,200
Capacity		154,623	158,528	158,528	206,026	212,598	217,996	217,170	216,789	216,789	216,789	216,789	216,789
SS		446,223	584,232	481,123	653,888	668,285	654,019	737,001	736,066	736,066	736,066	736,066	736,066
BOD		420,206	548,260	452,858	636,598	650,097	649,331	751,790	752,190	752,190	752,190	752,190	752,190
Lump Sum		1,119,000	1,119,000	1,119,000	1,495,000	1,495,000	1,490,833	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000	1,490,000
Management Fee		303,419	351,196	316,623	419,457	435,018	453,633	468,516	468,149	468,149	468,149	468,149	468,149
Total		2,831,912	3,277,828	2,955,145	3,914,935	4,060,170	4,233,906	4,372,817	4,369,394	4,369,394	4,369,394	4,369,394	4,369,394

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Lower Moreland													
Rates													
Volume ($/Mcf)		1.4676	1.5385	1.5385	1.5974	1.6303	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)		9,378	9,591	9,591	11,925	12,295	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		286,000	286,000	286,000	307,000	307,000	331,167	335,167	335,000	335,000	335,000	335,000	335,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		63,271	57,771	51,038	49,955	60,522	70,412	65,000	65,000	65,000	65,000	65,000	65,000
Capacity (cfs)		8.970	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880
SS (1,000 lbs.)		647	593	518	509	615	706	660	660	660	660	660	660
BOD (1,000 lbs.)		486	447	389	383	462	529	500	500	500	500	500	500
Billings													
Volume		92,856	88,881	78,522	79,798	98,669	124,165	114,725	114,400	114,400	114,400	114,400	114,400
Capacity		84,121	56,395	56,395	70,119	72,295	74,641	74,423	74,288	74,288	74,288	74,288	74,288
SS		114,412	110,585	96,448	110,363	137,690	154,669	143,065	142,883	142,883	142,883	142,883	142,883
BOD		93,680	89,864	78,250	92,683	115,696	132,367	125,298	125,365	125,365	125,365	125,365	125,365
Lump Sum		286,000	286,000	286,000	307,000	307,000	331,167	335,167	335,000	335,000	335,000	335,000	335,000
Management Fee		80,528	75,807	71,474	79,196	87,762	98,041	95,121	95,032	95,032	95,032	95,032	95,032
Total		751,598	707,533	667,089	739,158	819,112	915,049	887,800	886,969	886,969	886,969	886,969	886,969
Lower Southampton													
Rates													
Volume ($/Mcf)		1.4676	1.5385	1.5385	1.5974	1.6303	1.7634	1.7650	1.7600	1.7600	1.7600	1.7600	1.7600
Capacity ($/cfs)		9,378	9,591	9,591	11,925	12,295	12,694	12,657	12,634	12,634	12,634	12,634	12,634
SS ($/1,000 lbs.)		176.9354	186.3307	186.3307	216.6649	223.8752	219.0959	216.7650	216.4900	216.4900	216.4900	216.4900	216.4900
BOD ($/1,000 lbs.)		192.5663	201.1057	201.1057	241.9532	250.2838	249.9890	250.5967	250.7300	250.7300	250.7300	250.7300	250.7300
Annual Lump Sum ($)		1,254,000	1,357,000	1,357,000	1,666,000	1,780,000	1,881,667	1,986,167	2,003,000	2,003,000	2,003,000	2,003,000	2,003,000
Management Fee (%)		10.00%	10.00%	10.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		310,188	255,404	219,604	225,804	255,607	346,766	300,000	300,000	300,000	300,000	300,000	300,000
Capacity (cfs)		15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790
SS (1,000 lbs.)		2,436	2,427	2,482	2,459	2,423	2,464	2,440	2,440	2,440	2,440	2,440	2,440
BOD (1,000 lbs.)		2,223	2,139	2,090	2,072	1,830	1,805	1,820	1,820	1,820	1,820	1,820	1,820
Billings													
Volume		455,233	392,938	337,860	360,700	416,716	611,487	529,500	528,000	528,000	528,000	528,000	528,000
Capacity		148,079	151,442	151,442	188,296	194,138	200,438	199,854	199,491	199,491	199,491	199,491	199,491
SS		431,016	452,143	462,547	532,777	542,490	539,808	528,907	528,236	528,236	528,236	528,236	528,236
BOD		428,071	430,155	420,237	501,446	457,894	451,258	456,086	456,329	456,329	456,329	456,329	456,329
Lump Sum		1,254,000	1,357,000	1,357,000	1,666,000	1,780,000	1,881,667	1,986,167	2,003,000	2,003,000	2,003,000	2,003,000	2,003,000
Management Fee		271,640	278,368	272,909	389,906	406,949	442,159	444,062	445,807	445,807	445,807	445,807	445,807
Total		2,988,039	3,062,046	3,001,995	3,639,124	3,798,186	4,126,818	4,144,575	4,160,862	4,160,862	4,160,862	4,160,862	4,160,862

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
DELCORA													
Rates													
Volume ($/Mcf)		1.2245	1.2626	1.2626	1.3676	1.3979	1.5497	1.5633	1.5600	1.5600	1.5600	1.5600	1.5600
Capacity ($/cfs)		5,262	5,365	5,365	6,090	6,258	7,165	7,264	7,247	7,247	7,247	7,247	7,247
SS ($/1,000 lbs.)		171.2878	179.7959	179.7959	211.9856	219.0013	194.0919	187.7850	187.5200	187.5200	187.5200	187.5200	187.5200
BOD ($/1,000 lbs.)		189.5825	199.1219	199.1219	172.2535	177.8872	186.4979	187.7617	187.6700	187.6700	187.6700	187.6700	187.6700
Annual Lump Sum ($)		43,000	43,000	43,000	892,000	892,000	1,129,500	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		1,292,169	1,110,372	1,061,410	985,734	1,044,706	1,360,421	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Capacity (cfs)		155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000
SS (1,000 lbs.)		14,026	12,729	12,119	12,121	12,707	14,044	13,400	13,400	13,400	13,400	13,400	13,400
BOD (1,000 lbs.)		11,783	11,305	11,280	10,772	10,952	11,103	11,000	11,000	11,000	11,000	11,000	11,000
Billings													
Volume		1,582,261	1,401,956	1,340,136	1,348,090	1,460,395	2,108,245	1,875,960	1,872,000	1,872,000	1,872,000	1,872,000	1,872,000
Capacity		815,610	831,575	831,575	943,950	969,990	1,110,575	1,125,920	1,123,285	1,123,285	1,123,285	1,123,285	1,123,285
SS		2,402,416	2,288,545	2,178,970	2,569,558	2,782,887	2,725,732	2,516,319	2,512,768	2,512,768	2,512,768	2,512,768	2,512,768
BOD		2,233,934	2,250,974	2,246,081	1,855,522	1,948,286	2,070,765	2,065,379	2,064,370	2,064,370	2,064,370	2,064,370	2,064,370
Lump Sum		43,000	43,000	43,000	892,000	892,000	1,129,500	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000	1,177,000
Management Fee		849,266	817,926	796,771	913,094	966,427	1,097,378	1,051,269	1,049,931	1,049,931	1,049,931	1,049,931	1,049,931
Total		7,926,487	7,633,975	7,436,534	8,522,214	9,019,985	10,242,194	9,811,847	9,799,354	9,799,354	9,799,354	9,799,354	9,799,354
Lower Merion													
Rates													
Volume ($/Mcf)		1.2633	1.3026	1.3026	1.4142	1.4455	1.6076	1.6150	1.6100	1.6100	1.6100	1.6100	1.6100
Capacity ($/cfs)		5,382	5,487	5,487	6,229	6,401	7,328	7,429	7,412	7,412	7,412	7,412	7,412
SS ($/1,000 lbs.)		174.3280	182.9871	182.9871	216.4549	223.6185	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)		190.5606	200.1492	200.1492	173.2514	178.9177	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)		127,000	126,000	126,000	123,000	123,000	125,500	124,333	124,000	124,000	124,000	124,000	124,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units													
Volume (Mcf)		366,882	357,219	310,320	302,354	330,636	384,414	360,000	360,000	360,000	360,000	360,000	360,000
Capacity (cfs)		31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570
SS (1,000 lbs.)		3,830	3,718	3,245	3,159	3,443	3,992	3,700	3,700	3,700	3,700	3,700	3,700
BOD (1,000 lbs.)		3,310	3,208	2,797	2,713	2,950	3,439	3,200	3,200	3,200	3,200	3,200	3,200
Billings													
Volume		463,482	465,314	404,223	427,589	477,934	617,985	581,400	579,600	579,600	579,600	579,600	579,600
Capacity		169,910	173,225	173,225	196,650	202,080	231,345	234,534	233,997	233,997	233,997	233,997	233,997
SS		667,693	680,408	593,870	683,874	769,811	791,287	709,623	708,624	708,624	708,624	708,624	708,624
BOD		630,738	642,123	559,789	469,963	527,857	645,211	604,389	604,096	604,096	604,096	604,096	604,096
Lump Sum		127,000	126,000	126,000	123,000	123,000	125,500	124,333	124,000	124,000	124,000	124,000	124,000
Management Fee		205,882	208,707	185,711	190,108	210,068	241,133	225,428	225,032	225,032	225,032	225,032	225,032
Total		2,264,706	2,295,776	2,042,818	2,091,184	2,310,750	2,652,461	2,479,707	2,475,349	2,475,349	2,475,349	2,475,349	2,475,349

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Springfield (less Wyndmoor)													
Rates													
Volume ($/Mcf)		1.5786	1.6272	1.6272	1.6307	1.6672	1.8529	1.8733	1.8700	1.8700	1.8700	1.8700	1.8700
Capacity ($/cfs)		10,870	11,135	11,135	11,593	11,901	9,609	9,067	9,050	9,050	9,050	9,050	9,050
SS ($/1,000 lbs.)		174.3280	182.9871	182.9871	216.4549	223.6185	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)		190.5606	200.1492	200.1492	173.2514	178.9177	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)		389,000	389,000	389,000	703,000	703,000	695,500	694,000	694,000	694,000	694,000	694,000	694,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		176,441	142,623	138,243	137,518	133,099	122,367	128,000	128,000	128,000	128,000	128,000	128,000
Capacity (cfs)		4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600
SS (1,000 lbs.)		1,727	1,845	1,845	1,824	1,861	2,506	2,200	2,200	2,200	2,200	2,200	2,200
BOD (1,000 lbs.)		1,757	1,598	1,801	2,003	2,058	2,441	2,250	2,250	2,250	2,250	2,250	2,250
Billings													
Volume		278,529	232,076	224,949	224,251	221,902	226,734	239,782	239,360	239,360	239,360	239,360	239,360
Capacity		50,002	51,221	51,221	53,328	54,745	44,201	41,708	41,630	41,630	41,630	41,630	41,630
SS		301,073	337,642	337,573	394,827	416,172	496,679	421,938	421,344	421,344	421,344	421,344	421,344
BOD		334,882	319,760	360,453	347,083	368,272	457,840	424,961	424,755	424,755	424,755	424,755	424,755
Lump Sum		389,000	389,000	389,000	703,000	703,000	695,500	694,000	694,000	694,000	694,000	694,000	694,000
Management Fee		162,418	159,564	163,583	206,699	211,691	230,515	218,687	218,531	218,531	218,531	218,531	218,531
Total		1,515,904	1,489,264	1,526,779	1,929,188	1,975,782	2,151,469	2,041,077	2,039,620	2,039,620	2,039,620	2,039,620	2,039,620
Upper Darby													
Rates													
Volume ($/Mcf)		1.2633	1.3026	1.3026	1.4142	1.4455	1.6076	1.6150	1.6100	1.6100	1.6100	1.6100	1.6100
Capacity ($/cfs)		5,382	5,487	5,487	6,229	6,401	7,328	7,429	7,412	7,412	7,412	7,412	7,412
SS ($/1,000 lbs.)		174.3280	182.9871	182.9871	216.4549	223.6185	198.2198	191.7900	191.5200	191.5200	191.5200	191.5200	191.5200
BOD ($/1,000 lbs.)		190.5606	200.1492	200.1492	173.2514	178.9177	187.5946	188.8717	188.7800	188.7800	188.7800	188.7800	188.7800
Annual Lump Sum ($)		43,000	43,000	43,000	41,000	41,000	42,667	42,167	42,000	42,000	42,000	42,000	42,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units													
Volume (Mcf)		509,725	463,520	450,345	400,070	424,184	554,451	490,000	490,000	490,000	490,000	490,000	490,000
Capacity (cfs)		35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000
SS (1,000 lbs.)		4,961	4,511	4,383	3,894	4,128	5,396	4,800	4,800	4,800	4,800	4,800	4,800
BOD (1,000 lbs.)		4,229	3,846	3,737	3,320	3,520	4,601	4,000	4,000	4,000	4,000	4,000	4,000
Billings													
Volume		643,936	603,781	586,619	565,779	613,158	891,335	791,350	788,900	788,900	788,900	788,900	788,900
Capacity		188,370	192,045	192,045	218,015	224,035	256,480	260,015	259,420	259,420	259,420	259,420	259,420
SS		864,818	825,491	802,027	842,802	923,180	1,069,626	920,592	919,296	919,296	919,296	919,296	919,296
BOD		805,969	769,788	747,908	575,127	629,735	863,042	755,487	755,120	755,120	755,120	755,120	755,120
Lump Sum		43,000	43,000	43,000	41,000	41,000	42,667	42,167	42,000	42,000	42,000	42,000	42,000
Management Fee		254,609	243,411	237,160	224,272	243,111	312,315	276,961	276,474	276,474	276,474	276,474	276,474
Total		2,800,702	2,677,516	2,608,759	2,466,995	2,674,218	3,435,465	3,046,572	3,041,210	3,041,210	3,041,210	3,041,210	3,041,210

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Springfield (Wyndmoor)													
Rates													
Volume ($/Mcf)		1.8977	1.9608	1.9608	1.9311	1.9726	2.2871	2.3083	2.3000	2.3000	2.3000	2.3000	2.3000
Capacity ($/cfs)		12,748	12,951	12,951	13,490	13,894	15,942	16,149	16,108	16,108	16,108	16,108	16,108
SS ($/1,000 lbs.)		250.9098	261.4507	261.4507	320.3320	331.3816	293.6469	283.5417	283.0300	283.0300	283.0300	283.0300	283.0300
BOD ($/1,000 lbs.)		128.1883	133.4719	133.4719	110.9647	114.8652	123.4025	124.5100	124.3900	124.3900	124.3900	124.3900	124.3900
Annual Lump Sum ($)		138,000	138,000	138,000	147,000	147,000	138,667	137,000	137,000	137,000	137,000	137,000	137,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units													
Volume (Mcf)		19,785	18,387	18,421	18,673	21,096	23,317	22,000	22,000	22,000	22,000	22,000	22,000
Capacity (cfs)		1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930
SS (1,000 lbs.)		112	160	211	213	230	245	240	240	240	240	240	240
BOD (1,000 lbs.)		89	122	156	158	173	187	180	180	180	180	180	180
Billings													
Volume		37,546	36,054	36,120	36,059	41,614	53,327	50,783	50,600	50,600	50,600	50,600	50,600
Capacity		24,604	24,995	24,995	26,036	26,815	30,768	31,168	31,088	31,088	31,088	31,088	31,088
SS		28,061	41,814	55,292	68,295	76,165	71,964	68,050	67,927	67,927	67,927	67,927	67,927
BOD		11,442	16,273	20,876	17,528	19,865	23,033	22,412	22,390	22,390	22,390	22,390	22,390
Lump Sum		138,000	138,000	138,000	147,000	147,000	138,667	137,000	137,000	137,000	137,000	137,000	137,000
Management Fee		28,758	30,856	33,034	35,390	37,375	38,131	37,129	37,081	37,081	37,081	37,081	37,081
Total		268,410	287,992	308,318	330,307	348,834	355,891	346,541	346,087	346,087	346,087	346,087	346,087

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer - Wholesale													**Customer - 19**
Billed Volume Summary (Mcf)													
Abington		102,068	100,091	95,757	88,329	94,740	98,164	96,000	96,000	96,000	96,000	96,000	96,000
Bensalem		180,864	171,935	165,636	164,090	172,705	178,629	175,000	175,000	175,000	175,000	175,000	175,000
Bucks County		945,440	846,849	777,314	754,135	898,824	1,123,541	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Cheltenham		281,173	356,825	294,940	347,778	391,871	464,162	428,000	428,000	428,000	428,000	428,000	428,000
Lower Moreland		63,271	57,771	51,038	49,955	60,522	70,412	65,000	65,000	65,000	65,000	65,000	65,000
Lower Southampton		310,188	255,404	219,604	225,804	255,607	346,766	300,000	300,000	300,000	300,000	300,000	300,000
DELCORA		1,292,169	1,110,372	1,061,410	985,734	1,044,706	1,360,421	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Lower Merion		366,882	357,219	310,320	302,354	330,636	384,414	360,000	360,000	360,000	360,000	360,000	360,000
Springfield (less Wyndmoor)		176,441	142,623	138,243	137,518	133,099	122,367	128,000	128,000	128,000	128,000	128,000	128,000
Upper Darby		509,725	463,520	450,345	400,070	424,184	554,451	490,000	490,000	490,000	490,000	490,000	490,000
Springfield (Wyndmoor)		19,785	18,387	18,421	18,673	21,096	23,317	22,000	22,000	22,000	22,000	22,000	22,000
Total		4,248,005	3,880,996	3,583,028	3,474,442	3,827,990	4,726,645	4,264,000	4,264,000	4,264,000	4,264,000	4,264,000	4,264,000
By WPCP													
NE WPCP		1,883,004	1,788,875	1,604,289	1,630,092	1,874,270	2,281,674	2,064,000	2,064,000	2,064,000	2,064,000	2,064,000	2,064,000
SW WPCP		2,345,217	2,073,735	1,960,319	1,825,677	1,932,625	2,421,654	2,178,000	2,178,000	2,178,000	2,178,000	2,178,000	2,178,000
SE WPCP		19,785	18,387	18,421	18,673	21,096	23,317	22,000	22,000	22,000	22,000	22,000	22,000
Billings Summary													
Abington		1,079,428	1,505,854	1,253,583	1,614,469	1,326,888	1,628,053	1,618,378	1,617,309	1,617,309	1,617,309	1,617,309	1,617,309
Bensalem		1,560,644	1,599,973	1,884,725	1,925,423	1,944,698	1,464,718	1,687,926	1,686,200	1,686,200	1,686,200	1,686,200	1,686,200
Bucks County		6,795,793	8,129,534	7,330,114	7,940,300	9,368,448	8,538,313	8,568,746	8,559,322	8,559,322	8,559,322	8,559,322	8,559,322
Cheltenham		2,878,829	3,329,092	3,105,390	3,712,261	4,056,591	4,233,906	4,372,817	4,369,394	4,369,394	4,369,394	4,369,394	4,369,394
Lower Moreland		728,027	761,457	706,083	785,757	890,109	915,049	887,800	886,969	886,969	886,969	886,969	886,969
Lower Southampton		2,868,592	3,107,223	3,055,409	3,540,324	3,763,178	4,126,818	4,144,575	4,160,862	4,160,862	4,160,862	4,160,862	4,160,862
DELCORA		7,680,973	7,886,945	7,595,414	8,274,572	8,839,578	10,242,194	9,811,847	9,799,354	9,799,354	9,799,354	9,799,354	9,799,354
Lower Merion		2,594,719	2,533,305	2,089,501	2,225,241	2,359,459	2,652,461	2,479,707	2,475,349	2,475,349	2,475,349	2,475,349	2,475,349
Springfield (less Wyndmoor)		2,051,437	1,720,964	1,811,441	1,864,095	1,975,879	2,151,469	2,041,077	2,039,620	2,039,620	2,039,620	2,039,620	2,039,620
Upper Darby		3,059,522	2,888,737	2,620,282	2,442,757	2,559,240	3,435,465	3,046,572	3,041,210	3,041,210	3,041,210	3,041,210	3,041,210
Springfield (Wyndmoor)		261,047	283,945	308,353	326,765	343,636	355,891	346,541	346,087	346,087	346,087	346,087	346,087
Total		31,559,011	33,747,029	31,760,293	34,651,963	37,427,704	39,744,336	39,005,986	38,981,674	38,981,674	38,981,674	38,981,674	38,981,674
Actual		31,641,656	33,221,384	32,389,116	34,652,023	37,427,704	39,515,435	-	-				
Wholesale Billing Summary By WPCP													
NE WPCP		15,911,313	18,433,133	17,335,303	19,518,533	21,349,911	20,906,857	21,280,242	21,280,056	21,280,056	21,280,056	21,280,056	21,280,056
SW WPCP		15,386,651	15,029,951	14,116,637	14,806,665	15,734,157	18,481,589	17,379,202	17,355,532	17,355,532	17,355,532	17,355,532	17,355,532
SE WPCP		261,047	283,945	308,353	326,765	343,636	355,891	346,541	346,087	346,087	346,087	346,087	346,087

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Sanitary and Stomwater Sewer - Revenue Summary													**Customer - 20**
Sanitary Sewer Collections													
General Service		211,417	225,485	222,408	240,899.54	245,907.17	213,394.07	220,073.39	218,639	216,958	215,226	213,488	211,758
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire		100	-	-	-	-	261	249	250	250	250	250	250
Surcharge		4,252	3,407	7,375	5,909	5,628	4,699	4,859	4,862	4,862	4,862	4,862	4,862
Wholesale		31,642	33,221	32,389	34,652	37,428	39,515	39,006	38,982	38,982	38,982	38,982	38,982
Subtotal		247,410	262,113	262,172	281,460	288,962	257,870	264,188	262,733	261,052	259,320	257,582	255,852
Stormwater Collections													
Total		-	150,878	156,619	157,829	163,160	170,586	174,207	175,178	174,455	173,202	171,922	170,648
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	150,878	156,619	157,829	163,160	170,586	174,207	175,178	174,455	173,202	171,922	170,648
Total		247,410	412,991	418,792	439,290	452,122	428,455	438,395	437,910	435,507	432,522	429,503	426,500
General Service - Sanitary Sewer + Stormwater													
Actual			353,592	356,242	373,096	387,651	383,980						
Calculated			376,363	379,028	398,729	409,067	383,980						
			106.4%	106.4%	106.9%	105.5%	100.0%						
xxxxxxxxxx - Sanitary Sewer + Stormwater													
Actual			-	-	-	-	-						
Calculated			-	-	-	-	-						
			-	-	-	-							
General Service + xxxxxxxxxx - Sanitary Sewer + Stormwater													
Actual			353,592	356,242	373,096	387,651	383,980						
Calculated			376,363	379,028	398,729	409,067	383,980						
			106.4%	106.4%	106.9%	105.5%	100.0%						
General Service - Water + Sanitary Sewer + Stormwater													
Actual			601,728	604,250	633,735	654,995	648,306			3,143,014			
Calculated			624,167	624,031	654,581	672,181	649,979			3,224,940			
			103.7%	103.3%	103.3%	102.6%	100.3%			102.6%			
xxxxxxxxxx - Water + Sanitary Sewer + Stormwater													
Actual			-	-	-	-	-						
Calculated			-	-	-	-	-						
			-	-	-	-	-	-					
General Service + xxxxxxxxxx - Water + Sanitary Sewer + Stormwater													
Actual			601,728	604,250	633,735	654,995	648,306			3,143,014			
Calculated			624,167	624,031	654,581	672,181	649,979			3,224,940			
			103.7%	103.3%	103.3%	102.6%	100.3%			102.6%			

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Stormwater - Units of Service													**Customer - 21**
Number of Non- Exempt Parcels													
Residential													
Non-Discount													
Water & Sewer	Account - No Growth	424,881	424,613	424,703	425,574	427,088	428,118	428,118	428,118	428,118	428,118	428,118	428,118
SW Only	Account - No Growth	10,571	10,054	9,265	8,640	7,080	6,477	6,477	6,477	6,477	6,477	6,477	6,477
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	20,120	21,373	22,369	22,989	23,429	23,552	23,552	23,552	23,552	23,552	23,552	23,552
SW Only	Account - No Growth	28	30	31	26	26	28	28	28	28	28	28	28
Discount PHA													
Water & Sewer	Account - No Growth	4,239	4,185	4,167	4,158	4,039	3,999	3,999	3,999	3,999	3,999	3,999	3,999
SW Only	Account - No Growth	189	172	164	168	213	206	206	206	206	206	206	206
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		460,028	460,427	460,699	461,555	461,875	462,380	462,380	462,380	462,380	462,380	462,380	462,380
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	32,428	32,497	32,800	32,685	33,006	33,119	33,119	33,119	33,119	33,119	33,119	33,119
SW Only	Account - No Growth	38,135	37,106	36,819	36,690	36,144	36,410	36,410	36,410	36,410	36,410	36,410	36,410
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	1,946	1,911	1,894	1,850	1,667	1,592	1,592	1,592	1,592	1,592	1,592	1,592
SW Only	Account - No Growth	303	298	326	304	232	260	260	260	260	260	260	260
Discount PHA													
Water & Sewer	Account - No Growth	344	213	194	199	215	230	230	230	230	230	230	230
SW Only	Account - No Growth	981	1,114	1,101	1,120	1,973	1,948	1,948	1,948	1,948	1,948	1,948	1,948
xxxxxxxxxx (Not In Use)													
Water & Sewer													
SW Only													
Subtotal		74,137	73,139	73,134	72,848	73,237	73,559	73,559	73,559	73,559	73,559	73,559	73,559
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	1,578	1,639	1,676	1,784	1,911	2,039	2,039	2,039	2,039	2,039	2,039	2,039
SW Only	Account - No Growth	24	29	29	27	29	41	41	41	41	41	41	41
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	30	35	44	47	44	41	41	41	41	41	41	41
SW Only	Account - No Growth	1	1	1	1	1	1	1	1	1	1	1	1
Discount PHA													
Water & Sewer	Account - No Growth	1	1	1	1	1	1	1	1	1	1	1	1
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,634	1,705	1,751	1,860	1,986	2,123	2,123	2,123	2,123	2,123	2,123	2,123
Total		535,799	535,271	535,584	536,263	537,098	538,062	538,062	538,062	538,062	538,062	538,062	538,062

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Number of Parcels-Credits													**Customer - 22**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer		398	450	486	557	610	683	734	787	824	862	900	937
SW Only		215	220	229	254	281	303	325	349	365	382	399	416
Discount: Elderly, Education & Charities													
Water & Sewer		161	151	155	160	136	161	172	185	194	203	211	220
SW Only		31	12	11	10	5	10	11	12	12	13	14	14
Discount PHA													
Water & Sewer		1	1	1	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		806	834	882	981	1,032	1,157	1,242	1,333	1,395	1,460	1,524	1,587
Condominiums													
Non-Discount													
Water & Sewer		19	27	30	31	32	36	39	42	44	46	48	50
SW Only		-	1	1	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		3	3	3	4	4	3	4	4	4	4	5	5
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		22	31	34	35	36	39	43	46	48	50	53	55
Total		828	865	916	1,016	1,068	1,196	1,285	1,379	1,443	1,510	1,577	1,642

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Number of Parcels-Appeals (Cumulative Annual Projection)													**Customer - 23**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer		423	335	393	332	237	216	227	396	507	560	560	560
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		423	335	393	332	237	216	227	396	507	560	560	560
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		423	335	393	332	237	216	227	396	507	560	560	560

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Number of Community Gardens Parcels													**Customer - 24**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	0	1	1	1	2	2
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	0	1	1	1	2	2
Non-Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	1	2	3	4	5	6
SW Only		-	-	-	-	-	-	22	43	65	86	108	130
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	3	6	9	13	16	19
SW Only		-	-	-	-	-	-	11	22	33	44	55	66
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	2	4	6	8	10	11
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	39	77	116	155	193	232
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	39	78	117	156	195	234

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Number of Billable Parcels-After Community Gardens													**Customer - 25**
Residential													
Non-Discount													
Water & Sewer		424,881	424,613	424,703	425,574	427,088	428,118	428,118	428,117	428,117	428,117	428,116	428,116
SW Only		10,571	10,054	9,265	8,640	7,080	6,477	6,477	6,477	6,477	6,477	6,477	6,477
Discount: Elderly, Education & Charities													
Water & Sewer		20,120	21,373	22,369	22,989	23,429	23,552	23,552	23,552	23,552	23,552	23,552	23,552
SW Only		28	30	31	26	26	28	28	28	28	28	28	28
Discount PHA													
Water & Sewer		4,239	4,185	4,167	4,158	4,039	3,999	3,999	3,999	3,999	3,999	3,999	3,999
SW Only		189	172	164	168	213	206	206	206	206	206	206	206
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		460,028	460,427	460,699	461,555	461,875	462,380	462,380	462,379	462,379	462,379	462,378	462,378
Non-Residential													
Non-Discount													
Water & Sewer		32,428	32,497	32,800	32,685	33,006	33,119	33,118	33,117	33,116	33,115	33,114	33,113
SW Only		38,135	37,106	36,819	36,690	36,144	36,410	36,388	36,367	36,345	36,324	36,302	36,280
Discount: Elderly, Education & Charities													
Water & Sewer		1,946	1,911	1,894	1,850	1,667	1,592	1,589	1,586	1,583	1,579	1,576	1,573
SW Only		303	298	326	304	232	260	249	238	227	216	205	194
Discount PHA													
Water & Sewer		344	213	194	199	215	230	230	230	230	230	230	230
SW Only		981	1,114	1,101	1,120	1,973	1,948	1,946	1,944	1,942	1,940	1,938	1,937
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		74,137	73,139	73,134	72,848	73,237	73,559	73,520	73,482	73,443	73,404	73,366	73,327
Condominiums													
Non-Discount													
Water & Sewer		1,578	1,639	1,676	1,784	1,911	2,039	2,039	2,039	2,039	2,039	2,039	2,039
SW Only		24	29	29	27	29	41	41	41	41	41	41	41
Discount: Elderly, Education & Charities													
Water & Sewer		30	35	44	47	44	41	41	41	41	41	41	41
SW Only		1	1	1	1	1	1	1	1	1	1	1	1
Discount PHA													
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1	1
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,634	1,705	1,751	1,860	1,986	2,123	2,123	2,123	2,123	2,123	2,123	2,123
Total		535,799	535,271	535,584	536,263	537,098	538,062	538,023	537,984	537,945	537,906	537,867	537,828

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Number of Non-Exempt Accounts													**Customer - 26**
Residential													
Non-Discount													
Water & Sewer	Account - No Growth	426,102	425,867	426,034	426,953	428,541	429,696	429,696	429,696	429,696	429,696	429,696	429,696
SW Only	Account - No Growth	10,576	10,065	9,263	8,622	7,056	6,481	6,481	6,481	6,481	6,481	6,481	6,481
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	20,169	21,425	22,426	23,045	23,481	23,608	23,608	23,608	23,608	23,608	23,608	23,608
SW Only	Account - No Growth	28	30	31	26	26	28	28	28	28	28	28	28
Discount PHA													
Water & Sewer	Account - No Growth	4,359	4,330	4,297	4,287	4,178	4,153	4,153	4,153	4,153	4,153	4,153	4,153
SW Only	Account - No Growth	189	172	164	168	213	206	206	206	206	206	206	206
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		461,423	461,889	462,215	463,101	463,495	464,172	464,172	464,172	464,172	464,172	464,172	464,172
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	38,402	38,476	38,808	38,670	39,166	39,272	39,272	39,272	39,272	39,272	39,272	39,272
SW Only	Account - No Growth	38,245	37,161	36,840	36,432	35,755	35,522	35,522	35,522	35,522	35,522	35,522	35,522
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	2,773	2,713	2,677	2,618	2,365	2,283	2,283	2,283	2,283	2,283	2,283	2,283
SW Only	Account - No Growth	309	298	326	304	232	260	260	260	260	260	260	260
Discount PHA													
Water & Sewer	Account - No Growth	1,114	977	982	1,174	1,193	1,251	1,251	1,251	1,251	1,251	1,251	1,251
SW Only	Account - No Growth	981	1,114	1,102	1,120	1,974	1,980	1,980	1,980	1,980	1,980	1,980	1,980
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		81,824	80,739	80,735	80,318	80,685	80,568	80,568	80,568	80,568	80,568	80,568	80,568
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	3,451	3,604	3,630	3,867	4,152	4,450	4,450	4,450	4,450	4,450	4,450	4,450
SW Only	Account - No Growth	24	33	30	29	34	51	51	51	51	51	51	51
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	474	500	549	502	482	466	466	466	466	466	466	466
SW Only	Account - No Growth	1	1	1	1	1	1	1	1	1	1	1	1
Discount PHA													
Water & Sewer	Account - No Growth	1	1	1	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	1	1	1	1	1	1	1	1	1
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		3,951	4,139	4,211	4,400	4,670	4,969	4,969	4,969	4,969	4,969	4,969	4,969
Total		547,198	546,767	547,161	547,819	548,850	549,709	549,709	549,709	549,709	549,709	549,709	549,709

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Accounts - Community Gardens													
Residential													
Non-Discount													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	0	1	1	1	2	2
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	0	1	1	1	2	2
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	1	2	3	4	5	6
SW Only	Account - No Growth	-	-	-	-	-	-	22	43	65	86	108	130
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	3	6	9	13	16	19
SW Only	Account - No Growth	-	-	-	-	-	-	11	22	33	44	55	66
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	2	4	6	8	10	11
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	39	77	116	155	193	232
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	39	78	117	156	195	234

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Accounts - After Community Gardens													
Residential													
Non-Discount													
Water & Sewer		426,102	425,867	426,034	426,953	428,541	429,696	429,696	429,695	429,695	429,695	429,694	429,694
SW Only		10,576	10,065	9,263	8,622	7,056	6,481	6,481	6,481	6,481	6,481	6,481	6,481
Discount: Elderly, Education & Charities													
Water & Sewer		20,169	21,425	22,426	23,045	23,481	23,608	23,608	23,608	23,608	23,608	23,608	23,608
SW Only		28	30	31	26	26	28	28	28	28	28	28	28
Discount PHA													
Water & Sewer		4,359	4,330	4,297	4,287	4,178	4,153	4,153	4,153	4,153	4,153	4,153	4,153
SW Only		189	172	164	168	213	206	206	206	206	206	206	206
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		461,423	461,889	462,215	463,101	463,495	464,172	464,172	464,171	464,171	464,171	464,170	464,170
Non-Residential													
Non-Discount													
Water & Sewer		38,402	38,476	38,808	38,670	39,166	39,272	39,271	39,270	39,269	39,268	39,267	39,266
SW Only		38,245	37,161	36,840	36,432	35,755	35,522	35,500	35,479	35,457	35,436	35,414	35,392
Discount: Elderly, Education & Charities													
Water & Sewer		2,773	2,713	2,677	2,618	2,365	2,283	2,280	2,277	2,274	2,270	2,267	2,264
SW Only		309	298	326	304	232	260	249	238	227	216	205	194
Discount PHA													
Water & Sewer		1,114	977	982	1,174	1,193	1,251	1,251	1,251	1,251	1,251	1,251	1,251
SW Only		981	1,114	1,102	1,120	1,974	1,980	1,978	1,976	1,974	1,972	1,970	1,969
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		81,824	80,739	80,735	80,318	80,685	80,568	80,529	80,491	80,452	80,413	80,375	80,336
Condominiums													
Non-Discount													
Water & Sewer		3,451	3,604	3,630	3,867	4,152	4,450	4,450	4,450	4,450	4,450	4,450	4,450
SW Only		24	33	30	29	34	51	51	51	51	51	51	51
Discount: Elderly, Education & Charities													
Water & Sewer		474	500	549	502	482	466	466	466	466	466	466	466
SW Only		1	1	1	1	1	1	1	1	1	1	1	1
Discount PHA													
Water & Sewer		1	1	1	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	1	1	1	1	1	1	1	1	1
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		3,951	4,139	4,211	4,400	4,670	4,969	4,969	4,969	4,969	4,969	4,969	4,969
Total		547,198	546,767	547,161	547,819	548,850	549,709	549,670	549,631	549,592	549,553	549,514	549,475

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Initial Impervious Area													**Customer - 27**
Residential													
Non-Discount													
Water & Sewer		449,676	449,004	448,556	449,008	450,009	517,054	517,054	513,742	513,742	513,742	513,742	513,742
SW Only		8,762	8,324	7,732	7,270	6,120	6,145	6,145	7,772	7,772	7,772	7,772	7,772
Discount: Elderly, Education & Charities													
Water & Sewer		20,836	21,836	22,788	23,369	23,532	26,706	26,706	28,262	28,262	28,262	28,262	28,262
SW Only		44	48	54	53	50	53	53	34	34	34	34	34
Discount PHA													
Water & Sewer		3,002	2,971	2,949	2,938	2,838	3,435	3,435	4,799	4,799	4,799	4,799	4,799
SW Only		123	110	107	113	137	142	142	247	247	247	247	247
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		482,443	482,293	482,186	482,751	482,687	553,534	553,534	554,856	554,856	554,856	554,856	554,856
Non-Residential													
Non-Discount													
Water & Sewer		517,863	517,430	514,585	513,814	521,167	521,487	521,487	530,930	530,930	530,930	530,930	530,930
SW Only		95,022	90,974	92,262	91,063	91,790	90,544	90,544	92,085	92,085	92,085	92,085	92,085
Discount: Elderly, Education & Charities													
Water & Sewer		91,307	89,710	89,268	88,826	82,255	81,359	81,359	82,759	82,759	82,759	82,759	82,759
SW Only		3,699	3,860	3,545	3,387	3,305	3,448	3,448	3,503	3,503	3,503	3,503	3,503
Discount PHA													
Water & Sewer		6,066	6,053	5,996	6,618	6,579	6,688	6,688	7,123	7,123	7,123	7,123	7,123
SW Only		1,106	1,170	1,170	1,141	1,373	1,368	1,368	1,405	1,405	1,405	1,405	1,405
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		715,063	709,197	706,826	704,849	706,470	704,894	704,894	717,806	717,806	717,806	717,806	717,806
Condominiums													
Non-Discount													
Water & Sewer		14,785	17,860	19,096	20,222	20,824	23,009	23,009	23,447	23,447	23,447	23,447	23,447
SW Only		111	262	220	111	532	628	628	631	631	631	631	631
Discount: Elderly, Education & Charities													
Water & Sewer		845	865	909	824	815	788	788	799	799	799	799	799
SW Only		21	21	21	21	21	21	21	21	21	21	21	21
Discount PHA													
Water & Sewer		6	6	6	6	6	6	6	6	6	6	6	6
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		15,768	19,014	20,252	21,184	22,198	24,452	24,452	24,903	24,903	24,903	24,903	24,903
Total		1,213,274	1,210,504	1,209,264	1,208,783	1,211,354	1,282,881	1,282,881	1,297,566	1,297,566	1,297,566	1,297,566	1,297,566

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Deductions: Impervious Area Credits	Factored by 1000												**Customer - 28**
Residential	ONLY APPLIED BEYOND FY 2025												
Non-Discount													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	52,106	61,994	65,716	70,075	75,659	75,556	80,864	89,291	93,310	99,561	105,726	111,809
SW Only	Account - No Growth	9,851	10,373	12,121	13,137	14,443	14,106	15,097	16,670	17,421	18,588	19,739	20,874
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	4,538	4,633	5,048	5,546	5,223	5,854	6,265	6,918	7,230	7,714	8,192	8,663
SW Only	Account - No Growth	1	100	168	168	169	151	161	178	186	199	211	223
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		66,496	77,100	83,053	88,926	95,494	95,667	102,388	113,058	118,147	126,061	133,868	141,570
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	613	2,114	2,380	2,582	2,775	3,868	4,140	4,572	4,777	5,097	5,413	5,725
SW Only	Account - No Growth	-	65	65	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	237	237	247	265	265	247	264	292	305	325	345	365
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		850	2,416	2,692	2,848	3,040	4,115	4,404	4,863	5,082	5,423	5,758	6,090
Total		67,346	79,516	85,745	91,773	98,535	99,782	106,792	117,921	123,229	131,483	139,626	147,659
								7,010	11,129	5,308	8,254	8,143	8,033

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Deductions: Impervious Area Appeals	Factored by 1000												**Customer - 29**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	909	1,586	2,031	2,243	2,243	2,243
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	909	1,586	2,031	2,243	2,243	2,243
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	909	1,586	2,031	2,243	2,243	2,243

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Deductions: IA Community Gardens	Factored by 1000												**Customer - 30**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	1	1	2	2	3	3
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	1	1	2	2	3	3
Non-Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	1	2	4	5	6	7
SW Only		-	-	-	-	-	-	10	21	31	41	51	62
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	2	4	6	7	9	11
SW Only		-	-	-	-	-	-	4	8	12	16	20	24
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	2	3	5	6	8	9
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	19	38	57	76	95	114
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	20	39	59	78	98	117

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Final Impervious Area													**Customer - 31**
Residential													
Non-Discount													
Water & Sewer		449,676	449,004	448,556	449,008	450,009	517,054	517,053	513,741	513,740	513,740	513,739	513,739
SW Only		8,762	8,324	7,732	7,270	6,120	6,145	6,145	7,772	7,772	7,772	7,772	7,772
Discount: Elderly, Education & Charities													
Water & Sewer		20,836	21,836	22,788	23,369	23,532	26,706	26,706	28,262	28,262	28,262	28,262	28,262
SW Only		44	48	54	53	50	53	53	34	34	34	34	34
Discount PHA													
Water & Sewer		3,002	2,971	2,949	2,938	2,838	3,435	3,435	4,799	4,799	4,799	4,799	4,799
SW Only		123	110	107	113	137	142	142	247	247	247	247	247
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		482,443	482,293	482,186	482,751	482,687	553,534	553,534	554,855	554,854	554,854	554,853	554,853
Non-Residential													
Non-Discount													
Water & Sewer		465,757	455,436	448,869	443,739	445,508	445,931	439,713	440,051	435,586	429,122	422,955	416,871
SW Only		85,171	80,601	80,141	77,926	77,346	76,438	75,437	75,395	74,634	73,457	72,295	71,149
Discount: Elderly, Education & Charities													
Water & Sewer		86,769	85,077	84,220	83,280	77,032	75,504	75,091	75,838	75,524	75,038	74,559	74,085
SW Only		3,698	3,760	3,377	3,219	3,137	3,297	3,283	3,316	3,304	3,288	3,271	3,255
Discount PHA													
Water & Sewer		6,066	6,053	5,996	6,618	6,579	6,688	6,688	7,123	7,123	7,123	7,123	7,123
SW Only		1,106	1,170	1,170	1,141	1,373	1,368	1,367	1,402	1,401	1,399	1,398	1,396
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		648,567	632,097	623,773	615,923	610,975	609,227	601,578	603,125	597,572	589,427	581,601	573,880
Condominiums													
Non-Discount													
Water & Sewer		14,172	15,746	16,716	17,640	18,050	19,141	18,869	18,875	18,669	18,349	18,033	17,722
SW Only		111	197	155	111	532	628	628	631	631	631	631	631
Discount: Elderly, Education & Charities													
Water & Sewer		608	628	662	559	549	541	524	507	494	474	454	434
SW Only		21	21	21	21	21	21	21	21	21	21	21	21
Discount PHA													
Water & Sewer		6	6	6	6	6	6	6	6	6	6	6	6
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		14,918	16,598	17,560	18,336	19,158	20,337	20,048	20,040	19,821	19,481	19,145	18,814
Total		1,145,928	1,130,988	1,123,519	1,117,010	1,112,820	1,183,098	1,175,160	1,178,020	1,172,247	1,163,761	1,155,599	1,147,546
Total Adjustments (Final - Initial)							99,782	107,721	119,546	125,318	133,804	141,966	150,019
Annual Change								7,938	11,825	5,772	8,486	8,162	8,053

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Initial Gross Area													**Customer - 32**
Residential													
Non-Discount													
Water & Sewer	Account - No Growth	905,658	905,497	905,212	906,407	911,003	912,220	912,220	903,329	903,329	903,329	903,329	903,329
SW Only	Account - No Growth	19,014	17,873	17,111	16,469	14,594	14,065	14,065	13,666	13,666	13,666	13,666	13,666
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	39,330	41,042	42,953	43,993	43,521	43,405	43,405	49,695	49,695	49,695	49,695	49,695
SW Only	Account - No Growth	105	112	151	155	129	153	153	59	59	59	59	59
Discount PHA													
Water & Sewer	Account - No Growth	4,805	4,802	4,751	4,735	4,633	4,588	4,588	8,438	8,438	8,438	8,438	8,438
SW Only	Account - No Growth	213	196	192	199	229	222	222	435	435	435	435	435
xxxxxxx													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		969,125	969,522	970,370	971,957	974,110	974,653	974,653	975,622	975,622	975,622	975,622	975,622
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	937,091	934,635	933,732	932,193	948,287	947,063	947,063	947,063	947,063	947,063	947,063	947,063
SW Only	Account - No Growth	310,973	305,293	307,855	314,626	312,302	311,758	311,758	311,758	311,758	311,758	311,758	311,758
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	175,504	171,621	169,975	169,009	152,608	151,764	151,764	151,764	151,764	151,764	151,764	151,764
SW Only	Account - No Growth	6,392	6,581	6,133	5,727	5,324	5,986	5,986	5,986	5,986	5,986	5,986	5,986
Discount PHA													
Water & Sewer	Account - No Growth	12,021	11,931	11,835	12,857	12,825	12,961	12,961	12,961	12,961	12,961	12,961	12,961
SW Only	Account - No Growth	4,316	4,486	4,484	4,536	5,349	3,925	3,925	3,925	3,925	3,925	3,925	3,925
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,446,297	1,434,547	1,434,014	1,438,948	1,436,695	1,433,456	1,433,456	1,433,456	1,433,456	1,433,456	1,433,456	1,433,456
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	22,306	26,173	27,770	29,012	29,707	32,615	32,615	32,615	32,615	32,615	32,615	32,615
SW Only	Account - No Growth	134	459	418	264	775	969	969	969	969	969	969	969
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	1,797	1,820	1,877	1,792	1,768	1,679	1,679	1,679	1,679	1,679	1,679	1,679
SW Only	Account - No Growth	25	25	25	25	25	25	25	25	25	25	25	25
Discount PHA													
Water & Sewer	Account - No Growth	9	9	9	9	9	9	9	9	9	9	9	9
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		24,271	28,486	30,099	31,103	32,284	35,297	35,297	35,297	35,297	35,297	35,297	35,297
Total		2,439,693	2,432,555	2,434,483	2,442,008	2,443,090	2,443,406	2,443,406	2,444,375	2,444,375	2,444,375	2,444,375	2,444,375

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Deductions: Gross Area Credits	Factored by 1000												**Customer - 33**
Residential	ONLY APPLIED BEYOND FY 2025												
Non-Discount													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer	Account - No Growth	139,477	145,571	164,432	198,298	211,988	213,281	225,583	239,835	250,291	262,668	274,972	287,205
SW Only	Account - No Growth	61,590	59,140	65,624	75,572	77,287	78,747	83,289	88,551	92,411	96,981	101,524	106,041
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	30,399	29,934	30,202	31,346	27,108	27,535	29,123	30,963	32,313	33,911	35,500	37,079
SW Only	Account - No Growth	184	360	502	492	359	692	732	778	812	852	892	932
Discount PHA													
Water & Sewer	Account - No Growth	336	336	336	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		231,986	235,341	261,096	305,707	316,743	320,254	338,727	360,128	375,828	394,413	412,888	431,257
Condominiums													
Non-Discount													
Water & Sewer	Account - No Growth	1,834	4,477	4,711	5,017	5,177	6,317	6,681	7,103	7,413	7,779	8,144	8,506
SW Only	Account - No Growth	-	183	183	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer	Account - No Growth	391	391	410	484	484	410	434	461	481	505	529	552
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,225	5,051	5,304	5,501	5,661	6,727	7,115	7,564	7,894	8,284	8,672	9,058
Total		234,211	240,392	266,400	311,209	322,404	326,981	345,842	367,692	383,721	402,697	421,561	440,315

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Deductions: Gross Area Appeals (sf)	Factored by 1000												**Customer - 34**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	1,213	2,117	2,710	2,993	2,993	2,993
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	1,213	2,117	2,710	2,993	2,993	2,993
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	1,213	2,117	2,710	2,993	2,993	2,993

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Deductions: GA Community Gardens	Factored by 1000												**Customer - 35**
Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	2	5	7	10	12	15
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	2	5	7	10	12	15
Non-Residential													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	63	125	188	250	313	376
SW Only		-	-	-	-	-	-	155	309	464	618	773	928
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	224	447	671	895	1,118	1,342
SW Only		-	-	-	-	-	-	35	71	106	141	177	212
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	10	20	30	39	49	59
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	486	972	1,458	1,944	2,430	2,916
Condominiums													
Non-Discount													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Discount PHA													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxx													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	488	977	1,465	1,954	2,442	2,931

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Final Gross Area (sf)	Factored by 1000												**Customer - 36**
Residential													
Non-Discount													
Water & Sewer		905,658	905,497	905,212	906,407	911,003	912,220	912,217	903,324	903,322	903,319	903,317	903,314
SW Only		19,014	17,873	17,111	16,469	14,594	14,065	14,065	13,666	13,666	13,666	13,666	13,666
Discount: Elderly, Education & Charities													
Water & Sewer		39,330	41,042	42,953	43,993	43,521	43,405	43,405	49,695	49,695	49,695	49,695	49,695
SW Only		105	112	151	155	129	153	153	59	59	59	59	59
Discount PHA													
Water & Sewer		4,805	4,802	4,751	4,735	4,633	4,588	4,588	8,438	8,438	8,438	8,438	8,438
SW Only		213	196	192	199	229	222	222	435	435	435	435	435
xxxxxxxxx													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		969,125	969,522	970,370	971,957	974,110	974,653	974,650	975,617	975,615	975,612	975,610	975,607
Non-Residential													
Non-Discount													
Water & Sewer		797,614	789,064	769,300	733,896	736,299	733,782	720,204	704,986	693,875	681,152	668,785	656,489
SW Only		249,383	246,153	242,231	239,054	235,015	233,011	228,314	222,897	218,882	214,158	209,460	204,789
Discount: Elderly, Education & Charities													
Water & Sewer		145,105	141,687	139,773	137,663	125,500	124,228	122,416	120,353	118,779	116,958	115,146	113,343
SW Only		6,208	6,221	5,631	5,235	4,964	5,294	5,218	5,137	5,067	4,992	4,917	4,842
Discount PHA													
Water & Sewer		11,685	11,595	11,499	12,857	12,825	12,961	12,961	12,961	12,961	12,961	12,961	12,961
SW Only		4,316	4,486	4,484	4,536	5,349	3,925	3,915	3,905	3,895	3,886	3,876	3,866
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,214,311	1,199,206	1,172,918	1,133,241	1,119,952	1,113,201	1,093,029	1,070,239	1,053,460	1,034,106	1,015,144	996,289
Condominiums													
Non-Discount													
Water & Sewer		20,472	21,696	23,059	23,995	24,530	26,299	25,934	25,512	25,203	24,836	24,472	24,109
SW Only		134	276	235	264	775	969	969	969	969	969	969	969
Discount: Elderly, Education & Charities													
Water & Sewer		1,406	1,429	1,467	1,308	1,284	1,269	1,245	1,218	1,198	1,174	1,150	1,127
SW Only		25	25	25	25	25	25	25	25	25	25	25	25
Discount PHA													
Water & Sewer		9	9	9	9	9	9	9	9	9	9	9	9
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		22,046	23,435	24,795	25,602	26,623	28,571	28,183	27,733	27,404	27,013	26,625	26,239
Total		2,205,482	2,192,163	2,168,083	2,130,799	2,120,686	2,116,425	2,095,862	2,073,590	2,056,478	2,036,731	2,017,379	1,998,136
Total Adjustments (Final - Initial)							326,981	347,543	370,785	387,897	407,644	426,996	446,239
Annual Change								20,563	23,242	17,111	19,747	19,352	19,243

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Stormwater - Existing Rates													**Customer - 37**
Actual Rate													
Service Charge Based Rates ($/bill) [Including Billing & Collection Charge]													
5/8"		13.58	13.58	13.58	-	-	-	-	-	-	-	-	-
3/4"		82.56	82.56	82.56	-	-	-	-	-	-	-	-	-
1"		136.42	136.42	136.42	-	-	-	-	-	-	-	-	-
1 1/4"		206.41	206.41	206.41	-	-	-	-	-	-	-	-	-
1 1/2"		271.04	271.04	271.04	-	-	-	-	-	-	-	-	-
2"		432.59	432.59	432.59	-	-	-	-	-	-	-	-	-
3"		809.53	809.53	809.53	-	-	-	-	-	-	-	-	-
4"		1,348.04	1,348.04	1,348.04	-	-	-	-	-	-	-	-	-
6"		2,694.27	2,694.27	2,694.27	-	-	-	-	-	-	-	-	-
8"		4,309.78	4,309.78	4,309.78	-	-	-	-	-	-	-	-	-
10"		6,194.53	6,194.53	6,194.53	-	-	-	-	-	-	-	-	-
12"		11,579.52	11,579.52	11,579.52	-	-	-	-	-	-	-	-	-
14"		-	-	-	-	-	-	-	-	-	-	-	-
Parcel Area Based Rates													
Billing & Collection Charge ($/bill)													
Residential		1.65	1.69	1.69	2.21	2.22	1.80	1.77	1.77	1.77	1.77	1.77	1.77
Non-Residential		2.15	2.19	2.19	2.88	2.89	2.34	2.30	2.30	2.30	2.30	2.30	2.30
Condominium		2.15	2.19	2.19	2.88	2.89	2.34	2.30	2.30	2.30	2.30	2.30	2.30
IA/GA Charges													
Residential IA/GA Charge ($/bill)		11.80	12.46	12.46	11.91	12.49	13.73	14.03	14.03	14.03	14.03	14.03	14.03
IA Rate ($/500 sf)													
Non-Residential		4.497	4.746	4.746	4.700	4.912	5.304	5.410	5.410	5.410	5.410	5.410	5.410
Condominium		4.497	4.746	4.746	4.700	4.912	5.304	5.410	5.410	5.410	5.410	5.410	5.410
GA Rate ($/500 sf)													
Non-Residential		0.560	0.590	0.590	0.605	0.632	0.701	0.717	0.717	0.717	0.717	0.717	0.717
Condominium		0.560	0.590	0.590	0.605	0.632	0.701	0.717	0.717	0.717	0.717	0.717	0.717

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Effective Rate													
Effective Months													
Service Charge		12.00	12.00	12.00	12.00	12.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00
Volume Charge		11.50	11.50	11.50	11.50	11.50	9.50	9.50	11.50	11.50	11.50	11.50	11.50
Phase-in													
Meter Based Charges		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Parcel Based Charges		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Service Charge Based Rates ($/bill)													
5/8"		-	-	-	-	-	-	-	-	-	-	-	-
3/4"		-	-	-	-	-	-	-	-	-	-	-	-
1"		-	-	-	-	-	-	-	-	-	-	-	-
1 1/4"		-	-	-	-	-	-	-	-	-	-	-	-
1 1/2"		-	-	-	-	-	-	-	-	-	-	-	-
2"		-	-	-	-	-	-	-	-	-	-	-	-
3"		-	-	-	-	-	-	-	-	-	-	-	-
4"		-	-	-	-	-	-	-	-	-	-	-	-
6"		-	-	-	-	-	-	-	-	-	-	-	-
8"		-	-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-	-
14"		-	-	-	-	-	-	-	-	-	-	-	-
Parcel Area Based Rates													
Effective Billing & Collection Charge ($/bill)													
Residential		1.65	1.69	1.69	2.21	2.22	1.87	1.77	1.77	1.77	1.77	1.77	1.77
Non-Residential		2.15	2.19	2.19	2.88	2.89	2.43	2.30	2.30	2.30	2.30	2.30	2.30
Condominium		2.15	2.19	2.19	2.88	2.89	2.43	2.30	2.30	2.30	2.30	2.30	2.30
Effective IA/GA Charges													
Residential IA/GA Charge ($/bill)		11.83	12.43	12.46	11.93	12.47	13.47	13.97	14.03	14.03	14.03	14.03	14.03
IA Rate ($/500 sf)													
Non-Residential		4.507	4.736	4.746	4.702	4.903	5.222	5.388	5.410	5.410	5.410	5.410	5.410
Condominium		4.507	4.736	4.746	4.702	4.903	5.222	5.388	5.410	5.410	5.410	5.410	5.410
GA Rate ($/500 sf)													
Non-Residential		0.561	0.589	0.590	0.604	0.631	0.687	0.713	0.717	0.717	0.717	0.717	0.717
Condominium		0.561	0.589	0.590	0.604	0.631	0.687	0.713	0.717	0.717	0.717	0.717	0.717

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Stormwater - Calculated Billings (prior to adjustment factor)													**Customer - 38**
Service Charge Based Rates ($/bill)													
Senior Citizens													
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
Total Senior Citizens		-	-	-	-	-	-	-	-	-	-	-	-
General Service (Excluding Senior Citizens)													
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
Total General Service (excluding SC)		-	-	-	-	-	-	-	-	-	-	-	-
General Service (Including Senior Citizens)													
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-	-
Total General Service (including SC)		-	-	-	-	-	-	-	-	-	-	-	-
PHA		-	-	-	-	-	-	-	-	-	-	-	-
Charities & Schools		-	-	-	-	-	-	-	-	-	-	-	-
Hospital/University		-	-	-	-	-	-	-	-	-	-	-	-
Hand Bill		-	-	-	-	-	-	-	-	-	-	-	-
Scheduled		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-	-
Fire Service		-	-	-	-	-	-	-	-	-	-	-	-
Sewer Only		-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-	-

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Billing & Collection Charges (Accounts)													
Residential													
Non-Discount													
Water & Sewer		8,437	8,637	8,640	11,323	11,416	9,642	9,142	9,114	9,114	9,114	9,114	9,114
SW Only		209	204	188	229	188	145	138	137	137	137	137	137
Discount: Elderly, Education & Charities													
Water & Sewer		300	326	341	458	469	397	377	376	376	376	376	376
SW Only		0	0	0	1	1	0	0	0	0	0	0	0
Discount PHA													
Water & Sewer		82	83	83	108	106	89	84	84	84	84	84	84
SW Only		4	3	3	4	5	4	4	4	4	4	4	4
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		9,032	9,254	9,255	12,123	12,185	10,279	9,745	9,715	9,715	9,715	9,715	9,715
Non-Residential													
Non-Discount													
Water & Sewer		991	1,011	1,020	1,336	1,358	1,146	1,086	1,083	1,083	1,083	1,083	1,083
SW Only		987	977	968	1,259	1,240	1,037	982	978	978	977	977	976
Discount: Elderly, Education & Charities													
Water & Sewer		54	53	53	68	62	50	47	47	47	47	47	47
SW Only		6	6	6	8	6	6	5	5	5	4	4	4
Discount PHA													
Water & Sewer		27	24	25	39	39	35	33	33	33	33	33	33
SW Only		24	28	28	37	65	55	52	52	52	52	52	52
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,088	2,099	2,099	2,747	2,770	2,328	2,205	2,198	2,197	2,196	2,195	2,194
Condominiums													
Non-Discount													
Water & Sewer		89	95	95	134	144	130	123	123	123	123	123	123
SW Only		1	1	1	1	1	1	1	1	1	1	1	1
Discount: Elderly, Education & Charities													
Water & Sewer		9	10	11	13	13	10	10	10	10	10	10	10
SW Only		0	0	0	0	0	0	0	0	0	0	0	0
Discount PHA													
Water & Sewer		0	0	0	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	0	0	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		99	105	107	148	158	142	134	134	134	134	134	134
Total		11,219	11,459	11,462	15,017	15,113	12,748	12,085	12,047	12,046	12,045	12,044	12,043

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
GA/IA Charges (Parcels)													
Residential													
Non-Discount													
Water & Sewer		60,303	63,348	63,502	60,940	63,888	69,210	71,770	72,095	72,095	72,095	72,095	72,095
SW Only		1,500	1,500	1,385	1,237	1,059	1,047	1,086	1,091	1,091	1,091	1,091	1,091
Discount: Elderly, Education & Charities													
Water & Sewer		2,142	2,391	2,508	2,469	2,629	2,856	2,961	2,975	2,975	2,975	2,975	2,975
SW Only		3	3	3	3	3	3	4	4	4	4	4	4
Discount PHA													
Water & Sewer		572	593	592	566	574	614	637	640	640	640	640	640
SW Only		25	24	23	23	30	32	33	33	33	33	33	33
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		64,545	67,860	68,014	65,237	68,183	73,761	76,491	76,836	76,836	76,836	76,836	76,836
Non-Residential													
Non-Discount													
Water & Sewer		61,128	62,912	62,021	60,719	63,574	67,983	69,189	69,260	68,489	67,431	66,417	65,416
SW Only		12,573	12,639	12,558	12,261	12,660	13,420	13,664	13,623	13,455	13,221	12,989	12,760
Discount: Elderly, Education & Charities													
Water & Sewer		8,506	8,754	8,679	8,546	8,224	8,633	8,854	8,937	8,887	8,816	8,746	8,676
SW Only		363	386	348	329	333	375	385	389	387	385	382	379
Discount PHA													
Water & Sewer		773	809	804	887	920	999	1,032	1,090	1,090	1,090	1,090	1,090
SW Only		169	187	187	185	230	224	232	237	236	236	236	235
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		83,511	85,687	84,598	82,927	85,941	91,635	93,356	93,536	92,544	91,178	89,860	88,557
Condominiums													
Non-Discount													
Water & Sewer		1,809	2,096	2,231	2,339	2,495	2,832	2,884	2,889	2,857	2,810	2,762	2,716
SW Only		14	26	21	16	74	95	98	99	99	99	99	99
Discount: Elderly, Education & Charities													
Water & Sewer		64	69	72	62	63	67	67	65	64	61	59	57
SW Only		2	2	2	2	2	2	2	2	2	2	2	2
Discount PHA													
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1	1
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,889	2,194	2,326	2,419	2,636	2,997	3,052	3,056	3,023	2,973	2,923	2,874
Total		149,945	155,741	154,938	150,584	156,760	168,394	172,898	173,429	172,403	170,987	169,620	168,268

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Parcel Area Based Charges (Billing & Collection + GA/IA)													
Residential													
Non-Discount													
Water & Sewer		68,740	71,985	72,142	72,263	75,304	78,852	80,912	81,209	81,209	81,209	81,209	81,209
SW Only		1,710	1,704	1,573	1,466	1,247	1,193	1,224	1,228	1,228	1,228	1,228	1,228
Discount: Elderly, Education & Charities													
Water & Sewer		2,441	2,717	2,850	2,927	3,098	3,253	3,338	3,350	3,350	3,350	3,350	3,350
SW Only		3	4	4	3	3	4	4	4	4	4	4	4
Discount PHA													
Water & Sewer		654	677	675	674	680	703	721	723	723	723	723	723
SW Only		29	28	26	27	36	36	37	37	37	37	37	37
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		73,577	77,114	77,269	77,360	80,368	84,040	86,236	86,552	86,552	86,552	86,552	86,552
Non-Residential													
Non-Discount													
Water & Sewer		62,119	63,923	63,041	62,056	64,932	69,129	70,275	70,342	69,572	68,514	67,500	66,499
SW Only		13,559	13,615	13,527	13,520	13,900	14,457	14,645	14,601	14,433	14,198	13,966	13,736
Discount: Elderly, Education & Charities													
Water & Sewer		8,559	8,807	8,732	8,614	8,285	8,683	8,902	8,984	8,934	8,863	8,792	8,723
SW Only		369	392	355	337	339	381	391	394	392	389	386	383
Discount PHA													
Water & Sewer		800	834	828	925	959	1,034	1,065	1,123	1,123	1,123	1,123	1,123
SW Only		193	214	214	222	295	279	284	289	288	288	287	287
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		85,600	87,786	86,697	85,674	88,712	93,963	95,561	95,734	94,741	93,374	92,055	90,751
Condominiums													
Non-Discount													
Water & Sewer		1,898	2,191	2,326	2,472	2,639	2,962	3,007	3,012	2,980	2,932	2,885	2,838
SW Only		14	27	22	17	76	96	99	100	100	100	100	100
Discount: Elderly, Education & Charities													
Water & Sewer		73	79	83	75	76	77	76	75	73	71	69	66
SW Only		2	2	2	2	2	2	2	2	2	2	2	2
Discount PHA													
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1	1
SW Only		-	-	-	0	0	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,988	2,299	2,434	2,567	2,794	3,138	3,186	3,190	3,157	3,106	3,057	3,008
Total		161,164	167,199	166,400	165,601	171,873	181,141	184,983	185,476	184,449	183,032	181,664	180,311

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Stormwater Charge													
Water & Sewer		145,285	151,213	150,677	150,006	155,974	164,693	168,297	168,820	167,965	166,786	165,653	164,533
SW Only		15,880	15,987	15,723	15,595	15,899	16,448	16,686	16,655	16,484	16,246	16,011	15,778
Total Stormwater Charge-xxxxxxxxxx													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Total		161,164	167,199	166,400	165,601	171,873	181,141	184,983	185,476	184,449	183,032	181,664	180,311
Actual		78,410	150,760	164,210	174,088	173,306							
		205.5%	110.9%	101.3%	95.1%	99.2%							

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Stormwater - Retail - Billings Under Existing Rates (after adjustment factor)													**Customer - 39**
Section provided to allow for actual billings input													
Total Stormwater Charge													
Water & Sewer		145,285	151,213	150,677	150,006	155,974	164,693	168,297	168,820	167,965	166,786	165,653	164,533
SW Only		15,880	15,987	15,723	15,595	15,899	16,448	16,686	16,655	16,484	16,246	16,011	15,778
Total		161,164	167,199	166,400	165,601	171,873	181,141	184,983	185,476	184,449	183,032	181,664	180,311
CAP Reduction													
Water & Sewer		(4,160)	(3,766)	(2,972)	(2,293)	(1,825)	(1,821)	(1,823)	(1,823)	(1,824)	(1,825)	(1,827)	(1,828)
SW Only		(455)	(398)	(310)	(238)	(186)	(182)	(181)	(180)	(179)	(178)	(177)	(175)
Total (a)		(4,615)	(4,164)	(3,282)	(2,531)	(2,011)	(2,003)	(2,003)	(2,003)	(2,003)	(2,003)	(2,003)	(2,003)
Data Source: PWD SWDB													
Total Stormwater Charge													
Water & Sewer		141,124	147,447	147,705	147,713	154,149	162,872	166,474	166,997	166,141	164,960	163,826	162,705
SW Only		15,425	15,589	15,413	15,356	15,713	16,266	16,505	16,475	16,305	16,068	15,834	15,603
Total		156,549	163,035	163,118	163,070	169,862	179,138	182,979	183,472	182,446	181,029	179,660	178,308

(a) Source Data: PWD Assistance Program Data

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Stormwater - Retail - Collections													**Customer - 40**
Total Stormwater Charge													
Water & Sewer		141,124	147,447	147,705	147,713	154,149	162,872	166,474	166,997	166,141	164,960	163,826	162,705
SW Only		15,425	15,589	15,413	15,356	15,713	16,266	16,505	16,475	16,305	16,068	15,834	15,603
Total Stormwater Charge-xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Total		156,549	163,035	163,118	163,070	169,862	179,138	182,979	183,472	182,446	181,029	179,660	178,308
Collection Factors													
Water & Sewer (Excludes AMI Adjustment)													
Current Year		86.19%	87.15%	87.68%	88.16%	87.89%	86.87%	86.68%	86.68%	86.68%	86.68%	86.68%	86.68%
First Year Prior		9.81%	8.63%	8.26%	8.31%	8.17%	8.36%	8.74%	8.74%	8.74%	8.74%	8.74%	8.74%
Second Year Prior		1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%
SW Only													
Current Year		59.07%	59.50%	64.65%	66.74%	67.26%	68.27%	63.19%	63.19%	63.19%	63.19%	63.19%	63.19%
First Year Prior		7.49%	5.99%	8.17%	8.15%	7.96%	8.22%	7.88%	7.88%	7.88%	7.88%	7.88%	7.88%
Second Year Prior		6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%	6.57%
Effective													
Current Year			84.51%	85.50%	86.14%	85.98%	85.18%	84.56%	84.57%	84.58%	84.59%	84.61%	84.62%
First Year Prior			8.38%	8.25%	8.29%	8.15%	8.35%	8.66%	8.66%	8.66%	8.66%	8.66%	8.66%
Second Year Prior			2.35%	2.34%	2.34%	2.33%	2.32%	2.32%	2.32%	2.32%	2.31%	2.31%	2.31%
xxxxxxxxxx													
Current Year		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
First Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Second Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collections-Total													
Water & Sewer			140,679	144,368	145,300	150,357	157,180	161,464	162,397	161,769	160,681	159,579	158,485
Stormwater Only			10,199	12,252	12,529	12,803	13,405	12,744	12,780	12,686	12,521	12,343	12,163
Subtotal-Total			150,878	156,619	157,829	163,160	170,586	174,207	175,178	174,455	173,202	171,922	170,648
Collections-xxxxxxxxxx (Not in Use)													
Water & Sewer			-	-	-	-	-	-	-	-	-	-	-
Stormwater Only			-	-	-	-	-	-	-	-	-	-	-
Subtotal-xxxxxxxxxx			-	-	-	-	-	-	-	-	-	-	-
Total		-	150,878	156,619	157,829	163,160	170,586	174,207	175,178	174,455	173,202	171,922	170,648

Description	Escalation	Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Actual-Total													
Water & Sewer		-	-	-	-	-	-						
Stormwater Only		-	-	-	-	-	-						
Actual-xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-						
Stormwater Only		-	-	-	-	-	-						
Actual			128,107	133,834	132,196	141,744	152,754						
Check			118%	117%	119%	115%	112%						

Description	Escalation	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Detail Stormwater - Retail - Collections													**Customer - 41**
Residential													
Non-Discount													
Water & Sewer	x	59,247	68,667	70,506	71,070	73,460	76,167	78,457	78,962	79,027	79,032	79,032	79,032
SW Only	x	1,010	1,116	1,269	1,218	1,059	1,013	949	951	953	954	954	954
Discount: Elderly, Education & Charities													
Water & Sewer	x	2,104	2,579	2,769	2,869	3,016	3,140	3,236	3,257	3,260	3,260	3,260	3,260
SW Only	x	2	2	3	3	3	3	3	3	3	3	3	3
Discount PHA													
Water & Sewer	x	563	646	660	663	665	680	699	703	704	704	704	704
SW Only	x	17	18	21	22	28	29	29	29	29	29	29	29
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		62,944	73,029	75,228	75,845	78,230	81,033	83,374	83,905	83,976	83,982	83,982	83,982
Non-Residential													
Non-Discount													
Water & Sewer (adj for CAP)	x	49,954	57,429	58,739	58,822	61,489	64,882	66,416	66,654	66,013	65,028	64,041	63,064
SW Only (adj for CAP)	x	7,741	8,649	10,485	10,810	11,150	11,745	11,166	11,190	11,094	10,930	10,755	10,577
Discount: Elderly, Education & Charities													
Water & Sewer	x	7,377	8,414	8,546	8,487	8,152	8,399	8,632	8,731	8,698	8,634	8,566	8,498
SW Only	x	218	256	286	280	278	310	299	305	304	303	300	298
Discount PHA													
Water & Sewer	x	690	796	810	900	934	996	1,032	1,086	1,092	1,093	1,093	1,093
SW Only	x	114	139	169	179	230	229	221	223	223	223	223	223
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		66,094	75,682	79,035	79,478	82,233	86,562	87,766	88,189	87,424	86,211	84,978	83,752
Condominiums													
Non-Discount													
Water & Sewer	x	1,636	2,073	2,256	2,414	2,566	2,841	2,916	2,930	2,904	2,859	2,814	2,768
SW Only	x	9	17	17	15	54	73	75	77	78	78	78	78
Discount: Elderly, Education & Charities													
Water & Sewer	x	63	75	81	74	74	74	74	73	71	69	67	65
SW Only	x	1	1	2	2	2	2	2	2	2	2	2	2
Discount PHA													
Water & Sewer	x	1	1	1	1	1	1	1	1	1	1	1	1
SW Only	x	-	-	-	0	0	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)													
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,709	2,167	2,357	2,506	2,696	2,991	3,068	3,083	3,055	3,009	2,961	2,913
Total		130,747	150,878	156,619	157,829	163,160	170,586	174,207	175,178	174,455	173,202	171,922	170,648
Collections-Total													
Water & Sewer		121,635	140,679	144,368	145,300	150,357	157,180	161,464	162,397	161,769	160,681	159,579	158,485
Check		(121,635)	-	-	-	-	-	-	-	-	-	-	-
Stormwater Only		9,112	10,199	12,252	12,529	12,803	13,405	12,744	12,780	12,686	12,521	12,343	12,163
Check		(9,112)	-	-	-	-	-	-	-	-	-	-	-

Note - Elderly Discounts refers to Senior Citizen Discount

FINPLAN19.XLS

BILLTAB

Index	Description	Table

Bill Tab	Bill Tabulation Data Worksheet
Bill Tab - 1	Water Bill Tabulation Data
Bill Tab - 2	Sewer Bill Tabulation Data

Water Bill Tabulation Data

Bill Tab - 1

SELECTED BILL TAB DISTRIBUTION 2019

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	96.06%	99.96%	92.92%	45.63%	7.65%	4.15%	100.00%	100.00%	100.00%	1.77%	0.79%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.38%
1	2.11%	0.03%	1.55%	11.97%	6.91%	3.32%	0.00%	0.00%	0.00%	1.90%	27.57%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.50%	0.00%	2.14%	5.83%	2.72%	4.15%	0.00%	0.00%	0.00%	2.42%	4.08%
2	0.75%	0.01%	1.70%	10.08%	13.09%	13.28%	0.00%	0.00%	0.00%	34.51%	30.17%
3	0.22%	0.00%	0.65%	9.75%	21.73%	26.97%	0.00%	0.00%	0.00%	3.02%	1.71%
4	0.17%	0.00%	0.51%	12.58%	23.70%	26.97%	0.00%	0.00%	0.00%	18.94%	11.64%
6	0.12%	0.00%	0.41%	3.33%	19.01%	14.52%	0.00%	0.00%	0.00%	27.30%	17.04%
8	0.04%	0.00%	0.12%	0.74%	4.20%	5.39%	0.00%	0.00%	0.00%	8.81%	5.75%
10	0.01%	0.00%	0.00%	0.09%	0.99%	1.24%	0.00%	0.00%	0.00%	1.17%	0.74%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.14%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	61.23%	91.46%	35.16%	18.07%	2.27%	1.05%	100.00%	100.00%	100.00%	13.69%	
2 - 100 Mcf	28.90%	8.45%	41.12%	72.74%	45.41%	30.12%	0.00%	0.00%	0.00%	66.19%	
100 - 2,000 Mcf	8.50%	0.10%	21.35%	9.20%	51.37%	55.83%	0.00%	0.00%	0.00%	20.12%	
Over 2,000 Mcf	1.17%	0.00%	2.37%	0.00%	0.95%	13.00%	0.00%	0.00%	0.00%	0.00%	
Total	99.81%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulati

Bill Tab - 1a

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2019

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts												
Meters	460,351	23,469	5,877	2,163	406	241	3	-	-	5,538	9,173	
5/8	442,212	23,460	5,461	987	31	10	3	-	-	98	72	472,334
3/4	76	-	-	-	-	-	-	-	-	-	35	111
1	9,704	6	91	259	28	8	-	-	-	105	2,529	12,730
1 1/4	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	2,316	1	126	126	11	10	-	-	-	134	374	3,098
2	3,437	2	100	218	53	32	-	-	-	1,911	2,767	8,521
3	1,013	-	38	211	88	65	-	-	-	167	157	1,739
4	783	-	30	272	96	65	-	-	-	1,049	1,068	3,363
6	568	-	24	72	77	35	-	-	-	1,512	1,563	3,851
8	196	-	7	16	17	13	-	-	-	488	528	1,265
10	38	-	-	2	4	3	-	-	-	65	68	180
12	8	-	-	-	-	-	-	-	-	9	13	30
14	-	-	-	-	-	-	-	-	-	-	-	-
Total	460,351	23,469	5,877	2,163	406	241	3	-	-	5,538	9,173	507,221
Volume	4,736,402	129,989	157,347	157,659	286,455	428,623	13	-	-	8,487		
0 - 2 Mcf	2,900,174	118,883	55,320	28,482	6,511	4,492	13	-	-	1,162		3,115,036
2 - 100 Mcf	1,368,984	10,979	64,708	114,679	130,066	129,108	-	-	-	5,618		1,824,141
100 - 2,000 Mcf	402,636	128	33,588	14,499	147,161	239,312	-	-	-	1,707		839,031
Over 2,000 Mcf	55,562	-	3,731	-	2,717	55,711	-	-	-	-		117,721
Total	4,727,356	129,989	157,347	157,659	286,455	428,623	13	-	-	8,487		5,895,930

Water Bill TabulatiWater

Bill Tab - 1b

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2019

Description	Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Water Accounts							Year Choose:	2019		
Meters	**Meters**	91.75%	7.98%	0.23%	0.04%	422,367	36,747	1,064	173	460,351
5/8	5/8	97.90%	76.58%	48.31%	42.77%	413,482	28,142	514	74	442,212
3/4	3/4	0.02%	0.03%	0.00%	0.00%	65	11	-	-	76
1	1	1.49%	8.52%	22.56%	17.92%	6,303	3,130	240	31	9,704
1 1/4	1 1/4	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
1 1/2	1 1/2	0.21%	3.69%	7.71%	6.94%	866	1,356	82	12	2,316
2	2	0.29%	5.63%	11.37%	15.03%	1,220	2,070	121	26	3,437
3	3	0.04%	2.13%	5.08%	9.25%	161	782	54	16	1,013
4	4	0.03%	1.74%	1.79%	3.47%	117	641	19	6	783
6	6	0.03%	1.17%	2.07%	2.89%	111	430	22	5	568
8	8	0.01%	0.40%	0.85%	1.16%	37	148	9	2	196
10	10	0.00%	0.08%	0.28%	0.58%	4	30	3	1	38
12	12	0.00%	0.02%	0.00%	0.00%	1	7	-	-	8
14	14	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	**Total**	100.00%	100.00%	100.00%	100.00%	422,367	36,747	1,064	173	460,351
Volume	**Volume**	63.32%	33.23%	3.26%	0.19%	2,999,325	1,573,779	154,252	9,046	4,736,402
0 - 2 Mcf	0 - 2 Mcf	84.98%	21.59%	7.47%	15.62%	2,548,817	339,839	11,517	1,413	2,901,586
2 - 100 Mcf	2 - 100 Mcf	14.11%	56.91%	32.44%	78.17%	423,268	895,680	50,035	7,071	1,376,055
100 - 2,000 Mcf	100 - 2,000 Mcf	0.91%	19.90%	40.38%	6.21%	27,240	313,108	62,289	562	403,198
Over 2,000 Mcf	Over 2,000 Mcf	0.00%	1.60%	19.72%	0.00%	-	25,151	30,411	-	55,562
Total	**Total**	100.00%	100.00%	100.00%	100.00%	2,999,325	1,573,779	154,252	9,046	4,736,402

Water Bill Tabulation Data

Bill Tab - 1

2019 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	96.06%	99.96%	92.92%	45.63%	7.65%	4.15%	100.00%	100.00%	100.00%	1.77%	0.79%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.38%
1	2.11%	0.03%	1.55%	11.97%	6.91%	3.32%	0.00%	0.00%	0.00%	1.90%	27.57%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.50%	0.00%	2.14%	5.83%	2.72%	4.15%	0.00%	0.00%	0.00%	2.42%	4.08%
2	0.75%	0.01%	1.70%	10.08%	13.09%	13.28%	0.00%	0.00%	0.00%	34.51%	30.17%
3	0.22%	0.00%	0.65%	9.75%	21.73%	26.97%	0.00%	0.00%	0.00%	3.02%	1.71%
4	0.17%	0.00%	0.51%	12.58%	23.70%	26.97%	0.00%	0.00%	0.00%	18.94%	11.64%
6	0.12%	0.00%	0.41%	3.33%	19.01%	14.52%	0.00%	0.00%	0.00%	27.30%	17.04%
8	0.04%	0.00%	0.12%	0.74%	4.20%	5.39%	0.00%	0.00%	0.00%	8.81%	5.75%
10	0.01%	0.00%	0.00%	0.09%	0.99%	1.24%	0.00%	0.00%	0.00%	1.17%	0.74%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.14%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	61.26%	91.46%	35.16%	18.07%	2.27%	1.05%	100.00%	100.00%	100.00%	13.69%	
2 - 100 Mcf	29.05%	8.45%	41.12%	72.74%	45.41%	30.12%	0.00%	0.00%	0.00%	66.19%	
100 - 2,000 Mcf	8.51%	0.10%	21.35%	9.20%	51.37%	55.83%	0.00%	0.00%	0.00%	20.12%	
Over 2,000 Mcf	1.17%	0.00%	2.37%	0.00%	0.95%	13.00%	0.00%	0.00%	0.00%	0.00%	
							0				
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2019 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2019									
Meters												
5/8	442,212	23,460	5,461	987	31	10	3	0	0	98	104	472,366
3/4	76	0	0	0	0	0	0			0	50	126
1	9,704	6	91	259	28	8	0			105	3,640	13,841
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,316	1	126	126	11	10	0			134	538	3,262
2	3,437	2	100	218	53	32	0			1,911	3,984	9,737
3	1,013	0	38	211	88	65	0			167	226	1,808
4	783	0	30	272	96	65	0			1,049	1,537	3,832
6	568	0	24	72	77	35	0			1,512	2,250	4,538
8	196	0	7	16	17	13	0			488	760	1,497
10	38	0	0	2	4	3	0			65	98	210
12	8	0	0	0	0	0	0			9	18	35
14	-	0	0	0	0	0	0			0	0	-
Total	460,351	23,469	5,877	2,163	405	241	3	0	0	5,538	13,204	511,251
Volume												
0 - 2 Mcf	2,900,037	120,174	55,421	28,049	6,907	4,692	13	0	0	1,150		3,116,442
2 - 100 Mcf	1,375,320	11,098	64,826	112,935	137,981	134,831	0			5,560		1,842,551
100 - 2,000 Mcf	402,983	129	33,649	14,278	156,115	249,922	0			1,690		858,766
Over 2,000 Mcf	55,533	0	3,738	0	2,883	58,181	0			0		120,334
Total	4,733,872	131,401	157,633	155,262	303,885	447,626	13	0	0	8,400		5,938,092

Water Bill Tabulation Data

Bill Tab - 1b

2019 Data

Description	Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Water Accounts							Fiscal Year	2019		
Meters	**Meters**	91.75%	7.98%	0.23%	0.04%					
5/8	5/8	97.90%	76.58%	48.31%	42.77%	413,482	28,142	514	74	442,212
3/4	3/4	0.02%	0.03%	0.00%	0.00%	65	11	0	0	76
1	1	1.49%	8.52%	22.56%	17.92%	6,303	3,130	240	31	9,704
1 1/4	1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	1 1/2	0.21%	3.69%	7.71%	6.94%	866	1,356	82	12	2,316
2	2	0.29%	5.63%	11.37%	15.03%	1,220	2,070	121	26	3,437
3	3	0.04%	2.13%	5.08%	9.25%	161	782	54	16	1,013
4	4	0.03%	1.74%	1.79%	3.47%	117	641	19	6	783
6	6	0.03%	1.17%	2.07%	2.89%	111	430	22	5	568
8	8	0.01%	0.40%	0.85%	1.16%	37	148	9	2	196
10	10	0.00%	0.08%	0.28%	0.58%	4	30	3	1	38
12	12	0.00%	0.02%	0.00%	0.00%	1	7	0	0	8
14	14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	**Total**	100.00%	100.00%	100.00%	100.00%	422,367	36,747	1,064	173	460,351
Volume	**Volume**	63.32%	33.23%	3.26%	0.19%					
0 - 2 Mcf	0 - 2 Mcf	84.98%	21.59%	7.47%	15.62%	2,547,456	339,658	11,511	1,412	2,900,037
2 - 100 Mcf	2 - 100 Mcf	14.11%	56.91%	32.44%	78.17%	423,042	895,202	50,008	7,067	1,375,320
100 - 2,000 Mcf	100 - 2,000 Mcf	0.91%	19.90%	40.38%	6.21%	27,225	312,941	62,255	562	402,983
Over 2,000 Mcf	Over 2,000 Mcf	0.00%	1.60%	19.72%	0.00%	0	25,138	30,395	0	55,533
Total	**Total**	100.00%	100.00%	100.00%	100.00%	2,997,723	1,572,938	154,169	9,041	4,733,872

Water Bill Tabulation Data

Bill Tab - 1

2018 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	96.42%	99.97%	94.13%	46.75%	7.43%	4.15%	100.00%	100.00%	100.00%	1.95%	0.62%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.46%
1	1.85%	0.02%	1.34%	11.69%	6.86%	3.73%	0.00%	0.00%	0.00%	1.86%	26.03%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.48%	0.00%	1.54%	5.82%	2.57%	4.15%	0.00%	0.00%	0.00%	2.21%	3.92%
2	0.70%	0.01%	1.30%	9.99%	14.29%	13.28%	0.00%	0.00%	0.00%	30.36%	29.04%
3	0.21%	0.00%	0.64%	9.45%	22.57%	26.97%	0.00%	0.00%	0.00%	3.29%	1.88%
4	0.16%	0.00%	0.51%	12.40%	22.29%	26.97%	0.00%	0.00%	0.00%	20.01%	12.36%
6	0.11%	0.00%	0.42%	3.13%	18.86%	14.11%	0.00%	0.00%	0.00%	29.40%	18.54%
8	0.04%	0.00%	0.12%	0.67%	4.29%	4.98%	0.00%	0.00%	0.00%	9.40%	6.20%
10	0.01%	0.00%	0.00%	0.09%	0.86%	1.66%	0.00%	0.00%	0.00%	1.29%	0.81%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	0.15%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	62.59%	92.65%	34.15%	18.35%	2.25%	0.98%	100.00%	100.00%	100.00%	7.13%	
2 - 100 Mcf	29.42%	7.32%	40.90%	74.62%	44.97%	28.21%	0.00%	0.00%	0.00%	37.07%	
100 - 2,000 Mcf	7.61%	0.03%	24.61%	7.03%	48.24%	53.16%	0.00%	0.00%	0.00%	55.80%	
Over 2,000 Mcf	0.38%	0.00%	0.33%	0.00%	4.54%	17.65%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2018 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2018									
Meters												
5/8	447,651	22,994	5,564	1,044	26	10	4	0	0	89	68	477,450
3/4	72	0	0	0	0	0	0			0	50	122
1	8,610	4	79	261	24	9	0			85	2,859	11,931
1 1/4	14	0	0	0	0	0	0			0	0	14
1 1/2	2,210	1	91	130	9	10	0			101	431	2,983
2	3,251	2	77	223	50	32	0			1,385	3,189	8,209
3	992	0	38	211	79	65	0			150	206	1,741
4	742	0	30	277	78	65	0			913	1,357	3,462
6	526	0	25	70	66	34	0			1,341	2,036	4,098
8	175	0	7	15	15	12	0			429	681	1,334
10	33	0	0	2	3	4	0			59	89	190
12	6	0	0	0	0	0	0			10	17	33
14	-	0	0	0	0	0	0			0	0	-
Total	464,282	23,001	5,911	2,233	350	241	4	0	0	4,562	10,983	511,567
Volume												
0 - 2 Mcf	2,947,250	119,753	55,989	29,626	6,592	4,759	13	0	0	1,122		3,165,105
2 - 100 Mcf	1,385,406	9,460	67,048	120,454	131,785	136,868	0			5,831		1,856,851
100 - 2,000 Mcf	358,245	42	40,344	11,348	141,348	257,940	0			8,778		818,045
Over 2,000 Mcf	17,890	0	548	0	13,305	85,626	0			0		117,369
Total	4,708,791	129,255	163,929	161,428	293,031	485,193	13	0	0	15,730		5,957,370

Water Bill Tabulation Data

Bill Tab - 1b

2018 Data

Description	Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Water Accounts						Fiscal Year		2018		
Meters	**Meters**	91.86%	7.87%	0.23%	0.04%					
5/8	5/8	98.20%	77.30%	48.74%	40.00%	418,816	28,246	523	66	447,651
3/4	3/4	0.02%	0.02%	0.00%	0.00%	64	8	0	0	72
1	1	1.24%	8.31%	22.55%	18.18%	5,303	3,035	242	30	8,610
1 1/4	1 1/4	0.00%	0.00%	0.00%	8.48%	0	0	0	14	14
1 1/2	1 1/2	0.19%	3.58%	7.55%	0.00%	820	1,309	81	0	2,210
2	2	0.26%	5.48%	11.28%	15.15%	1,104	2,001	121	25	3,251
3	3	0.04%	2.08%	5.22%	9.70%	160	760	56	16	992
4	4	0.02%	1.67%	1.77%	4.24%	104	612	19	7	742
6	6	0.02%	1.10%	1.96%	3.03%	97	403	21	5	526
8	8	0.01%	0.37%	0.75%	0.61%	31	135	8	1	175
10	10	0.00%	0.07%	0.19%	0.00%	4	27	2	0	33
12	12	0.00%	0.01%	0.00%	0.61%	1	4	0	1	6
14	14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	**Total**	100.00%	100.00%	100.00%	100.00%	426,504	36,540	1,073	165	464,282
Volume	**Volume**	64.84%	32.87%	2.09%	0.20%					
0 - 2 Mcf	0 - 2 Mcf	84.90%	22.09%	11.87%	15.83%	2,592,244	341,820	11,690	1,497	2,947,250
2 - 100 Mcf	2 - 100 Mcf	14.29%	57.78%	48.72%	74.17%	436,161	894,234	47,997	7,014	1,385,406
100 - 2,000 Mcf	100 - 2,000 Mcf	0.81%	19.48%	31.39%	10.00%	24,846	301,534	30,920	945	358,245
Over 2,000 Mcf	Over 2,000 Mcf	0.00%	0.64%	8.03%	0.00%	0	9,980	7,910	0	17,890
Total	**Total**	100.00%	100.00%	100.00%	100.00%	3,053,251	1,547,567	98,516	9,457	4,708,791

Water Bill Tabulation Data

Bill Tab - 1

2017 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	96.84%	99.97%	94.41%	47.04%	8.61%	4.31%	100.00%	100.00%	100.00%	1.92%	0.65%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48%
1	1.62%	0.02%	1.40%	12.11%	6.85%	3.92%	0.00%	0.00%	0.00%	1.54%	21.94%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.44%	0.00%	1.08%	6.03%	2.94%	3.92%	0.00%	0.00%	0.00%	1.89%	3.35%
2	0.64%	0.01%	1.48%	10.06%	12.72%	13.73%	0.00%	0.00%	0.00%	28.58%	27.80%
3	0.18%	0.00%	0.64%	8.99%	21.14%	26.67%	0.00%	0.00%	0.00%	3.37%	2.26%
4	0.13%	0.00%	0.49%	11.86%	25.24%	27.06%	0.00%	0.00%	0.00%	20.77%	13.86%
6	0.09%	0.00%	0.39%	3.16%	18.40%	13.73%	0.00%	0.00%	0.00%	30.65%	21.52%
8	0.03%	0.00%	0.12%	0.66%	3.52%	4.71%	0.00%	0.00%	0.00%	9.67%	7.04%
10	0.00%	0.00%	0.00%	0.08%	0.59%	1.96%	0.00%	0.00%	0.00%	1.37%	0.92%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.24%	0.17%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	62.83%	94.18%	35.28%	18.21%	2.73%	0.88%	100.00%	100.00%	100.00%	6.66%	
2 - 100 Mcf	28.68%	5.82%	40.47%	72.60%	49.56%	25.02%	0.00%	0.00%	0.00%	36.90%	
100 - 2,000 Mcf	8.01%	0.00%	24.16%	9.03%	47.57%	50.87%	0.00%	0.00%	0.00%	56.44%	
Over 2,000 Mcf	0.49%	0.00%	0.10%	0.16%	0.14%	23.22%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2017 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2017									
Meters												
5/8	440,377	22,365	5,602	1,146	44	11	4	0	0	87	64	469,700
3/4	78	0	0	0	0	0	0			0	47	125
1	7,381	4	83	295	35	10	0			70	2,165	10,043
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,013	1	64	147	15	10	0			86	331	2,667
2	2,915	2	88	245	65	35	0			1,298	2,744	7,392
3	799	0	38	219	108	68	0			153	223	1,608
4	576	0	29	289	129	69	0			943	1,368	3,403
6	426	0	23	77	94	35	0			1,392	2,124	4,171
8	152	0	7	16	18	12	0			439	695	1,339
10	17	0	0	2	3	5	0			62	91	180
12	6	0	0	0	0	0	0			11	17	34
14	-	0	0	0	0	0	0			0	0	-
Total	454,740	22,372	5,934	2,436	511	255	4	0	0	4,541	9,869	500,662
Volume												
0 - 2 Mcf	2,973,812	116,186	57,089	33,424	8,351	4,989	14	0	0	960		3,194,824
2 - 100 Mcf	1,357,509	7,178	65,489	133,241	151,883	141,974	0			5,318		1,862,591
100 - 2,000 Mcf	378,963	0	39,099	16,566	145,789	288,626	0			8,133		877,175
Over 2,000 Mcf	23,142	0	163	300	418	131,761	0			0		155,785
Total	4,733,426	123,364	161,840	183,530	306,440	567,350	14	0	0	14,411		6,090,375

Water Bill Tabulation Data

Bill Tab - 1b

2017 Data

Description	Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Water Accounts						Fiscal Year		2017		
Meters	**Meters**	92.05%	7.69%	0.24%	0.03%					
5/8	5/8	98.41%	79.82%	49.21%	37.42%	411,896	27,896	527	58	440,377
3/4	3/4	0.02%	0.03%	0.00%	0.00%	68	10	0	0	78
1	1	1.04%	7.89%	22.69%	20.00%	4,348	2,759	243	31	7,381
1 1/4	1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	1 1/2	0.18%	3.34%	7.47%	8.39%	753	1,167	80	13	2,013
2	2	0.26%	4.78%	10.92%	16.13%	1,103	1,670	117	25	2,915
3	3	0.04%	1.63%	5.04%	9.68%	162	568	54	15	799
4	4	0.02%	1.28%	1.77%	3.87%	103	448	19	6	576
6	6	0.02%	0.87%	1.96%	3.23%	96	304	21	5	426
8	8	0.01%	0.31%	0.75%	0.65%	33	110	8	1	152
10	10	0.00%	0.03%	0.19%	0.00%	3	12	2	0	17
12	12	0.00%	0.01%	0.00%	0.65%	1	4	0	1	6
14	14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	**Total**	100.00%	100.00%	100.00%	100.00%	418,566	34,948	1,071	155	454,740
Volume	**Volume**	65.12%	32.57%	2.09%	0.22%					
0 - 2 Mcf	0 - 2 Mcf	85.04%	22.04%	11.69%	13.70%	2,621,051	339,761	11,575	1,425	2,973,812
2 - 100 Mcf	2 - 100 Mcf	14.12%	56.30%	46.90%	74.85%	435,211	868,087	46,424	7,786	1,357,509
100 - 2,000 Mcf	100 - 2,000 Mcf	0.84%	20.40%	37.61%	11.45%	25,951	314,593	37,227	1,191	378,963
Over 2,000 Mcf	Over 2,000 Mcf	0.00%	1.26%	3.79%	0.00%	0	19,393	3,750	0	23,142
Total	**Total**	100.00%	100.00%	100.00%	100.00%	3,082,213	1,541,834	98,976	10,403	4,733,426

Sewer Bill Tabulation Data

Bill Tab - 2

SELECTED BILL TAB DISTRIBUTION 2018

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	General Service
Sewer Accounts												
Meters												457,028
5/8	96.76%	99.98%	96.18%	48.19%	7.87%	4.11%	100.00%	100.00%	100.00%	57.14%	69.84%	442,235
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59%	70
1	1.82%	0.02%	0.40%	12.04%	7.87%	4.11%	0.00%	0.00%	0.00%	16.19%	3.17%	8,297
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
1 1/2	0.47%	0.00%	1.57%	5.92%	2.95%	4.57%	0.00%	0.00%	0.00%	7.62%	0.00%	2,144
2	0.57%	0.00%	0.47%	10.20%	16.39%	14.61%	0.00%	0.00%	0.00%	11.43%	11.11%	2,607
3	0.21%	0.00%	0.66%	9.78%	25.90%	29.22%	0.00%	0.00%	0.00%	0.95%	3.17%	944
4	0.11%	0.00%	0.42%	12.46%	22.62%	29.22%	0.00%	0.00%	0.00%	4.76%	4.76%	503
6	0.04%	0.00%	0.22%	1.32%	13.11%	10.50%	0.00%	0.00%	0.00%	1.90%	3.17%	170
8	0.01%	0.00%	0.09%	0.09%	2.95%	2.74%	0.00%	0.00%	0.00%	0.00%	1.59%	40
10	0.00%	0.00%	0.00%	0.00%	0.33%	0.91%	0.00%	0.00%	0.00%	0.00%	1.59%	16
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	457,028
Volume												4,606,952
0 - 2 Mcf	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	4,736,402
2 - 100 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
100 - 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Over 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	4,736,402

Sewer Bill Tabulation Data

Bill Tab - 2a

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2019

	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total	
Sewer Accounts												
Meters	23,447	5,737	2,051	353	217	3	-	-	112	59	9,472,803	**Meters**
5/8	23,442	5,518	988	28	9	3	-	-	64	41	472,328	5/8
3/4	-	-	-	-	-	-	-	-	-	1	71	3/4
1	4	23	247	28	9	-	-	-	18	2	8,628	1
1 1/4	-	-	-	-	-	-	-	-	-	-	-	1 1/4
1 1/2	1	90	121	10	10	-	-	-	9	-	2,386	1 1/2
2	-	27	209	58	32	-	-	-	13	7	2,952	2
3	-	38	201	91	63	-	-	-	1	2	1,340	3
4	-	24	256	80	63	-	-	-	5	3	934	4
6	-	13	27	46	23	-	-	-	2	2	283	6
8	-	5	2	10	6	-	-	-	-	1	64	8
10	-	-	-	1	2	-	-	-	-	1	20	10
12	-	-	-	-	-	-	-	-	-	-	-	12
14	-	-	-	-	-	-	-	-	-	-	-	14
Total	23,447	5,737	2,051	353	217	3	-	-	112	59	489,007	**Total**
Volume	129,887	157,280	156,747	286,421	418,857	13	-	-	8,387	66,411		**Volume**
0 - 2 Mcf	129,887	157,280	156,747	286,421	418,857	13	-	-	8,387	66,411	5,960,404	0 - 2 Mcf
2 - 100 Mcf	-	-	-	-	-	-	-	-	-	-	-	2 - 100 Mcf
100 - 2,000 Mcf	-	-	-	-	-	-	-	-	-	-	-	100 - 2,000 Mcf
Over 2,000 Mcf	-	-	-	-	-	-	-	-	-	-	-	Over 2,000 Mcf
Total	129,887	157,280	156,747	286,421	418,857	13	-	-	8,387	66,411	5,960,404	**Total**

Sewer Bill Tabulation Data

Bill Tab - 2b

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2019

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Sewer Accounts						Year Choose:	2019		
Meters	91.91%	7.83%	0.22%	0.04%	420,034	35,804	1,020	170	457,028
5/8	98.14%	78.29%	50.10%	43.53%	412,223	28,031	511	74	440,839
3/4	0.02%	0.03%	0.00%	0.00%	64	11	-	-	75
1	1.45%	8.64%	23.33%	17.65%	6,109	3,094	238	30	9,471
1 1/4	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
1 1/2	0.20%	3.71%	7.94%	7.06%	828	1,330	81	12	2,251
2	0.14%	5.40%	11.27%	14.71%	606	1,934	115	25	2,680
3	0.03%	2.13%	5.20%	9.41%	141	762	53	16	972
4	0.01%	1.24%	1.27%	3.53%	47	444	13	6	510
6	0.00%	0.40%	0.78%	2.94%	12	144	8	5	169
8	0.00%	0.10%	0.10%	1.18%	3	37	1	2	43
10	0.00%	0.05%	0.00%	0.00%	1	17	-	-	18
12	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
14	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	100.00%	100.00%	100.00%	100.00%	420,034	35,804	1,020	170	457,028
Volume	25.00%	25.00%	25.00%	25.00%	1,151,738	1,151,738	1,151,738	1,151,738	4,606,952
0 - 2 Mcf	100.00%	100.00%	100.00%	100.00%	2,999,325	1,573,779	154,252	9,046	4,736,402
2 - 100 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
100 - 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Over 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	100.00%	100.00%	100.00%	100.00%	2,999,325	1,573,779	154,252	9,046	4,736,402

Sewer Bill Tabulation Data

Bill Tab - 2

2019 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	General Service Fiscal Year:
Meters												
5/8	96.46%	99.97%	95.10%	46.95%	8.22%	4.15%	100.00%	100.00%	100.00%	56.25%	72.88%	440,839
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	75
1	2.07%	0.03%	0.52%	12.38%	7.93%	3.69%	0.00%	0.00%	0.00%	16.96%	3.39%	9,471
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
1 1/2	0.49%	0.00%	2.18%	6.00%	3.12%	4.61%	0.00%	0.00%	0.00%	8.93%	0.00%	2,251
2	0.59%	0.00%	0.80%	10.34%	15.01%	14.75%	0.00%	0.00%	0.00%	10.71%	10.17%	2,680
3	0.21%	0.00%	0.66%	10.14%	24.93%	29.49%	0.00%	0.00%	0.00%	0.89%	1.69%	972
4	0.11%	0.00%	0.42%	12.68%	24.08%	29.49%	0.00%	0.00%	0.00%	4.46%	5.08%	510
6	0.04%	0.00%	0.23%	1.37%	13.60%	10.60%	0.00%	0.00%	0.00%	1.79%	3.39%	169
8	0.01%	0.00%	0.09%	0.15%	2.55%	2.30%	0.00%	0.00%	0.00%	0.00%	1.69%	43
10	0.00%	0.00%	0.00%	0.00%	0.57%	0.92%	0.00%	0.00%	0.00%	0.00%	1.69%	18
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	457,028
Volume												Volume Distribu
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400

Sewer Bill Tabulation Data

Bill Tab - 2a

2019 Data

Sewer Accounts	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total	
	2019											
Meters												**Meters**
5/8	23,440	5,456	963	29	9	3	0	0	63	43	470,845	5/8
3/4	0	0	0	0	0	0			0	0	75	3/4
1	6	30	254	28	8	0			19	2	9,818	1
1 1/4	0	0	0	0	0	0			0	0	-	1 1/4
1 1/2	1	125	123	11	10	0			10	0	2,531	1 1/2
2	0	46	212	53	32	0			12	6	3,041	2
3	0	38	208	88	64	0			1	1	1,372	3
4	0	24	260	85	64	0			5	3	951	4
6	0	13	28	48	23	0			2	2	285	6
8	0	5	3	9	5	0			0	1	66	8
10	0	0	0	2	2	0			0	1	23	10
12	0	0	0	0	0	0			0	0	-	12
14	0	0	0	0	0	0			0	0	-	14
Total	23,447	5,737	2,051	353	217	3	0	0	112	59	489,007	**Total**
Volume	ition not required for Sanitary Sewer											**Volume**
All Usage	100	100	100	100	100	100	100	100	100	100	1,400	All Usage
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
Total	100	100	100	100	100	100	100	100	100	100	1,400	**Total**

Sewer Bill Tabulation Data

Bill Tab - 2b

2019 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Sewer Accounts					Fiscal Year:		2019		
Meters	91.91%	7.83%	0.22%	0.04%					
5/8	98.14%	78.29%	50.10%	43.53%	412,223	28,031	511	74	440,839
3/4	0.02%	0.03%	0.00%	0.00%	64	11	0	0	75
1	1.45%	8.64%	23.33%	17.65%	6,109	3,094	238	30	9,471
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.20%	3.71%	7.94%	7.06%	828	1,330	81	12	2,251
2	0.14%	5.40%	11.27%	14.71%	606	1,934	115	25	2,680
3	0.03%	2.13%	5.20%	9.41%	141	762	53	16	972
4	0.01%	1.24%	1.27%	3.53%	47	444	13	6	510
6	0.00%	0.40%	0.78%	2.94%	12	144	8	5	169
8	0.00%	0.10%	0.10%	1.18%	3	37	1	2	43
10	0.00%	0.05%	0.00%	0.00%	1	17	0	0	18
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	420,034	35,804	1,020	170	457,028
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2018 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	General Service Fiscal Year:
Meters												
5/8	96.76%	99.98%	96.18%	48.19%	7.87%	4.11%	100.00%	100.00%	100.00%	57.14%	69.84%	446,280
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59%	71
1	1.82%	0.02%	0.40%	12.04%	7.87%	4.11%	0.00%	0.00%	0.00%	16.19%	3.17%	8,373
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
1 1/2	0.47%	0.00%	1.57%	5.92%	2.95%	4.57%	0.00%	0.00%	0.00%	7.62%	0.00%	2,164
2	0.57%	0.00%	0.47%	10.20%	16.39%	14.61%	0.00%	0.00%	0.00%	11.43%	11.11%	2,631
3	0.21%	0.00%	0.66%	9.78%	25.90%	29.22%	0.00%	0.00%	0.00%	0.95%	3.17%	953
4	0.11%	0.00%	0.42%	12.46%	22.62%	29.22%	0.00%	0.00%	0.00%	4.76%	4.76%	508
6	0.04%	0.00%	0.22%	1.32%	13.11%	10.50%	0.00%	0.00%	0.00%	1.90%	3.17%	172
8	0.01%	0.00%	0.09%	0.09%	2.95%	2.74%	0.00%	0.00%	0.00%	0.00%	1.59%	40
10	0.00%	0.00%	0.00%	0.00%	0.33%	0.91%	0.00%	0.00%	0.00%	0.00%	1.59%	16
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	461,208
Volume												
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400

Sewer Bill Tabulation Data

Bill Tab - 2a

2018 Data

Sewer Accounts 2018	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total	
Meters												**Meters**
5/8	22,974	5,560	1,025	24	9	4	0	0	60	44	475,980	5/8
3/4	0	0	0	0	0	0			0	1	72	3/4
1	4	23	256	24	9	0			17	2	8,708	1
1 1/4	0	0	0	0	0	0			0	0	-	1 1/4
1 1/2	1	91	126	9	10	0			8	0	2,409	1 1/2
2	0	27	217	50	32	0			12	7	2,976	2
3	0	38	208	79	64	0			1	2	1,345	3
4	0	24	265	69	64	0			5	3	938	4
6	0	13	28	40	23	0			2	2	280	6
8	0	5	2	9	6	0			0	1	63	8
10	0	0	0	1	2	0			0	1	20	10
12	0	0	0	0	0	0			0	0	-	12
14	0	0	0	0	0	0			0	0	-	14
Total	22,979	5,781	2,127	305	219	4	0	0	105	63	492,791	**Total**
Volume												**Volume**
All Usage	100	100	100	100	100	100	100	100	100	100	1,400	All Usage
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
Total	100	100	100	100	100	100	100	100	100	100	1,400	**Total**

Sewer Bill Tabulation Data

Bill Tab - 2b

2018 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Sewer Accounts					**Fiscal Year:**	2018			
Meters	92.00%	7.74%	0.22%	0.04%					
5/8	98.41%	78.82%	50.44%	40.74%	417,556	28,138	520	66	446,280
3/4	0.01%	0.02%	0.00%	0.00%	63	8	0	0	71
1	1.20%	8.40%	23.28%	17.90%	5,105	2,999	240	29	8,373
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.19%	3.60%	7.76%	8.64%	785	1,285	80	14	2,164
2	0.14%	5.28%	11.15%	14.81%	606	1,886	115	24	2,631
3	0.03%	2.07%	5.33%	9.88%	142	740	55	16	953
4	0.01%	1.25%	1.26%	4.32%	43	445	13	7	508
6	0.00%	0.41%	0.78%	3.09%	11	148	8	5	172
8	0.00%	0.10%	0.00%	0.62%	3	36	0	1	40
10	0.00%	0.04%	0.00%	0.00%	1	15	0	0	16
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	424,315	35,700	1,031	162	461,208
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2017 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	General Service Fiscal Year:
Meters												
5/8	97.03%	99.98%	96.57%	48.45%	9.28%	4.31%	100.00%	100.00%	100.00%	62.22%	68.85%	439,252
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.64%	78
1	1.61%	0.01%	0.38%	12.52%	7.89%	4.31%	0.00%	0.00%	0.00%	10.00%	3.28%	7,280
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
1 1/2	0.45%	0.00%	1.10%	6.15%	3.48%	4.31%	0.00%	0.00%	0.00%	6.67%	0.00%	2,033
2	0.55%	0.00%	0.59%	10.24%	15.08%	15.09%	0.00%	0.00%	0.00%	12.22%	11.48%	2,505
3	0.20%	0.00%	0.66%	9.29%	24.83%	28.88%	0.00%	0.00%	0.00%	1.11%	3.28%	897
4	0.10%	0.00%	0.40%	11.88%	25.99%	29.31%	0.00%	0.00%	0.00%	5.56%	4.92%	434
6	0.04%	0.00%	0.21%	1.33%	11.37%	9.91%	0.00%	0.00%	0.00%	2.22%	1.64%	159
8	0.01%	0.00%	0.10%	0.13%	1.86%	2.59%	0.00%	0.00%	0.00%	0.00%	3.28%	37
10	0.00%	0.00%	0.00%	0.00%	0.23%	1.29%	0.00%	0.00%	0.00%	0.00%	1.64%	16
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	452,691
Volume												
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	400

Sewer Bill Tabulation Data

Bill Tab - 2a

2017 Data

Sewer Accounts	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total	
	2017											
Meters												**Meters**
5/8	22,347	5,597	1,126	40	10	4	0	0	56	42	468,474	5/8
3/4	0	0	0	0	0	0			0	1	79	3/4
1	3	22	291	34	10	0			9	2	7,651	1
1 1/4	0	0	0	0	0	0			0	0	-	1 1/4
1 1/2	1	64	143	15	10	0			6	0	2,272	1 1/2
2	0	34	238	65	35	0			11	7	2,895	2
3	0	38	216	107	67	0			1	2	1,328	3
4	0	23	276	112	68	0			5	3	921	4
6	0	12	31	49	23	0			2	1	277	6
8	0	6	3	8	6	0			0	2	62	8
10	0	0	0	1	3	0			0	1	21	10
12	0	0	0	0	0	0			0	0	-	12
14	0	0	0	0	0	0			0	0	-	14
Total	22,351	5,796	2,324	431	232	4	0	0	90	61	483,980	**Total**
Volume												**Volume**
All Usage	100	100	100	100	100	100	100	100	100	100	1,400	All Usage
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
xxxxxx	0	0	0	0	0	0	0	0	0	0	-	xxxxxx
Total	100	100	100	100	100	100	100	100	100	100	1,400	**Total**

Sewer Bill Tabulation Data

Bill Tab - 2b

2017 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
Sewer Accounts					**Fiscal Year:**	2017			
Meters	91.97%	7.76%	0.23%	0.03%					
5/8	98.63%	79.73%	50.92%	38.16%	410,644	28,026	524	58	439,252
3/4	0.02%	0.03%	0.00%	0.00%	67	11	0	0	78
1	1.00%	8.11%	23.42%	19.74%	4,157	2,852	241	30	7,280
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.17%	3.48%	7.68%	8.55%	719	1,222	79	13	2,033
2	0.14%	5.12%	10.79%	15.79%	572	1,798	111	24	2,505
3	0.03%	1.95%	5.15%	9.87%	144	685	53	15	897
4	0.01%	1.06%	1.26%	3.95%	43	372	13	6	434
6	0.00%	0.38%	0.78%	3.29%	11	135	8	5	159
8	0.00%	0.09%	0.00%	0.66%	3	33	0	1	37
10	0.00%	0.05%	0.00%	0.00%	0	16	0	0	16
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	416,360	35,150	1,029	152	452,691
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

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OTHER REVENUE

Index	Description	Table
Other Revenue	**Other Revenue Worksheet**	
Other Revenue - 1	Water System Other Revenue	TABLE W-1
Other Revenue - 2	Sewer System Other Revenue	TABLE WW-1C
Other Revenue - 3	Combined System Other Revenue	

Description	Historical					Study Period						
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water System Other Revenue												**Other Revenue - 1**
Penalties - Percentage of Billings	1.40%	1.39%	1.54%	1.53%	1.52%	1.52%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Penalties	3,296	3,414	3,770	3,969	3,953	4,073	3,996	3,945	3,908	3,871	3,834	3,797
Misc City Revenues	784	703	840	570	667	1,449	1,720	1,720	1,720	1,720	1,720	1,720
Other	3,881	5,611	5,010	4,911	4,697	5,479	5,450	5,650	5,650	5,650	5,650	5,650
State & Federal Grants	1,299	1,083	744	1,408	569	698	1,000	1,000	1,000	1,000	1,000	1,000
Permits Issued by L&I (L&I)	1,673	1,920	1,898	2,314	2,760	3,246	2,320	2,320	2,320	2,320	2,320	2,320
Miscellaneous (Procurement)	198	164	179	182	228	206	210	210	210	210	210	210
City & UESF Grants	(1,467)	(1,581)	(1,592)	-	-	-	132	132	132	132	132	132
Affordability Program Discount Adjustment	-	-	-	-	(1,317)	-	-	-	-	-	-	-
Release from Debt Service Reserve	-	-	-	-	-	-	6,107	-	-	-	-	-
Total	9,664	11,314	10,849	13,354	11,557	15,152	20,935	14,977	14,940	14,903	14,866	14,829

Notes: See Assumptions-3

Description	Historical					Study Period						
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sewer System Other Revenue												**Other Revenue - 2**
Penalties - Percentage of Billings	1.40%	1.39%	1.54%	1.53%	1.54%	1.52%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Penalties	4,914	5,072	5,704	6,087	6,115	6,151	6,134	6,120	6,078	6,030	5,982	5,935
Misc City Revenues	1,568	1,406	1,680	1,140	1,333	-	-	-	-	-	-	-
Other	3,881	5,612	5,010	4,911	4,698	5,479	5,450	5,650	5,650	5,650	5,650	5,650
State & Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-
Permits Issued by L&I (L&I)	1,673	1,920	1,897	2,315	2,760	3,246	2,320	2,320	2,320	2,320	2,320	2,320
Miscellaneous (Procurement)	198	163	179	183	227	206	210	210	210	210	210	210
City & UESF Grants	(2,187)	(2,349)	(2,408)	-	-	-	168	168	168	168	168	168
Affordability Program Discount Adjustment	-	-	-	-	(1,610)	-	-	-	-	-	-	-
Release from Debt Service Reserve	-	-	-	-	-	-	12,439	-	-	-	-	-
Total	10,047	11,824	12,062	14,635	13,523	15,083	26,721	14,468	14,426	14,378	14,330	14,283

Notes: See Assumptions-3

Description		Historical					Study Period						
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Combined System Other Revenue													**Other Revenue - 3**
Penalties - Percentage of Billings		1.31%	1.37%	1.45%	1.49%	1.50%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%
Penalties		8,210	8,486	9,474	10,056	10,068	10,224	10,131	10,065	9,986	9,901	9,816	9,733
Misc City Revenues		2,352	2,109	2,520	1,710	2,000	1,449	1,720	1,720	1,720	1,720	1,720	1,720
Other		7,762	11,223	10,020	9,822	9,395	10,958	10,900	11,300	11,300	11,300	11,300	11,300
State & Federal Grants	leave	1,299	1,083	744	1,408	569	698	1,000	1,000	1,000	1,000	1,000	1,000
Permits Issued by L&I (L&I)	leave	3,346	3,840	3,795	4,629	5,520	6,493	4,640	4,640	4,640	4,640	4,640	4,640
Miscellaneous (Employee Benefit + Procurement)		396	327	358	365	455	413	420	420	420	420	420	420
City & UESF Grants		(3,654)	(3,930)	(4,000)	-	-	-	300	300	300	300	300	300
Affordability Program Discount Adjustment		-	-	-	-	(2,927)	-	-	-	-	-	-	-
Release from Debt Service Reserve		0	0	0	11,000	19,000	-	18,546	-	-	-	-	-
Total		19,711	23,138	22,911	38,989	44,081	30,235	47,657	29,445	29,366	29,281	29,196	29,113

Notes: See Assumptions-3

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DIRECT O&M

Index	Description	Table
Direct O&M	**Direct Water Department O&M Worksheet**	
Direct O&M - 1	PWD Direct O&M	
Direct O&M - 2	PWD O&M Adjustments	
Direct O&M - 3	PWD Adjusted O&M	TABLE C-6
Direct O&M - 4	Water System O&M	TABLE W-2
Direct O&M - 5	Wastewater System O&M	TABLE WW-2
Direct O&M - 6	Liquidated Encumbrances	TABLE C-6, TABLE W-2, and TABLE W-2
Direct O&M - 7	Detailed Allocation Finance & Admin	
Direct O&M - 8	Detailed Allocation of Operations Class 100	
Direct O&M - 9A	Detailed Allocation of Operations Power	
Direct O&M - 9B	Detailed Allocation of Operations Gas	
Direct O&M - 10	Detailed Allocation of Operations Class 200 Excl. Power and Gas	
Direct O&M - 11	Detailed Allocation of Operations Chemicals	
Direct O&M - 12	Detailed Allocation of Operations Class 300 Excl. Chemicals	
Direct O&M - 13	Detailed Allocation of Operations Class 400	
Direct O&M - 14	PWD Projected Direct O&M Budget	

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
PWD Direct O&M														**Direct O&M - 1**
Human Resources and Administration														
100	Salaries & Wages	Labor	$ 7,650,763	$ 8,502,816	$ 8,190,963	$ 7,948,131	$ 8,707,658	$ 9,009,476	$ 8,876,855	$ 9,134,284	$ 9,399,178	$ 9,671,754	$ 9,952,235	$ 10,240,850
200	Services	Other 200	3,277,947	4,562,319	3,406,310	3,710,260	3,228,503	2,997,589	3,057,736	3,184,632	3,316,794	3,454,441	3,597,800	3,747,109
300	Materials and Supplies	Other 300	632,835	725,233	660,930	664,311	859,256	899,390	862,271	887,277	913,008	939,485	966,730	994,766
400	Equipment	Other 400	140,816	413,078	188,501	783,911	475,462	214,297	377,198	384,742	392,437	400,286	408,291	416,457
500	Indemnities	Constant	-	-	-	-	-	-	0	0	0	0	0	0
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 11,702,361	$ 14,203,446	$ 12,446,704	$ 13,106,613	$ 13,270,879	$ 13,120,752	$ 13,174,060	$ 13,590,935	$ 14,021,417	$ 14,465,966	$ 14,925,057	$ 15,399,182
Finance														
100	Salaries & Wages	Labor	$ 1,849,144	$ 2,170,853	$ 2,273,794	$ 2,725,589	$ 3,012,527	$ 3,193,307	$ 2,862,364	$ 2,945,373	$ 3,030,789	$ 3,118,682	$ 3,209,123	$ 3,302,188
200	Services	Other 200	4,366,100	4,811,153	1,961,689	8,384,056	7,882,538	7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
2xx	SMIP/GARP	Constant	5,020,143	11,598,134	15,000,000	15,000,000	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies	Other 300	124,596	23,023	16,054	60,298	52,064	46,807	41,680	42,889	44,133	45,413	46,730	48,085
400	Equipment	Other 400	521,252	-	-	-	18,309	26,798	32,219	32,864	33,521	34,191	34,875	35,573
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	7,714,419	6,244,621	8,100,186	12,097,064	7,319,325	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Subtotal Finance			$ 19,595,654	$ 24,847,784	$ 27,351,723	$ 38,267,007	$ 45,184,763	$ 43,647,930	$ 42,835,038	$ 43,288,404	$ 43,757,270	$ 44,242,228	$ 44,743,893	$ 45,262,907
Construction and Engineering														
100	Salaries & Wages	Labor	$ 1,043,846	$ 1,199,514	$ 1,075,392	$ 1,187,885	$ 1,513,130	$ 2,225,368	$ 2,953,464	$ 3,039,114	$ 3,127,249	$ 3,217,939	$ 3,311,259	$ 3,407,286
200	Services	Other 200	155,719	297,188	237,504	346,543	799,991	1,141,400	1,890,313	1,968,761	2,050,465	2,135,559	2,224,185	2,316,489
300	Materials and Supplies	Other 300	105,252	102,067	54,541	46,356	73,576	63,643	47,802	49,188	50,615	52,083	53,593	55,147
400	Equipment	Other 400	27,449	14,614	3,873	21,649	6,486	15,632	21,271	21,696	22,130	22,573	23,024	23,485
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 1,332,266	$ 1,613,383	$ 1,371,310	$ 1,602,433	$ 2,393,183	$ 3,446,043	$ 4,912,850	$ 5,078,761	$ 5,250,459	$ 5,428,154	$ 5,612,062	$ 5,802,407
Operations														
100	Salaries & Wages	Labor	$ 65,710,338	$ 71,789,745	$ 71,318,230	$ 74,937,545	$ 79,570,651	$ 80,747,114	$ 84,963,683	$ 87,427,630	$ 89,963,031	$ 92,571,959	$ 95,256,546	$ 98,018,986
200	Services	Other 200	51,604,806	51,086,665	54,441,610	65,234,449	67,977,576	76,327,780	82,939,310	86,381,291	89,966,115	93,699,708	97,588,246	101,638,158
220	Power	Energy	21,440,579	20,427,534	20,071,556	18,252,847	15,002,114	13,854,363	13,914,269	14,331,697	14,331,697	14,403,356	14,547,389	14,692,863
221	Gas	Gas	3,561,029	4,190,988	4,013,404	3,176,528	3,855,757	4,652,000	3,987,411	4,107,034	4,107,034	4,127,569	4,168,845	4,210,533
300	Materials and Supplies	Other 300	14,625,464	14,703,881	15,057,143	17,375,608	16,189,484	16,573,700	17,352,888	17,856,121	18,373,949	18,906,793	19,455,090	20,019,288
307	Chemicals	Chemicals	24,446,114	22,324,969	21,075,520	18,728,508	21,771,176	22,115,310	22,265,999	23,379,299	24,548,264	25,775,677	27,064,461	28,417,684
400	Equipment	Other 400	1,172,215	1,219,613	1,486,260	964,973	1,845,043	4,195,679	4,346,955	4,433,894	4,522,572	4,613,024	4,705,284	4,799,390
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 182,560,545	$ 185,743,395	$ 187,463,723	$ 198,670,458	$ 206,211,801	$ 218,465,946	$ 229,770,515	$ 237,916,966	$ 245,812,662	$ 254,098,086	$ 262,785,861	$ 271,796,902
Planning & Environmental Services														
100	Salaries & Wages	Labor	$ 11,080,774	$ 12,135,854	$ 12,946,501	$ 13,465,491	$ 13,558,767	$ 14,956,269	$ 16,308,141	$ 16,781,077	$ 17,267,728	$ 17,768,492	$ 18,283,779	$ 18,814,008
200	Services	Other 200	17,411,374	22,388,075	22,364,997	23,055,720	16,333,568	19,507,659	20,269,255	21,110,429	21,986,512	22,898,952	23,849,258	24,839,003
300	Materials and Supplies	Other 300	1,015,983	989,788	1,101,182	1,448,059	1,200,234	1,680,851	1,369,633	1,409,353	1,450,224	1,492,280	1,535,556	1,580,088
400	Equipment	Other 400	556,793	187,954	285,682	348,946	746,607	385,416	612,918	625,176	637,680	650,433	663,442	676,711
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 30,064,924	$ 35,701,671	$ 36,698,362	$ 38,318,216	$ 31,839,176	$ 36,530,195	$ 38,559,946	$ 39,926,034	$ 41,342,143	$ 42,810,158	$ 44,332,035	$ 45,909,809

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages	Labor	$ 2,260,265	$ 2,644,067	$ 2,354,115	$ 2,420,693	$ 4,390,923	$ 4,922,385	$ 4,818,574	$ 4,958,313	$ 5,102,104	$ 5,250,065	$ 5,402,317	$ 5,558,984
200	Services	Other 200	7,244,654	8,001,034	8,040,229	7,167,949	8,700,798	8,327,583	8,495,104	8,847,650	9,214,828	9,597,243	9,995,529	10,410,343
300	Materials and Supplies	Other 300	168,011	156,358	279,935	264,012	401,159	432,412	424,716	437,033	449,707	462,748	476,168	489,977
400	Equipment	Other 400	1,134	13,757	27,829	681	2,966	1,562	2,300	2,346	2,393	2,441	2,490	2,539
500	Indemnities	Constant	-	-	-	400,000	500,000	500,000	475,966	475,966	475,966	475,966	475,966	475,966
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 9,674,064	$ 10,815,216	$ 10,702,108	$ 10,253,335	$ 13,995,846	$ 14,183,942	$ 14,216,660	$ 14,721,308	$ 15,244,998	$ 15,788,463	$ 16,352,469	$ 16,937,810
PWD Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 89,595,130	$ 98,442,849	$ 98,158,995	$ 102,685,334	$ 110,753,656	$ 115,053,919	$ 120,783,081	$ 124,285,791	$ 127,890,079	$ 131,598,891	$ 135,415,259	$ 139,342,301
200	Services		84,060,600	91,146,434	90,452,339	107,898,977	104,922,974	115,630,277	123,864,491	129,004,868	134,358,570	139,934,450	145,741,730	151,790,012
220	Power		21,440,579	20,427,534	20,071,556	18,252,847	15,002,114	13,854,363	13,914,269	14,331,697	14,331,697	14,403,356	14,547,389	14,692,863
221	Gas		3,561,029	4,190,988	4,013,404	3,176,528	3,855,757	4,652,000	3,987,411	4,107,034	4,107,034	4,127,569	4,168,845	4,210,533
2xx	SMIP/GARP		5,020,143	11,598,134	15,000,000	15,000,000	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		16,672,141	16,700,350	17,169,785	19,858,644	18,775,773	19,696,803	20,098,991	20,681,861	21,281,635	21,898,803	22,533,868	23,187,350
307	Chemicals		24,446,114	22,324,969	21,075,520	18,728,508	21,771,176	22,115,310	22,265,999	23,379,299	24,548,264	25,775,677	27,064,461	28,417,684
400	Equipment		2,419,659	1,849,016	1,992,145	2,120,160	3,094,873	4,839,384	5,392,861	5,500,718	5,610,733	5,722,948	5,837,406	5,954,155
500	Indemnities		-	-	-	400,000	500,000	500,000	475,966	475,966	475,966	475,966	475,966	475,966
800	Transfers		7,714,419	6,244,621	8,100,186	12,097,064	7,319,325	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Total PWD Operating and Maintenance Expenses Summary			**$ 254,929,814**	**$ 272,924,895**	**$ 276,033,930**	**$ 300,218,062**	**$ 312,895,648**	**$ 329,394,808**	**$ 343,469,070**	**$ 354,522,408**	**$ 365,428,948**	**$ 376,833,055**	**$ 388,751,378**	**$ 401,109,016**
						98.4%	**100.1%**	**103.2%**	**92.9%**					
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
						102.2%	**104.0%**	**103.3%**	**92.1%**					
PWD Operating and Maintenance Expenses Summary - Annual Increase														
100	Salaries & Wages		5.09%	9.88%	-0.29%	4.61%	7.86%	3.88%	4.98%	2.90%	2.90%	2.90%	2.90%	2.90%
200	Services		1.05%	8.43%	-0.76%	19.29%	-2.76%	10.20%	7.12%	4.15%	4.15%	4.15%	4.15%	4.15%
220	Power		-12.04%	-4.72%	-1.74%	-9.06%	-17.81%	-7.65%	0.43%	3.00%	0.00%	0.50%	1.00%	1.00%
221	Gas		0.00%	17.69%	-4.24%	-20.85%	21.38%	20.65%	-14.29%	3.00%	0.00%	0.50%	1.00%	1.00%
2xx	SMIP/GARP		1.92%	131.03%	29.33%	0.00%	79.33%	-7.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies		-10.91%	0.17%	2.81%	15.66%	-5.45%	4.91%	2.04%	2.90%	2.90%	2.90%	2.90%	2.90%
307	Chemicals		8.16%	-8.68%	-5.60%	-11.14%	16.25%	1.58%	0.68%	5.00%	5.00%	5.00%	5.00%	5.00%
400	Equipment		34.07%	-23.58%	7.74%	6.43%	45.97%	56.37%	11.44%	2.00%	2.00%	2.00%	2.00%	2.00%
500	Indemnities		0.00%				25.00%	0.00%	-4.81%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		-28.52%	-19.05%	29.71%	49.34%	-39.50%	10.02%	-4.55%	0.90%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase			-0.07%	7.06%	1.14%	8.76%	4.22%	5.27%	4.27%	3.22%	3.08%	3.12%	3.16%	3.18%
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase														
100	Salaries & Wages				4.67%	2.13%	6.22%	5.85%	4.43%	3.93%	2.90%	2.90%	2.90%	2.90%
200	Services				3.73%	8.80%	7.70%	3.52%	8.65%	5.63%	4.15%	4.15%	4.15%	4.15%
220	Power				-3.25%	-5.47%	-13.55%	-12.88%	-3.69%	1.71%	1.49%	0.25%	0.75%	1.00%
221	Gas				6.16%	-12.94%	-1.98%	21.02%	1.69%	-6.04%	1.49%	0.25%	0.75%	1.00%
2xx	SMIP/GARP				72.86%	13.72%	33.92%	29.10%	-3.60%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies				1.48%	9.05%	4.57%	-0.41%	3.46%	2.47%	2.90%	2.90%	2.90%	2.90%
307	Chemicals				-7.15%	-8.41%	1.64%	8.67%	1.13%	2.82%	5.00%	5.00%	5.00%	5.00%
400	Equipment				-9.26%	7.08%	24.64%	51.08%	32.00%	6.61%	2.00%	2.00%	2.00%	2.00%
500	Indemnities				0.00%	0.00%	0.00%	11.80%	-2.43%	-2.43%	0.00%	0.00%	0.00%	0.00%
800	Transfers				2.47%	39.18%	-4.94%	-18.41%	2.47%	-1.87%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					4.06%	4.88%	6.47%	4.75%	4.77%	3.74%	3.15%	3.10%	3.14%	3.17%

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
PWD O&M Adjustments														**Direct O&M - 2**
Human Resources and Administration														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Human Resources and Administration								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
2xx	SMIP/GARP							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Finance								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering														
100	Salaries & Wages							$ -	$ -	$ 1,054,000	$ 2,858,000	$ 4,410,000	$ 6,050,000	$ 7,780,000
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Construction and Engineering								$ -	$ -	$ 1,054,000	$ 2,858,000	$ 4,410,000	$ 6,050,000	$ 7,780,000
Operations														
100	Salaries & Wages							$ -	$ 3,000,000	$ 3,513,000	$ 4,042,000	$ 4,159,000	$ 4,280,000	$ 4,405,000
200	Services							-	-	-	-	-	-	-
220	Power							-	-	-	-	-	-	-
221	Gas							800,000	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Operations								$ 800,000	$ 3,000,000	$ 3,513,000	$ 4,042,000	$ 4,159,000	$ 4,280,000	$ 4,405,000
Planning & Environmental Services														
100	Salaries & Wages							$ -	$ -	$ 744,000	$ 766,000	$ 1,182,000	$ 1,622,000	$ 2,087,500
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ -	$ -	$ 744,000	$ 766,000	$ 1,182,000	$ 1,622,000	$ 2,087,500

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Public Affairs								$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD Operating and Maintenance Expenses Adjustments Summary														
100	Salaries & Wages							$ -	$ 3,000,000	$ 5,311,000	$ 7,666,000	$ 9,751,000	$ 11,952,000	$ 14,272,500
200	Services							-	-	-	-	-	-	-
220	Power							-	-	-	-	-	-	-
221	Gas							800,000	-	-	-	-	-	-
2xx	SMIP/GARP							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Total PWD Operating and Maintenance Expenses Adjustments Summary								**$ 800,000**	**$ 3,000,000**	**$ 5,311,000**	**$ 7,666,000**	**$ 9,751,000**	**$ 11,952,000**	**$ 14,272,500**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
PWD Adjusted O&M														**Direct O&M - 3**
Human Resources and Administration														
100	Salaries & Wages		$ 7,650,763	$ 8,502,816	$ 8,190,963	$ 7,948,131	$ 8,707,658	$ 9,009,476	$ 8,876,855	$ 9,134,284	$ 9,399,178	$ 9,671,754	$ 9,952,235	$ 10,240,850
200	Services		3,277,947	4,562,319	3,406,310	3,710,260	3,228,503	2,997,589	3,057,736	3,184,632	3,316,794	3,454,441	3,597,800	3,747,109
300	Materials and Supplies		632,835	725,233	660,930	664,311	859,256	899,390	862,271	887,277	913,008	939,485	966,730	994,766
400	Equipment		140,816	413,078	188,501	783,911	475,462	214,297	377,198	384,742	392,437	400,286	408,291	416,457
500	Indemnities		-	-	-	-	-	-	0	0	0	0	0	0
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 11,702,361	$ 14,203,446	$ 12,446,704	$ 13,106,613	$ 13,270,879	$ 13,120,752	$ 13,174,060	$ 13,590,935	$ 14,021,417	$ 14,465,966	$ 14,925,057	$ 15,399,182
Finance														
100	Salaries & Wages		$ 1,849,144	$ 2,170,853	$ 2,273,794	$ 2,725,589	$ 3,012,527	$ 3,193,307	$ 2,862,364	$ 2,945,373	$ 3,030,789	$ 3,118,682	$ 3,209,123	$ 3,302,188
200	Services		4,366,100	4,811,153	1,961,689	8,384,056	7,882,538	7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
2xx	SMIP/GARP		5,020,143	11,598,134	15,000,000	15,000,000	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		124,596	23,023	16,054	60,298	52,064	46,807	41,680	42,889	44,133	45,413	46,730	48,085
400	Equipment		521,252	-	-	-	18,309	26,798	32,219	32,864	33,521	34,191	34,875	35,573
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		7,714,419	6,244,621	8,100,186	12,097,064	7,319,325	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Subtotal Finance			$ 19,595,654	$ 24,847,784	$ 27,351,723	$ 38,267,007	$ 45,184,763	$ 43,647,930	$ 42,835,038	$ 43,288,404	$ 43,757,270	$ 44,242,228	$ 44,743,893	$ 45,262,907
Construction and Engineering														
100	Salaries & Wages		$ 1,043,846	$ 1,199,514	$ 1,075,392	$ 1,187,885	$ 1,513,130	$ 2,225,368	$ 2,953,464	$ 4,093,114	$ 5,985,249	$ 7,627,939	$ 9,361,259	$ 11,187,286
200	Services		155,719	297,188	237,504	346,543	799,991	1,141,400	1,890,313	1,968,761	2,050,465	2,135,559	2,224,185	2,316,489
300	Materials and Supplies		105,252	102,067	54,541	46,356	73,576	63,643	47,802	49,188	50,615	52,083	53,593	55,147
400	Equipment		27,449	14,614	3,873	21,649	6,486	15,632	21,271	21,696	22,130	22,573	23,024	23,485
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 1,332,266	$ 1,613,383	$ 1,371,310	$ 1,602,433	$ 2,393,183	$ 3,446,043	$ 4,912,850	$ 6,132,761	$ 8,108,459	$ 9,838,154	$ 11,662,062	$ 13,582,407
Operations														
100	Salaries & Wages		$ 65,710,338	$ 71,789,745	$ 71,318,230	$ 74,937,545	$ 79,570,651	$ 80,747,114	$ 87,963,683	$ 90,940,630	$ 94,005,031	$ 96,730,959	$ 99,536,546	$ 102,423,986
200	Services		51,604,806	51,086,665	54,441,610	65,234,449	67,977,576	76,327,780	82,939,310	86,381,291	89,966,115	93,699,708	97,588,246	101,638,158
220	Power		21,440,579	20,427,534	20,071,556	18,252,847	15,002,114	13,854,363	13,914,269	14,331,697	14,331,697	14,403,356	14,547,389	14,692,863
221	Gas		3,561,029	4,190,988	4,013,404	3,176,528	3,855,757	5,452,000	3,987,411	4,107,034	4,107,034	4,127,569	4,168,845	4,210,533
300	Materials and Supplies		14,625,464	14,703,881	15,057,143	17,375,608	16,189,484	16,573,700	17,352,888	17,856,121	18,373,949	18,906,793	19,455,090	20,019,288
307	Chemicals		24,446,114	22,324,969	21,075,520	18,728,508	21,771,176	22,115,310	22,265,999	23,379,299	24,548,264	25,775,677	27,064,461	28,417,684
400	Equipment		1,172,215	1,219,613	1,486,260	964,973	1,845,043	4,195,679	4,346,955	4,433,894	4,522,572	4,613,024	4,705,284	4,799,390
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 182,560,545	$ 185,743,395	$ 187,463,723	$ 198,670,458	$ 206,211,801	$ 219,265,946	$ 232,770,515	$ 241,429,966	$ 249,854,662	$ 258,257,086	$ 267,065,861	$ 276,201,902
Planning & Environmental Services														
100	Salaries & Wages		$ 11,080,774	$ 12,135,854	$ 12,946,501	$ 13,465,491	$ 13,558,767	$ 14,956,269	$ 16,308,141	$ 17,525,077	$ 18,033,728	$ 18,950,492	$ 19,905,779	$ 20,901,508
200	Services		17,411,374	22,388,075	22,364,997	23,055,720	16,333,568	19,507,659	20,269,255	21,110,429	21,986,512	22,898,952	23,849,258	24,839,003
300	Materials and Supplies		1,015,983	989,788	1,101,182	1,448,059	1,200,234	1,680,851	1,369,633	1,409,353	1,450,224	1,492,280	1,535,556	1,580,088
400	Equipment		556,793	187,954	285,682	348,946	746,607	385,416	612,918	625,176	637,680	650,433	663,442	676,711
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 30,064,924	$ 35,701,671	$ 36,698,362	$ 38,318,216	$ 31,839,176	$ 36,530,195	$ 38,559,946	$ 40,670,034	$ 42,108,143	$ 43,992,158	$ 45,954,035	$ 47,997,309

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages		$ 2,260,265	$ 2,644,067	$ 2,354,115	$ 2,420,693	$ 4,390,923	$ 4,922,385	$ 4,818,574	$ 4,958,313	$ 5,102,104	$ 5,250,065	$ 5,402,317	$ 5,558,984
200	Services		7,244,654	8,001,034	8,040,229	7,167,949	8,700,798	8,327,583	8,495,104	8,847,650	9,214,828	9,597,243	9,995,529	10,410,343
300	Materials and Supplies		168,011	156,358	279,935	264,012	401,159	432,412	424,716	437,033	449,707	462,748	476,168	489,977
400	Equipment		1,134	13,757	27,829	681	2,966	1,562	2,300	2,346	2,393	2,441	2,490	2,539
500	Indemnities		-	-	-	400,000	500,000	500,000	475,966	475,966	475,966	475,966	475,966	475,966
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 9,674,064	$ 10,815,216	$ 10,702,108	$ 10,253,335	$ 13,995,846	$ 14,183,942	$ 14,216,660	$ 14,721,308	$ 15,244,998	$ 15,788,463	$ 16,352,469	$ 16,937,810
PWD Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 89,595,130	$ 98,442,849	$ 98,158,995	$ 102,685,334	$ 110,753,656	$ 115,053,919	$ 123,783,081	$ 129,596,791	$ 135,556,079	$ 141,349,891	$ 147,367,259	$ 153,614,801
200	Services		84,060,600	91,146,434	90,452,339	107,898,977	104,922,974	115,630,277	123,864,491	129,004,868	134,358,570	139,934,450	145,741,730	151,790,012
220	Power		21,440,579	20,427,534	20,071,556	18,252,847	15,002,114	13,854,363	13,914,269	14,331,697	14,331,697	14,403,356	14,547,389	14,692,863
221	Gas		3,561,029	4,190,988	4,013,404	3,176,528	3,855,757	5,452,000	3,987,411	4,107,034	4,107,034	4,127,569	4,168,845	4,210,533
2xx	SMIP/GARP		5,020,143	11,598,134	15,000,000	15,000,000	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		16,672,141	16,700,350	17,169,785	19,858,644	18,775,773	19,696,803	20,098,991	20,681,861	21,281,635	21,898,803	22,533,868	23,187,350
307	Chemicals		24,446,114	22,324,969	21,075,520	18,728,508	21,771,176	22,115,310	22,265,999	23,379,299	24,548,264	25,775,677	27,064,461	28,417,684
400	Equipment		2,419,659	1,849,016	1,992,145	2,120,160	3,094,873	4,839,384	5,392,861	5,500,718	5,610,733	5,722,948	5,837,406	5,954,155
500	Indemnities		-	-	-	400,000	500,000	500,000	475,966	475,966	475,966	475,966	475,966	475,966
800	Transfers		7,714,419	6,244,621	8,100,186	12,097,064	7,319,325	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Total PWD Operating and Maintenance Expenses Summary			**$ 254,929,814**	**$ 272,924,895**	**$ 276,033,930**	**$ 300,218,062**	**$ 312,895,648**	**$ 330,194,808**	**$ 346,469,070**	**$ 359,833,408**	**$ 373,094,948**	**$ 386,584,055**	**$ 400,703,378**	**$ 415,381,516**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
PWD Operating and Maintenance Expenses Summary - Annual Increase														
100	Salaries & Wages			9.88%	-0.29%	4.61%	7.86%	3.88%	7.59%	4.70%	4.60%	4.27%	4.26%	4.24%
200	Services			8.43%	-0.76%	19.29%	-2.76%	10.20%	7.12%	4.15%	4.15%	4.15%	4.15%	4.15%
220	Power			-4.72%	-1.74%	-9.06%	-17.81%	-7.65%	0.43%	3.00%	0.00%	0.50%	1.00%	1.00%
221	Gas			17.69%	-4.24%	-20.85%	21.38%	41.40%	-26.86%	3.00%	0.00%	0.50%	1.00%	1.00%
2xx	SMIP/GARP			131.03%	29.33%	0.00%	79.33%	-7.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies			0.17%	2.81%	15.66%	-5.45%	4.91%	2.04%	2.90%	2.90%	2.90%	2.90%	2.90%
307	Chemicals			-8.68%	-5.60%	-11.14%	16.25%	1.58%	0.68%	5.00%	5.00%	5.00%	5.00%	5.00%
400	Equipment			-23.58%	7.74%	6.43%	45.97%	56.37%	11.44%	2.00%	2.00%	2.00%	2.00%	2.00%
500	Indemnities						25.00%	0.00%	-4.81%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers			-19.05%	29.71%	49.34%	-39.50%	10.02%	-4.55%	0.90%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase				7.06%	1.14%	8.76%	4.22%	5.53%	4.93%	3.86%	3.69%	3.62%	3.65%	3.66%
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase														
100	Salaries & Wages				4.67%	2.13%	6.22%	5.85%	5.72%	6.13%	4.65%	4.44%	4.27%	4.25%
200	Services				3.73%	8.80%	7.70%	3.52%	8.65%	5.63%	4.15%	4.15%	4.15%	4.15%
220	Power				-3.25%	-5.47%	-13.55%	-12.88%	-3.69%	1.71%	1.49%	0.25%	0.75%	1.00%
221	Gas				6.16%	-12.94%	-1.98%	31.01%	1.69%	-13.21%	1.49%	0.25%	0.75%	1.00%
2xx	SMIP/GARP				72.86%	13.72%	33.92%	29.10%	-3.60%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies				1.48%	9.05%	4.57%	-0.41%	3.46%	2.47%	2.90%	2.90%	2.90%	2.90%
307	Chemicals				-7.15%	-8.41%	1.64%	8.67%	1.13%	2.82%	5.00%	5.00%	5.00%	5.00%
400	Equipment				-9.26%	7.08%	24.64%	51.08%	32.00%	6.61%	2.00%	2.00%	2.00%	2.00%
500	Indemnities								5.97%	-1.63%		-1.63%	0.00%	0.00%
800	Transfers				2.47%	39.18%	-4.94%	-18.41%	2.47%	-1.87%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					4.06%	4.88%	6.47%	4.87%	5.23%	4.39%	3.77%	3.65%	3.63%	3.66%

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water System O&M														**Direct O&M - 4**
Human Resources and Administration														
100	Salaries & Wages							$ 2,792,938	$ 2,751,825	$ 2,831,628	$ 2,913,745	$ 2,998,244	$ 3,085,193	$ 3,174,663
200	Services							929,253	947,898	987,236	1,028,206	1,070,877	1,115,318	1,161,604
300	Materials and Supplies							278,811	267,304	275,056	283,032	291,240	299,686	308,377
400	Equipment							66,432	116,931	119,270	121,655	124,089	126,570	129,102
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Human Resources and Administration								$ 4,067,434	$ 4,083,958	$ 4,213,190	$ 4,346,638	$ 4,484,450	$ 4,626,767	$ 4,773,746
Finance														
100	Salaries & Wages							$ 1,213,457	$ 1,087,698	$ 1,119,242	$ 1,151,700	$ 1,185,099	$ 1,219,467	$ 1,254,831
200	Services							2,784,741	2,740,854	2,854,600	2,973,066	3,096,448	3,224,950	3,358,786
2xx	SMIP & GARP							-	-	-	-	-	-	-
300	Materials and Supplies							17,787	15,838	16,298	16,770	17,257	17,757	18,272
400	Equipment							10,183	12,243	12,488	12,738	12,993	13,253	13,518
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							2,898,991	2,766,960	2,791,863	2,816,989	2,842,342	2,867,923	2,893,735
Subtotal Finance								$ 6,925,159	$ 6,623,593	$ 6,794,491	$ 6,971,263	$ 7,154,139	$ 7,343,350	$ 7,539,142
Construction and Engineering														
100	Salaries & Wages							$ 890,147	$ 1,181,386	$ 1,637,246	$ 2,394,099	$ 3,051,176	$ 3,744,504	$ 4,474,914
200	Services							456,560	756,125	787,505	820,186	854,224	889,674	926,596
300	Materials and Supplies							25,457	19,121	19,675	20,246	20,833	21,437	22,059
400	Equipment							6,253	8,508	8,679	8,852	9,029	9,210	9,394
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Construction and Engineering								$ 1,378,417	$ 1,965,140	$ 2,453,105	$ 3,243,383	$ 3,935,262	$ 4,664,825	$ 5,432,963
Operations														
100	Salaries & Wages							$ 34,372,176	$ 39,167,071	$ 40,302,916	$ 41,472,178	$ 42,674,738	$ 43,912,505	$ 45,186,411
200	Services							16,103,076	17,497,928	18,224,092	18,980,392	19,768,078	20,588,453	21,442,874
220	Power							7,273,540	7,304,991	7,524,141	7,524,141	7,561,761	7,637,379	7,713,753
221	Gas							836,882	612,068	630,430	630,430	633,582	639,918	646,317
300	Materials and Supplies							6,724,214	7,040,343	7,244,513	7,454,604	7,670,788	7,893,240	8,122,144
307	Chemicals							18,867,444	18,996,003	19,945,803	20,943,093	21,990,247	23,089,760	24,244,248
400	Equipment							2,006,194	2,078,528	2,120,098	2,162,500	2,205,750	2,249,865	2,294,862
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Operations								$ 86,183,526	$ 92,696,932	$ 95,991,993	$ 99,167,338	$ 102,504,944	$ 106,011,120	$ 109,650,609
Planning & Environmental Services														
100	Salaries & Wages							$ 3,736,741	$ 4,074,498	$ 4,378,543	$ 4,505,627	$ 4,734,675	$ 4,973,348	$ 5,222,126
200	Services							6,486,183	6,739,409	7,019,095	7,310,387	7,613,768	7,929,739	8,258,824
300	Materials and Supplies							582,593	474,723	488,490	502,657	517,234	532,233	547,668
400	Equipment							150,276	238,980	243,760	248,635	253,607	258,680	263,853
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ 10,955,793	$ 11,527,610	$ 12,129,888	$ 12,567,306	$ 13,119,284	$ 13,694,000	$ 14,292,471

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages							$ 2,461,193	$ 2,409,287	$ 2,479,157	$ 2,551,052	$ 2,625,033	$ 2,701,159	$ 2,779,492
200	Services							4,163,792	4,247,552	4,423,825	4,607,414	4,798,622	4,997,764	5,205,172
300	Materials and Supplies							216,206	212,358	218,516	224,853	231,374	238,084	244,988
400	Equipment							781	1,150	1,173	1,196	1,220	1,245	1,270
500	Indemnities							250,000	237,983	237,983	237,983	237,983	237,983	237,983
800	Transfers							-	-	-	-	-	-	-
Subtotal Public Affairs								$ 7,091,972	$ 7,108,330	$ 7,360,654	$ 7,622,498	$ 7,894,232	$ 8,176,235	$ 8,468,905
Water System Operating and Maintenance Expenses Summary														
100	Salaries & Wages							$ 45,466,652	$ 50,671,765	$ 52,748,732	$ 54,988,401	$ 57,268,965	$ 59,636,176	$ 62,092,437
200	Services							30,923,605	32,929,766	34,296,353	35,719,651	37,202,017	38,745,898	40,353,856
220	Power							7,273,540	7,304,991	7,524,141	7,524,141	7,561,761	7,637,379	7,713,753
221	Gas							836,882	612,068	630,430	630,430	633,582	639,918	646,317
2xx	SMIP/GARP							-	-	-	-	-	-	-
300	Materials and Supplies							7,845,068	8,029,687	8,262,548	8,502,162	8,748,726	9,002,437	9,263,508
307	Chemicals							18,867,444	18,996,003	19,945,803	20,943,093	21,990,247	23,089,760	24,244,248
400	Equipment							2,240,119	2,456,340	2,505,468	2,555,576	2,606,688	2,658,823	2,711,999
500	Indemnities							250,000	237,983	237,983	237,983	237,983	237,983	237,983
800	Transfers							2,898,991	2,766,960	2,791,863	2,816,989	2,842,342	2,867,923	2,893,735
Total Water System Operating and Maintenance Expenses Summary								**$ 116,602,301**	**$ 124,005,563**	**$ 128,943,321**	**$ 133,918,426**	**$ 139,092,311**	**$ 144,516,297**	**$ 150,157,836**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Wastewater System O&M														**Direct O&M - 5**
Human Resources and Administration														
100	Salaries & Wages							$ 6,216,538	$ 6,125,030	$ 6,302,656	$ 6,485,433	$ 6,673,510	$ 6,867,042	$ 7,066,187
200	Services							2,068,336	2,109,838	2,197,396	2,288,588	2,383,564	2,482,482	2,585,505
300	Materials and Supplies							620,579	594,967	612,221	629,976	648,245	667,044	686,389
400	Equipment							147,865	260,267	265,472	270,782	276,197	281,721	287,355
500	Indemnities							-	0	0	0	0	0	0
800	Transfers							0	0	0	0	0	0	0
Subtotal Human Resources and Administration								$ 9,053,318	$ 9,090,102	$ 9,377,745	$ 9,674,779	$ 9,981,516	$ 10,298,290	$ 10,625,436
Finance														
100	Salaries & Wages							$ 1,979,850	$ 1,774,666	$ 1,826,131	$ 1,879,089	$ 1,933,583	$ 1,989,656	$ 2,047,357
200	Services							4,543,525	4,471,920	4,657,504	4,850,791	5,052,099	5,261,761	5,480,124
2xx	SMIP & GARP							25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies							29,020	25,842	26,591	27,363	28,156	28,973	29,813
400	Equipment							16,615	19,976	20,376	20,783	21,198	21,622	22,055
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							5,153,761	4,919,040	4,963,311	5,007,982	5,053,053	5,098,531	5,144,417
Subtotal Finance								$ 36,722,771	$ 36,211,445	$ 36,493,913	$ 36,786,007	$ 37,088,089	$ 37,400,543	$ 37,723,765
Construction and Engineering														
100	Salaries & Wages							$ 1,335,221	$ 1,772,078	$ 2,455,868	$ 3,591,150	$ 4,576,763	$ 5,616,755	$ 6,712,372
200	Services							684,840	1,134,188	1,181,256	1,230,279	1,281,335	1,334,511	1,389,893
300	Materials and Supplies							38,186	28,681	29,513	30,369	31,250	32,156	33,088
400	Equipment							9,379	12,763	13,017	13,278	13,544	13,814	14,091
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Construction and Engineering								$ 2,067,626	$ 2,947,710	$ 3,679,656	$ 4,865,076	$ 5,902,892	$ 6,997,237	$ 8,149,444
Operations														
100	Salaries & Wages							$ 46,374,938	$ 48,796,612	$ 50,637,714	$ 52,532,853	$ 54,056,221	$ 55,624,041	$ 57,237,575
200	Services							60,224,704	65,441,382	68,157,199	70,985,723	73,931,630	76,999,793	80,195,284
220	Power							6,580,823	6,609,278	6,807,556	6,807,556	6,841,595	6,910,010	6,979,110
221	Gas							4,615,118	3,375,343	3,476,604	3,476,604	3,493,987	3,528,927	3,564,216
300	Materials and Supplies							9,849,486	10,312,545	10,611,608	10,919,345	11,236,005	11,561,850	11,897,144
307	Chemicals							3,247,866	3,269,996	3,433,496	3,605,171	3,785,430	3,974,701	4,173,436
400	Equipment							2,189,485	2,268,427	2,313,796	2,360,072	2,407,274	2,455,419	2,504,528
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Operations								$ 133,082,420	$ 140,073,583	$ 145,437,973	$ 150,687,324	$ 155,752,142	$ 161,054,741	$ 166,551,293
Planning & Environmental Services														
100	Salaries & Wages							$ 11,219,528	$ 12,233,643	$ 13,146,534	$ 13,528,101	$ 14,215,817	$ 14,932,431	$ 15,679,382
200	Services							13,021,476	13,529,846	14,091,334	14,676,125	15,285,184	15,919,519	16,580,179
300	Materials and Supplies							1,098,258	894,910	920,863	947,567	975,046	1,003,323	1,032,420
400	Equipment							235,140	373,938	381,416	389,045	396,826	404,762	412,858
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ 25,574,402	$ 27,032,336	$ 28,540,146	$ 29,540,837	$ 30,872,874	$ 32,260,035	$ 33,704,838

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages							$ 2,461,192	$ 2,409,287	$ 2,479,156	$ 2,551,052	$ 2,625,032	$ 2,701,158	$ 2,779,492
200	Services							4,163,791	4,247,552	4,423,825	4,607,414	4,798,621	4,997,765	5,205,171
300	Materials and Supplies							216,206	212,358	218,517	224,854	231,374	238,084	244,989
400	Equipment							781	1,150	1,173	1,197	1,221	1,245	1,269
500	Indemnities							250,000	237,983	237,983	237,983	237,983	237,983	237,983
800	Transfers							-	-	-	-	-	-	-
Subtotal Public Affairs								$ 7,091,970	$ 7,108,330	$ 7,360,654	$ 7,622,500	$ 7,894,231	$ 8,176,234	$ 8,468,905
Wastewater System Operating and Maintenance Expenses Summary														
100	Salaries & Wages							$ 69,587,267	$ 73,111,316	$ 76,848,059	$ 80,567,678	$ 84,080,926	$ 87,731,083	$ 91,522,364
200	Services							84,706,672	90,934,725	94,708,515	98,638,919	102,732,433	106,995,832	111,436,156
220	Power							6,580,823	6,609,278	6,807,556	6,807,556	6,841,595	6,910,010	6,979,110
221	Gas							4,615,118	3,375,343	3,476,604	3,476,604	3,493,987	3,528,927	3,564,216
2xx	SMIP/GARP							25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies							11,851,735	12,069,304	12,419,313	12,779,473	13,150,077	13,531,431	13,923,842
307	Chemicals							3,247,866	3,269,996	3,433,496	3,605,171	3,785,430	3,974,701	4,173,436
400	Equipment							2,599,265	2,936,521	2,995,250	3,055,157	3,116,260	3,178,583	3,242,156
500	Indemnities							250,000	237,983	237,983	237,983	237,983	237,983	237,983
800	Transfers							5,153,761	4,919,040	4,963,311	5,007,982	5,053,053	5,098,531	5,144,417
Total Wastewater System Operating and Maintenance Expenses Summary								**$ 213,592,507**	**$ 222,463,507**	**$ 230,890,087**	**$ 239,176,522**	**$ 247,491,744**	**$ 256,187,081**	**$ 265,223,680**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CHECK - Water & Sewer								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Allocation of Wastewater Costs to WTP Sludge (Linked to SCOS Model)								$ 13,340,911	$ 13,232,272	$ 14,561,488	$ 15,573,228	$ 16,266,376	$ 16,997,239	$ 17,918,627
Annual Increase									-0.81%	10.05%	6.95%	4.45%	4.49%	5.42%
Wastewater - Operations O&M Growth									5.25%	3.83%	3.61%	3.36%	3.40%	3.41%
Wastewater O&M Growth									4.15%	3.79%	3.59%	3.48%	3.51%	3.53%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Liquidated Encumbrances													**Direct O&M - 6**
Class 200 (Excluding SMIP/GARP) & Class 300 Costs		$ 150,180,463	$ 154,790,275	$ 152,782,604	$ 167,915,504	$ 164,327,794	$ 176,748,753	$ 184,131,161	$ 191,504,759	$ 198,627,200	$ 206,139,855	$ 214,056,293	$ 222,298,442
Water							$ 65,746,539	$ 67,872,515	$ 70,659,275	$ 73,319,477	$ 76,136,333	$ 79,115,392	$ 82,221,682
Sewer							$ 111,002,214	$ 116,258,646	$ 120,845,484	$ 125,307,723	$ 130,003,522	$ 134,940,901	$ 140,076,760
Liquidated Encumbrances		37,436,342	19,389,000	24,088,000	24,549,754	32,413,214	30,420,600	31,670,560	32,938,819	34,163,878	35,456,055	36,817,682	38,235,332
Water Allocation							10,251,742	10,672,979	11,100,382	11,513,227	11,948,691	12,407,559	12,885,307
Sewer Allocation							20,168,858	20,997,581	21,838,437	22,650,651	23,507,364	24,410,123	25,350,025
Direct Expenses Net of Liquidated Encumbrances		217,493,472	253,535,895	251,945,930	275,668,308	280,482,434	299,774,208	314,798,510	326,894,590	338,931,070	351,128,000	363,885,696	377,146,184
Water Allocation							106,350,559	113,332,584	117,842,939	122,405,199	127,143,620	132,108,738	137,272,529
Sewer Allocation							193,423,649	201,465,926	209,051,651	216,525,871	223,984,379	231,776,958	239,873,655
Net Expense Ratio													
Water							84.4%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%
Sewer							81.8%	81.9%	81.9%	81.9%	81.9%	81.9%	81.9%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation Finance & Admin													Direct O&M - 7
Projected O&M Prior to Adjustments													
Class 100 - xxxxxxxxxx	0.00%						$ -	$ -	$ -	$ -	$ -	$ -	$ -
Class 100 - All Other	100.00%						3,193,307	2,862,364	2,945,373	3,030,789	3,118,682	3,209,123	3,302,188
Class 100 - Total	100.00%						3,193,307	2,862,364	2,945,373	3,030,789	3,118,682	3,209,123	3,302,188
Class 200 - Residential Stormwater Program	0.00%						-	-	-	-	-	-	-
Class 200 - Non-Res Stormwater Program	0.00%						-	-	-	-	-	-	-
Class 200 - Wastewater Collection Mains	0.00%						-	-	-	-	-	-	-
Class 200 - Green Initiatives (LTCP)	0.00%						-	-	-	-	-	-	-
Class 200 - Customer (Grants)	0.00%						-	-	-	-	-	-	-
Class 200 - Customer (Basis2)	0.00%						-	-	-	-	-	-	-
Class 200 - All Other	100.00%						7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
Class 200 - Total	100.00%						7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
Class 2xx - xxxxxxxxxx	100.00%						25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 2xx - All Other	0.00%						-	-	-	-	-	-	-
Class 2xx - Total (SMIP & GARP)	100.00%						25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 300 - xxxxxxxxxx	0.00%						-	-	-	-	-	-	-
Class 300 - All Other	100.00%						46,807	41,680	42,889	44,133	45,413	46,730	48,085
Class 300 - Total	100.00%						46,807	41,680	42,889	44,133	45,413	46,730	48,085
Class 400 - xxxxxxxxxx	0.00%						-	-	-	-	-	-	-
Class 400 - All Other	100.00%						26,798	32,219	32,864	33,521	34,191	34,875	35,573
Class 400 - Total	100.00%						26,798	32,219	32,864	33,521	34,191	34,875	35,573
Class 500 - xxxxxxxxxx	0.00%						-	-	-	-	-	-	-
Class 500 - All Other	0.00%						-	-	-	-	-	-	-
Class 500 - Total	0.00%						-	-	-	-	-	-	-
Class 800 - xxxxxxxxxx	0.00%						-	-	-	-	-	-	-
Class 800 - All Other	100.00%						8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Class 800 - Total	100.00%						8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Subtotal Projected O&M Prior to Adjustments							$ 43,647,930	$ 42,835,038	$ 43,288,404	$ 43,757,270	$ 44,242,228	$ 44,743,893	$ 45,262,907

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments													
Class 100 - xxxxxxxxxx													
Class 100 - All Other													
Class 100 - Total							-	-	-	-	-	-	-
Class 200 - Residential Stormwater Program													
Class 200 - Non-Res Stormwater Program													
Class 200 - Wastewater Collection Mains													
Class 200 - Green Initiatives (LTCP)													
Class 200 - Customer (Grants)													
Class 200 - Customer (Basis2)													
Class 200 - All Other													
Class 200 - Total							-	-	-	-	-	-	-
Class 2xx - xxxxxxxxxx													
Class 2xx - All Other													
Class 2xx - Total (SMIP & GARP)							-	-	-	-	-	-	-
Class 300 - xxxxxxxxxx													
Class 300 - All Other													
Class 300 - Total							-	-	-	-	-	-	-
Class 400 - xxxxxxxxxx													
Class 400 - All Other													
Class 400 - Total							-	-	-	-	-	-	-
Class 500 - xxxxxxxxxx													
Class 500 - All Other													
Class 500 - Total							-	-	-	-	-	-	-
Class 800 - Fire Dept Hydrant Maint													
Class 800 - All Other													
Class 800 - Total							-	-	-	-	-	-	-
Subtotal Adjustments							$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Class 100 - xxxxxxxxxx							$ -	$ -	$ -	$ -	$ -	$ -	$ -
Class 100 - All Other							3,193,307	2,862,364	2,945,373	3,030,789	3,118,682	3,209,123	3,302,188
Class 100 - Total							3,193,307	2,862,364	2,945,373	3,030,789	3,118,682	3,209,123	3,302,188
Class 200 - Residential Stormwater Program							-	-	-	-	-	-	-
Class 200 - Non-Res Stormwater Program							-	-	-	-	-	-	-
Class 200 - Wastewater Collection Mains							-	-	-	-	-	-	-
Class 200 - Green Initiatives (LTCP)							-	-	-	-	-	-	-
Class 200 - Customer (Grants)							-	-	-	-	-	-	-
Class 200 - Customer (Basis2)							-	-	-	-	-	-	-
Class 200 - All Other							7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
Class 200 - Total							7,328,266	7,212,774	7,512,104	7,823,857	8,148,547	8,486,711	8,838,910
Class 2xx - xxxxxxxxxx							25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 2xx - All Other							-	-	-	-	-	-	-
Class 2xx - Total (SMIP & GARP)							25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 300 - xxxxxxxxxx							-	-	-	-	-	-	-
Class 300 - All Other							46,807	41,680	42,889	44,133	45,413	46,730	48,085
Class 300 - Total							46,807	41,680	42,889	44,133	45,413	46,730	48,085
Class 400 - xxxxxxxxxx							-	-	-	-	-	-	-
Class 400 - All Other							26,798	32,219	32,864	33,521	34,191	34,875	35,573
Class 400 - Total							26,798	32,219	32,864	33,521	34,191	34,875	35,573
Class 500 - xxxxxxxxxx							-	-	-	-	-	-	-
Class 500 - All Other							-	-	-	-	-	-	-
Class 500 - Total							-	-	-	-	-	-	-
Class 800 - xxxxxxxxxx							-	-	-	-	-	-	-
Class 800 - All Other							8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Class 800 - Total							8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Subtotal Projected O&M							$ 43,647,930	$ 42,835,038	$ 43,288,404	$ 43,757,270	$ 44,242,228	$ 44,743,893	$ 45,262,907

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Finance													
Class 100 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 100 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 100 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 200 - Residential Stormwater Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Non-Res Stormwater Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Wastewater Collection Mains							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Green Initiatives (LTCP)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Customer (Grants)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Customer (Basis2)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 200 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 2xx - xxxxxxxxxx							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 2xx - All Other							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 2xx - Total (SMIP & GARP)							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 300 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 300 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 300 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 400 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 400 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 400 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 500 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 500 - All Other							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 500 - Total							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 800 - Fire Dept Hydrant Maint							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 800 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 800 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Class 100													Direct O&M - 8
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	3.90%						$ 3,153,054	$ 3,317,705	$ 3,413,919	$ 3,512,922	$ 3,614,797	$ 3,719,626	$ 3,827,495
Queen Lane Treatment Plant	3.74%						3,016,808	3,174,344	3,266,400	3,361,126	3,458,598	3,558,898	3,662,106
Belmont Treatment Plant	3.97%						3,205,118	3,372,487	3,470,289	3,570,928	3,674,484	3,781,045	3,890,695
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	2.07%						1,667,883	1,754,979	1,805,873	1,858,244	1,912,133	1,967,585	2,024,645
Distribution	18.09%						14,603,399	15,365,980	15,811,594	16,270,130	16,741,964	17,227,481	17,727,078
Pumping (b)	3.44%						2,780,068	2,925,242	3,010,074	3,097,366	3,187,190	3,279,618	3,374,727
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-	-
NEWPCP	7.99%						6,452,540	6,789,488	6,986,383	7,188,988	7,397,469	7,611,996	7,832,744
SWWPCP	8.15%						6,584,121	6,927,940	7,128,850	7,335,587	7,548,319	7,767,220	7,992,470
SEWPCP	4.93%						3,982,394	4,190,352	4,311,872	4,436,917	4,565,587	4,697,989	4,834,231
Industrial Waste	2.25%						1,819,807	1,914,836	1,970,366	2,027,507	2,086,305	2,146,807	2,209,065
Sewer Maintenance	12.37%						9,985,043	10,506,456	10,811,143	11,124,667	11,447,282	11,779,253	12,120,852
Inlet Cleaning	6.37%						5,144,280	5,412,911	5,569,886	5,731,412	5,897,623	6,068,654	6,244,645
Interceptors/Flow Control	5.75%						4,639,692	4,881,974	5,023,551	5,169,234	5,319,142	5,473,397	5,632,126
GSI Maintenance	1.05%						848,031	892,315	918,192	944,820	972,220	1,000,414	1,029,426
Collector System Support	1.21%						973,186	1,024,005	1,053,701	1,084,259	1,115,702	1,148,057	1,181,351
Allocated Costs													
Treatment Headquarters (50/50)	0.57%						461,351	485,442	499,520	514,006	528,912	544,251	560,034
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	7.01%						5,661,022	5,956,637	6,129,380	6,307,132	6,490,038	6,678,250	6,871,919
Materials Management (50/50)	2.20%						1,776,897	1,869,685	1,923,906	1,979,699	2,037,110	2,096,187	2,156,976
Customer Service (50/50)	1.93%						1,554,638	1,635,820	1,683,259	1,732,073	1,782,303	1,833,990	1,887,176
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	3.02%						2,437,783	2,565,083	2,639,470	2,716,015	2,794,780	2,875,828	2,959,227
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 80,747,114	$ 84,963,683	$ 87,427,630	$ 89,963,031	$ 92,571,959	$ 95,256,546	$ 98,018,986

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	3,317,705													
Queen Lane Treatment Plant	3,174,344													
Belmont Treatment Plant	3,372,487													
Conveyance Headquarters	-													
Load Control	1,754,979													
Distribution	15,365,980							-	3,000,000	3,087,000	3,177,000	3,269,000	3,364,000	3,462,000
Pumping (b)	2,925,242													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	-													
NEWPCP	6,789,488													
SWWPCP	6,927,940													
SEWPCP	4,190,352													
Industrial Waste	1,914,836													
Sewer Maintenance	10,506,456													
Inlet Cleaning	5,412,911													
Interceptors/Flow Control	4,881,974													
GSI Maintenance	892,315							-	-	426,000	865,000	890,000	916,000	943,000
Collector System Support	1,024,005													
Allocated Costs														
Treatment Headquarters (50/50)	485,442													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	5,956,637													
Materials Management (50/50)	1,869,685													
Customer Service (50/50)	1,635,820													
Warranty Program	-													
Meter Shop (50/50)	2,565,083													
Automotive Maintenance (35/65)	-													
Total	84,963,681							-	3,000,000	3,513,000	4,042,000	4,159,000	4,280,000	4,405,000

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ 3,153,054	$ 3,317,705	$ 3,413,919	$ 3,512,922	$ 3,614,797	$ 3,719,626	$ 3,827,495
Queen Lane Treatment Plant							3,016,808	3,174,344	3,266,400	3,361,126	3,458,598	3,558,898	3,662,106
Belmont Treatment Plant							3,205,118	3,372,487	3,470,289	3,570,928	3,674,484	3,781,045	3,890,695
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							1,667,883	1,754,979	1,805,873	1,858,244	1,912,133	1,967,585	2,024,645
Distribution							14,603,399	18,365,980	18,898,594	19,447,130	20,010,964	20,591,481	21,189,078
Pumping (b)							2,780,068	2,925,242	3,010,074	3,097,366	3,187,190	3,279,618	3,374,727
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-	-
NEWPCP							6,452,540	6,789,488	6,986,383	7,188,988	7,397,469	7,611,996	7,832,744
SWWPCP							6,584,121	6,927,940	7,128,850	7,335,587	7,548,319	7,767,220	7,992,470
SEWPCP							3,982,394	4,190,352	4,311,872	4,436,917	4,565,587	4,697,989	4,834,231
Industrial Waste							1,819,807	1,914,836	1,970,366	2,027,507	2,086,305	2,146,807	2,209,065
Sewer Maintenance							9,985,043	10,506,456	10,811,143	11,124,667	11,447,282	11,779,253	12,120,852
Inlet Cleaning							5,144,280	5,412,911	5,569,886	5,731,412	5,897,623	6,068,654	6,244,645
Interceptors/Flow Control							4,639,692	4,881,974	5,023,551	5,169,234	5,319,142	5,473,397	5,632,126
GSI Maintenance							848,031	892,315	1,344,192	1,809,820	1,862,220	1,916,414	1,972,426
Collector System Support							973,186	1,024,005	1,053,701	1,084,259	1,115,702	1,148,057	1,181,351
Allocated Costs													
Treatment Headquarters (50/50)							461,351	485,442	499,520	514,006	528,912	544,251	560,034
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							5,661,022	5,956,637	6,129,380	6,307,132	6,490,038	6,678,250	6,871,919
Materials Management (50/50)							1,776,897	1,869,685	1,923,906	1,979,699	2,037,110	2,096,187	2,156,976
Customer Service (50/50)							1,554,638	1,635,820	1,683,259	1,732,073	1,782,303	1,833,990	1,887,176
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							2,437,783	2,565,083	2,639,470	2,716,015	2,794,780	2,875,828	2,959,227
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 80,747,114	$ 87,963,683	$ 90,940,630	$ 94,005,031	$ 96,730,959	$ 99,536,546	$ 102,423,986

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution													
Water Direct Costs													
Baxter Treatment Plant							3.90%	3.77%	3.75%	3.74%	3.74%	3.74%	3.74%
Queen Lane Treatment Plant							3.74%	3.61%	3.59%	3.58%	3.58%	3.58%	3.58%
Belmont Treatment Plant							3.97%	3.83%	3.82%	3.80%	3.80%	3.80%	3.80%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							2.07%	2.00%	1.99%	1.98%	1.98%	1.98%	1.98%
Distribution							18.09%	20.88%	20.78%	20.69%	20.69%	20.69%	20.69%
Pumping (b)							3.44%	3.33%	3.31%	3.29%	3.29%	3.29%	3.29%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							7.99%	7.72%	7.68%	7.65%	7.65%	7.65%	7.65%
SWWPCP							8.15%	7.88%	7.84%	7.80%	7.80%	7.80%	7.80%
SEWPCP							4.93%	4.76%	4.74%	4.72%	4.72%	4.72%	4.72%
Industrial Waste							2.25%	2.18%	2.17%	2.16%	2.16%	2.16%	2.16%
Sewer Maintenance							12.37%	11.94%	11.89%	11.83%	11.83%	11.83%	11.83%
Inlet Cleaning							6.37%	6.15%	6.12%	6.10%	6.10%	6.10%	6.10%
Interceptors/Flow Control							5.75%	5.55%	5.52%	5.50%	5.50%	5.50%	5.50%
GSI Maintenance							1.05%	1.01%	1.48%	1.93%	1.93%	1.93%	1.93%
Collector System Support							1.21%	1.16%	1.16%	1.15%	1.15%	1.15%	1.15%
Allocated Costs													
Treatment Headquarters (50/50)							0.57%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							7.01%	6.77%	6.74%	6.71%	6.71%	6.71%	6.71%
Materials Management (50/50)							2.20%	2.13%	2.12%	2.11%	2.11%	2.11%	2.11%
Customer Service (50/50)							1.93%	1.86%	1.85%	1.84%	1.84%	1.84%	1.84%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							3.02%	2.92%	2.90%	2.89%	2.89%	2.89%	2.89%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Power													**Direct O&M - 9A**
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	0.00%						$ -	$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant	0.00%						-	-	-	-	-	-	-
Belmont Treatment Plant	0.00%						-	-	-	-	-	-	-
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	52.00%						7,204,269	7,235,420	7,452,483	7,452,483	7,489,745	7,564,642	7,640,289
Distribution	0.50%						69,271	69,571	71,658	71,658	72,016	72,737	73,464
Pumping (b)	0.00%						-	-	-	-	-	-	-
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-	-
NEWPCP	8.20%						1,136,058	1,140,970	1,175,199	1,175,199	1,181,075	1,192,886	1,204,815
SWWPCP	27.20%						3,768,387	3,784,681	3,898,221	3,898,221	3,917,713	3,956,890	3,996,459
SEWPCP	8.10%						1,122,204	1,127,056	1,160,868	1,160,868	1,166,672	1,178,339	1,190,122
Industrial Waste	0.00%						-	-	-	-	-	-	-
Sewer Maintenance	0.00%						-	-	-	-	-	-	-
Inlet Cleaning	0.00%						-	-	-	-	-	-	-
Interceptors/Flow Control	4.00%						554,175	556,571	573,268	573,268	576,134	581,896	587,715
GSI Maintenance	0.00%						-	-	-	-	-	-	-
Collector System Support	0.00%						-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)	0.00%						-	-	-	-	-	-	-
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	0.00%						-	-	-	-	-	-	-
Materials Management (50/50)	0.00%						-	-	-	-	-	-	-
Customer Service (50/50)	0.00%						-	-	-	-	-	-	-
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	0.00%						-	-	-	-	-	-	-
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 13,854,363	$ 13,914,269	$ 14,331,697	$ 14,331,697	$ 14,403,356	$ 14,547,389	$ 14,692,863

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	-													
Queen Lane Treatment Plant	-													
Belmont Treatment Plant	-													
Conveyance Headquarters	-													
Load Control	7,235,420													
Distribution	69,571													
Pumping (b)	-													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	-													
NEWPCP	1,140,970													
SWWPCP	3,784,681													
SEWPCP	1,127,056													
Industrial Waste	-													
Sewer Maintenance	-													
Inlet Cleaning	-													
Interceptors/Flow Control	556,571													
GSI Maintenance	-													
Collector System Support	-													
Allocated Costs														
Treatment Headquarters (50/50)	-													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	-													
Materials Management (50/50)	-													
Customer Service (50/50)	-													
Warranty Program	-													
Meter Shop (50/50)	-													
Automotive Maintenance (35/65)	-													
Total	13,914,269							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ -	$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant							-	-	-	-	-	-	-
Belmont Treatment Plant							-	-	-	-	-	-	-
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							7,204,269	7,235,420	7,452,483	7,452,483	7,489,745	7,564,642	7,640,289
Distribution							69,271	69,571	71,658	71,658	72,016	72,737	73,464
Pumping (b)							-	-	-	-	-	-	-
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-	-
NEWPCP							1,136,058	1,140,970	1,175,199	1,175,199	1,181,075	1,192,886	1,204,815
SWWPCP							3,768,387	3,784,681	3,898,221	3,898,221	3,917,713	3,956,890	3,996,459
SEWPCP							1,122,204	1,127,056	1,160,868	1,160,868	1,166,672	1,178,339	1,190,122
Industrial Waste							-	-	-	-	-	-	-
Sewer Maintenance							-	-	-	-	-	-	-
Inlet Cleaning							-	-	-	-	-	-	-
Interceptors/Flow Control							554,175	556,571	573,268	573,268	576,134	581,896	587,715
GSI Maintenance							-	-	-	-	-	-	-
Collector System Support							-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)							-	-	-	-	-	-	-
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							-	-	-	-	-	-	-
Materials Management (50/50)							-	-	-	-	-	-	-
Customer Service (50/50)							-	-	-	-	-	-	-
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							-	-	-	-	-	-	-
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 13,854,363	$ 13,914,269	$ 14,331,697	$ 14,331,697	$ 14,403,356	$ 14,547,389	$ 14,692,863

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution													
Water Direct Costs													
Baxter Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Queen Lane Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Belmont Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							52.00%	52.00%	52.00%	52.00%	52.00%	52.00%	52.00%
Distribution							0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Pumping (b)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							8.20%	8.20%	8.20%	8.20%	8.20%	8.20%	8.20%
SWWPCP							27.20%	27.20%	27.20%	27.20%	27.20%	27.20%	27.20%
SEWPCP							8.10%	8.10%	8.10%	8.10%	8.10%	8.10%	8.10%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Inlet Cleaning							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Interceptors/Flow Control							4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
GSI Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs													
Treatment Headquarters (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Gas													Direct O&M - 9B
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	0.00%						$ -	$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant	0.00%						-	-	-	-	-	-	-
Belmont Treatment Plant	0.00%						-	-	-	-	-	-	-
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	12.30%						572,197	490,452	505,166	505,166	507,692	512,769	517,896
Distribution	2.30%						106,995	91,710	94,461	94,461	94,934	95,883	96,842
Pumping (b)	0.00%						-	-	-	-	-	-	-
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	58.80%						2,735,376	2,344,598	2,414,936	2,414,936	2,427,011	2,451,281	2,475,794
NEWPCP	19.50%						907,140	777,545	800,871	800,871	804,876	812,924	821,054
SWWPCP	0.00%						-	-	-	-	-	-	-
SEWPCP	3.90%						181,428	155,509	160,174	160,174	160,975	162,585	164,211
Industrial Waste	0.00%						-	-	-	-	-	-	-
Sewer Maintenance	0.00%						-	-	-	-	-	-	-
Inlet Cleaning	0.00%						-	-	-	-	-	-	-
Interceptors/Flow Control	0.00%						-	-	-	-	-	-	-
GSI Maintenance	0.00%						-	-	-	-	-	-	-
Collector System Support	1.70%						79,084	67,786	69,820	69,820	70,169	70,870	71,579
Allocated Costs													
Treatment Headquarters (50/50)	1.50%						69,780	59,811	61,605	61,605	61,913	62,532	63,158
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	0.00%						-	-	-	-	-	-	-
Materials Management (50/50)	0.00%						-	-	-	-	-	-	-
Customer Service (50/50)	0.00%						-	-	-	-	-	-	-
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	0.00%						-	-	-	-	-	-	-
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 4,652,000	$ 3,987,411	$ 4,107,034	$ 4,107,034	$ 4,127,569	$ 4,168,845	$ 4,210,533

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	-													
Queen Lane Treatment Plant	-													
Belmont Treatment Plant	-													
Conveyance Headquarters	-													
Load Control	490,452													
Distribution	91,710													
Pumping (b)	-													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	2,344,598													
NEWPCP	777,545													
SWWPCP	-													
SEWPCP	155,509													
Industrial Waste	-													
Sewer Maintenance	-													
Inlet Cleaning	-													
Interceptors/Flow Control	-													
GSI Maintenance	-													
Collector System Support	67,786													
Allocated Costs														
Treatment Headquarters (50/50)	59,811													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	-													
Materials Management (50/50)	-													
Customer Service (50/50)	-													
Warranty Program	-													
Meter Shop (50/50)	-													
Automotive Maintenance (35/65)	-													
Total	3,987,411							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ -	$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant							-	-	-	-	-	-	-
Belmont Treatment Plant							-	-	-	-	-	-	-
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							572,197	490,452	505,166	505,166	507,692	512,769	517,896
Distribution							106,995	91,710	94,461	94,461	94,934	95,883	96,842
Pumping (b)							-	-	-	-	-	-	-
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							2,735,376	2,344,598	2,414,936	2,414,936	2,427,011	2,451,281	2,475,794
NEWPCP							907,140	777,545	800,871	800,871	804,876	812,924	821,054
SWWPCP							-	-	-	-	-	-	-
SEWPCP							181,428	155,509	160,174	160,174	160,975	162,585	164,211
Industrial Waste							-	-	-	-	-	-	-
Sewer Maintenance							-	-	-	-	-	-	-
Inlet Cleaning							-	-	-	-	-	-	-
Interceptors/Flow Control							-	-	-	-	-	-	-
GSI Maintenance							-	-	-	-	-	-	-
Collector System Support							79,084	67,786	69,820	69,820	70,169	70,870	71,579
Allocated Costs													
Treatment Headquarters (50/50)							69,780	59,811	61,605	61,605	61,913	62,532	63,158
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							-	-	-	-	-	-	-
Materials Management (50/50)							-	-	-	-	-	-	-
Customer Service (50/50)							-	-	-	-	-	-	-
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							-	-	-	-	-	-	-
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 4,652,000	$ 3,987,411	$ 4,107,034	$ 4,107,034	$ 4,127,569	$ 4,168,845	$ 4,210,533

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution							Distribution based on Adjusted Costs						
Water Direct Costs													
Baxter Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Queen Lane Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Belmont Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							12.30%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%
Distribution							2.30%	2.30%	2.30%	2.30%	2.30%	2.30%	2.30%
Pumping (b)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							58.80%	58.80%	58.80%	58.80%	58.80%	58.80%	58.80%
NEWPCP							19.50%	19.50%	19.50%	19.50%	19.50%	19.50%	19.50%
SWWPCP							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SEWPCP							3.90%	3.90%	3.90%	3.90%	3.90%	3.90%	3.90%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Inlet Cleaning							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Interceptors/Flow Control							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
GSI Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collector System Support							1.70%	1.70%	1.70%	1.70%	1.70%	1.70%	1.70%
Allocated Costs													
Treatment Headquarters (50/50)							1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Class 200 Excl. Power and Gas													Direct O&M - 10
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	1.05%						$ 805,010	$ 874,740	$ 911,041	$ 948,850	$ 988,227	$ 1,029,238	$ 1,071,952
Queen Lane Treatment Plant	1.89%						1,443,039	1,568,035	1,633,109	1,700,883	1,771,470	1,844,986	1,921,553
Belmont Treatment Plant	0.75%						576,185	626,094	652,077	679,138	707,323	736,677	767,249
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	2.50%						1,904,914	2,069,918	2,155,820	2,245,286	2,338,466	2,435,512	2,536,586
Distribution	3.21%						2,451,310	2,663,643	2,774,184	2,889,313	3,009,220	3,134,102	3,264,167
Pumping (b)	0.53%						408,174	443,530	461,937	481,107	501,073	521,867	543,525
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	31.38%						23,949,288	26,023,781	27,103,768	28,228,574	29,400,060	30,620,163	31,890,899
NEWPCP	14.32%						10,929,988	11,876,746	12,369,631	12,882,970	13,417,614	13,974,445	14,554,384
SWWPCP	5.27%						4,026,078	4,374,818	4,556,373	4,745,462	4,942,399	5,147,508	5,361,130
SEWPCP	1.60%						1,222,460	1,328,349	1,383,476	1,440,890	1,500,687	1,562,966	1,627,829
Industrial Waste	0.29%						221,609	240,805	250,799	261,207	272,047	283,337	295,095
Sewer Maintenance	4.45%						3,396,295	3,690,482	3,843,637	4,003,148	4,169,279	4,342,304	4,522,510
Inlet Cleaning	0.09%						65,968	71,682	74,657	77,755	80,982	84,342	87,843
Interceptors/Flow Control	3.65%						2,787,126	3,028,547	3,154,232	3,285,133	3,421,466	3,563,456	3,711,340
GSI Maintenance	6.68%						5,099,080	5,540,763	5,770,705	6,010,189	6,259,612	6,519,386	6,789,941
Collector System Support	0.02%						12,369	13,441	13,999	14,579	15,185	15,815	16,471
Allocated Costs													
Treatment Headquarters (50/50)	0.30%						226,764	246,406	256,632	267,282	278,374	289,927	301,959
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	14.97%						11,423,713	12,413,237	12,928,387	13,464,915	14,023,709	14,605,693	15,211,829
Materials Management (50/50)	0.20%						154,612	168,004	174,976	182,238	189,801	197,678	205,881
Customer Service (50/50)	6.82%						5,203,186	5,653,887	5,888,523	6,132,897	6,387,412	6,652,489	6,928,568
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	0.03%						20,614	22,400	23,330	24,298	25,306	26,356	27,450
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 76,327,780	$ 82,939,310	$ 86,381,291	$ 89,966,115	$ 93,699,708	$ 97,588,246	$ 101,638,158

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	751,882													
Queen Lane Treatment Plant	1,347,804													
Belmont Treatment Plant	538,159													
Conveyance Headquarters	-													
Load Control	1,779,197													
Distribution	2,289,533													
Pumping (b)	381,236													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	22,368,726													
NEWPCP	10,208,650													
SWWPCP	3,760,372													
SEWPCP	1,141,782													
Industrial Waste	206,984													
Sewer Maintenance	3,172,152													
Inlet Cleaning	61,614													
Interceptors/Flow Control	2,603,186													
GSI Maintenance	4,762,560													
Collector System Support	11,553													
Allocated Costs														
Treatment Headquarters (50/50)	211,798													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	10,669,791													
Materials Management (50/50)	144,408													
Customer Service (50/50)	4,859,795													
Warranty Program	-													
Meter Shop (50/50)	19,254													
Automotive Maintenance (35/65)	-													
Total	71,290,436							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ 805,010	$ 874,740	$ 911,041	$ 948,850	$ 988,227	$ 1,029,238	$ 1,071,952
Queen Lane Treatment Plant							1,443,039	1,568,035	1,633,109	1,700,883	1,771,470	1,844,986	1,921,553
Belmont Treatment Plant							576,185	626,094	652,077	679,138	707,323	736,677	767,249
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							1,904,914	2,069,918	2,155,820	2,245,286	2,338,466	2,435,512	2,536,586
Distribution							2,451,310	2,663,643	2,774,184	2,889,313	3,009,220	3,134,102	3,264,167
Pumping (b)							408,174	443,530	461,937	481,107	501,073	521,867	543,525
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							23,949,288	26,023,781	27,103,768	28,228,574	29,400,060	30,620,163	31,890,899
NEWPCP							10,929,988	11,876,746	12,369,631	12,882,970	13,417,614	13,974,445	14,554,384
SWWPCP							4,026,078	4,374,818	4,556,373	4,745,462	4,942,399	5,147,508	5,361,130
SEWPCP							1,222,460	1,328,349	1,383,476	1,440,890	1,500,687	1,562,966	1,627,829
Industrial Waste							221,609	240,805	250,799	261,207	272,047	283,337	295,095
Sewer Maintenance							3,396,295	3,690,482	3,843,637	4,003,148	4,169,279	4,342,304	4,522,510
Inlet Cleaning							65,968	71,682	74,657	77,755	80,982	84,342	87,843
Interceptors/Flow Control							2,787,126	3,028,547	3,154,232	3,285,133	3,421,466	3,563,456	3,711,340
GSI Maintenance							5,099,080	5,540,763	5,770,705	6,010,189	6,259,612	6,519,386	6,789,941
Collector System Support							12,369	13,441	13,999	14,579	15,185	15,815	16,471
Allocated Costs													
Treatment Headquarters (50/50)							226,764	246,406	256,632	267,282	278,374	289,927	301,959
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							11,423,713	12,413,237	12,928,387	13,464,915	14,023,709	14,605,693	15,211,829
Materials Management (50/50)							154,612	168,004	174,976	182,238	189,801	197,678	205,881
Customer Service (50/50)							5,203,186	5,653,887	5,888,523	6,132,897	6,387,412	6,652,489	6,928,568
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							20,614	22,400	23,330	24,298	25,306	26,356	27,450
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 76,327,780	$ 82,939,310	$ 86,381,291	$ 89,966,115	$ 93,699,708	$ 97,588,246	$ 101,638,158

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution							Distribution based on Adjusted Costs						
Water Direct Costs													
Baxter Treatment Plant							1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%
Queen Lane Treatment Plant							1.89%	1.89%	1.89%	1.89%	1.89%	1.89%	1.89%
Belmont Treatment Plant							0.75%	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Distribution							3.21%	3.21%	3.21%	3.21%	3.21%	3.21%	3.21%
Pumping (b)							0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							31.38%	31.38%	31.38%	31.38%	31.38%	31.38%	31.38%
NEWPCP							14.32%	14.32%	14.32%	14.32%	14.32%	14.32%	14.32%
SWWPCP							5.27%	5.27%	5.27%	5.27%	5.27%	5.27%	5.27%
SEWPCP							1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%
Industrial Waste							0.29%	0.29%	0.29%	0.29%	0.29%	0.29%	0.29%
Sewer Maintenance							4.45%	4.45%	4.45%	4.45%	4.45%	4.45%	4.45%
Inlet Cleaning							0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%
Interceptors/Flow Control							3.65%	3.65%	3.65%	3.65%	3.65%	3.65%	3.65%
GSI Maintenance							6.68%	6.68%	6.68%	6.68%	6.68%	6.68%	6.68%
Collector System Support							0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Allocated Costs													
Treatment Headquarters (50/50)							0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							14.97%	14.97%	14.97%	14.97%	14.97%	14.97%	14.97%
Materials Management (50/50)							0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%
Customer Service (50/50)							6.82%	6.82%	6.82%	6.82%	6.82%	6.82%	6.82%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Chemicals														**Direct O&M - 11**
Projected O&M Prior to Adjustments								Adjustments						
Water Direct Costs														
Baxter Treatment Plant	9,098,271													
Queen Lane Treatment Plant	5,069,761													
Belmont Treatment Plant	4,754,851													
Conveyance Headquarters	-													
Load Control	-													
Distribution	48,748													
Pumping (b)	2,925													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	-													
NEWPCP	1,041,251													
SWWPCP	460,178													
SEWPCP	454,329													
Industrial Waste	-													
Sewer Maintenance	4,875													
Inlet Cleaning	1,950													
Interceptors/Flow Control	1,278,165													
GSI Maintenance	7,800													
Collector System Support	-													
Allocated Costs														
Treatment Headquarters (50/50)	2,925													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	-													
Materials Management (50/50)	39,973													
Customer Service (50/50)	-													
Warranty Program	-													
Meter Shop (50/50)	-													
Automotive Maintenance (35/65)	-													
Total	22,266,002							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
							Distribution based on Adjusted Costs						
Water Direct Costs													
Baxter Treatment Plant							40.86%	40.86%	40.86%	40.86%	40.86%	40.86%	40.86%
Queen Lane Treatment Plant							22.77%	22.77%	22.77%	22.77%	22.77%	22.77%	22.77%
Belmont Treatment Plant							21.35%	21.35%	21.35%	21.35%	21.35%	21.35%	21.35%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Distribution							0.22%	0.22%	0.22%	0.22%	0.22%	0.22%	0.22%
Pumping (b)							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							4.68%	4.68%	4.68%	4.68%	4.68%	4.68%	4.68%
SWWPCP							2.07%	2.07%	2.07%	2.07%	2.07%	2.07%	2.07%
SEWPCP							2.04%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Inlet Cleaning							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Interceptors/Flow Control							5.74%	5.74%	5.74%	5.74%	5.74%	5.74%	5.74%
GSI Maintenance							0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs													
Treatment Headquarters (50/50)							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.18%	0.18%	0.18%	0.18%	0.18%	0.18%	0.18%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Class 300 Excl. Chemicals													**Direct O&M - 12**
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	6.04%						$ 1,000,485	$ 1,047,521	$ 1,077,899	$ 1,109,158	$ 1,141,324	$ 1,174,422	$ 1,208,480
Queen Lane Treatment Plant	4.66%						773,066	809,411	832,884	857,038	881,892	907,467	933,783
Belmont Treatment Plant	4.07%						674,360	706,064	726,540	747,610	769,290	791,600	814,556
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	0.89%						146,875	153,780	158,240	162,829	167,551	172,410	177,409
Distribution	1.45%						240,211	251,504	258,798	266,303	274,026	281,972	290,149
Pumping (b)	2.67%						442,203	462,993	476,420	490,236	504,453	519,082	534,135
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	0.24%						39,483	41,339	42,538	43,771	45,041	46,347	47,691
NEWPCP	11.44%						1,896,736	1,985,908	2,043,499	2,102,761	2,163,741	2,226,489	2,291,058
SWWPCP	7.17%						1,187,631	1,243,466	1,279,527	1,316,633	1,354,815	1,394,105	1,434,534
SEWPCP	8.14%						1,348,720	1,412,128	1,453,080	1,495,219	1,538,580	1,583,199	1,629,112
Industrial Waste	0.45%						74,227	77,717	79,971	82,290	84,676	87,132	89,659
Sewer Maintenance	3.21%						532,223	557,245	573,405	590,034	607,145	624,752	642,870
Inlet Cleaning	0.52%						86,071	90,118	92,731	95,421	98,188	101,035	103,965
Interceptors/Flow Control	4.88%						808,600	846,615	871,167	896,431	922,427	949,178	976,704
GSI Maintenance	2.59%						428,780	448,938	461,957	475,354	489,139	503,324	517,921
Collector System Support	0.00%						-	-	-	-	-	-	-
	0.00%						-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)	0.06%						9,476	9,921	10,209	10,505	10,809	11,123	11,445
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	1.41%						234,131	245,138	252,247	259,562	267,089	274,835	282,805
Materials Management (50/50)	39.47%						6,542,240	6,849,813	7,048,458	7,252,863	7,463,196	7,679,629	7,902,338
Customer Service (50/50)	0.15%						24,479	25,630	26,373	27,138	27,925	28,735	29,568
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	0.51%						83,703	87,638	90,180	92,795	95,486	98,255	101,104
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 16,573,700	$ 17,352,888	$ 17,856,121	$ 18,373,949	$ 18,906,793	$ 19,455,090	$ 20,019,288

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	1,047,521													
Queen Lane Treatment Plant	809,411													
Belmont Treatment Plant	706,064													
Conveyance Headquarters	-													
Load Control	153,780													
Distribution	251,504													
Pumping (b)	462,993													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	41,339													
NEWPCP	1,985,908													
SWWPCP	1,243,466													
SEWPCP	1,412,128													
Industrial Waste	77,717													
Sewer Maintenance	557,245													
Inlet Cleaning	90,118													
Interceptors/Flow Control	846,615													
GSI Maintenance	448,938													
Collector System Support	-													
Allocated Costs														
Treatment Headquarters (50/50)	9,921													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	245,138													
Materials Management (50/50)	6,849,813													
Customer Service (50/50)	25,630													
Warranty Program	-													
Meter Shop (50/50)	87,638													
Automotive Maintenance (35/65)	-													
Total	17,352,887							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ 1,000,485	$ 1,047,521	$ 1,077,899	$ 1,109,158	$ 1,141,324	$ 1,174,422	$ 1,208,480
Queen Lane Treatment Plant							773,066	809,411	832,884	857,038	881,892	907,467	933,783
Belmont Treatment Plant							674,360	706,064	726,540	747,610	769,290	791,600	814,556
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							146,875	153,780	158,240	162,829	167,551	172,410	177,409
Distribution							240,211	251,504	258,798	266,303	274,026	281,972	290,149
Pumping (b)							442,203	462,993	476,420	490,236	504,453	519,082	534,135
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							39,483	41,339	42,538	43,771	45,041	46,347	47,691
NEWPCP							1,896,736	1,985,908	2,043,499	2,102,761	2,163,741	2,226,489	2,291,058
SWWPCP							1,187,631	1,243,466	1,279,527	1,316,633	1,354,815	1,394,105	1,434,534
SEWPCP							1,348,720	1,412,128	1,453,080	1,495,219	1,538,580	1,583,199	1,629,112
Industrial Waste							74,227	77,717	79,971	82,290	84,676	87,132	89,659
Sewer Maintenance							532,223	557,245	573,405	590,034	607,145	624,752	642,870
Inlet Cleaning							86,071	90,118	92,731	95,421	98,188	101,035	103,965
Interceptors/Flow Control							808,600	846,615	871,167	896,431	922,427	949,178	976,704
GSI Maintenance							428,780	448,938	461,957	475,354	489,139	503,324	517,921
Collector System Support							-	-	-	-	-	-	-
							-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)							9,476	9,921	10,209	10,505	10,809	11,123	11,445
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							234,131	245,138	252,247	259,562	267,089	274,835	282,805
Materials Management (50/50)							6,542,240	6,849,813	7,048,458	7,252,863	7,463,196	7,679,629	7,902,338
Customer Service (50/50)							24,479	25,630	26,373	27,138	27,925	28,735	29,568
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							83,703	87,638	90,180	92,795	95,486	98,255	101,104
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 16,573,700	$ 17,352,888	$ 17,856,121	$ 18,373,949	$ 18,906,793	$ 19,455,090	$ 20,019,288

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution													
Water Direct Costs													
Baxter Treatment Plant							6.04%	6.04%	6.04%	6.04%	6.04%	6.04%	6.04%
Queen Lane Treatment Plant							4.66%	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%
Belmont Treatment Plant							4.07%	4.07%	4.07%	4.07%	4.07%	4.07%	4.07%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%
Distribution							1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%
Pumping (b)							2.67%	2.67%	2.67%	2.67%	2.67%	2.67%	2.67%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%
NEWPCP							11.44%	11.44%	11.44%	11.44%	11.44%	11.44%	11.44%
SWWPCP							7.17%	7.17%	7.17%	7.17%	7.17%	7.17%	7.17%
SEWPCP							8.14%	8.14%	8.14%	8.14%	8.14%	8.14%	8.14%
Industrial Waste							0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Sewer Maintenance							3.21%	3.21%	3.21%	3.21%	3.21%	3.21%	3.21%
Inlet Cleaning							0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%
Interceptors/Flow Control							4.88%	4.88%	4.88%	4.88%	4.88%	4.88%	4.88%
GSI Maintenance							2.59%	2.59%	2.59%	2.59%	2.59%	2.59%	2.59%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs													
Treatment Headquarters (50/50)							0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							1.41%	1.41%	1.41%	1.41%	1.41%	1.41%	1.41%
Materials Management (50/50)							39.47%	39.47%	39.47%	39.47%	39.47%	39.47%	39.47%
Customer Service (50/50)							0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Detailed Allocation of Operations Class 400													Direct O&M - 13
Projected O&M Prior to Adjustments													
Water Direct Costs													
Baxter Treatment Plant	2.23%						$ 93,531	$ 96,903	$ 98,841	$ 100,818	$ 102,834	$ 104,891	$ 106,989
Queen Lane Treatment Plant	0.95%						39,977	41,418	42,246	43,091	43,953	44,832	45,729
Belmont Treatment Plant	1.19%						49,782	51,577	52,609	53,661	54,734	55,829	56,945
Conveyance Headquarters	0.00%						-	-	-	-	-	-	-
Load Control	0.43%						18,102	18,755	19,130	19,513	19,903	20,301	20,707
Distribution	3.78%						158,399	164,110	167,392	170,740	174,155	177,638	181,191
Pumping (b)	1.15%						48,274	50,014	51,014	52,035	53,075	54,137	55,220
Emergency & Support Services	0.00%						-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services	0.00%						-	-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-	-
NEWPCP	3.02%						126,719	131,288	133,914	136,592	139,324	142,110	144,953
SWWPCP	4.75%						199,129	206,309	210,435	214,644	218,937	223,316	227,782
SEWPCP	2.34%						98,057	101,592	103,624	105,696	107,810	109,966	112,166
Industrial Waste	0.36%						15,086	15,630	15,943	16,261	16,587	16,918	17,257
Sewer Maintenance	1.22%						51,291	53,140	54,203	55,287	56,393	57,520	58,671
Inlet Cleaning	0.50%						21,120	21,881	22,319	22,765	23,220	23,685	24,158
Interceptors/Flow Control	0.63%						26,400	27,352	27,899	28,457	29,026	29,607	30,199
GSI Maintenance	1.28%						53,554	55,485	56,595	57,727	58,881	60,059	61,260
Collector System Support	0.00%						-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)	0.07%						3,017	3,126	3,189	3,252	3,317	3,384	3,451
Machine Shops (50/50)	0.00%						-	-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	75.77%						3,178,912	3,293,528	3,359,398	3,426,586	3,495,118	3,565,021	3,636,321
Materials Management (50/50)	0.02%						754	781	797	813	829	845	862
Customer Service (50/50)	0.13%						5,280	5,470	5,579	5,691	5,805	5,921	6,039
Warranty Program	0.00%						-	-	-	-	-	-	-
Meter Shop (50/50)	0.20%						8,297	8,596	8,768	8,943	9,122	9,305	9,491
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-	-
Total	100.00%						$ 4,195,679	$ 4,346,955	$ 4,433,894	$ 4,522,572	$ 4,613,024	$ 4,705,284	$ 4,799,390

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Adjustments														
Water Direct Costs														
Baxter Treatment Plant	96,903													
Queen Lane Treatment Plant	41,418													
Belmont Treatment Plant	51,577													
Conveyance Headquarters	-													
Load Control	18,755													
Distribution	164,110													
Pumping (b)	50,014													
Emergency & Support Services	-													
Sewer Direct Costs														
Biosolids Engr Services	-													
Biosolids Utilization	-													
Biosolids Processing	-													
NEWPCP	131,288													
SWWPCP	206,309													
SEWPCP	101,592													
Industrial Waste	15,630													
Sewer Maintenance	53,140													
Inlet Cleaning	21,881													
Interceptors/Flow Control	27,352													
GSI Maintenance	55,485													
Collector System Support	-													
Allocated Costs														
Treatment Headquarters (50/50)	3,126													
Machine Shops (50/50)	-													
Building Maintenance (50/50)	-													
Security (50/50)	-													
Operations Admin/Delinquencies/	3,293,527													
Materials Management (50/50)	781													
Customer Service (50/50)	5,470													
Warranty Program	-													
Meter Shop (50/50)	8,596													
Automotive Maintenance (35/65)	-													
Total	4,346,954							-	-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Projected O&M													
Water Direct Costs													
Baxter Treatment Plant							$ 93,531	$ 96,903	$ 98,841	$ 100,818	$ 102,834	$ 104,891	$ 106,989
Queen Lane Treatment Plant							39,977	41,418	42,246	43,091	43,953	44,832	45,729
Belmont Treatment Plant							49,782	51,577	52,609	53,661	54,734	55,829	56,945
Conveyance Headquarters							-	-	-	-	-	-	-
Load Control							18,102	18,755	19,130	19,513	19,903	20,301	20,707
Distribution							158,399	164,110	167,392	170,740	174,155	177,638	181,191
Pumping (b)							48,274	50,014	51,014	52,035	53,075	54,137	55,220
Emergency & Support Services							-	-	-	-	-	-	-
Sewer Direct Costs													
Biosolids Engr Services							-	-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-	-
NEWPCP							126,719	131,288	133,914	136,592	139,324	142,110	144,953
SWWPCP							199,129	206,309	210,435	214,644	218,937	223,316	227,782
SEWPCP							98,057	101,592	103,624	105,696	107,810	109,966	112,166
Industrial Waste							15,086	15,630	15,943	16,261	16,587	16,918	17,257
Sewer Maintenance							51,291	53,140	54,203	55,287	56,393	57,520	58,671
Inlet Cleaning							21,120	21,881	22,319	22,765	23,220	23,685	24,158
Interceptors/Flow Control							26,400	27,352	27,899	28,457	29,026	29,607	30,199
GSI Maintenance							53,554	55,485	56,595	57,727	58,881	60,059	61,260
Collector System Support							-	-	-	-	-	-	-
Allocated Costs													
Treatment Headquarters (50/50)							3,017	3,126	3,189	3,252	3,317	3,384	3,451
Machine Shops (50/50)							-	-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							3,178,912	3,293,528	3,359,398	3,426,586	3,495,118	3,565,021	3,636,321
Materials Management (50/50)							754	781	797	813	829	845	862
Customer Service (50/50)							5,280	5,470	5,579	5,691	5,805	5,921	6,039
Warranty Program							-	-	-	-	-	-	-
Meter Shop (50/50)							8,297	8,596	8,768	8,943	9,122	9,305	9,491
Automotive Maintenance (35/65)							-	-	-	-	-	-	-
Total							$ 4,195,679	$ 4,346,955	$ 4,433,894	$ 4,522,572	$ 4,613,024	$ 4,705,284	$ 4,799,390

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Distribution													
Water Direct Costs													
Baxter Treatment Plant							2.23%	2.23%	2.23%	2.23%	2.23%	2.23%	2.23%
Queen Lane Treatment Plant							0.95%	0.95%	0.95%	0.95%	0.95%	0.95%	0.95%
Belmont Treatment Plant							1.19%	1.19%	1.19%	1.19%	1.19%	1.19%	1.19%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%
Distribution							3.78%	3.78%	3.78%	3.78%	3.78%	3.78%	3.78%
Pumping (b)							1.15%	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs													
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							3.02%	3.02%	3.02%	3.02%	3.02%	3.02%	3.02%
SWWPCP							4.75%	4.75%	4.75%	4.75%	4.75%	4.75%	4.75%
SEWPCP							2.34%	2.34%	2.34%	2.34%	2.34%	2.34%	2.34%
Industrial Waste							0.36%	0.36%	0.36%	0.36%	0.36%	0.36%	0.36%
Sewer Maintenance							1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%
Inlet Cleaning							0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interceptors/Flow Control							0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%
GSI Maintenance							1.28%	1.28%	1.28%	1.28%	1.28%	1.28%	1.28%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs													
Treatment Headquarters (50/50)							0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							75.77%	75.77%	75.77%	75.77%	75.77%	75.77%	75.77%
Materials Management (50/50)							0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Customer Service (50/50)							0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PWD Projected Direct O&M Budget														**Direct O&M - 14**
Human Resources and Administration														
100	Salaries & Wages	Labor	$ 7,860,450	$ 8,673,039	$ 8,815,500	$ 7,948,132	$ 9,851,135	$ 9,459,000	$ 9,675,000	$ 9,955,575	$ 10,244,287	$ 10,541,371	$ 10,847,071	$ 11,161,636
200	Services	Other 200	4,130,600	5,846,000	5,222,100	5,316,800	4,374,100	5,650,000	4,923,000	5,127,305	5,340,088	5,561,701	5,792,512	6,032,901
300	Materials and Supplies	Other 300	771,700	1,215,550	1,141,850	1,151,988	1,152,218	1,128,000	1,118,000	1,150,422	1,183,784	1,218,114	1,253,439	1,289,789
400	Equipment	Other 400	82,100	420,100	634,600	783,911	556,190	733,000	705,000	719,100	733,482	748,152	763,115	778,377
500	Indemnities	Constant	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 12,944,850	$ 16,254,689	$ 15,914,050	$ 15,300,831	$ 16,033,643	$ 17,070,000	$ 16,521,000	$ 17,052,402	$ 17,601,641	$ 18,169,338	$ 18,756,137	$ 19,362,703
Finance														
100	Salaries & Wages	Labor	$ 2,181,400	$ 2,472,925	$ 2,550,200	$ 3,051,659	$ 3,051,659	$ 4,916,034	$ 3,675,000	$ 3,781,575	$ 3,891,241	$ 4,004,087	$ 4,120,205	$ 4,239,691
200	Services	Other 200	7,491,000	7,322,500	7,297,500	8,120,759	8,731,808	7,865,000	7,870,000	8,196,605	8,536,764	8,891,040	9,260,018	9,644,309
2xx	SMIP/GARP	Constant	5,200,000	10,250,000	11,450,000	16,666,841	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies	Constant	816,400	436,200	86,200	86,725	96,305	65,000	68,000	68,000	68,000	68,000	68,000	68,000
400	Equipment	Other 300	560,800	10,800	37,800	13,300	16,800	42,000	42,000	43,218	44,471	45,761	47,088	48,454
500	Indemnities	Other 400	-	-	-	-	-	10,000	10,000	10,200	10,404	10,612	10,824	11,041
800	Transfers	Constant	13,243,100	14,000,000	10,537,000	9,000,000	11,000,000	11,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000
Subtotal Finance			$ 29,492,700	$ 34,492,425	$ 31,958,700	$ 36,939,284	$ 49,796,572	$ 48,898,034	$ 45,665,000	$ 46,099,598	$ 46,550,880	$ 47,019,500	$ 47,506,136	$ 48,011,494
Construction and Engineering														
100	Salaries & Wages	Labor	$ 1,268,860	$ 1,231,738	$ 1,225,000	$ 1,472,207	$ 1,848,821	$ 2,855,352	$ 3,716,360	$ 4,878,134	$ 6,793,034	$ 8,459,150	$ 10,216,576	$ 12,067,406
200	Services	Other 200	498,500	492,900	497,500	1,002,500	827,500	1,358,000	2,128,000	2,216,312	2,308,289	2,404,083	2,503,852	2,607,762
300	Materials and Supplies	Other 300	177,300	198,000	187,500	188,440	193,420	141,000	116,500	119,879	123,355	126,932	130,613	134,401
400	Equipment	Other 400	220,000	59,000	59,000	60,650	61,350	235,000	285,000	290,700	296,514	302,444	308,493	314,663
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 2,164,660	$ 1,981,638	$ 1,969,000	$ 2,723,797	$ 2,931,091	$ 4,589,352	$ 6,245,860	$ 7,505,025	$ 9,521,192	$ 11,292,610	$ 13,159,535	$ 15,124,233
Operations														
100	Salaries & Wages	Labor	$ 69,343,900	$ 71,357,193	$ 74,515,100	$ 75,736,594	$ 81,757,426	$ 84,546,676	$ 88,136,265	$ 91,118,217	$ 94,187,768	$ 96,918,995	$ 99,730,035	$ 102,623,086
200	Services	Other 200	60,348,600	59,381,100	59,373,700	64,537,200	69,784,843	80,109,026	86,151,300	89,726,579	93,450,232	97,328,417	101,367,546	105,574,299
220	Power	Energy	26,994,900	25,714,000	27,845,000	23,265,000	16,596,570	19,505,474	17,408,000	17,930,240	17,930,240	18,019,891	18,200,090	18,382,091
221	Gas	Gas	4,600,000	4,000,000	5,692,000	5,538,900	4,527,170	5,469,000	4,685,000	4,825,550	4,825,550	4,849,678	4,898,175	4,947,156
300	Materials and Supplies	Other 300	17,240,200	17,855,400	18,286,100	19,615,689	19,266,793	20,361,000	20,988,700	21,597,372	22,223,696	22,868,183	23,531,361	24,213,770
307	Chemicals	Chemicals	23,435,500	23,668,950	22,575,800	21,880,928	21,872,905	23,141,000	22,838,000	23,979,900	25,178,895	26,437,840	27,759,732	29,147,718
400	Equipment	Other 400	1,980,700	1,577,800	1,798,000	1,838,140	2,916,897	4,813,000	5,562,500	5,673,750	5,787,225	5,902,970	6,021,029	6,141,449
500	Indemnities	Constant	-	-	-	1,000	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 203,943,800	$ 203,554,443	$ 210,085,700	$ 212,413,451	$ 216,722,604	$ 237,945,176	$ 245,769,765	$ 254,851,608	$ 263,583,606	$ 272,325,973	$ 281,507,967	$ 291,029,570
Planning & Environmental Services														
100	Salaries & Wages	Labor	$ 10,944,400	$ 12,569,537	$ 13,024,700	$ 14,219,367	$ 14,714,696	$ 14,847,000	$ 16,906,740	$ 18,141,035	$ 18,667,549	$ 19,602,694	$ 20,576,895	$ 21,592,087
200	Services	Other 200	19,299,800	22,374,200	25,254,200	23,419,092	16,989,043	20,259,000	21,064,850	21,939,041	22,849,511	23,797,766	24,785,374	25,813,967
300	Materials and Supplies	Other 300	1,179,600	1,349,600	1,408,100	1,747,285	1,428,850	1,912,000	1,588,200	1,634,258	1,681,651	1,730,419	1,780,601	1,832,239
400	Equipment	Other 400	886,400	583,650	853,450	671,513	818,441	938,000	951,000	970,020	989,420	1,009,209	1,029,393	1,049,981
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 32,310,200	$ 36,876,987	$ 40,540,450	$ 40,057,257	$ 33,951,030	$ 37,956,000	$ 40,510,790	$ 42,684,355	$ 44,188,133	$ 46,140,089	$ 48,172,262	$ 50,288,273

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Public Affairs														
100	Salaries & Wages	Labor	$ 2,424,900	$ 2,755,277	$ 2,831,100	$ 2,860,744	$ 5,246,556	$ 4,891,060	$ 5,245,060	$ 5,397,167	$ 5,553,685	$ 5,714,741	$ 5,880,469	$ 6,051,003
200	Services	Other 200	7,767,700	8,712,700	9,013,200	7,848,700	8,740,488	8,428,000	8,565,000	8,920,448	9,290,646	9,676,208	10,077,771	10,495,998
300	Materials and Supplies	Other 300	371,800	372,800	376,300	483,500	539,124	558,000	559,000	575,211	591,892	609,057	626,720	644,895
400	Equipment	Other 400	15,500	15,500	15,500	15,500	15,500	16,000	16,000	16,320	16,646	16,979	17,319	17,665
500	Indemnities	Constant	-	-	-	400,000	500,000	561,000	505,000	505,000	505,000	505,000	505,000	505,000
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 10,579,900	$ 11,856,277	$ 12,236,100	$ 11,608,444	$ 15,041,668	$ 14,454,060	$ 14,890,060	$ 15,414,145	$ 15,957,869	$ 16,521,986	$ 17,107,278	$ 17,714,560
PWD Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 94,023,910	$ 99,059,709	$ 102,961,600	$ 105,288,703	$ 116,470,294	$ 121,515,122	$ 127,354,425	$ 133,271,703	$ 139,337,564	$ 145,241,039	$ 151,371,250	$ 157,734,908
200	Services		99,536,200	104,129,400	106,658,200	110,245,051	109,447,782	123,669,026	130,702,150	136,126,289	141,775,530	147,659,215	153,787,072	160,169,236
220	Power		26,994,900	25,714,000	27,845,000	23,265,000	16,596,570	19,505,474	17,408,000	17,930,240	17,930,240	18,019,891	18,200,090	18,382,091
221	Gas		4,600,000	4,000,000	5,692,000	5,538,900	4,527,170	5,469,000	4,685,000	4,825,550	4,825,550	4,849,678	4,898,175	4,947,156
2xx	SMIP/GARP		5,200,000	10,250,000	11,450,000	16,666,841	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		20,557,000	21,427,550	21,486,050	23,273,627	22,676,710	24,165,000	24,438,400	25,145,142	25,872,379	26,620,706	27,390,734	28,183,093
307	Chemicals		23,435,500	23,668,950	22,575,800	21,880,928	21,872,905	23,141,000	22,838,000	23,979,900	25,178,895	26,437,840	27,759,732	29,147,718
400	Equipment		3,745,500	2,666,850	3,398,350	3,383,014	4,385,178	6,777,000	7,561,500	7,713,108	7,867,759	8,025,515	8,186,437	8,350,589
500	Indemnities		100,000	100,000	100,000	501,000	600,000	671,000	615,000	615,200	615,404	615,612	615,824	616,041
800	Transfers		13,243,100	14,000,000	10,537,000	9,000,000	11,000,000	11,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000
Total PWD Operating and Maintenance Expenses Summary			**$ 291,436,110**	**$ 305,016,459**	**$ 312,704,000**	**$ 319,043,064**	**$ 334,476,609**	**$ 360,912,622**	**$ 369,602,475**	**$ 383,607,132**	**$ 397,403,321**	**$ 411,469,495**	**$ 426,209,314**	**$ 441,530,833**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Actual / Budget			87.5%	89.5%	88.3%	94.1%	93.5%	91.5%	93.7%	93.8%	93.9%	94.0%	94.0%	94.1%

FINPLAN19.XLS

OTHER DEPT O&M

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Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department O&M														**Other Dept O&M - 1**
Division of Technology														
100	Salaries & Wages	Labor	$ 4,621,214	$ 5,233,042	$ 5,416,218	$ 5,893,231	$ 6,236,674	$ 6,502,251	$ 7,263,204	$ 7,473,837	$ 7,690,578	$ 7,913,605	$ 8,143,100	$ 8,379,250
200	Services	Other 200	9,567,462	10,226,939	9,957,749	12,605,190	13,806,992	15,249,284	14,548,667	15,152,437	15,781,263	16,436,185	17,118,287	17,828,696
300	Materials and Supplies	Other 300	944,117	1,609,074	848,074	1,634,654	2,025,326	1,967,863	1,486,310	1,529,413	1,573,766	1,619,405	1,666,368	1,714,693
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology			$ 15,132,793	$ 17,069,055	$ 16,222,041	$ 20,133,075	$ 22,068,992	$ 23,719,398	$ 23,298,181	$ 24,155,687	$ 25,045,607	$ 25,969,195	$ 26,927,754	$ 27,922,638
Mayor's Office of Transportation & Utilities and Office of Sustainability														
100	Salaries & Wages	Labor	$ 208,176	$ 227,983	$ 201,861	$ 202,424	$ 202,424	$ 202,424	$ 202,424	$ 208,294	$ 214,335	$ 220,551	$ 226,947	$ 233,528
200	Services	Other 200	-	-	30,000	29,000	30,000	30,000	30,000	31,245	32,542	33,892	35,299	36,764
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainz			$ 208,176	$ 227,983	$ 231,861	$ 231,424	$ 232,424	$ 232,424	$ 232,424	$ 239,539	$ 246,876	$ 254,443	$ 262,245	$ 270,292
Philadelphia Water, Sewer and Stormwater Rate Board														
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ 3,800	$ 22,404	$ -	$ 42,782	$ 44,023	$ 45,299	$ 46,613	$ 47,965	$ 49,356
200	Services	Other 200	-	-	-	95,851	462,749	-	750,200	781,333	813,759	847,530	882,702	919,334
300	Materials and Supplies	Other 300	-	-	-	-	-	-	25,000	25,725	26,471	27,239	28,029	28,841
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			$ -	$ -	$ -	$ 99,651	$ 485,153	$ -	$ 817,982	$ 851,081	$ 885,529	$ 921,381	$ 958,695	$ 997,531
Public Property														
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases	Property Leases	3,786,428	3,959,919	4,042,633	4,042,633	4,256,817	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property			$ 3,786,428	$ 3,959,919	$ 4,042,633	$ 4,042,633	$ 4,256,817	$ 4,265,847	$ 4,270,347	$ 4,355,754	$ 4,442,869	$ 4,531,726	$ 4,622,361	$ 4,714,808
Fleet Management														
100	Salaries & Wages	Labor	$ 2,521,284	$ 2,602,612	$ 2,526,922	$ 2,925,816	$ 2,891,880	$ 2,909,020	$ 2,910,323	$ 2,994,722	$ 3,081,569	$ 3,170,935	$ 3,262,892	$ 3,357,516
200	Services	Other 200	1,438,785	1,488,271	1,469,209	1,417,465	1,036,762	1,481,230	1,258,996	1,311,244	1,365,661	1,422,336	1,481,363	1,542,839
300	Materials and Supplies	Other 300	4,225,827	4,232,497	3,875,181	3,412,351	3,485,331	3,081,353	3,283,342	3,378,559	3,476,537	3,577,357	3,681,100	3,787,852
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management			$ 8,185,896	$ 8,323,380	$ 7,871,312	$ 7,755,632	$ 7,413,973	$ 7,471,603	$ 7,452,661	$ 7,684,525	$ 7,923,767	$ 8,170,627	$ 8,425,355	$ 8,688,207

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance (020)														
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	Other Benefits	41,044,344	48,293,131	47,276,002	52,651,923	56,886,859	54,912,153	58,605,000	61,692,111	64,568,874	67,482,848	70,444,662	73,464,967
191	Pension	Pension	38,305,052	40,861,335	46,646,526	55,552,438	62,666,813	64,686,954	67,300,000	69,000,000	70,000,000	72,000,000	73,000,000	73,000,000
190	Pension Obligations	Pension Obligations	22,450,403	11,415,451	12,468,686	13,362,362	14,290,585	14,170,375	14,300,000	14,300,000	14,300,000	14,300,000	14,300,000	14,300,000
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	6,036,098	3,840,767	5,440,242	6,952,193	6,279,219	3,316,246	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (020)			$ 107,835,896	$ 104,410,684	$ 111,831,456	$ 128,518,916	$ 140,123,476	$ 137,085,728	$ 144,438,293	$ 149,225,405	$ 153,102,167	$ 158,016,141	$ 161,977,955	$ 164,998,260
City Finance (270)														
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)	Other Benefits	-	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)	Pension	-	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	Pension Obligations	-	-	-	-	-	-	-	-	-	-	-	-
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (270)			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages	Labor	$ 9,701,251	$ 10,013,594	$ 9,948,364	$ 10,844,659	$ 9,735,827	$ 9,791,864	$ 10,554,017	$ 10,860,084	$ 11,175,026	$ 11,499,102	$ 11,832,576	$ 12,175,721
200	Services	Other 200	4,133,603	4,241,117	4,477,102	4,958,726	4,834,053	4,858,989	4,953,405	5,158,972	5,373,069	5,596,051	5,828,287	6,070,161
300	Materials and Supplies	Other 300	688,157	630,784	594,307	831,018	898,556	1,164,755	1,032,053	1,061,982	1,092,780	1,124,470	1,157,080	1,190,635
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	481	1,273	578	120	-	-	0	0	0	0	0	0
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue			$ 14,523,492	$ 14,886,768	$ 15,020,351	$ 16,634,523	$ 15,468,436	$ 15,815,608	$ 16,539,475	$ 17,081,037	$ 17,640,875	$ 18,219,623	$ 18,817,943	$ 19,436,517
Procurement														
100	Salaries & Wages	Labor	$ 62,746	$ 60,866	$ 77,339	$ 85,470	$ 84,412	$ 90,176	$ 100,801	$ 103,724	$ 106,732	$ 109,828	$ 113,013	$ 116,290
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement			$ 62,746	$ 60,866	$ 77,339	$ 85,470	$ 84,412	$ 90,176	$ 100,801	$ 103,724	$ 106,732	$ 109,828	$ 113,013	$ 116,290
Law														
100	Salaries & Wages	Labor	$ 2,192,613	$ 2,137,491	$ 2,085,052	$ 2,369,450	$ 2,381,984	$ 2,569,445	$ 2,506,560	$ 2,579,250	$ 2,654,049	$ 2,731,016	$ 2,810,216	$ 2,891,712
200	Services	Other 200	670,808	309,631	183,651	166,099	471,162	691,440	581,301	605,425	630,550	656,718	683,972	712,357
300	Materials and Supplies	Other 300	16,663	8,002	18,376	36,469	25,753	42,404	34,079	35,067	36,084	37,130	38,207	39,315
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Constant	-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Law			$ 2,880,084	$ 2,455,124	$ 2,287,079	$ 2,572,018	$ 2,878,899	$ 3,303,289	$ 3,121,940	$ 3,219,742	$ 3,320,682	$ 3,424,864	$ 3,532,394	$ 3,643,383

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 19,307,284	$ 20,275,588	$ 20,255,756	$ 22,324,850	$ 21,555,605	$ 22,065,180	$ 23,580,112	$ 24,263,935	$ 24,967,589	$ 25,691,649	$ 26,436,707	$ 27,203,371
1xx	Benefits		41,044,344	48,293,131	47,276,002	52,651,923	56,886,859	54,912,153	58,605,000	61,692,111	64,568,874	67,482,848	70,444,662	73,464,967
191	Pension		38,305,052	40,861,335	46,646,526	55,552,438	62,666,813	64,686,954	67,300,000	69,000,000	70,000,000	72,000,000	73,000,000	73,000,000
190	Pension Obligations		22,450,403	11,415,451	12,468,686	13,362,362	14,290,585	14,170,375	14,300,000	14,300,000	14,300,000	14,300,000	14,300,000	14,300,000
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-	-
200	Services		15,810,658	16,265,958	16,117,711	19,272,331	20,641,718	22,310,943	22,122,569	23,040,656	23,996,843	24,992,712	26,029,910	27,110,151
220	Power		-	-	-	-	-	-	-	-	-	-	-	-
221	Gas		-	-	-	-	-	-	-	-	-	-	-	-
2xx	Services - Property Leases		3,786,428	3,959,919	4,042,633	4,042,633	4,256,817	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies		5,874,764	6,480,357	5,335,938	5,914,492	6,434,966	6,256,375	5,860,783	6,030,746	6,205,637	6,385,601	6,570,783	6,761,336
307	Chemicals		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,036,579	3,842,040	5,440,820	6,952,313	6,279,219	3,316,246	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary			**$ 152,615,511**	**$ 151,393,779**	**$ 157,584,072**	**$ 180,073,342**	**$ 193,012,582**	**$ 191,984,073**	**$ 200,272,104**	**$ 206,916,495**	**$ 212,715,106**	**$ 219,617,830**	**$ 225,637,716**	**$ 230,787,927**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	PWD Direct and Other Department Class 100		**$ 108,902,414**	**$ 118,718,437**	**$ 118,414,751**	**$ 125,010,184**	**$ 132,309,261**	**$ 137,119,099**	**$ 144,363,193**	**$ 148,549,726**	**$ 152,857,668**	**$ 157,290,540**	**$ 161,851,966**	**$ 166,545,673**
	Penion & Benefits/Class 100 Ratio		**93.5%**	**84.7%**	**89.8%**	**97.2%**	**101.2%**	**97.6%**	**97.1%**	**97.6%**	**97.4%**	**97.8%**	**97.5%**	**96.5%**
	Benefits/Class 100 Ratio		**37.7%**	**40.7%**	**39.9%**	**42.1%**	**43.0%**	**40.0%**	**40.6%**	**41.5%**	**42.2%**	**42.9%**	**43.5%**	**44.1%**
	Pension/Class 100 Ratio		**35.2%**	**34.4%**	**39.4%**	**44.4%**	**47.4%**	**47.2%**	**46.6%**	**46.4%**	**45.8%**	**45.8%**	**45.1%**	**43.8%**
	Pension Obligations/Class 100 Ratio		**20.6%**	**9.6%**	**10.5%**	**10.7%**	**10.8%**	**10.3%**	**9.9%**	**9.6%**	**9.4%**	**9.1%**	**8.8%**	**8.6%**
Other Department Operating and Maintenance Expenses Summary - Annual Increase														
100	Salaries & Wages		0.90%	5.02%	-0.10%	10.21%	-3.45%	2.36%	6.87%	2.90%	2.90%	2.90%	2.90%	2.90%
1xx	Benefits		1.67%	17.66%	-2.11%	11.37%	8.04%	-3.47%	6.73%	5.27%	4.66%	4.51%	4.39%	4.29%
191	Pension		7.88%	6.67%	14.16%	19.09%	12.81%	3.22%	4.04%	2.53%	1.45%	2.86%	1.39%	0.00%
190	Pension Obligations		9.77%	-49.15%	9.23%	7.17%	6.95%	-0.84%	0.91%	0.00%	0.00%	0.00%	0.00%	0.00%
1xx (270)	Benefits (270)		0.00%											
191 (270)	Pension (270)		0.00%											
190 (270)	Pension Obligations (270)		0.00%											
200	Services		7.75%	2.88%	-0.91%	19.57%	7.11%	8.09%	-0.84%	4.15%	4.15%	4.15%	4.15%	4.15%
220	Power		0.00%											
221	Gas		0.00%											
2xx	Services - Property Leases		1.26%	4.58%	2.09%	0.00%	5.30%	0.21%	0.11%	2.00%	2.00%	2.00%	2.00%	2.00%
300	Materials and Supplies		13.88%	10.31%	-17.66%	10.84%	8.80%	-2.78%	-6.32%	2.90%	2.90%	2.90%	2.90%	2.90%
307	Chemicals		0.00%											
400	Equipment		0.00%											
500	Indemnities		18.59%	-36.35%	41.61%	27.78%	-9.68%	-47.19%	27.65%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		0.00%											
Total Other Department Operating and Maintenance Expenses Summary - Ar			5.89%	-0.80%	4.09%	14.27%	7.19%	-0.53%	4.32%	3.32%	2.80%	3.25%	2.74%	2.28%

Cost Center/Expense Class		Escalation Reference	Historical					Study Period						
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Other Department Operating and Maintenance Expenses Summary - 2 Year Average Increase														
100	Salaries & Wages				3.07%	4.93%	3.16%	-0.58%	4.59%	4.86%	2.90%	2.90%	2.90%	2.90%
1xx	Benefits				7.18%	4.42%	9.69%	2.12%	1.50%	5.99%	4.96%	4.59%	4.45%	4.34%
191	Pension				6.36%	16.60%	15.91%	7.91%	3.63%	3.28%	1.99%	2.15%	2.12%	0.69%
190	Pension Obligations				8.20%	8.19%	7.06%	2.98%	0.03%	0.46%	0.00%	0.00%	0.00%	0.00%
1xx (270)	Benefits (270)				0.00%									
191 (270)	Pension (270)				0.00%									
190 (270)	Pension Obligations (270)				0.00%									
200	Services				9.12%	8.85%	13.17%	7.59%	3.52%	1.62%	4.15%	4.15%	4.15%	4.15%
220	Power				0.00%									
221	Gas				0.00%									
2xx	Services - Property Leases				2.76%	1.04%	2.61%	2.72%	0.16%	1.05%	2.00%	2.00%	2.00%	2.00%
300	Materials and Supplies				0.51%	-4.47%	9.82%	2.85%	-4.57%	-1.82%	2.90%	2.90%	2.90%	2.90%
307	Chemicals				0.00%									
400	Equipment				0.00%									
500	Indemnities				21.32%	34.52%	7.43%	-30.93%	-17.89%	12.98%	0.00%	0.00%	0.00%	0.00%
800	Transfers				0.00%									
Total Other Department Operating and Maintenance Expenses Summary - 2 Year Average Increase					6.64%	9.06%	10.67%	3.25%	1.86%	3.82%	3.06%	3.02%	2.99%	2.51%

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustments														**Other Dept O&M - 2**
Division of Technology														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	3,200,000	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Division of Technology								$ -	$ 3,200,000	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Public Property														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Public Property								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Fleet Management								$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							-	-	179,000	363,000	374,000	385,000	396,000
191	Pension							-	-	159,000	323,000	332,000	342,000	352,000
190	Pension Obligations							-	-	16,000	32,000	33,000	34,000	35,000
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance								$ -	$ -	$ 354,000	$ 718,000	$ 739,000	$ 761,000	$ 783,000
City Finance (270)														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Revenue								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Procurement														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Procurement								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Law								$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustments Summary														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							-	-	179,000	363,000	374,000	385,000	396,000
191	Pension							-	-	159,000	323,000	332,000	342,000	352,000
190	Pension Obligations							-	-	16,000	32,000	33,000	34,000	35,000
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							-	3,200,000	-	-	-	-	-
220	Power							-	-	-	-	-	-	-
221	Gas							-	-	-	-	-	-	-
2xx	Services - Property Leases							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Total Other Department O&M Adjustments Summary								**$ -**	**$ 3,200,000**	**$ 354,000**	**$ 718,000**	**$ 739,000**	**$ 761,000**	**$ 783,000**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
PWD Adjusted Other Department O&M														**Other Dept O&M - 3**
Division of Technology														
100	Salaries & Wages		$ 4,621,214	$ 5,233,042	$ 5,416,218	$ 5,893,231	$ 6,236,674	$ 6,502,251	$ 7,263,204	$ 7,473,837	$ 7,690,578	$ 7,913,605	$ 8,143,100	$ 8,379,250
200	Services		9,567,462	10,226,939	9,957,749	12,605,190	13,806,992	15,249,284	17,748,667	15,152,437	15,781,263	16,436,185	17,118,287	17,828,696
300	Materials and Supplies		944,117	1,609,074	848,074	1,634,654	2,025,326	1,967,863	1,486,310	1,529,413	1,573,766	1,619,405	1,666,368	1,714,693
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology			$ 15,132,793	$ 17,069,055	$ 16,222,041	$ 20,133,075	$ 22,068,992	$ 23,719,398	$ 26,498,181	$ 24,155,687	$ 25,045,607	$ 25,969,195	$ 26,927,754	$ 27,922,638
Mayor's Office of Transportation & Utilities and Office of Sustainability														
100	Salaries & Wages		$ 208,176	$ 227,983	$ 201,861	$ 202,424	$ 202,424	$ 202,424	$ 202,424	$ 208,294	$ 214,335	$ 220,551	$ 226,947	$ 233,528
200	Services		-	-	30,000	29,000	30,000	30,000	30,000	31,245	32,542	33,892	35,299	36,764
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainz			$ 208,176	$ 227,983	$ 231,861	$ 231,424	$ 232,424	$ 232,424	$ 232,424	$ 239,539	$ 246,876	$ 254,443	$ 262,245	$ 270,292
Philadelphia Water, Sewer and Stormwater Rate Board														
100	Salaries & Wages		$ -	$ -	$ -	$ 3,800	$ 22,404	$ -	$ 42,782	$ 44,023	$ 45,299	$ 46,613	$ 47,965	$ 49,356
200	Services		-	-	-	95,851	462,749	-	750,200	781,333	813,759	847,530	882,702	919,334
300	Materials and Supplies		-	-	-	-	-	-	25,000	25,725	26,471	27,239	28,029	28,841
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			$ -	$ -	$ -	$ 99,651	$ 485,153	$ -	$ 817,982	$ 851,081	$ 885,529	$ 921,381	$ 958,695	$ 997,531
Public Property														
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases		3,786,428	3,959,919	4,042,633	4,042,633	4,256,817	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property			$ 3,786,428	$ 3,959,919	$ 4,042,633	$ 4,042,633	$ 4,256,817	$ 4,265,847	$ 4,270,347	$ 4,355,754	$ 4,442,869	$ 4,531,726	$ 4,622,361	$ 4,714,808
Fleet Management														
100	Salaries & Wages		$ 2,521,284	$ 2,602,612	$ 2,526,922	$ 2,925,816	$ 2,891,880	$ 2,909,020	$ 2,910,323	$ 2,994,722	$ 3,081,569	$ 3,170,935	$ 3,262,892	$ 3,357,516
200	Services		1,438,785	1,488,271	1,469,209	1,417,465	1,036,762	1,481,230	1,258,996	1,311,244	1,365,661	1,422,336	1,481,363	1,542,839
300	Materials and Supplies		4,225,827	4,232,497	3,875,181	3,412,351	3,485,331	3,081,353	3,283,342	3,378,559	3,476,537	3,577,357	3,681,100	3,787,852
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management			$ 8,185,896	$ 8,323,380	$ 7,871,312	$ 7,755,632	$ 7,413,973	$ 7,471,603	$ 7,452,661	$ 7,684,525	$ 7,923,767	$ 8,170,627	$ 8,425,355	$ 8,688,207

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance														
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits		41,044,344	48,293,131	47,276,002	52,651,923	56,886,859	54,912,153	58,605,000	61,871,111	64,931,874	67,856,848	70,829,662	73,860,967
191	Pension		38,305,052	40,861,335	46,646,526	55,552,438	62,666,813	64,686,954	67,300,000	69,159,000	70,323,000	72,332,000	73,342,000	73,352,000
190	Pension Obligations		22,450,403	11,415,451	12,468,686	13,362,362	14,290,585	14,170,375	14,300,000	14,316,000	14,332,000	14,333,000	14,334,000	14,335,000
200	Services		-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,036,098	3,840,767	5,440,242	6,952,193	6,279,219	3,316,246	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance			$ 107,835,896	$ 104,410,684	$ 111,831,456	$ 128,518,916	$ 140,123,476	$ 137,085,728	$ 144,438,293	$ 149,579,405	$ 153,820,167	$ 158,755,141	$ 162,738,955	$ 165,781,260
City Finance (270)														
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-	-
200	Services		-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (270)			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages		$ 9,701,251	$ 10,013,594	$ 9,948,364	$ 10,844,659	$ 9,735,827	$ 9,791,864	$ 10,554,017	$ 10,860,084	$ 11,175,026	$ 11,499,102	$ 11,832,576	$ 12,175,721
200	Services		4,133,603	4,241,117	4,477,102	4,958,726	4,834,053	4,858,989	4,953,405	5,158,972	5,373,069	5,596,051	5,828,287	6,070,161
300	Materials and Supplies		688,157	630,784	594,307	831,018	898,556	1,164,755	1,032,053	1,061,982	1,092,780	1,124,470	1,157,080	1,190,635
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		481	1,273	578	120	-	-	0	0	0	0	0	0
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue			$ 14,523,492	$ 14,886,768	$ 15,020,351	$ 16,634,523	$ 15,468,436	$ 15,815,608	$ 16,539,475	$ 17,081,037	$ 17,640,875	$ 18,219,623	$ 18,817,943	$ 19,436,517
Procurement														
100	Salaries & Wages		$ 62,746	$ 60,866	$ 77,339	$ 85,470	$ 84,412	$ 90,176	$ 100,801	$ 103,724	$ 106,732	$ 109,828	$ 113,013	$ 116,290
200	Services		-	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement			$ 62,746	$ 60,866	$ 77,339	$ 85,470	$ 84,412	$ 90,176	$ 100,801	$ 103,724	$ 106,732	$ 109,828	$ 113,013	$ 116,290
Law														
100	Salaries & Wages		$ 2,192,613	$ 2,137,491	$ 2,085,052	$ 2,369,450	$ 2,381,984	$ 2,569,445	$ 2,506,560	$ 2,579,250	$ 2,654,049	$ 2,731,016	$ 2,810,216	$ 2,891,712
200	Services		670,808	309,631	183,651	166,099	471,162	691,440	581,301	605,425	630,550	656,718	683,972	712,357
300	Materials and Supplies		16,663	8,002	18,376	36,469	25,753	42,404	34,079	35,067	36,084	37,130	38,207	39,315
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Law			$ 2,880,084	$ 2,455,124	$ 2,287,079	$ 2,572,018	$ 2,878,899	$ 3,303,289	$ 3,121,940	$ 3,219,742	$ 3,320,682	$ 3,424,864	$ 3,532,394	$ 3,643,383

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 19,307,284	$ 20,275,588	$ 20,255,756	$ 22,324,850	$ 21,555,605	$ 22,065,180	$ 23,580,112	$ 24,263,935	$ 24,967,589	$ 25,691,649	$ 26,436,707	$ 27,203,371
1xx	Benefits		41,044,344	48,293,131	47,276,002	52,651,923	56,886,859	54,912,153	58,605,000	61,871,111	64,931,874	67,856,848	70,829,662	73,860,967
191	Pension		38,305,052	40,861,335	46,646,526	55,552,438	62,666,813	64,686,954	67,300,000	69,159,000	70,323,000	72,332,000	73,342,000	73,352,000
190	Pension Obligations		22,450,403	11,415,451	12,468,686	13,362,362	14,290,585	14,170,375	14,300,000	14,316,000	14,332,000	14,333,000	14,334,000	14,335,000
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-	-
200	Services		15,810,658	16,265,958	16,117,711	19,272,331	20,641,718	22,310,943	25,322,569	23,040,656	23,996,843	24,992,712	26,029,910	27,110,151
220	Power		-	-	-	-	-	-	-	-	-	-	-	-
221	Gas		-	-	-	-	-	-	-	-	-	-	-	-
2xx	Services - Property Leases		3,786,428	3,959,919	4,042,633	4,042,633	4,256,817	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies		5,874,764	6,480,357	5,335,938	5,914,492	6,434,966	6,256,375	5,860,783	6,030,746	6,205,637	6,385,601	6,570,783	6,761,336
307	Chemicals		-	-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,036,579	3,842,040	5,440,820	6,952,313	6,279,219	3,316,246	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293
800	Transfers		-	-	-	-	-	-	-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary			**$ 152,615,511**	**$ 151,393,779**	**$ 157,584,072**	**$ 180,073,342**	**$ 193,012,582**	**$ 191,984,073**	**$ 203,472,104**	**$ 207,270,495**	**$ 213,433,106**	**$ 220,356,830**	**$ 226,398,716**	**$ 231,570,927**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Direct and Other Department Class 100		**$ 108,902,414**	**$ 118,718,437**	**$ 118,414,751**	**$ 125,010,184**	**$ 132,309,261**	**$ 137,119,099**	**$ 147,363,193**	**$ 153,860,726**	**$ 160,523,668**	**$ 167,041,540**	**$ 173,803,966**	**$ 180,818,173**
	Penion & Benefits/Class 100 Ratio		**93.5%**	**84.7%**	**89.8%**	**97.2%**	**101.2%**	**97.6%**	**95.1%**	**94.5%**	**93.2%**	**92.5%**	**91.2%**	**89.3%**
	Benefits/Class 100 Ratio		**37.7%**	**40.7%**	**39.9%**	**42.1%**	**43.0%**	**40.0%**	**39.8%**	**40.2%**	**40.5%**	**40.6%**	**40.8%**	**40.8%**
	Pension/Class 100 Ratio		**35.2%**	**34.4%**	**39.4%**	**44.4%**	**47.4%**	**47.2%**	**45.7%**	**44.9%**	**43.8%**	**43.3%**	**42.2%**	**40.6%**
	Pension Obligations/Class 100 Ratio		**20.6%**	**9.6%**	**10.5%**	**10.7%**	**10.8%**	**10.3%**	**9.7%**	**9.3%**	**8.9%**	**8.6%**	**8.2%**	**7.9%**
Other Department Operating and Maintenance Expenses Summary - Annual Increase														
100	Salaries & Wages		0.90%	5.02%	-0.10%	10.21%	-3.45%	2.36%	6.87%	2.90%	2.90%	2.90%	2.90%	2.90%
1xx	Benefits		1.67%	17.66%	-2.11%	11.37%	8.04%	-3.47%	6.73%	5.57%	4.95%	4.50%	4.38%	4.28%
191	Pension		7.88%	6.67%	14.16%	19.09%	12.81%	3.22%	4.04%	2.76%	1.68%	2.86%	1.40%	0.01%
190	Pension Obligations		9.77%	-49.15%	9.23%	7.17%	6.95%	-0.84%	0.91%	0.11%	0.11%	0.01%	0.01%	0.01%
1xx (270)	Benefits (270)		0.00%											
191 (270)	Pension (270)		0.00%											
190 (270)	Pension Obligations (270)		0.00%											
200	Services		7.75%	2.88%	-0.91%	19.57%	7.11%	8.09%	13.50%	-9.01%	4.15%	4.15%	4.15%	4.15%
220	Power		0.00%											
221	Gas		0.00%											
2xx	Services - Property Leases		1.26%	4.58%	2.09%	0.00%	5.30%	0.21%	0.11%	2.00%	2.00%	2.00%	2.00%	2.00%
300	Materials and Supplies		13.88%	10.31%	-17.66%	10.84%	8.80%	-2.78%	-6.32%	2.90%	2.90%	2.90%	2.90%	2.90%
307	Chemicals		0.00%											
400	Equipment		0.00%											
500	Indemnities		18.59%	-36.35%	41.61%	27.78%	-9.68%	-47.19%	27.65%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		0.00%											
Total Other Department Operating and Maintenance Expenses Summary - Ar			5.89%	-0.80%	4.09%	14.27%	7.19%	-0.53%	5.98%	1.87%	2.97%	3.24%	2.74%	2.28%

Cost Center/Expense Class	Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water System Other Department O&M													**Other Dept O&M - 4**
Division of Technology													
100	Salaries & Wages						$ 3,586,136	$ 4,005,819	$ 4,121,988	$ 4,241,526	$ 4,364,530	$ 4,491,101	$ 4,621,343
200	Services						7,779,279	9,054,315	7,729,873	8,050,662	8,384,765	8,732,733	9,095,141
300	Materials and Supplies						1,131,169	854,362	879,138	904,634	930,868	957,863	985,641
400	Equipment						-	-	-	-	-	-	-
500	Indemnities						-	-	-	-	-	-	-
800	Transfers						-	-	-	-	-	-	-
Subtotal Division of Technology							$ 12,496,584	$ 13,914,496	$ 12,730,999	$ 13,196,822	$ 13,680,163	$ 14,181,697	$ 14,702,125
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages						$ 72,873	$ 72,873	$ 74,986	$ 77,161	$ 79,398	$ 81,701	$ 84,070
200	Services						10,800	10,800	11,248	11,715	12,201	12,708	13,235
300	Materials and Supplies						-	-	-	-	-	-	-
400	Equipment						-	-	-	-	-	-	-
500	Indemnities						-	-	-	-	-	-	-
800	Transfers						-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability							$ 83,673	$ 83,673	$ 86,234	$ 88,876	$ 91,599	$ 94,409	$ 97,305
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages						$ -	$ 15,402	$ 15,848	$ 16,308	$ 16,781	$ 17,267	$ 17,768
200	Services						-	270,072	281,280	292,953	305,111	317,773	330,960
300	Materials and Supplies						-	9,000	9,261	9,530	9,806	10,090	10,383
400	Equipment						-	-	-	-	-	-	-
500	Indemnities						-	-	-	-	-	-	-
800	Transfers						-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board							$ -	$ 294,474	$ 306,389	$ 318,791	$ 331,698	$ 345,130	$ 359,111
Public Property													
100	Salaries & Wages						$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases						1,535,705	1,537,325	1,568,071	1,599,433	1,631,422	1,664,050	1,697,331
300	Materials and Supplies						-	-	-	-	-	-	-
400	Equipment						-	-	-	-	-	-	-
500	Indemnities						-	-	-	-	-	-	-
800	Transfers						-	-	-	-	-	-	-
Subtotal Public Property							$ 1,535,705	$ 1,537,325	$ 1,568,071	$ 1,599,433	$ 1,631,422	$ 1,664,050	$ 1,697,331
Fleet Management													
100	Salaries & Wages						$ 1,047,247	$ 1,047,716	$ 1,078,100	$ 1,109,365	$ 1,141,536	$ 1,174,641	$ 1,208,706
200	Services						533,243	453,239	472,048	491,638	512,041	533,291	555,422
300	Materials and Supplies						1,109,287	1,182,003	1,216,281	1,251,553	1,287,848	1,325,196	1,363,627
400	Equipment						-	-	-	-	-	-	-
500	Indemnities						-	-	-	-	-	-	-
800	Transfers						-	-	-	-	-	-	-
Subtotal Fleet Management							$ 2,689,777	$ 2,682,958	$ 2,766,429	$ 2,852,556	$ 2,941,425	$ 3,033,128	$ 3,127,755

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							21,796,227	23,981,688	25,196,530	26,367,613	27,526,749	28,703,465	29,902,030
191	Pension							25,676,129	27,539,760	28,164,466	28,556,848	29,342,135	29,721,581	29,695,979
190	Pension Obligations							5,624,633	5,851,687	5,830,080	5,819,956	5,814,312	5,808,802	5,803,412
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							1,227,011	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance								$ 54,324,000	$ 58,939,454	$ 60,757,395	$ 62,310,736	$ 64,249,515	$ 65,800,167	$ 66,967,740
City Finance (270)														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages							$ 3,270,483	$ 3,525,042	$ 3,627,268	$ 3,732,459	$ 3,840,700	$ 3,952,080	$ 4,066,691
200	Services							1,622,902	1,654,437	1,723,096	1,794,605	1,869,081	1,946,648	2,027,434
300	Materials and Supplies							389,028	344,706	354,702	364,988	375,573	386,465	397,672
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Revenue								$ 5,282,413	$ 5,524,185	$ 5,705,066	$ 5,892,052	$ 6,085,354	$ 6,285,193	$ 6,491,797
Procurement														
100	Salaries & Wages							$ 32,463	$ 36,288	$ 37,341	$ 38,424	$ 39,538	$ 40,685	$ 41,864
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Procurement								$ 32,463	$ 36,288	$ 37,341	$ 38,424	$ 39,538	$ 40,685	$ 41,864
Law														
100	Salaries & Wages							$ 950,695	$ 927,427	$ 954,323	$ 981,998	$ 1,010,476	$ 1,039,780	$ 1,069,933
200	Services							255,833	215,081	224,007	233,304	242,986	253,070	263,572
300	Materials and Supplies							15,689	12,609	12,975	13,351	13,738	14,137	14,547
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Law								$ 1,222,217	$ 1,155,117	$ 1,191,305	$ 1,228,653	$ 1,267,200	$ 1,306,987	$ 1,348,052

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Water System Operating and Maintenance Expenses Summary														
100	Salaries & Wages							$ 8,959,897	$ 9,630,567	$ 9,909,854	$ 10,197,241	$ 10,492,959	$ 10,797,255	$ 11,110,375
1xx	Benefits							21,796,227	23,981,688	25,196,530	26,367,613	27,526,749	28,703,465	29,902,030
191	Pension							25,676,129	27,539,760	28,164,466	28,556,848	29,342,135	29,721,581	29,695,979
190	Pension Obligations							5,624,633	5,851,687	5,830,080	5,819,956	5,814,312	5,808,802	5,803,412
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							10,202,057	11,657,944	10,441,552	10,874,877	11,326,185	11,796,223	12,285,764
220	Power							-	-	-	-	-	-	-
221	Gas							-	-	-	-	-	-	-
2xx	Services - Property Leases							1,535,705	1,537,325	1,568,071	1,599,433	1,631,422	1,664,050	1,697,331
300	Materials and Supplies							2,645,173	2,402,680	2,472,357	2,544,056	2,617,833	2,693,751	2,771,870
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							1,227,011	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319
800	Transfers							-	-	-	-	-	-	-
Total Water System Operating and Maintenance Expenses Summary								**$ 77,666,832**	**$ 84,167,970**	**$ 85,149,229**	**$ 87,526,343**	**$ 90,317,914**	**$ 92,751,446**	**$ 94,833,080**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Wastewater System Other Department O&M														**Other Dept O&M - 5**
Division of Technology														
100	Salaries & Wages							$ 2,916,115	$ 3,257,385	$ 3,351,849	$ 3,449,052	$ 3,549,075	$ 3,651,999	$ 3,757,907
200	Services							7,470,005	8,694,352	7,422,564	7,730,601	8,051,420	8,385,554	8,733,555
300	Materials and Supplies							836,694	631,948	650,275	669,132	688,537	708,505	729,052
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							0	0	0	0	0	0	0
Subtotal Division of Technology								$ 11,222,814	$ 12,583,685	$ 11,424,688	$ 11,848,785	$ 12,289,032	$ 12,746,057	$ 13,220,513
										x				
Mayor's Office of Transportation & Utilities and Office of Sustainability														
100	Salaries & Wages							$ 129,551	$ 129,551	$ 133,308	$ 137,174	$ 141,153	$ 145,246	$ 149,458
200	Services							19,200	19,200	19,997	20,827	21,691	22,591	23,529
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ 148,751	$ 148,751	$ 153,305	$ 158,000	$ 162,844	$ 167,836	$ 172,987
										x				
Philadelphia Water, Sewer and Stormwater Rate Board														
100	Salaries & Wages							$ -	$ 27,380	$ 28,175	$ 28,991	$ 29,832	$ 30,698	$ 31,588
200	Services							-	480,128	500,053	520,806	542,419	564,929	588,374
300	Materials and Supplies							-	16,000	16,464	16,941	17,433	17,939	18,458
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ -	$ 523,508	$ 544,692	$ 566,738	$ 589,683	$ 613,565	$ 638,420
Public Property														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases							2,730,142	2,733,022	2,787,683	2,843,436	2,900,304	2,958,311	3,017,477
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Public Property								$ 2,730,142	$ 2,733,022	$ 2,787,683	$ 2,843,436	$ 2,900,304	$ 2,958,311	$ 3,017,477
										x				
Fleet Management														
100	Salaries & Wages							$ 1,861,773	$ 1,862,607	$ 1,916,622	$ 1,972,204	$ 2,029,399	$ 2,088,251	$ 2,148,810
200	Services							947,987	805,757	839,196	874,023	910,295	948,072	987,417
300	Materials and Supplies							1,972,066	2,101,339	2,162,278	2,224,984	2,289,509	2,355,904	2,424,225
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Fleet Management								$ 4,781,826	$ 4,769,703	$ 4,918,096	$ 5,071,211	$ 5,229,202	$ 5,392,227	$ 5,560,452
										x				

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							33,115,926	34,623,312	36,674,581	38,564,261	40,330,099	42,126,197	43,958,937
191	Pension							39,010,825	39,760,240	40,994,534	41,766,152	42,989,865	43,620,419	43,656,021
190	Pension Obligations							8,545,742	8,448,313	8,485,920	8,512,044	8,518,688	8,525,198	8,531,588
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							2,089,235	2,666,974	2,666,974	2,666,974	2,666,974	2,666,974	2,666,974
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance								$ 82,761,728	$ 85,498,839	$ 88,822,010	$ 91,509,431	$ 94,505,626	$ 96,938,788	$ 98,813,520
City Finance (270)														
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages							$ 6,521,381	$ 7,028,975	$ 7,232,816	$ 7,442,567	$ 7,658,402	$ 7,880,496	$ 8,109,030
200	Services							3,236,087	3,298,968	3,435,876	3,578,464	3,726,970	3,881,639	4,042,727
300	Materials and Supplies							775,727	687,347	707,280	727,792	748,897	770,615	792,963
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	0	0	0	0	0	0
800	Transfers							-	-	-	-	-	-	-
Subtotal Revenue								$ 10,533,195	$ 11,015,290	$ 11,375,971	$ 11,748,823	$ 12,134,269	$ 12,532,750	$ 12,944,720
										x				
Procurement														
100	Salaries & Wages							$ 57,713	$ 64,513	$ 66,383	$ 68,308	$ 70,290	$ 72,328	$ 74,426
200	Services							-	-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Procurement								$ 57,713	$ 64,513	$ 66,383	$ 68,308	$ 70,290	$ 72,328	$ 74,426
										x				
Law														
100	Salaries & Wages							$ 1,618,750	$ 1,579,133	$ 1,624,927	$ 1,672,051	$ 1,720,540	$ 1,770,436	$ 1,821,779
200	Services							435,607	366,220	381,418	397,246	413,732	430,902	448,785
300	Materials and Supplies							26,715	21,470	22,092	22,733	23,392	24,070	24,768
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-	-
Subtotal Law								$ 2,081,072	$ 1,966,823	$ 2,028,437	$ 2,092,029	$ 2,157,664	$ 2,225,407	$ 2,295,331
										x				

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Wastewater System Other Department O&M Summary														
100	Salaries & Wages							$ 13,105,283	$ 13,949,545	$ 14,354,081	$ 14,770,348	$ 15,198,690	$ 15,639,452	$ 16,092,996
1xx	Benefits							33,115,926	34,623,312	36,674,581	38,564,261	40,330,099	42,126,197	43,958,937
191	Pension							39,010,825	39,760,240	40,994,534	41,766,152	42,989,865	43,620,419	43,656,021
190	Pension Obligations							8,545,742	8,448,313	8,485,920	8,512,044	8,518,688	8,525,198	8,531,588
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							12,108,886	13,664,625	12,599,104	13,121,966	13,666,527	14,233,687	14,824,387
220	Power							-	-	-	-	-	-	-
221	Gas							-	-	-	-	-	-	-
2xx	Services - Property Leases							2,730,142	2,733,022	2,787,683	2,843,436	2,900,304	2,958,311	3,017,477
300	Materials and Supplies							3,611,202	3,458,103	3,558,389	3,661,581	3,767,768	3,877,032	3,989,466
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							2,089,235	2,666,974	2,666,974	2,666,974	2,666,974	2,666,974	2,666,974
800	Transfers							-	-	-	-	-	-	-
Total Wastewater System Other Department O&M Summary								**$ 114,317,241**	**$ 119,304,134**	**$ 122,121,266**	**$ 125,906,763**	**$ 130,038,916**	**$ 133,647,270**	**$ 136,737,847**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
PWD Projected Other Department O&M Budget														**Other Dept O&M - 6**
Division of Technology														
100	Salaries & Wages	Labor						$ 8,003,747	$ 8,700,632	$ 8,952,950	$ 9,212,586	$ 9,479,751	$ 9,754,664	$ 10,037,549
200	Services	Other 200						20,930,724	20,015,542	20,846,187	21,711,304	22,612,323	23,550,734	24,528,090
300	Materials and Supplies	Other 300						3,032,350	2,133,850	2,195,732	2,259,408	2,324,931	2,392,354	2,461,732
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Division of Technology								$ 31,966,821	$ 30,850,024	$ 31,994,869	$ 33,183,298	$ 34,417,004	$ 35,697,752	$ 37,027,371
Mayor's Office of Transportation & Utilities and Office of Sustainability														
100	Salaries & Wages	Labor						$ 202,424	$ 202,424	$ 208,294	$ 214,335	$ 220,551	$ 226,947	$ 233,528
200	Services	Other 200						30,000	30,000	31,245	32,542	33,892	35,299	36,764
300	Materials and Supplies	Other 300						-	-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ 232,424	$ 232,424	$ 239,539	$ 246,876	$ 254,443	$ 262,245	$ 270,292
Philadelphia Water, Sewer and Stormwater Rate Board														
100	Salaries & Wages	Labor						$ 40,000	$ 42,782	$ 44,023	$ 45,299	$ 46,613	$ 47,965	$ 49,356
200	Services	Other 200						500,000	750,200	781,333	813,759	847,530	882,702	919,334
300	Materials and Supplies	Other 300						25,000	25,000	25,725	26,471	27,239	28,029	28,841
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ 565,000	$ 817,982	$ 851,081	$ 885,529	$ 921,381	$ 958,695	$ 997,531
Public Property														
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases	Property Leases						4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies	Other 300						-	-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Public Property								$ 4,265,847	$ 4,270,347	$ 4,355,754	$ 4,442,869	$ 4,531,726	$ 4,622,361	$ 4,714,808
Fleet Management														
100	Salaries & Wages	Labor						$ 3,083,114	$ 3,083,114	$ 3,172,524	$ 3,264,528	$ 3,359,199	$ 3,456,616	$ 3,556,857
200	Services	Other 200						1,489,000	1,489,000	1,550,794	1,615,151	1,682,180	1,751,991	1,824,698
300	Materials and Supplies	Other 300						4,274,640	4,274,640	4,398,605	4,526,164	4,657,423	4,792,488	4,931,470
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Fleet Management								$ 8,846,754	$ 8,846,754	$ 9,121,922	$ 9,405,843	$ 9,698,802	$ 10,001,094	$ 10,313,026

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
City Finance														
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	Other Benefits						62,155,000	65,839,194	69,486,378	72,902,248	76,186,922	79,525,342	82,929,473
191	Pension	Pension						64,881,002	67,300,000	69,159,000	70,323,000	72,332,000	73,342,000	73,352,000
190	Pension Obligations	Pension Obligations						14,150,000	14,300,000	14,316,000	14,332,000	14,333,000	14,334,000	14,335,000
200	Services	Other 200						-	-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						8,500,000	7,500,000	7,500,000	7,500,000	7,500,000	7,500,000	7,500,000
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal City Finance								$ 149,686,002	$ 154,939,194	$ 160,461,378	$ 165,057,248	$ 170,351,922	$ 174,701,342	$ 178,116,473
City Finance (270)														
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)	Other Benefits						-	-	-	-	-	-	-
191 (270)	Pension (270)	Pension						-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	Pension Obligations						-	-	-	-	-	-	-
200	Services	Other 200						-	-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue														
100	Salaries & Wages	Labor						$ 10,358,907	$ 10,873,116	$ 11,188,436	$ 11,512,901	$ 11,846,775	$ 12,190,332	$ 12,543,851
200	Services	Other 200						5,059,000	5,165,000	5,379,348	5,602,590	5,835,098	6,077,254	6,329,461
300	Materials and Supplies	Other 300						1,429,500	1,429,500	1,470,956	1,513,613	1,557,508	1,602,676	1,649,153
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						5,000	5,000	5,000	5,000	5,000	5,000	5,000
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Revenue								$ 16,852,407	$ 17,472,616	$ 18,043,739	$ 18,634,105	$ 19,244,381	$ 19,875,262	$ 20,527,465
Procurement														
100	Salaries & Wages	Labor						$ 93,093	$ 105,285	$ 108,338	$ 111,480	$ 114,713	$ 118,040	$ 121,463
200	Services	Other 200						-	-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Procurement								$ 93,093	$ 105,285	$ 108,338	$ 111,480	$ 114,713	$ 118,040	$ 121,463
Law														
100	Salaries & Wages	Labor						$ 2,569,445	$ 2,569,445	$ 2,643,959	$ 2,720,634	$ 2,799,532	$ 2,880,719	$ 2,964,259
200	Services	Other 200						691,614	691,614	720,316	750,209	781,343	813,768	847,540
300	Materials and Supplies	Other 300						43,010	43,010	44,257	45,541	46,861	48,220	49,619
400	Equipment	Other 400						-	-	-	-	-	-	-
500	Indemnities	Constant						-	-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-	-
Subtotal Law								$ 3,304,069	$ 3,304,069	$ 3,408,532	$ 3,516,384	$ 3,627,736	$ 3,742,707	$ 3,861,418

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Other Department Operating and Maintenance Expenses Summary														
100	Salaries & Wages							$ 24,350,730	$ 25,576,798	$ 26,318,525	$ 27,081,762	$ 27,867,133	$ 28,675,280	$ 29,506,863
1xx	Benefits							62,155,000	65,839,194	69,486,378	72,902,248	76,186,922	79,525,342	82,929,473
191	Pension							64,881,002	67,300,000	69,159,000	70,323,000	72,332,000	73,342,000	73,352,000
190	Pension Obligations							14,150,000	14,300,000	14,316,000	14,332,000	14,333,000	14,334,000	14,335,000
1xx (270)	Benefits (270)							-	-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-	-
200	Services							28,700,338	28,141,356	29,309,222	30,525,555	31,792,366	33,111,749	34,485,886
220	Power							-	-	-	-	-	-	-
221	Gas							-	-	-	-	-	-	-
2xx	Services - Property Leases							4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
300	Materials and Supplies							8,804,500	7,906,000	8,135,274	8,371,197	8,613,962	8,863,767	9,120,816
307	Chemicals							-	-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-	-
500	Indemnities							8,505,000	7,505,000	7,505,000	7,505,000	7,505,000	7,505,000	7,505,000
800	Transfers							-	-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary								**$ 215,812,417**	**$ 220,838,695**	**$ 228,585,153**	**$ 235,483,631**	**$ 243,162,109**	**$ 249,979,499**	**$ 255,949,847**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Actual/Budget								**89.0%**	**92.1%**	**90.7%**	**90.6%**	**90.6%**	**90.6%**	**90.5%**
	Class 100 - Direct & Other Departments							**$ 145,865,852**	**$ 152,931,223**	**$ 159,590,228**	**$ 166,419,326**	**$ 173,108,173**	**$ 180,046,531**	**$ 187,241,772**
	Pension & Benefits/Class 100 Ratio (Excludes 270 Benefits)							**96.8%**	**96.4%**	**95.8%**	**94.7%**	**94.1%**	**92.9%**	**91.1%**

Cost Center/Expense Class		Escalation Reference	Historical 2014	2015	2016	2017	2018	Study Period 2019	2020	2021	2022	2023	2024	2025
Total PWD Projected O&M (Direct and Other Departments)														**Other Dept O&M - 7**
PWD Operating and Maintenance Expenses Summary														
100	Salaries & Wages		$ 108,902,414	$ 118,718,437	$ 118,414,751	$ 125,010,184	$ 132,309,261	$ 137,119,099	$ 147,363,193	$ 153,860,726	$ 160,523,668	$ 167,041,540	$ 173,803,966	$ 180,818,173
1xx	Benefits		41,044,344	48,293,131	47,276,002	52,651,923	56,886,859	54,912,153	58,605,000	61,871,111	64,931,874	67,856,848	70,829,662	73,860,967
191	Pension		38,305,052	40,861,335	46,646,526	55,552,438	62,666,813	64,686,954	67,300,000	69,159,000	70,323,000	72,332,000	73,342,000	73,352,000
190	Pension Obligations		22,450,403	11,415,451	12,468,686	13,362,362	14,290,585	14,170,375	14,300,000	14,316,000	14,332,000	14,333,000	14,334,000	14,335,000
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-	-
200	Services		99,871,258	107,412,392	106,570,050	127,171,308	125,564,692	137,941,220	149,187,061	152,045,524	158,355,413	164,927,162	171,771,640	178,900,163
220	Power		21,440,579	20,427,534	20,071,556	18,252,847	15,002,114	13,854,363	13,914,269	14,331,697	14,331,697	14,403,356	14,547,389	14,692,863
221	Gas		3,561,029	4,190,988	4,013,404	3,176,528	3,855,757	5,452,000	3,987,411	4,107,034	4,107,034	4,127,569	4,168,845	4,210,533
2xx	Services - Property Leases		3,786,428	3,959,919	4,042,633	4,042,633	4,256,817	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808
2xx	SMIP/GARP		5,020,143	11,598,134	15,000,000	15,000,000	26,900,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		22,546,905	23,180,707	22,505,723	25,773,136	25,210,739	25,953,178	25,959,774	26,712,607	27,487,273	28,284,404	29,104,651	29,948,686
307	Chemicals		24,446,114	22,324,969	21,075,520	18,728,508	21,771,176	22,115,310	22,265,999	23,379,299	24,548,264	25,775,677	27,064,461	28,417,684
400	Equipment		2,419,659	1,849,016	1,992,145	2,120,160	3,094,873	4,839,384	5,392,861	5,500,718	5,610,733	5,722,948	5,837,406	5,954,155
500	Indemnities		6,036,579	3,842,040	5,440,820	7,352,313	6,779,219	3,816,246	4,709,259	4,709,259	4,709,259	4,709,259	4,709,259	4,709,259
800	Transfers		7,714,419	6,244,621	8,100,186	12,097,064	7,319,325	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152
Total PWD Operating and Maintenance Expenses Summary			**$ 407,545,325**	**$ 424,318,674**	**$ 433,618,002**	**$ 480,291,404**	**$ 505,908,230**	**$ 522,178,881**	**$ 549,941,174**	**$ 567,103,903**	**$ 586,528,054**	**$ 606,940,884**	**$ 627,102,094**	**$ 646,952,443**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Benefit to Salary Ratios (Excludes 270 Benefits)													
	Total Pension & Benefits/Class 100 Ratio		**93.5%**	**84.7%**	**89.8%**	**97.2%**	**101.2%**	**97.6%**	**95.1%**	**94.5%**	**93.2%**	**92.5%**	**91.2%**	**89.3%**
	Benefits / Class 100 Ratio		**37.7%**	**40.7%**	**39.9%**	**42.1%**	**43.0%**	**40.0%**	**39.8%**	**40.2%**	**40.5%**	**40.6%**	**40.8%**	**40.8%**
	Pension / Class 100 Ratio		**35.2%**	**34.4%**	**39.4%**	**44.4%**	**47.4%**	**47.2%**	**45.7%**	**44.9%**	**43.8%**	**43.3%**	**42.2%**	**40.6%**
	Pension Obligation / Class 100 Ratio		**20.6%**	**9.6%**	**10.5%**	**10.7%**	**10.8%**	**10.3%**	**9.7%**	**9.3%**	**8.9%**	**8.6%**	**8.2%**	**7.9%**
PWD Operating and Maintenance Expenses Summary - Annual Increase														
100	Salaries & Wages			9.01%	-0.26%	5.57%	5.84%	3.64%	7.47%	4.41%	4.33%	4.06%	4.05%	4.04%
1xx	Benefits			17.66%	-2.11%	11.37%	8.04%	-3.47%	6.73%	5.57%	4.95%	4.50%	4.38%	4.28%
191	Pension			6.67%	14.16%	19.09%	12.81%	3.22%	4.04%	2.76%	1.68%	2.86%	1.40%	0.01%
190	Pension Obligations			-49.15%	9.23%	7.17%	6.95%	-0.84%	0.91%	0.11%	0.11%	0.01%	0.01%	0.01%
1xx (270)	Benefits (270)													
191 (270)	Pension (270)													
190 (270)	Pension Obligations (270)													
200	Services			7.55%	-0.78%	19.33%	-1.26%	9.86%	8.15%	1.92%	4.15%	4.15%	4.15%	4.15%
220	Power			-4.72%	-1.74%	-9.06%	-17.81%	-7.65%	0.43%	3.00%	0.00%	0.50%	1.00%	1.00%
221	Gas			17.69%	-4.24%	-20.85%	21.38%	41.40%	-26.86%	3.00%	0.00%	0.50%	1.00%	1.00%
2xx	Services - Property Leases			4.58%	2.09%	0.00%	5.30%	0.21%	0.11%	2.00%	2.00%	2.00%	2.00%	2.00%
2xx	SMIP/GARP			131.03%	29.33%	0.00%	79.33%	-7.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies			2.81%	-2.91%	14.52%	-2.18%	2.94%	0.03%	2.90%	2.90%	2.90%	2.90%	2.90%
307	Chemicals			-8.68%	-5.60%	-11.14%	16.25%	1.58%	0.68%	5.00%	5.00%	5.00%	5.00%	5.00%
400	Equipment			-23.58%	7.74%	6.43%	45.97%	56.37%	11.44%	2.00%	2.00%	2.00%	2.00%	2.00%
500	Indemnities			-36.35%	41.61%	35.13%	-7.79%	-43.71%	23.40%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers			-19.05%	29.71%	49.34%	-39.50%	10.02%	-4.55%	0.90%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase				4.12%	2.19%	10.76%	5.33%	3.22%	5.32%	3.12%	3.43%	3.48%	3.32%	3.17%

Cost Center/Expense Class		Escalation Reference	Historical					Study Period						
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase														
100	Salaries & Wages				4.28%	2.62%	5.70%	4.73%	5.54%	5.93%	4.37%	4.20%	4.05%	4.04%
1xx	Benefits				7.32%	4.42%	9.69%	2.12%	1.50%	6.15%	5.26%	4.73%	4.44%	4.33%
191	Pension				10.35%	16.60%	15.91%	7.91%	3.63%	3.40%	2.22%	2.27%	2.12%	0.70%
190	Pension Obligations				-25.48%	8.19%	7.06%	2.98%	0.03%	0.51%	0.11%	0.06%	0.01%	0.01%
1xx (270)	Benefits (270)													
191 (270)	Pension (270)													
190 (270)	Pension Obligations (270)													
200	Services				3.30%	8.81%	8.55%	4.15%	9.00%	4.99%	3.03%	4.15%	4.15%	4.15%
220	Power				-3.25%	-5.47%	-13.55%	-12.88%	-3.69%	1.71%	1.49%	0.25%	0.75%	1.00%
221	Gas				6.16%	-12.94%	-1.98%	31.01%	1.69%	-13.21%	1.49%	0.25%	0.75%	1.00%
2xx	Services - Property Leases				3.33%	1.04%	2.61%	2.72%	0.16%	1.05%	2.00%	2.00%	2.00%	2.00%
2xx	SMIP/GARP				72.86%	13.72%	33.92%	29.10%	-3.60%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies				-0.09%	5.44%	5.84%	0.35%	1.47%	1.45%	2.90%	2.90%	2.90%	2.90%
307	Chemicals				-7.15%	-8.41%	1.64%	8.67%	1.13%	2.82%	5.00%	5.00%	5.00%	5.00%
400	Equipment				-9.26%	7.08%	24.64%	51.08%	32.00%	6.61%	2.00%	2.00%	2.00%	2.00%
500	Indemnities				-5.06%	38.33%	11.62%	-27.95%	-16.65%	11.09%	0.00%	0.00%	0.00%	0.00%
800	Transfers				2.47%	39.18%	-4.94%	-18.41%	2.47%	-1.87%	0.90%	0.90%	0.90%	0.90%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					3.15%	6.39%	8.01%	4.27%	4.26%	4.21%	3.27%	3.45%	3.40%	3.24%

FINPLAN19.XLS

O&M ADJUSTMENTS

Index	Description	Table
O&M Adjustments	**O&M Adjustments Worksheet**	
OM Adjustments - 1	O&M Adj 1 - Direct O&M Adjustments	
OM Adjustments - 2	O&M Adj 2 - Direct O&M Adjustments	
OM Adjustments - 3	O&M Adj 3 - Direct O&M Adjustments	
OM Adjustments - 4	O&M Adj 4 - Direct O&M Adjustments	
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OM Adjustments - 6	O&M Adj 6 - Direct O&M Adjustments	
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OM Adjustments - 22	O&M Adj 11 - Other Dept O&M Adjustments	

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Direct O&M								
O&M Adj 1	**Additional GSI Maintenance Staffing**							**OM Adjustments - 1**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages	$ -	$ -	$ 426,000	$ 865,000	$ 890,000	$ 916,000	$ 943,000
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ 426,000	$ 865,000	$ 890,000	$ 916,000	$ 943,000
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 1 Summary								
100	Salaries & Wages	$ -	$ -	$ 426,000	$ 865,000	$ 890,000	$ 916,000	$ 943,000
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 1 Summary		**$ -**	**$ -**	**$ 426,000**	**$ 865,000**	**$ 890,000**	**$ 916,000**	**$ 943,000**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 2	xxxxxxxxxx							OM Adjustments - 2
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 2 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 2 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 3	**Shift Staff from Capital to O&M**							**OM Adjustments - 3**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages			$ 1,054,000	$ 2,858,000	$ 4,410,000	$ 6,050,000	$ 7,780,000
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ 1,054,000	$ 2,858,000	$ 4,410,000	$ 6,050,000	$ 7,780,000

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages			$ 744,000	$ 766,000	$ 1,182,000	$ 1,622,000	$ 2,087,500
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ 744,000	$ 766,000	$ 1,182,000	$ 1,622,000	$ 2,087,500

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 3 Summary								
100	Salaries & Wages	$ -	$ -	$ 1,798,000	$ 3,624,000	$ 5,592,000	$ 7,672,000	$ 9,867,500
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 3 Summary		**$ -**	**$ -**	**$ 1,798,000**	**$ 3,624,000**	**$ 5,592,000**	**$ 7,672,000**	**$ 9,867,500**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 4	**Fire Dept Charges (Functional Hydrant Testing)**							**OM Adjustments - 4**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages		3,000,000	3,087,000	3,177,000	3,269,000	3,364,000	3,462,000
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ 3,000,000	$ 3,087,000	$ 3,177,000	$ 3,269,000	$ 3,364,000	$ 3,462,000
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 4 Summary								
100	Salaries & Wages	$ -	$ 3,000,000	$ 3,087,000	$ 3,177,000	$ 3,269,000	$ 3,364,000	$ 3,462,000
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 4 Summary		**$ -**	**$ 3,000,000**	**$ 3,087,000**	**$ 3,177,000**	**$ 3,269,000**	**$ 3,364,000**	**$ 3,462,000**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 5	**DOT Various AMI related matters**							**OM Adjustments - 5**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 5 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 5 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 6	**xxxxxxxxxx**							**OM Adjustments - 6**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 6 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 6 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 7	**Adjust FY 2019 Actual Gas Costs**							**OM Adjustments - 7**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas	800,000						
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ 800,000	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 7 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	800,000	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 7 Summary		**$ 800,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 8	**xxxxxxxxxx**							**OM Adjustments - 8**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 8 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 8 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 9	**xxxxxxxxxx**							**OM Adjustments - 9**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 9 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 9 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 10	**xxxxxxxxxx**							**OM Adjustments - 10**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 10 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 10 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 11	**xxxxxxxxxx**							**OM Adjustments - 11**
Human Resources and Administration								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Finance								
100	Salaries & Wages							
200	Services							
2xx	SMIP/GARP							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Operations								
100	Salaries & Wages							
200	Services							
220	Power							
221	Gas							
300	Materials and Supplies							
307	Chemicals							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Affairs								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 11 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total PWD O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Total Adjustments		$ 800,000	$ 3,000,000	$ 5,311,000	$ 7,666,000	$ 9,751,000	$ 11,952,000	$ 14,272,500

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M								
O&M Adj 1	**Additional GSI Maintenance Staffing**							**OM Adjustments - 12**
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits	-	-	179,000	363,000	374,000	385,000	396,000
191	Pension	-	-	159,000	323,000	332,000	342,000	352,000
190	Pension Obligations	-	-	16,000	32,000	33,000	34,000	35,000
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ 354,000	$ 718,000	$ 739,000	$ 761,000	$ 783,000
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 11 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	179,000	363,000	374,000	385,000	396,000
191	Pension	-	-	159,000	323,000	332,000	342,000	352,000
190	Pension Obligations	-	-	16,000	32,000	33,000	34,000	35,000
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ 354,000**	**$ 718,000**	**$ 739,000**	**$ 761,000**	**$ 783,000**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 2	xxxxxxxxxx							OM Adjustments - 13
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 2 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 2 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 3	**Shift Staff from Capital to O&M**							**OM Adjustments - 14**
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Department O&M Adjustment 3 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Services	-	-	-	-	-	-	-
191 (270)	Power	-	-	-	-	-	-	-
190 (270)	Materials and Supplies	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 3 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 4	**Fire Dept Charges (Functional Hydrant Testing)**							**OM Adjustments - 15**
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 4 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 4 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 5	**DOT Various AMI related matters**							**OM Adjustments - 16**
Division of Technology								
100	Salaries & Wages							
200	Services		3,200,000					
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ 3,200,000	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Department O&M Adjustment 5 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	3,200,000	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 5 Summary		**$ -**	**$ 3,200,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 6	xxxxxxxxxx							OM Adjustments - 17
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 6 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 6 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 7	**Adjust FY 2019 Actual Gas Costs**							**OM Adjustments - 18**
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 7 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 7 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 8	xxxxxxxxxx							OM Adjustments - 19
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 8 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 8 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 9	xxxxxxxxxx							OM Adjustments - 20
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 9 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 9 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 10	xxxxxxxxxx							OM Adjustments - 21
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 10 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits	-	-	-	-	-	-	-
191 (270)	Pension	-	-	-	-	-	-	-
190 (270)	Pension Obligations	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 10 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
O&M Adj 11	xxxxxxxxxx							OM Adjustments - 22
Division of Technology								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainab		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Public Property								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
City Finance								
100	Salaries & Wages							
1xx	Benefits							
191	Pension							
190	Pension Obligations							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)								
100	Salaries & Wages							
1xx (270)	Benefits (270)							
191 (270)	Pension (270)							
190 (270)	Pension Obligations (270)							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Procurement								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Law								
100	Salaries & Wages							
200	Services							
300	Materials and Supplies							
400	Equipment							
500	Indemnities							
800	Transfers							
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		2019	2020	2021	2022	2023	2024	2025
Other Department O&M Adjustment 11 Summary								
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-	-
200	Services	-	-	-	-	-	-	-
220	Power	-	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-	-
Total Other Department O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Total Adjustments		$ -	$ 3,200,000	$ 354,000	$ 718,000	$ 739,000	$ 761,000	$ 783,000

FINPLAN19.XLS

CAPITAL

Index	Description	Table
Capital Projects - Scen 4	**Capital Projects Worksheet (Scenario 4)**	
Capital Projects - Scen 4 - 1A	Water Capital Projects - Uninflated	TABLE W-3
Capital Projects - Scen 4 - 1B	Water Capital Projects - Inflated	TABLE W-3
Capital Projects - Scen 4 - 2A	Wastewater Capital Projects - Uninflated	TABLE WW-3
Capital Projects - Scen 4 - 2B	Wastewater Capital Projects - Inflated	TABLE WW-3
Capital Projects - Scen 4 - 3A	Combined System - Uninflated	
Capital Projects - Scen 4 - 3B	Combined System - Inflated	

Project	CIP Inflation	2019	2020	2021	2022	2023	2024	2025
Water Capital Projects - Uninflated								**Capital Projects - Scen 4 - 1A**
				$ 25,865,000	$ 24,141,000	$ 22,381,000	$ 20,621,000	$ 18,861,000
Engineering and Administration								
	Medium	$ 9,036,700	$ 7,381,620	$ 6,377,900	$ 5,584,860	$ 4,775,260	$ 3,965,660	$ 3,156,060
	Medium	-	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 9,036,700	$ 7,381,620	$ 6,377,900	$ 5,584,860	$ 4,775,260	$ 3,965,660	$ 3,156,060
Water Treatment Plant								
	Medium	$ 50,000,000	$ 50,000,000	$ 128,000,000	$ 149,200,000	$ 196,500,000	$ 80,200,000	$ 241,200,000
	Medium	-	-					
Subtotal Water Treatment Plant		$ 50,000,000	$ 50,000,000	$ 128,000,000	$ 149,200,000	$ 196,500,000	$ 80,200,000	$ 241,200,000
Pumping Station								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Pumping Station		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Mains								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Water Mains		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Filtered Water Storage								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Filtered Water Storage		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Load Control Center Expansion								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Load Control Center Expansion		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Distribution System								
	Medium	$ 59,060,000	$ 78,060,000	$ 93,060,000	$ 101,060,000	$ 172,160,000	$ 117,460,000	$ 108,060,000
	Medium	-						
Subtotal Distribution System		$ 59,060,000	$ 78,060,000	$ 93,060,000	$ 101,060,000	$ 172,160,000	$ 117,460,000	$ 108,060,000

Project	CIP Inflation	2019	2020	2021	2022	2023	2024	2025
Large Meter Replacement								
	Medium	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000
	Medium	25,000,000	30,000,000	-	-	-	-	-
Subtotal Large Meter Replacement		$ 30,000,000	$ 35,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000
Vehicles								
	Medium	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
	Medium	-	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
Other								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Water Capital Projects		**$ 154,096,700**	**$ 176,441,620**	**$ 238,437,900**	**$ 266,844,860**	**$ 384,435,260**	**$ 212,625,660**	**$ 363,416,060**

Project	Inflation Factor	2019	2020	2021	2022	2023	2024	2025
Water Capital Projects - Inflated								**Capital Projects - Scen 4 - 1B**
Engineering and Administration								
	3.00%	9,036,700	7,381,620	6,377,900	5,752,400	5,066,100	4,333,400	3,552,200
	3.00%	-	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 9,036,700	$ 7,381,620	$ 6,377,900	$ 5,752,400	$ 5,066,100	$ 4,333,400	$ 3,552,200
Water Treatment Plant								
	3.00%	50,000,000	50,000,000	128,000,000	153,676,000	208,466,900	87,636,700	271,472,700
	3.00%	-	-	-	-	-	-	-
Subtotal Water Treatment Plant		$ 50,000,000	$ 50,000,000	$ 128,000,000	$ 153,676,000	$ 208,466,900	$ 87,636,700	$ 271,472,700
Pumping Station								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Pumping Station		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Mains								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Water Mains		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Filtered Water Storage								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Filtered Water Storage		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Load Control Center Expansion								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Load Control Center Expansion		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Distribution System								
	3.00%	59,060,000	78,060,000	93,060,000	104,091,800	182,644,500	128,351,700	121,622,500
	3.00%	-	-	-	-	-	-	-
Subtotal Distribution System		$ 59,060,000	$ 78,060,000	$ 93,060,000	$ 104,091,800	$ 182,644,500	$ 128,351,700	$ 121,622,500

Project	Inflation Factor	2019	2020	2021	2022	2023	2024	2025
Large Meter Replacement								
	3.00%	5,000,000	5,000,000	5,000,000	5,150,000	5,304,500	5,463,600	5,627,500
	3.00%	25,000,000	30,000,000	-	-	-	-	-
Subtotal Large Meter Replacement		$ 30,000,000	$ 35,000,000	$ 5,000,000	$ 5,150,000	$ 5,304,500	$ 5,463,600	$ 5,627,500
Vehicles								
	3.00%	6,000,000	6,000,000	6,000,000	6,180,000	6,365,400	6,556,400	6,753,100
	3.00%	-	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,180,000	$ 6,365,400	$ 6,556,400	$ 6,753,100
Other								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Water Capital Projects		**$ 154,096,700**	**$ 176,441,620**	**$ 238,437,900**	**$ 274,850,200**	**$ 407,847,400**	**$ 232,341,800**	**$ 409,028,000**

Project	CIP Inflation	2019	2020	2021	2022	2023	2024	2025
Wastewater Capital Projects - Uninflated								**Capital Projects - Scen 4 - 2A**
Engineering and Administration								
	Medium	$ 10,608,300	$ 8,665,380	$ 7,487,100	6,556,140	5,605,740	4,655,340	3,704,940
	Medium	-	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 10,608,300	$ 8,665,380	$ 7,487,100	$ 6,556,140	$ 5,605,740	$ 4,655,340	$ 3,704,940
Water Pollution Control Plant Improvements								
	Medium	$ 50,000,000	$ 50,000,000	$ 50,000,000	$ 50,000,000	$ 100,000,000	$ 50,000,000	$ 50,000,000
	Medium	20,000,000	20,000,000	150,000,000	60,000,000	60,000,000	60,000,000	10,000,000
Subtotal Water Pollution Control Plant Improvements		$ 70,000,000	$ 70,000,000	$ 200,000,000	$ 110,000,000	$ 160,000,000	$ 110,000,000	$ 60,000,000
Storm Flood Relief								
	Medium	$ 10,000,000	$ 10,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000
	Medium	-	-		-	-	-	-
Subtotal Storm Flood Relief		$ 10,000,000	$ 10,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000
Reconstruction of Old Sewers								
Sewer Reconstruction	Medium	$ 46,660,000	$ 58,460,000	$ 57,860,000	$ 57,860,000	$ 57,860,000	$ 57,860,000	$ 57,860,000
Interceptor Rehab	Medium	4,340,000	4,340,000	4,600,000				
CSO System Improvements	Medium	5,000,000	5,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Subtotal Reconstruction of Old Sewers		$ 56,000,000	$ 67,800,000	$ 72,460,000	$ 67,860,000	$ 67,860,000	$ 67,860,000	$ 67,860,000
Green Infrastructure								
Stream Restoration	Medium	$ -	$ -	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000
	Medium	-	-					
Green Infrastructure	Medium	47,000,000	62,000,000	62,000,000	62,000,000	62,000,000	62,000,000	62,000,000
Subtotal Green Infrastructure		$ 47,000,000	$ 62,000,000	$ 72,000,000	$ 72,000,000	$ 72,000,000	$ 72,000,000	$ 72,000,000
Vehicles								
	Medium	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
	Medium	-	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000

Project	CIP Inflation	2019	2020	2021	2022	2023	2024	2025
Other								
	Medium	$ -	$ -					
	Medium	-	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Consent Decree/Wet Weather Plan Projects								
	Medium	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	-	-	-	-	-	-	-
Subtotal Consent Decree/Wet Weather Plan Projects		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Wastewater Capital Projects		**$ 199,608,300**	**$ 224,465,380**	**$ 372,947,100**	**$ 277,416,140**	**$ 326,465,740**	**$ 275,515,340**	**$ 224,564,940**

Project	Inflation Factor	2019	2020	2021	2022	2023	2024	2025
Wastewater Capital Projects - Inflated								**Capital Projects - Scen 4 - 2B**
Engineering and Administration								
	3.00%	10,608,300	8,665,380	7,487,100	6,752,800	5,947,100	5,087,000	4,169,900
	3.00%	-	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 10,608,300	$ 8,665,380	$ 7,487,100	$ 6,752,800	$ 5,947,100	$ 5,087,000	$ 4,169,900
Water Pollution Control Plant Improvements								
	3.00%	50,000,000	50,000,000	50,000,000	51,500,000	106,090,000	54,636,400	56,275,400
	3.00%	20,000,000	20,000,000	150,000,000	61,800,000	63,654,000	65,563,600	11,255,100
Subtotal Water Pollution Control Plant Impr		$ 70,000,000	$ 70,000,000	$ 200,000,000	$ 113,300,000	$ 169,744,000	$ 120,200,000	$ 67,530,500
Storm Flood Relief								
	3.00%	10,000,000	10,000,000	15,000,000	15,450,000	15,913,500	16,390,900	16,882,600
	3.00%	-	-	-	-	-	-	-
Subtotal Storm Flood Relief		$ 10,000,000	$ 10,000,000	$ 15,000,000	$ 15,450,000	$ 15,913,500	$ 16,390,900	$ 16,882,600
Reconstruction of Old Sewers								
Sewer Reconstruction	3.00%	46,660,000	58,460,000	57,860,000	59,595,800	61,383,700	63,225,200	65,121,900
Interceptor Rehab	3.00%	4,340,000	4,340,000	4,600,000	-	-	-	-
CSO System Improvements	3.00%	5,000,000	5,000,000	10,000,000	10,300,000	10,609,000	10,927,300	11,255,100
Subtotal Reconstruction of Old Sewers		$ 56,000,000	$ 67,800,000	$ 72,460,000	$ 69,895,800	$ 71,992,700	$ 74,152,500	$ 76,377,000
Green Infrastructure								
Stream Restoration	3.00%	-	-	10,000,000	10,300,000	10,609,000	10,927,300	11,255,100
	3.00%	-	-	-	-	-	-	-
Green Infrastructure	3.00%	47,000,000	62,000,000	62,000,000	63,860,000	65,775,800	67,749,100	69,781,500
Subtotal Green Infrastructure		$ 47,000,000	$ 62,000,000	$ 72,000,000	$ 74,160,000	$ 76,384,800	$ 78,676,400	$ 81,036,600
Vehicles								
	3.00%	6,000,000	6,000,000	6,000,000	6,180,000	6,365,400	6,556,400	6,753,100
	3.00%	-	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,180,000	$ 6,365,400	$ 6,556,400	$ 6,753,100

Project	Inflation Factor	2019	2020	2021	2022	2023	2024	2025
Other								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Consent Decree/Wet Weather Plan Projects								
	3.00%	-	-	-	-	-	-	-
	3.00%	-	-	-	-	-	-	-
Subtotal Consent Decree/Wet Weather Plar		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Wastewater Capital Projects		**$ 199,608,300**	**$ 224,465,380**	**$ 372,947,100**	**$ 285,738,600**	**$ 346,347,500**	**$ 301,063,200**	**$ 252,749,700**

Project	CIP Inflation	2019	2020	2021	2022	2023	2024	2025
Combined System- Uninflated								**Capital Projects - Scen 4 - 3A**
Total - Uninflated		**$ 353,705,000**	**$ 400,907,000**	**$ 611,385,000**	**$ 544,261,000**	**$ 710,901,000**	**$ 488,141,000**	**$ 587,981,000**
Total CIP Inflated		$ 353,705,000	$ 400,907,000	$ 611,385,000	$ 560,588,800	$ 754,194,900	$ 533,405,000	$ 661,777,700
Total Net Funding Requirement		$ 319,978,320	$ 355,787,040	$ 435,910,500	$ 508,928,457	$ 513,328,128	$ 568,514,205	$ 555,538,370
Estimated Monthly Spending		$ 26,664,860	$ 29,648,920	$ 36,325,875	$ 42,410,705	$ 42,777,344	$ 47,376,184	$ 46,294,864
Annual Balance of Appropriations		$ 33,726,680	$ 45,119,960	$ 175,474,500	$ 51,660,343	$ 240,866,772	$ (35,109,205)	$ 106,239,330
Cumulative Balance of Appropriations		$ 33,726,680	$ 78,846,640	$ 254,321,140	$ 305,981,483	$ 546,848,256	$ 511,739,050	$ 617,978,380
Expenses/Appropriations		90.5%	88.7%	71.3%	90.8%	68.1%	106.6%	83.9%

Project	Inflation Factor	2019	2020	2021	2022	2023	2024	2025
Combined System- Inflated								**Capital Projects - Scen 4 - 3B**
Total		**$ 353,705,000**	**$ 400,907,000**	**$ 611,385,000**	**$ 560,588,800**	**$ 754,194,900**	**$ 533,405,000**	**$ 661,777,700**

FINPLAN19.XLS

DEBT SERVICE

Index	Description	Table
DS	**Debt Service Worksheet**	
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DS - 2	Existing Parity PENNVEST Debt Service	
DS - 3	Existing G.O. Bond Debt Service	
DS - 4	Proposed Revenue Bonds	TABLE C-9. TABLE W-5, and TABLE WW-5
DS - 5	Future State Revolving Fund	
DS - 6	Future G.O. Bonds	
DS - 7	PWD Debt Service	
DS - 8	Water System Debt Service	TABLE W-5
DS - 9	Wastewater System Debt Service	TABLE WW-5

Existing Debt Service

Revenue Bond Debt Service

DS - 1a

Revenue Bonds	Series 1997B VRB			Series 2005B			Series 2007A Refunding			Series 2007B Refunding		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	48.00%	52.00%		49.67%	50.33%		32.00%	68.00%		32.00%	68.00%	
Fiscal Year												
2018	1,731,065	1,875,321	3,606,386	9,154,436	9,276,078	18,430,514	3,255,400	6,917,725	10,173,125	89,760	190,740	280,500
2019	2,304,480	2,496,520	4,801,000	83,812	84,925	168,737	-	-	-	-	-	
2020	2,619,360	2,837,640	5,457,000	-	-		-	-	-	-	-	
2021	2,652,480	2,873,520	5,526,000	-	-		-	-	-	-	-	
2022	2,682,720	2,906,280	5,589,000	-	-		-	-	-	-	-	
2023	2,710,080	2,935,920	5,646,000	-	-		-	-	-	-	-	
2024	2,734,560	2,962,440	5,697,000	-	-		-	-	-	-	-	
2025	2,756,160	2,985,840	5,742,000	-	-		-	-	-	-	-	
2026	2,821,680	3,056,820	5,878,500	-	-		-	-	-	-	-	
2027	2,836,080	3,072,420	5,908,500	-	-		-	-	-	-	-	
2028	2,894,400	3,135,600	6,030,000	-	-		-	-	-	-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ 28,743,065**	**$ 31,138,321**	**$ 59,881,386**	**$ 9,238,248**	**$ 9,361,003**	**$ 18,599,252**	**$ 3,255,400**	**$ 6,917,725**	**$ 10,173,125**	**$ 89,760**	**$ 190,740**	**$ 280,500**

Existing Debt Service

Revenue Bond Debt Service

DS - 1b

Revenue Bonds	Series 2009A			Series 2010A Refunding			Series 2010C			Series 2011A		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	37.00%	63.00%		46.00%	54.00%		20.00%	80.00%		20.00%	80.00%	
Fiscal Year												
2018	1,801,012	3,066,588	4,867,600	17,223,871	20,219,327	37,443,198	7,631,493	30,525,970	38,157,463	1,347,400	5,389,600	6,737,000
2019	1,800,924	3,066,438	4,867,363	17,228,672	20,224,963	37,453,635	1,118,330	4,473,320	5,591,650	1,347,400	5,389,600	6,737,000
2020	-	-	-	-	-		672,203	2,688,810	3,361,013	1,347,400	5,389,600	6,737,000
2021	-	-	-	-	-		672,078	2,688,310	3,360,388	673,700	2,694,800	3,368,500
2022	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2023	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2024	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2025	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2026	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2027	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2028	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2029	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2030	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2031	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2032	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2033	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2034	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2035	-	-	-	-	-		9,928	39,710	49,638	-	-	-
2036	-	-	-	-	-		213,964	855,855	1,069,819	-	-	-
2037	-	-		-	-		-	-		-	-	-
2038	-	-		-	-		-	-		-	-	-
2039	-	-		-	-		-	-		-	-	-
2040	-	-		-	-		-	-		-	-	-
2041	-	-		-	-		-	-		-	-	-
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ 3,601,936**	**$ 6,133,026**	**$ 9,734,963**	**$ 34,452,543**	**$ 40,444,290**	**$ 74,896,833**	**$ 10,447,051**	**$ 41,788,205**	**$ 52,235,256**	**$ 4,715,900**	**$ 18,863,600**	**$ 23,579,500**

Existing Debt Service

Revenue Bond Debt Service

DS - 1c

Revenue Bonds	Series 2011B			Series 2012			Series 2013A			Series 2014A		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	20.00%	80.00%		20.44%	79.56%		19.38%	80.62%		19.38%	80.62%	
Fiscal Year												
2018	1,845,950	7,383,800	9,229,750	396,402	1,542,848	1,939,250	2,278,527	9,481,173	11,759,700	2,291,107	9,533,518	11,824,625
2019	1,888,225	7,552,900	9,441,125	396,402	1,542,848	1,939,250	2,245,347	9,343,103	11,588,450	2,281,904	9,495,221	11,777,125
2020	1,796,750	7,187,000	8,983,750	351,585	1,368,415	1,720,000	7,524,990	31,312,210	38,837,200	2,280,572	9,489,678	11,770,250
2021	455,550	1,822,200	2,277,750	351,585	1,368,415	1,720,000	7,427,521	30,906,629	38,334,150	2,278,925	9,482,825	11,761,750
2022	1,872,875	7,491,500	9,364,375	351,585	1,368,415	1,720,000	5,393,311	22,442,089	27,835,400	2,278,242	9,479,983	11,758,225
2023	382,325	1,529,300	1,911,625	351,585	1,368,415	1,720,000	5,394,038	22,445,112	27,839,150	2,276,900	9,474,400	11,751,300
2024	-	-		351,585	1,368,415	1,720,000	496,503	2,065,997	2,562,500	2,274,798	9,465,652	11,740,450
2025	-	-		351,585	1,368,415	1,720,000	496,503	2,065,997	2,562,500	2,273,088	9,458,537	11,731,625
2026	-	-		351,585	1,368,415	1,720,000	496,503	2,065,997	2,562,500	2,270,109	9,446,141	11,716,250
2027	-	-		351,585	1,368,415	1,720,000	496,503	2,065,997	2,562,500	2,267,735	9,436,265	11,704,000
2028	-	-		351,585	1,368,415	1,720,000	496,503	2,065,997	2,562,500	2,265,725	9,427,900	11,693,625
2029	-	-		7,207,497	28,052,503	35,260,000	496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2030	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2031	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2032	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2033	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2034	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2035	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2036	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2037	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2038	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2039	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2040	-	-		-	-		496,503	2,065,997	2,562,500	290,636	1,209,364	1,500,000
2041	-	-		-	-		3,565,618	14,836,882	18,402,500	290,636	1,209,364	1,500,000
2042	-	-		-	-		3,566,238	14,839,462	18,405,700	2,086,257	8,681,118	10,767,375
2043	-	-		-	-		3,565,547	14,836,584	18,402,131	2,085,797	8,679,203	10,765,000
2044	-	-		-	-		-	-		2,086,306	8,681,319	10,767,625
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	$ 8,241,675	$ 32,966,700	$ 41,208,375	$ 11,164,568	$ 43,453,932	$ 54,618,500	$ 49,401,689	$ 205,565,193	$ 254,966,881	$ 35,075,730	$ 145,953,495	$ 181,029,225

Existing Debt Service

Revenue Bond Debt Service

DS - 1d

Revenue Bonds	Series 2015A Refunding			Series 2015B Refunding			Series 2016A Refunding			Series 2017		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	42.00%	58.00%		37.73%	62.27%		33.86%	66.14%		41.45%	58.55%	
Fiscal Year												
2018	5,792,220	7,998,780	13,791,000	2,569,559	4,240,541	6,810,100	3,051,593	5,959,545	9,011,138	5,655,742	7,989,846	13,645,588
2019	5,792,220	7,998,780	13,791,000	2,569,559	4,240,541	6,810,100	6,127,827	11,967,211	18,095,038	13,933,011	19,683,114	33,616,125
2020	5,792,220	7,998,780	13,791,000	6,382,667	10,533,308	16,915,975	4,154,964	8,114,349	12,269,313	13,518,537	19,097,588	32,616,125
2021	5,792,220	7,998,780	13,791,000	6,383,941	10,535,409	16,919,350	4,153,609	8,111,704	12,265,313	5,021,819	7,094,306	12,116,125
2022	5,792,220	7,998,780	13,791,000	6,384,318	10,536,032	16,920,350	4,153,990	8,112,448	12,266,438	5,021,819	7,094,306	12,116,125
2023	5,792,220	7,998,780	13,791,000	6,383,327	10,534,398	16,917,725	5,332,947	10,414,866	15,747,813	5,021,819	7,094,306	12,116,125
2024	5,792,220	7,998,780	13,791,000	1,724,938	2,846,662	4,571,600	9,439,124	18,433,939	27,873,063	5,021,819	7,094,306	12,116,125
2025	5,792,220	7,998,780	13,791,000	1,724,938	2,846,662	4,571,600	9,771,844	19,083,718	28,855,563	5,021,819	7,094,306	12,116,125
2026	5,792,220	7,998,780	13,791,000	1,724,938	2,846,662	4,571,600	9,765,876	19,072,062	28,837,938	5,021,819	7,094,306	12,116,125
2027	5,792,220	7,998,780	13,791,000	1,724,938	2,846,662	4,571,600	9,139,421	17,848,641	26,988,063	5,021,819	7,094,306	12,116,125
2028	5,792,220	7,998,780	13,791,000	1,724,938	2,846,662	4,571,600	4,695,783	9,170,530	13,866,313	5,021,819	7,094,306	12,116,125
2029	5,792,220	7,998,780	13,791,000	5,473,666	9,033,184	14,506,850	2,934,438	5,730,749	8,665,188	5,021,819	7,094,306	12,116,125
2030	5,792,220	7,998,780	13,791,000	5,467,204	9,022,521	14,489,725	2,936,047	5,733,891	8,669,938	5,021,819	7,094,306	12,116,125
2031	5,792,220	7,998,780	13,791,000	5,462,252	9,014,348	14,476,600	2,935,369	5,732,568	8,667,938	5,021,819	7,094,306	12,116,125
2032	5,792,220	7,998,780	13,791,000	5,456,404	9,004,696	14,461,100	2,934,743	5,731,345	8,666,088	5,021,819	7,094,306	12,116,125
2033	5,792,220	7,998,780	13,791,000	5,451,027	8,995,823	14,446,850	2,935,014	5,731,874	8,666,888	7,909,201	11,173,299	19,082,500
2034	5,792,220	7,998,780	13,791,000	5,443,716	8,983,759	14,427,475	2,934,540	5,730,948	8,665,488	7,910,652	11,175,348	19,086,000
2035	5,792,220	7,998,780	13,791,000	5,439,387	8,976,613	14,416,000	2,935,090	5,732,022	8,667,113	7,910,496	11,175,129	19,085,625
2036	5,792,220	7,998,780	13,791,000	5,430,407	8,961,793	14,392,200	2,935,651	5,733,118	8,668,769	7,910,444	11,175,056	19,085,500
2037	14,719,320	20,326,680	35,046,000	-	-		-	-		7,910,082	11,174,543	19,084,625
2038	14,718,113	20,325,013	35,043,125	-	-		-	-		7,908,994	11,173,006	19,082,000
2039	14,718,060	20,324,940	35,043,000	-	-		-	-		7,910,807	11,175,568	19,086,375
2040	14,719,950	20,327,550	35,047,500	-	-		-	-		7,908,838	11,172,787	19,081,625
2041	14,718,323	20,325,303	35,043,625	-	-		-	-		3,601,002	5,087,123	8,688,125
2042	14,718,165	20,325,085	35,043,250	-	-		-	-		7,908,838	11,172,787	19,081,625
2043	14,718,008	20,324,868	35,042,875	-	-		-	-		7,910,185	11,174,690	19,084,875
2044	14,718,428	20,325,448	35,043,875	-	-		-	-		7,910,237	11,174,763	19,085,000
2045	14,717,850	20,324,650	35,042,500	-	-		-	-		7,910,496	11,175,129	19,085,625
2046	14,718,795	20,325,955	35,044,750	-	-		-	-		7,910,341	11,174,909	19,085,250
2047	-	-	-	-	-		-	-		7,909,149	11,173,226	19,082,375
2048	-	-	-	-	-		-	-		7,910,341	11,174,909	19,085,250
2049	-	-	-	-	-		-	-		7,910,509	11,175,147	19,085,656
2050	-	-	-	-	-		-	-		7,910,499	11,175,132	19,085,631
2051	-	-	-	-	-		-	-		7,909,577	11,173,830	19,083,406
2052	-	-	-	-	-		-	-		7,908,908	11,172,886	19,081,794
2053	-	-	-	-	-		-	-		7,909,636	11,173,914	19,083,550
2054	-	-	-	-	-		-	-		-	-	
2055	-	-	-	-	-		-	-		-	-	
2056	-	-	-	-	-		-	-		-	-	
2057	-	-	-	-	-		-	-		-	-	
2058	-	-	-	-	-		-	-		-	-	
2059	-	-	-	-	-		-	-		-	-	
2060	-	-	-	-	-		-	-		-	-	
Total Existing Debt	**$ 257,237,190**	**$ 355,232,310**	**$ 612,469,500**	**$ 82,922,121**	**$ 136,846,279**	**$ 219,768,400**	**$ 93,267,868**	**$ 182,145,526**	**$ 275,413,394**	**$ 255,168,353**	**$ 360,475,397**	**$ 615,643,750**

Existing Debt Service

Revenue Bond Debt Service

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Revenue Bonds	Series 2017B			Series 2018A			Series 2019A Refunding			Series 2019B		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	28.45%	71.55%		45.22%	54.78%		20.03%	79.97%		41.20%	58.80%	
Fiscal Year												
2018	2,595,850	6,528,404	9,124,254	-	-	-	-	-	-	-	-	-
2019	2,435,391	6,124,859	8,560,250	2,139,452	2,591,521	4,730,973	51,131	204,142	255,274	-	-	-
2020	2,435,391	6,124,859	8,560,250	10,670,981	12,925,769	23,596,750	541,389	2,161,508	2,702,898	3,686,129	5,261,040	8,947,169
2021	4,094,168	10,296,582	14,390,750	10,444,869	12,651,881	23,096,750	608,529	2,429,565	3,038,094	5,163,449	7,369,551	12,533,000
2022	3,221,322	8,101,428	11,322,750	10,218,758	12,377,992	22,596,750	608,562	2,429,695	3,038,256	5,163,449	7,369,551	12,533,000
2023	4,133,643	10,395,857	14,529,500	7,788,062	9,433,688	17,221,750	609,474	2,433,340	3,042,814	5,163,449	7,369,551	12,533,000
2024	4,401,891	11,070,484	15,472,375	5,470,422	6,626,328	12,096,750	992,967	3,964,441	4,957,408	9,017,651	12,870,474	21,888,125
2025	4,131,473	10,390,402	14,521,875	5,470,422	6,626,328	12,096,750	992,517	3,962,645	4,955,162	9,016,827	12,869,298	21,886,125
2026	3,981,506	10,013,244	13,994,750	5,470,422	6,626,328	12,096,750	1,264,227	5,047,455	6,311,682	9,015,952	12,868,048	21,884,000
2027	4,491,295	11,295,330	15,786,625	5,470,422	6,626,328	12,096,750	1,264,845	5,049,919	6,314,764	9,016,518	12,868,857	21,885,375
2028	4,488,450	11,288,175	15,776,625	5,470,422	6,626,328	12,096,750	794,157	3,170,689	3,964,846	9,015,900	12,867,975	21,883,875
2029	2,838,172	7,137,828	9,976,000	5,470,422	6,626,328	12,096,750	480,185	1,917,147	2,397,331	4,068,796	5,807,204	9,876,000
2030	10,365,046	26,067,454	36,432,500	5,470,422	6,626,328	12,096,750	724,729	2,893,497	3,618,226	4,068,796	5,807,204	9,876,000
2031	10,120,056	25,451,319	35,571,375	5,470,422	6,626,328	12,096,750	915,702	3,655,958	4,571,659	4,068,796	5,807,204	9,876,000
2032	10,193,173	25,635,202	35,828,375	5,470,422	6,626,328	12,096,750	652,422	2,604,807	3,257,229	4,068,796	5,807,204	9,876,000
2033	1,094,756	2,753,244	3,848,000	8,199,698	9,932,302	18,132,000	641,830	2,562,519	3,204,349	4,068,796	5,807,204	9,876,000
2034	1,108,945	2,788,930	3,897,875	8,198,624	9,931,001	18,129,625	632,077	2,523,581	3,155,658	4,068,796	5,807,204	9,876,000
2035	1,122,708	2,823,542	3,946,250	8,199,246	9,931,754	18,131,000	623,184	2,488,076	3,111,260	4,068,796	5,807,204	9,876,000
2036	-	-	-	8,198,907	9,931,343	18,130,250	1,493,608	5,963,260	7,456,868	4,068,796	5,807,204	9,876,000
2037	-	-	-	8,199,472	9,932,028	18,131,500	1,707,539	6,817,385	8,524,924	4,068,796	5,807,204	9,876,000
2038	-	-	-	8,198,285	9,930,590	18,128,875	1,708,281	6,820,349	8,528,630	4,068,796	5,807,204	9,876,000
2039	-	-	-	8,199,415	9,931,960	18,131,375	1,707,658	6,817,862	8,525,520	4,068,796	5,807,204	9,876,000
2040	-	-	-	8,197,889	9,930,111	18,128,000	1,708,494	6,821,198	8,529,692	4,068,796	5,807,204	9,876,000
2041	-	-	-	8,199,981	9,932,644	18,132,625	1,708,368	6,820,697	8,529,066	4,068,796	5,807,204	9,876,000
2042	-	-	-	8,198,398	9,930,727	18,129,125	-	-		4,068,796	5,807,204	9,876,000
2043	-	-	-	8,199,415	9,931,960	18,131,375	-	-		4,068,796	5,807,204	9,876,000
2044	-	-	-	8,197,946	9,930,179	18,128,125	-	-		9,017,600	12,870,400	21,888,000
2045	-	-	-	8,197,946	9,930,179	18,128,125	-	-		9,016,879	12,869,371	21,886,250
2046	-	-	-	8,198,737	9,931,138	18,129,875	-	-		9,017,239	12,869,886	21,887,125
2047	-	-	-	8,199,641	9,932,234	18,131,875	-	-		9,015,952	12,868,048	21,884,000
2048	-	-	-	8,199,981	9,932,644	18,132,625	-	-		9,016,415	12,868,710	21,885,125
2049	-	-	-	8,199,076	9,931,549	18,130,625	-	-		9,015,797	12,867,828	21,883,625
2050				8,198,454	9,930,796	18,129,250	-	-		9,017,394	12,870,106	21,887,500
2051				8,199,528	9,932,097	18,131,625	-	-		9,016,261	12,868,489	21,884,750
2052				8,199,189	9,931,686	18,130,875	-	-		9,015,694	12,867,681	21,883,375
2053				8,198,850	9,931,275	18,130,125	-	-		9,016,776	12,869,224	21,886,000
2054				8,199,811	9,932,439	18,132,250	-	-		9,016,467	12,868,783	21,885,250
2055				-	-		-	-		9,015,849	12,867,901	21,883,750
2056				-	-		-	-		-	-	-
2057				-	-		-	-		-	-	-
2058				-	-		-	-		-	-	-
2059				-	-		-	-		-	-	-
2060	-	-	-	-	-		-	-		-	-	-
Total Existing Debt	**$ 77,253,238**	**$ 194,287,141**	**$ 271,540,379**	**$ 270,874,411**	**$ 328,110,437**	**$ 598,984,848**	**$ 22,431,875**	**$ 89,559,734**	**$ 111,991,609**	**$ 233,489,593**	**$ 333,248,826**	**$ 566,738,419**

Existing Debt Service

Revenue Bond Debt Service

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Revenue Bonds	Series 2020 Forward Refunding			TOTAL REVENUE BONDS		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	20.00%	80.00%				
Fiscal Year						
2018	-	-		68,711,388	138,119,801	206,831,190
2019	-	-		63,744,087	116,480,007	180,224,094
2020	-	-		63,775,137	132,490,554	196,265,692
2021	617,410	2,469,640	3,087,050	56,791,853	120,794,116	177,585,969
2022	1,277,400	5,109,600	6,387,000	54,430,499	112,857,807	167,288,306
2023	1,277,400	5,109,600	6,387,000	52,627,198	108,577,241	161,204,439
2024	1,277,400	5,109,600	6,387,000	49,005,805	91,917,228	140,923,033
2025	1,277,400	5,109,600	6,387,000	49,086,725	91,900,238	140,986,962
2026	1,277,400	5,109,600	6,387,000	49,264,165	92,653,568	141,917,732
2027	1,277,400	5,109,600	6,387,000	49,160,709	92,721,230	141,881,939
2028	1,277,400	5,109,600	6,387,000	44,299,229	82,210,666	126,509,896
2029	1,277,400	5,109,600	6,387,000	41,361,681	87,822,700	129,184,381
2030	1,277,400	5,109,600	6,387,000	41,920,751	79,668,650	121,589,401
2031	1,277,400	5,109,600	6,387,000	41,861,103	79,805,481	121,666,584
2032	1,277,400	5,109,600	6,387,000	41,664,465	78,927,339	120,591,804
2033	3,523,800	14,095,200	17,619,000	40,413,408	72,365,316	112,778,724
2034	3,524,625	14,098,500	17,623,125	40,411,262	72,353,121	112,764,383
2035	3,524,375	14,097,500	17,621,875	40,412,569	72,345,692	112,758,260
2036	3,524,750	14,099,000	17,623,750	40,355,885	73,800,770	114,156,655
2037	3,524,425	14,097,700	17,622,125	40,916,773	71,430,901	112,347,674
2038	3,524,075	14,096,300	17,620,375	40,913,682	71,427,823	112,341,505
2039	3,525,300	14,101,200	17,626,500	40,917,176	71,434,094	112,351,270
2040	3,524,725	14,098,900	17,623,625	40,915,831	71,433,110	112,348,942
2041	3,524,975	14,099,900	17,624,875	39,677,699	78,119,116	117,796,816
2042	-	-		40,546,693	70,756,382	111,303,075
2043	-	-		40,547,748	70,754,508	111,302,256
2044	-	-		41,930,516	62,982,109	104,912,625
2045	-	-		39,843,170	54,299,330	94,142,500
2046	-	-		39,845,112	54,301,888	94,147,000
2047	-	-		25,124,742	33,973,508	59,098,250
2048	-	-		25,126,737	33,976,263	59,103,000
2049	-	-		25,125,382	33,974,524	59,099,906
2050	-	-		25,126,347	33,976,034	59,102,381
2051	-	-		25,125,366	33,974,416	59,099,781
2052	-	-		25,123,792	33,972,252	59,096,044
2053	-	-		25,125,262	33,974,413	59,099,675
2054	-	-		17,216,278	22,801,222	40,017,500
2055	-	-		9,015,849	12,867,901	21,883,750
2056	-	-		-	-	-
2057	-	-		-	-	-
2058	-	-		-	-	-
2059	-	-		-	-	-
2060	-	-		-	-	-
Total Existing Debt	$ 46,389,860	$ 185,559,440	$ 231,949,300			

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2a

	Series 1999			Series 2009B			Series 2009C			Series 2009D		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	100.00%	0.00%		100.00%	0.00%		100.00%	0.00%		0.00%	100.00%	
Fiscal Year	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
2018	90,665	-	90,665	2,534,763	s	2,534,763	2,775,440	-	2,775,440	-	4,389,371	4,389,371
2019	75,554	-	75,554	1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2020	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2021	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2022	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2023	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2024	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2025	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2026	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2027	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2028	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2029	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2030	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2031	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2032	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	2,600,278	2,600,278
2033	-	-		394,493	-	394,493	-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ 166,219**	**$ -**	**$ 166,219**	**$ 25,020,871**	**$ -**	**$ 25,020,871**	**$ 41,631,598**	**$ -**	**$ 41,631,598**	**$ -**	**$ 64,938,719**	**$ 64,938,719**

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2b

	Series 2010B			Series 2021			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	0.00%	100.00%		100.00%	0.00%		32.00%	68.00%		32.00%	68.00%	
Fiscal Year	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
2018	-	1,709,868	1,709,868	-	-		-	-		-	-	
2019	-	1,797,386	1,797,386	-	-		-	-		-	-	
2020	-	1,819,906	1,819,906	-	-		-	-		-	-	
2021	-	1,819,906	1,819,906	133,630	-	133,630	-	-		-	-	
2022	-	1,819,906	1,819,906	448,750	-	448,750	-	-		-	-	
2023	-	1,819,906	1,819,906	2,980,016	-	2,980,016	-	-		-	-	
2024	-	1,819,906	1,819,906	2,980,016	-	2,980,016	-	-		-	-	
2025	-	1,819,906	1,819,906	2,980,016	-	2,980,016	-	-		-	-	
2026	-	1,819,906	1,819,906	2,980,016	-	2,980,016	-	-		-	-	
2027	-	1,819,906	1,819,906	2,980,016	-	2,980,016	-	-		-	-	
2028	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2029	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2030	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2031	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2032	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2033	-	1,819,906	1,819,906	3,183,389	-	3,183,389	-	-		-	-	
2034	-	454,976	454,976	3,183,389	-	3,183,389	-	-		-	-	
2035	-	-		3,183,389	-	3,183,389	-	-		-	-	
2036	-	-		3,183,389	-	3,183,389	-	-		-	-	
2037	-	-		3,183,389	-	3,183,389	-	-		-	-	
2038	-	-		3,183,389	-	3,183,389	-	-		-	-	
2039	-	-		3,183,389	-	3,183,389	-	-		-	-	
2040	-	-		3,183,389	-	3,183,389	-	-		-	-	
2041	-	-		3,183,389	-	3,183,389	-	-		-	-	
2042	-	-		3,183,389	-	3,183,389	-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ 29,440,912	$ 29,440,912	$ 63,233,292	$ -	$ 63,233,292	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2c

	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	37.00%	63.00%		46.00%	54.00%		20.00%	80.00%		20.00%	80.00%	
Fiscal Year	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
2018	-	-		-	-		-	-		-	-	
2019	-	-		-	-		-	-		-	-	
2020	-	-		-	-		-	-		-	-	
2021	-	-		-	-		-	-		-	-	
2022	-	-		-	-		-	-		-	-	
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2d

	Series xxxx			Series xxxx			Series xxxx			TOTAL PENNVEST REVENUE BONDS		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	20.00%	80.00%		20.00%	80.00%		20.00%	80.00%				
Fiscal Year	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I			
2018	-	-		-	-		-	-		5,400,868	6,099,238	11,500,106
2019	-	-		-	-		-	-		4,428,967	6,255,007	10,683,973
2020	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2021	-	-		-	-		-	-		4,487,042	6,277,527	10,764,569
2022	-	-		-	-		-	-		4,802,163	6,277,527	11,079,689
2023	-	-		-	-		-	-		7,333,428	6,277,527	13,610,955
2024	-	-		-	-		-	-		7,333,428	6,277,527	13,610,955
2025	-	-		-	-		-	-		7,333,428	6,277,527	13,610,955
2026	-	-		-	-		-	-		7,333,428	6,277,527	13,610,955
2027	-	-		-	-		-	-		7,333,428	6,277,527	13,610,955
2028	-	-		-	-		-	-		7,536,801	6,277,527	13,814,328
2029	-	-		-	-		-	-		7,536,801	6,277,527	13,814,328
2030	-	-		-	-		-	-		7,536,801	6,277,527	13,814,328
2031	-	-		-	-		-	-		7,536,801	6,277,527	13,814,328
2032	-	-		-	-		-	-		7,536,802	4,420,184	11,956,986
2033	-	-		-	-		-	-		3,577,882	1,819,906	5,397,787
2034	-	-		-	-		-	-		3,183,389	454,976	3,638,365
2035	-	-		-	-		-	-		3,183,389	-	3,183,389
2036	-	-		-	-		-	-		3,183,389	-	3,183,389
2037	-	-		-	-		-	-		3,183,389	-	3,183,389
2038	-	-		-	-		-	-		3,183,389	-	3,183,389
2039	-	-		-	-		-	-		3,183,389	-	3,183,389
2040	-	-		-	-		-	-		3,183,389	-	3,183,389
2041	-	-		-	-		-	-		3,183,389	-	3,183,389
2042	-	-		-	-		-	-		3,183,389	-	3,183,389
2043	-	-		-	-		-	-		-	-	-
2044	-	-		-	-		-	-		-	-	-
2045	-	-		-	-		-	-		-	-	-
2046	-	-		-	-		-	-		-	-	-
2047	-	-		-	-		-	-		-	-	-
2048	-	-		-	-		-	-		-	-	-
2049	-	-		-	-		-	-		-	-	-
2050	-	-		-	-		-	-		-	-	-
2051	-	-		-	-		-	-		-	-	-
2052	-	-		-	-		-	-		-	-	-
2053	-	-		-	-		-	-		-	-	-
2054	-	-		-	-		-	-		-	-	-
2055	-	-		-	-		-	-		-	-	-
2056	-	-		-	-		-	-		-	-	-
2057	-	-		-	-		-	-		-	-	-
2058	-	-		-	-		-	-		-	-	-
2059	-	-		-	-		-	-		-	-	-
2060	-	-		-	-		-	-		-	-	-
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			

Existing Debt Service

G.O. Bond Debt Service

DS - 3a

G.O. Bonds	Series 2012 Refunding			Series 2012 Refunding			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.68%	49.32%		50.68%	49.32%		50.68%	49.32%		50.68%	49.32%	
Fiscal Year												
2018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2019	-	-		-	-		-	-		-	-	
2020	-	-		-	-		-	-		-	-	
2021	-	-		-	-		-	-		-	-	
2022	-	-		-	-		-	-		-	-	
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 3b

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.68%	49.32%		50.68%	49.32%		50.68%	49.32%		50.68%	49.32%	
Fiscal Year												
2018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2019	-	-		-	-		-	-		-	-	
2020	-	-		-	-		-	-		-	-	
2021	-	-		-	-		-	-		-	-	
2022	-	-		-	-		-	-		-	-	
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 3c

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.68%	49.32%		50.68%	49.32%		50.68%	49.32%		50.68%	49.32%	
Fiscal Year												
2018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2019	-	-		-	-		-	-		-	-	
2020	-	-		-	-		-	-		-	-	
2021	-	-		-	-		-	-		-	-	
2022	-	-		-	-		-	-		-	-	
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 3d

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			TOTAL G.O. BONDS		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.68%	49.32%		50.68%	49.32%		50.68%	49.32%				
Fiscal Year												
2018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2019	-	-		-	-		-	-		-	-	-
2020	-	-		-	-		-	-		-	-	-
2021	-	-		-	-		-	-		-	-	-
2022	-	-		-	-		-	-		-	-	-
2023	-	-		-	-		-	-		-	-	-
2024	-	-		-	-		-	-		-	-	-
2025	-	-		-	-		-	-		-	-	-
2026	-	-		-	-		-	-		-	-	-
2027	-	-		-	-		-	-		-	-	-
2028	-	-		-	-		-	-		-	-	-
2029	-	-		-	-		-	-		-	-	-
2030	-	-		-	-		-	-		-	-	-
2031	-	-		-	-		-	-		-	-	-
2032	-	-		-	-		-	-		-	-	-
2033	-	-		-	-		-	-		-	-	-
2034	-	-		-	-		-	-		-	-	-
2035	-	-		-	-		-	-		-	-	-
2036	-	-		-	-		-	-		-	-	-
2037	-	-		-	-		-	-		-	-	-
2038	-	-		-	-		-	-		-	-	-
2039	-	-		-	-		-	-		-	-	-
2040	-	-		-	-		-	-		-	-	-
2041	-	-		-	-		-	-		-	-	-
2042	-	-		-	-		-	-		-	-	-
2043	-	-		-	-		-	-		-	-	-
2044	-	-		-	-		-	-		-	-	-
2045	-	-		-	-		-	-		-	-	-
2046	-	-		-	-		-	-		-	-	-
2047	-	-		-	-		-	-		-	-	-
2048	-	-		-	-		-	-		-	-	-
2049	-	-		-	-		-	-		-	-	-
2050	-	-		-	-		-	-		-	-	-
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			

Proposed Debt Service

Proposed Revenue Bonds

DS - 4

Capital Financing Assumptions	2019	2020	2021	2022	2023	2024	2025
Future Revenue Bonds							
Issuance Amount	$ 301,842,583	$ 305,833,934	$ 400,000,000	$ 445,000,000	$ 480,000,000	$ 525,000,000	$ 520,000,000
Annual Payment	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
Debt Service Reserve Requirement	-	4,077,890	14,047,831	23,362,500	21,136,422	36,202,654	35,822,073
Term (yrs)	30	35	30	30	30	30	30
Interest Rate	#N/A	#N/A	5.25%	5.25%	5.25%	5.25%	5.25%
Issuance Costs	0.61%	0.57%	0.59%	0.59%	0.59%	0.59%	0.59%
Month of Sale (July=1)	6	2	2	2	2	2	2
Capitalized Interest term (yrs)	0	0	0	0	0	0	0
Interest Only Period (years)	1	2	2	2	2	2	2
Initial Payment Adjustment (months)	0	-2	-2	-2	-2	-2	-2
Water Allocation	45.22%	41.20%	45.00%	51.46%	48.33%	56.19%	62.31%
Wastewater Allocation	54.78%	58.80%	55.00%	48.54%	51.67%	43.81%	37.69%

Proposed Debt Service

Proposed Revenue Bonds

DS - 4

Future Revenue Bonds Schedules	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	#N/A						
2020	#N/A	#N/A					
2021	#N/A	#N/A	$ 7,000,000				
2022	#N/A	#N/A	21,000,000	$ 7,787,500			
2023	#N/A	#N/A	27,582,974	23,362,500	$ 8,400,000		
2024	#N/A	#N/A	27,582,974	30,686,059	25,200,000	$ 9,187,500	
2025	#N/A	#N/A	27,582,974	30,686,059	33,099,569	27,562,500	$ 9,100,000
2026	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	27,300,000
2027	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2028	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2029	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2030	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2031	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2032	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2033	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2034	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2035	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2036	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2037	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2038	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2039	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2040	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2041	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2042	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2043	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2044	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2045	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2046	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2047	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2048	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2049	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2050	#N/A	#N/A	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2051	#N/A	#N/A	14,000,000	30,686,059	33,099,569	36,202,654	35,857,867
2052	#N/A	#N/A	-	15,575,000	33,099,569	36,202,654	35,857,867
Total Proposed Revenue Bonds	**#N/A**	**#N/A**	**$ 814,323,285**	**$ 905,934,655**	**$ 960,387,942**	**$ 1,014,221,658**	**$ 968,704,537**
	#N/A	**#N/A**	**$ 814,323,285**	**$ 905,934,655**	**$ 977,187,942**	**$ 1,068,799,312**	**$ 1,058,620,271**

Proposed Debt Service

Proposed Revenue Bonds

DS - 4

INPUT	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019							
2020							
2021							
2022							
2023							
2024							
2025							
2026							
2027							
2028							
2029							
2030							
2031							
2032							
2033							
2034							
2035							
2036							
2037							
2038							
2039							
2040							
2041							
2042							
2043							
2044							
2045							
2046							
2047							
2048							
2049							
2050							
2051							
2052							
2053							
2054							
2055	0	0					
Total Proposed Revenue Bonds	**$ 0**	**$ 0**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Proposed Debt Service

Proposed Revenue Bonds

DS - 4

USE	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	$ -						
2020	-	$ -					
2021	-	-	$ 7,000,000				
2022	-	-	21,000,000	$ 7,787,500			
2023	-	-	27,582,974	23,362,500	$ 8,400,000		
2024	-	-	27,582,974	30,686,059	25,200,000	$ 9,187,500	
2025	-	-	27,582,974	30,686,059	33,099,569	27,562,500	$ 9,100,000
2026	-	-	27,582,974	30,686,059	33,099,569	36,202,654	27,300,000
2027	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2028	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2029	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2030	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2031	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2032	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2033	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2034	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2035	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2036	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2037	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2038	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2039	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2040	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2041	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2042	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2043	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2044	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2045	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2046	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2047	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2048	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2049	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2050	-	-	27,582,974	30,686,059	33,099,569	36,202,654	35,857,867
2051	-	-	14,000,000	30,686,059	33,099,569	36,202,654	35,857,867
2052	0	0	-	15,575,000	33,099,569	36,202,654	35,857,867
Total Proposed Revenue Bonds	**$ 0**	**$ 0**	**$ 814,323,285**	**$ 905,934,655**	**$ 960,387,942**	**$ 1,014,221,658**	**$ 968,704,537**

Proposed Debt Service

Future State Revolving Fund

DS - 5

	2019	2020	2021	2022	2023	2024	2025
Issuance Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual Payment	-	-	-	-	-	-	-
Term (yrs)	5	5	5	5	5	5	5
Interest Rate	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Issuance Costs	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Water Allocation	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Wastewater Allocation	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%

Proposed Debt Service

Future State Revolving Fund

DS - 5

Future State Revolving Fund Schedules

	2019	2020	2021	2022	2023	2024	2025
2019	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-
2024	-	-	-	-	-	-	-
2025	-	-	-	-	-	-	-
2026	-	-	-	-	-	-	-
2027	-	-	-	-	-	-	-
2028	-	-	-	-	-	-	-
2029	-	-	-	-	-	-	-
2030	-	-	-	-	-	-	-
2031	-	-	-	-	-	-	-
2032	-	-	-	-	-	-	-
2033	-	-	-	-	-	-	-
2034	-	-	-	-	-	-	-
2035	-	-	-	-	-	-	-
2036	-	-	-	-	-	-	-
2037	-	-	-	-	-	-	-
2038	-	-	-	-	-	-	-
2039	-	-	-	-	-	-	-
2040	-	-	-	-	-	-	-
2041	-	-	-	-	-	-	-
2042	-	-	-	-	-	-	-
2043	-	-	-	-	-	-	-
2044	-	-	-	-	-	-	-
2045	-	-	-	-	-	-	-
2046	-	-	-	-	-	-	-
2047	-	-	-	-	-	-	-
2048	-	-	-	-	-	-	-
2049	-	-	-	-	-	-	-
2050	-	-	-	-	-	-	-
2051	-	-	-	-	-	-	-
2052	-	-	-	-	-	-	-
Total Proposed SRF Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Proposed Debt Service

Future G.O. Bonds

DS - 6

	2019	2020	2021	2022	2023	2024	2025
Issuance Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual Payment	-	-	-	-	-	-	-
Term (yrs)	20	20	20	20	20	20	20
Interest Rate	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Issuance Costs	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Water Allocation	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Wastewater Allocation	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%

Proposed Debt Service

Future G.O. Bonds

DS - 6

Future G.O. Bonds Schedules	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-
2024	-	-	-	-	-	-	-
2025	-	-	-	-	-	-	-
2026	-	-	-	-	-	-	-
2027	-	-	-	-	-	-	-
2028	-	-	-	-	-	-	-
2029	-	-	-	-	-	-	-
2030	-	-	-	-	-	-	-
2031	-	-	-	-	-	-	-
2032	-	-	-	-	-	-	-
2033	-	-	-	-	-	-	-
2034	-	-	-	-	-	-	-
2035	-	-	-	-	-	-	-
2036	-	-	-	-	-	-	-
2037	-	-	-	-	-	-	-
2038	-	-	-	-	-	-	-
2039	-	-	-	-	-	-	-
2040	-	-	-	-	-	-	-
2041	-	-	-	-	-	-	-
2042	-	-	-	-	-	-	-
2043	-	-	-	-	-	-	-
2044	-	-	-	-	-	-	-
2045	-	-	-	-	-	-	-
2046	-	-	-	-	-	-	-
2047	-	-	-	-	-	-	-
2048	-	-	-	-	-	-	-
2049	-	-	-	-	-	-	-
2050	-	-	-	-	-	-	-
2051	-	-	-	-	-	-	-
2052	-	-	-	-	-	-	-
Total Proposed G.O. Bonds	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Existing & Proposed Debt Service

PWD Debt Service

DS - 7

Debt Service Summary

	2019	2020	2021	2022	2023	2024	2025
Existing Debt Service							
Revenue Bonds	$ 180,224,094	$ 196,265,692	$ 177,585,969	$ 167,288,306	$ 161,204,439	$ 140,923,033	$ 140,986,962
Parity PENNVEST	10,683,973	10,630,939	10,764,569	11,079,689	13,610,955	13,610,955	13,610,955
Subtotal Senior Debt	$ 190,908,067	$ 206,896,631	$ 188,350,537	$ 178,367,996	$ 174,815,394	$ 154,533,987	$ 154,597,917
G.O. Bonds	-	-	-	-	-	-	-
Total Existing Debt Service	$ 190,908,067	$ 206,896,631	$ 188,350,537	$ 178,367,996	$ 174,815,394	$ 154,533,987	$ 154,597,917
Proposed Debt Service							
Revenue Bonds	$ -	$ -	$ 7,000,000	$ 28,787,500	$ 59,345,474	$ 92,656,534	$ 128,031,103
Parity PENNVEST	-	-	-	-	-	-	-
Subtotal Senior Debt	$ -	$ -	$ 7,000,000	$ 28,787,500	$ 59,345,474	$ 92,656,534	$ 128,031,103
G.O. Bonds	-	-	-	-	-	-	-
Total Debt Service	$ -	$ -	$ 7,000,000	$ 28,787,500	$ 59,345,474	$ 92,656,534	$ 128,031,103
Total Debt Service	$ 190,908,067	$ 206,896,631	$ 195,350,537	$ 207,155,496	$ 234,160,868	$ 247,190,521	$ 282,629,020

Existing & Proposed Debt Service

PWD Debt Service

DS - 7

Cumulative Revenue Bond Debt Service

	Existing Debt	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	$ 190,908,067	$ 190,908,067						
2020	206,896,631	206,896,631	206,896,631					
2021	188,350,537	188,350,537	188,350,537	195,350,537				
2022	178,367,996	178,367,996	178,367,996	199,367,996	207,155,496			
2023	174,815,394	174,815,394	174,815,394	202,398,368	225,760,868	234,160,868		
2024	154,533,987	154,533,987	154,533,987	182,116,962	212,803,021	238,003,021	247,190,521	
2025	154,597,917	154,597,917	154,597,917	182,180,892	212,866,951	245,966,520	273,529,020	282,629,020
2026	155,528,687	155,528,687	155,528,687	183,111,662	213,797,721	246,897,290	283,099,944	310,399,944
2027	155,492,894	155,492,894	155,492,894	183,075,868	213,761,927	246,861,497	283,064,151	318,922,018
2028	140,324,223	140,324,223	140,324,223	167,907,198	198,593,257	231,692,826	267,895,480	303,753,347
2029	142,998,709	142,998,709	142,998,709	170,581,684	201,267,743	234,367,312	270,569,966	306,427,833
2030	135,403,729	135,403,729	135,403,729	162,986,703	193,672,762	226,772,331	262,974,985	298,832,852
2031	135,480,912	135,480,912	135,480,912	163,063,886	193,749,946	226,849,515	263,052,169	298,910,036
2032	132,548,790	132,548,790	132,548,790	160,131,764	190,817,823	223,917,393	260,120,047	295,977,914
2033	118,176,511	118,176,511	118,176,511	145,759,486	176,445,545	209,545,114	245,747,768	281,605,635
2034	116,402,748	116,402,748	116,402,748	143,985,723	174,671,782	207,771,351	243,974,005	279,831,872
2035	115,941,649	115,941,649	115,941,649	143,524,624	174,210,683	207,310,252	243,512,906	279,370,773
2036	117,340,044	117,340,044	117,340,044	144,923,019	175,609,078	208,708,647	244,911,301	280,769,168
2037	115,531,063	115,531,063	115,531,063	143,114,037	173,800,096	206,899,666	243,102,320	278,960,186
2038	115,524,894	115,524,894	115,524,894	143,107,868	173,793,927	206,893,497	243,096,151	278,954,018
2039	115,534,659	115,534,659	115,534,659	143,117,634	173,803,693	206,903,262	243,105,916	278,963,783
2040	115,532,330	115,532,330	115,532,330	143,115,305	173,801,364	206,900,933	243,103,587	278,961,454
2041	120,980,205	120,980,205	120,980,205	148,563,179	179,249,238	212,348,808	248,551,462	284,409,328
2042	114,486,464	114,486,464	114,486,464	142,069,438	172,755,497	205,855,067	242,057,721	277,915,588
2043	111,302,256	111,302,256	111,302,256	138,885,231	169,571,290	202,670,859	238,873,513	274,731,380
2044	104,912,625	104,912,625	104,912,625	132,495,599	163,181,659	196,281,228	232,483,882	268,341,749
2045	94,142,500	94,142,500	94,142,500	121,725,474	152,411,534	185,511,103	221,713,757	257,571,624
2046	94,147,000	94,147,000	94,147,000	121,729,974	152,416,034	185,515,603	221,718,257	257,576,124
2047	59,098,250	59,098,250	59,098,250	86,681,224	117,367,284	150,466,853	186,669,507	222,527,374
2048	59,103,000	59,103,000	59,103,000	86,685,974	117,372,034	150,471,603	186,674,257	222,532,124
2049	59,099,906	59,099,906	59,099,906	86,682,880	117,368,940	150,468,509	186,671,163	222,529,030
2050	59,102,381	59,102,381	59,102,381	86,685,355	117,371,415	150,470,984	186,673,638	222,531,505
2051	59,099,781	59,099,781	59,099,781	73,099,781	103,785,840	136,885,410	173,088,064	208,945,931
2052	59,096,044	59,096,044	59,096,044	59,096,044	74,671,044	107,770,613	143,973,267	179,831,134
Max	$ 206,896,631	$ 206,896,631	$ 206,896,631	$ 202,398,368	$ 225,760,868	$ 246,897,290	$ 283,099,944	$ 318,922,018
Required DSR Deposit		$ -	$ 4,077,890	$ 14,047,831	$ 23,362,500	$ 21,136,422	$ 36,202,654	$ 35,822,073
End of Year Evaluation								
Max	$ 206,896,631	$ 206,896,631	$ 188,350,537	$ 202,398,368	$ 225,760,868	$ 246,897,290	$ 283,099,944	$ 318,922,018
Projected DSR Release		$ -	$ (18,546,093)	$ -	$ -	$ -	$ -	$ -
Projected Debt Service Reserve		$ 199,460,000	$ 184,991,797	$ 199,039,628	$ 222,402,128	$ 243,538,550	$ 279,741,204	$ 315,563,277

Water System Debt Service

DS - 8

Debt Service Summary

	2019	2020	2021	2022	2023	2024	2025
Existing Debt Service							
Revenue Bonds	$ 63,744,087	$ 63,775,137	$ 56,791,853	$ 54,430,499	$ 52,627,198	$ 49,005,805	$ 49,086,725
Parity PENNVEST	4,428,967	4,353,412	4,487,042	4,802,163	7,333,428	7,333,428	7,333,428
Subtotal Senior Debt	$ 68,173,054	$ 68,128,550	$ 61,278,895	$ 59,232,662	$ 59,960,626	$ 56,339,233	$ 56,420,153
G.O. Bonds	-	-	-	-	-	-	-
Total Existing Debt Service	$ 68,173,054	$ 68,128,550	$ 61,278,895	$ 59,232,662	$ 59,960,626	$ 56,339,233	$ 56,420,153
Proposed Debt Service							
Revenue Bonds	$ -	$ -	$ 3,150,000	$ 13,457,500	$ 28,494,839	$ 45,546,091	$ 65,359,217
Parity PENNVEST	-	-	-	-	-	-	-
Subtotal Senior Debt	$ -	$ -	$ 3,150,000	$ 13,457,500	$ 28,494,839	$ 45,546,091	$ 65,359,217
G.O. Bonds	-	-	-	-	-	-	-
Total Debt Service	$ -	$ -	$ 3,150,000	$ 13,457,500	$ 28,494,839	$ 45,546,091	$ 65,359,217
Total Debt Service							
Revenue Bonds	$ 63,744,087	$ 63,775,137	$ 59,941,853	$ 67,887,999	$ 81,122,036	$ 94,551,896	$ 114,445,941
Parity PENNVEST	4,428,967	4,353,412	4,487,042	4,802,163	7,333,428	7,333,428	7,333,428
Subtotal Senior Debt	$ 68,173,054	$ 68,128,550	$ 64,428,895	$ 72,690,162	$ 88,455,464	$ 101,885,325	$ 121,779,369
G.O. Bonds	-	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-	-
Total Debt Service	$ 68,173,054	$ 68,128,550	$ 64,428,895	$ 72,690,162	$ 88,455,464	$ 101,885,325	$ 121,779,369

Water System Debt Service

DS - 8

Cumulative Revenue Bond Debt Service

	Existing Debt	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	68,173,054	68,173,054						
2020	68,128,550	68,128,550	68,128,550					
2021	61,278,895	61,278,895	61,278,895	64,428,895				
2022	59,232,662	59,232,662	59,232,662	68,682,662	72,690,162			
2023	59,960,626	59,960,626	59,960,626	72,372,964	84,395,464	88,455,464		
2024	56,339,233	56,339,233	56,339,233	68,751,572	84,542,825	96,722,825	101,885,325	
2025	56,420,153	56,420,153	56,420,153	68,832,491	84,623,744	100,621,869	116,109,369	121,779,369
2026	56,597,593	56,597,593	56,597,593	69,009,932	84,801,184	100,799,310	121,141,753	138,151,753
2027	56,494,137	56,494,137	56,494,137	68,906,476	84,697,729	100,695,854	121,038,298	143,380,507
2028	51,836,031	51,836,031	51,836,031	64,248,369	80,039,622	96,037,747	116,380,191	138,722,400
2029	48,898,483	48,898,483	48,898,483	61,310,821	77,102,074	93,100,199	113,442,643	135,784,852
2030	49,457,552	49,457,552	49,457,552	61,869,890	77,661,143	93,659,268	114,001,712	136,343,921
2031	49,397,905	49,397,905	49,397,905	61,810,243	77,601,496	93,599,621	113,942,065	136,284,274
2032	49,201,267	49,201,267	49,201,267	61,613,605	77,404,858	93,402,984	113,745,427	136,087,637
2033	43,991,290	43,991,290	43,991,290	56,403,628	72,194,881	88,193,006	108,535,450	130,877,659
2034	43,594,651	43,594,651	43,594,651	56,006,989	71,798,242	87,796,367	108,138,811	130,481,020
2035	43,595,957	43,595,957	43,595,957	56,008,296	71,799,549	87,797,674	108,140,118	130,482,327
2036	43,539,274	43,539,274	43,539,274	55,951,612	71,742,865	87,740,990	108,083,434	130,425,643
2037	44,100,161	44,100,161	44,100,161	56,512,500	72,303,753	88,301,878	108,644,322	130,986,531
2038	44,097,071	44,097,071	44,097,071	56,509,410	72,300,663	88,298,788	108,641,231	130,983,441
2039	44,100,565	44,100,565	44,100,565	56,512,903	72,304,156	88,302,281	108,644,725	130,986,934
2040	44,099,220	44,099,220	44,099,220	56,511,559	72,302,812	88,300,937	108,643,381	130,985,590
2041	42,861,088	42,861,088	42,861,088	55,273,427	71,064,680	87,062,805	107,405,249	129,747,458
2042	43,730,082	43,730,082	43,730,082	56,142,420	71,933,673	87,931,798	108,274,242	130,616,451
2043	40,547,748	40,547,748	40,547,748	52,960,087	68,751,340	84,749,465	105,091,909	127,434,118
2044	41,930,516	41,930,516	41,930,516	54,342,854	70,134,107	86,132,232	106,474,676	128,816,885
2045	39,843,170	39,843,170	39,843,170	52,255,509	68,046,762	84,044,887	104,387,331	126,729,540
2046	39,845,112	39,845,112	39,845,112	52,257,450	68,048,703	84,046,828	104,389,272	126,731,481
2047	25,124,742	25,124,742	25,124,742	37,537,081	53,328,334	69,326,459	89,668,903	112,011,112
2048	25,126,737	25,126,737	25,126,737	37,539,075	53,330,328	69,328,453	89,670,897	112,013,106
2049	25,125,382	25,125,382	25,125,382	37,537,721	53,328,974	69,327,099	89,669,543	112,011,752
2050	25,126,347	25,126,347	25,126,347	37,538,685	53,329,938	69,328,063	89,670,507	112,012,716
2051	25,125,366	25,125,366	25,125,366	31,425,366	47,216,619	63,214,744	83,557,187	105,899,397
2052	25,123,792	25,123,792	25,123,792	25,123,792	33,138,792	49,136,917	69,479,361	91,821,570
Max	$ 68,173,054	$ 68,173,054	$ 68,128,550	$ 72,372,964	$ 84,801,184	$ 100,799,310	$ 121,141,753	$ 143,380,507
Required DSR Deposit		$ -	$ -	$ 4,244,415	$ 12,428,220	$ 15,998,125	$ 20,342,444	$ 22,238,754

Wastewater System Debt Service

DS - 9

Debt Service Summary

	2019	2020	2021	2022	2023	2024	2025
Existing Debt Service							
Revenue Bonds	$ 116,480,007	$ 132,490,554	$ 120,794,116	$ 112,857,807	$ 108,577,241	$ 91,917,228	$ 91,900,238
Parity PENNVEST	6,255,007	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527
Subtotal Senior Debt	$ 122,735,013	$ 138,768,081	$ 127,071,642	$ 119,135,334	$ 114,854,768	$ 98,194,754	$ 98,177,764
G.O. Bonds	-	-	-	-	-	-	-
Total Existing Debt Service	$ 122,735,013	$ 138,768,081	$ 127,071,642	$ 119,135,334	$ 114,854,768	$ 98,194,754	$ 98,177,764
Proposed Debt Service							
Revenue Bonds	$ -	$ -	$ 3,850,000	$ 15,330,000	$ 30,850,636	$ 47,110,442	$ 62,671,886
Parity PENNVEST	-	-	-	-	-	-	-
Subtotal Senior Debt	$ -	$ -	$ 3,850,000	$ 15,330,000	$ 30,850,636	$ 47,110,442	$ 62,671,886
G.O. Bonds	-	-	-	-	-	-	-
Total Proposed Debt Service	$ -	$ -	$ 3,850,000	$ 15,330,000	$ 30,850,636	$ 47,110,442	$ 62,671,886
Total Debt Service							
Revenue Bonds	$ 116,480,007	$ 132,490,554	$ 124,644,116	$ 128,187,807	$ 139,427,877	$ 139,027,670	$ 154,572,124
Parity PENNVEST	6,255,007	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527
Subtotal Senior Debt	$ 122,735,013	$ 138,768,081	$ 130,921,642	$ 134,465,334	$ 145,705,404	$ 145,305,196	$ 160,849,651
G.O. Bonds	-	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-	-
Total Debt Service	$ 122,735,013	$ 138,768,081	$ 130,921,642	$ 134,465,334	$ 145,705,404	$ 145,305,196	$ 160,849,651

Wastewater System Debt Service

DS - 9

Cumulative Revenue Bond Debt Service

	Existing Debt	Series 2019	Series 2020	Series 2021	Series 2022	Series 2023	Series 2024	Series 2025
2019	122,735,013	122,735,013						
2020	138,768,081	138,768,081	138,768,081					
2021	127,071,642	127,071,642	127,071,642	130,921,642				
2022	119,135,334	119,135,334	119,135,334	130,685,334	134,465,334			
2023	114,854,768	114,854,768	114,854,768	130,025,404	141,365,404	145,705,404		
2024	98,194,754	98,194,754	98,194,754	113,365,390	128,260,196	141,280,196	145,305,196	
2025	98,177,764	98,177,764	98,177,764	113,348,400	128,243,206	145,344,651	157,419,651	160,849,651
2026	98,931,094	98,931,094	98,931,094	114,101,730	128,996,536	146,097,981	161,958,191	172,248,191
2027	98,998,756	98,998,756	98,998,756	114,169,392	129,064,199	146,165,643	162,025,853	175,541,511
2028	88,488,193	88,488,193	88,488,193	103,658,829	118,553,635	135,655,079	151,515,290	165,030,947
2029	94,100,227	94,100,227	94,100,227	109,270,863	124,165,669	141,267,113	157,127,323	170,642,981
2030	85,946,177	85,946,177	85,946,177	101,116,813	116,011,619	133,113,063	148,973,273	162,488,931
2031	86,083,007	86,083,007	86,083,007	101,253,643	116,148,450	133,249,894	149,110,104	162,625,762
2032	83,347,523	83,347,523	83,347,523	98,518,159	113,412,965	130,514,409	146,374,620	159,890,277
2033	74,185,221	74,185,221	74,185,221	89,355,857	104,250,664	121,352,108	137,212,318	150,727,976
2034	72,808,098	72,808,098	72,808,098	87,978,734	102,873,540	119,974,984	135,835,194	149,350,852
2035	72,345,692	72,345,692	72,345,692	87,516,328	102,411,134	119,512,578	135,372,788	148,888,446
2036	73,800,770	73,800,770	73,800,770	88,971,406	103,866,212	120,967,657	136,827,867	150,343,524
2037	71,430,901	71,430,901	71,430,901	86,601,537	101,496,343	118,597,788	134,457,998	147,973,655
2038	71,427,823	71,427,823	71,427,823	86,598,459	101,493,265	118,594,709	134,454,919	147,970,577
2039	71,434,094	71,434,094	71,434,094	86,604,730	101,499,536	118,600,981	134,461,191	147,976,848
2040	71,433,110	71,433,110	71,433,110	86,603,746	101,498,552	118,599,996	134,460,207	147,975,864
2041	78,119,116	78,119,116	78,119,116	93,289,752	108,184,559	125,286,003	141,146,213	154,661,871
2042	70,756,382	70,756,382	70,756,382	85,927,018	100,821,824	117,923,268	133,783,479	147,299,136
2043	70,754,508	70,754,508	70,754,508	85,925,144	100,819,950	117,921,394	133,781,605	147,297,262
2044	62,982,109	62,982,109	62,982,109	78,152,745	93,047,552	110,148,996	126,009,206	139,524,864
2045	54,299,330	54,299,330	54,299,330	69,469,966	84,364,772	101,466,216	117,326,426	130,842,084
2046	54,301,888	54,301,888	54,301,888	69,472,524	84,367,330	101,468,774	117,328,985	130,844,642
2047	33,973,508	33,973,508	33,973,508	49,144,144	64,038,950	81,140,394	97,000,604	110,516,262
2048	33,976,263	33,976,263	33,976,263	49,146,899	64,041,706	81,143,150	97,003,360	110,519,018
2049	33,973,559	33,973,559	33,973,559	49,144,195	64,039,002	81,140,446	97,000,656	110,516,314
2050	33,977,015	33,977,015	33,977,015	55,259,990	70,154,796	87,256,240	103,116,451	116,632,108
2051	33,975,990	33,975,990	33,975,990	47,975,990	70,647,049	87,748,493	103,608,703	117,124,361
2052	59,096,044	59,096,044	59,096,044	59,096,044	74,671,044	107,770,613	143,973,267	179,831,134
Max $	138,768,081	$ 138,768,081	$ 138,768,081	$ 130,921,642	$ 141,365,404	$ 146,165,643	$ 162,025,853	$ 175,541,511
Required DSR Deposit		$ -	$ -	$ -	$ 10,443,762	$ 4,800,239	$ 15,860,210	$ 13,515,657

FINPLAN19.XLS

FUNDS

Index	Description	Table
Funds	**Funds Worksheet**	
Funds - 1	Combined System Funds	TABLE C-8
Funds - 2	Water System Fund Balances	TABLE W-4
Funds - 3	Wastewater System Fund Balances	TABLE WW

Description	2019	2020	2021	2022	2023	2024	2025
Combined System Funds							**Funds - 1**
Projected Flow of Funds - Construction Fund							
Construction Funds Available							
Beginning Balance	$ 226,272,364	$ 270,235,379	$ 280,054,976	$ 309,374,372	$ 311,415,082	$ 334,350,452	$ 329,259,322
Transfer from Revenue Bond Proceeds	301,842,583	305,833,934	400,000,000	445,000,000	480,000,000	525,000,000	520,000,000
PENNVest Loan Proceeds	-	-	-	-	-	-	-
General Obligation Bonds	-	-	-	-	-	-	-
Non-City Sources	-	-	19,875,000	26,500,000	6,625,000	-	-
Grants	-						
Transfer from Residual Fund (Cash Financing)	35,152,450	35,800,000	29,600,000	30,800,000	36,300,000	37,600,000	45,200,000
Capital Account Deposit	24,878,890	27,065,040	29,230,243	31,568,663	34,094,156	36,821,688	39,767,423
Interest	3,909,995	2,737,763	2,932,484	3,088,505	3,212,764	3,301,541	3,345,288
Total Funds Available	$ 592,056,281	$ 641,672,116	$ 761,692,703	$ 846,331,539	$ 871,647,002	$ 937,073,682	$ 937,572,034
Construction Funds Used							
Capital Improvements	$ 319,978,320	$ 355,787,040	$ 435,910,500	$ 508,928,457	$ 513,328,128	$ 568,514,205	$ 555,538,370
Revenue Bond Issuance Expense	1,842,583	1,752,210	2,360,000	2,625,500	2,832,000	3,097,500	3,068,000
Revenue Bond Debt Service Reserve Requirement	-	4,077,890	14,047,831	23,362,500	21,136,422	36,202,654	35,822,073
State Revolving Fund Issuance Expense	-	-	-	-	-	-	-
General Obligation Bond Issuance Expense	-	-	-	-	-	-	-
Total Funds Utilized	$ 321,820,903	$ 361,617,140	$ 452,318,331	$ 534,916,457	$ 537,296,549	$ 607,814,359	$ 594,428,443
Ending Balance	**$ 270,235,379**	**$ 280,054,976**	**$ 309,374,372**	**$ 311,415,082**	**$ 334,350,452**	**$ 329,259,322**	**$ 343,143,591**
Balance Target	**$ 148,244,600**	**$ 181,629,375**	**$ 212,053,524**	**$ 213,886,720**	**$ 236,880,919**	**$ 231,474,321**	**$ 244,473,628**
Interest Income	$ 3,909,995	$ 2,737,763	$ 2,932,484	$ 3,088,505	$ 3,212,764	$ 3,301,541	$ 3,345,288
Projected Flow of Funds - Rate Stabilization							
Rate Stabilization Funds Available							
Beginning Balance	$ 179,403,369	$ 178,861,112	$ 157,261,112	$ 149,061,112	$ 148,161,112	$ 138,961,112	$ 143,461,112
Deposit From (to) Operating Fund	(542,257)	(21,600,000)	(8,200,000)	(900,000)	(9,200,000)	4,500,000	(7,700,000)
Ending Balance	**$ 178,861,112**	**$ 157,261,112**	**$ 149,061,112**	**$ 148,161,112**	**$ 138,961,112**	**$ 143,461,112**	**$ 135,761,112**
Interest Income	$ 2,843,724	$ 1,680,611	$ 1,531,611	$ 1,486,111	$ 1,435,611	$ 1,412,111	$ 1,396,111
Projected Flow of Funds - Debt Service Reserve							
Debt Service Reserve Funds Available							
Beginning Balance	$ 199,460,000	$ 199,460,000	$ 184,991,797	$ 199,039,628	$ 222,402,128	$ 243,538,550	$ 279,741,204
Transfer From Bond Proceeds	-	4,077,890	14,047,831	23,362,500	21,136,422	36,202,654	35,822,073
Transfer From Residual Fund	-	-	-	-	-	-	-
Debt Service Fund Release	-	(18,546,093)	-	-	-	-	-
Ending Balance	**$ 199,460,000**	**$ 184,991,797**	**$ 199,039,628**	**$ 222,402,128**	**$ 243,538,550**	**$ 279,741,204**	**$ 315,563,277**
Interest Income	$ 4,094,814	$ 1,922,259	$ 1,920,157	$ 2,107,209	$ 2,329,703	$ 2,616,399	$ 2,976,522

Note - End of Year FY 2019 fund balances reflect preliminary results for FY 2019.

Description	2019	2020	2021	2022	2023	2024	2025
Projected Flow of Funds - Revenue Fund							
Revenue Funds Available							
Beginning Balance	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670
Existing Service Charge Revenues	707,352,775	715,395,437	711,876,391	706,991,127	701,584,462	696,163,157	690,765,958
Additional Service Charge Revenues	-	-	36,105,597	81,914,457	133,386,279	188,280,587	246,058,001
Other Operating Revenue	30,234,905	47,656,775	29,445,375	29,365,863	29,280,786	29,196,442	29,112,627
Interest Earnings	1,704,284	984,785	1,035,171	1,089,644	1,088,910	1,177,149	1,169,235
Construction Fund Interest Earnings	-	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	2,843,724	1,680,611	1,531,611	1,486,111	1,435,611	1,412,111	1,396,111
Transfer from Rate Stabilization Fund	542,257	21,600,000	8,200,000	900,000	9,200,000	-	7,700,000
Total Funds Available	$ 821,721,616	$ 866,361,279	$ 867,237,816	$ 900,790,871	$ 955,019,719	$ 995,273,116	$ 1,055,245,603
Revenue Funds Used							
Total Operating Expense	491,758,282	518,270,615	534,165,085	552,364,175	571,484,829	590,284,411	608,717,111
Total Senior Debt Service	190,908,067	206,896,631	195,350,537	207,155,496	234,160,868	247,190,521	282,629,020
Total Subordinate Debt Service	-	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-	-
Capital Account Deposit	24,878,890	27,065,040	29,230,243	31,568,663	34,094,156	36,821,688	39,767,423
Transfer to Rate Stabilization Fund	-	-	-	-	-	4,500,000	-
Transfer to Residual Fund	35,132,707	35,085,323	29,448,281	30,658,868	36,236,196	37,432,826	45,088,379
Total Funds Utilized	$ 742,677,946	$ 787,317,609	$ 788,194,146	$ 821,747,201	$ 875,976,049	$ 916,229,446	$ 976,201,933
Ending Balance	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670	$ 79,043,670
Projected Flow of Funds - Residual Fund							
Operating Funds Available							
Beginning Balance	$ 15,440,795	$ 15,666,018	$ 15,104,428	$ 15,102,995	$ 15,112,187	$ 15,199,185	$ 15,183,167
Transfer from Revenue Fund	35,132,707	35,085,323	29,448,281	30,658,868	36,236,196	37,432,826	45,088,379
Interest on Debt Service Reserve to fund Transfer to General Fund	4,094,814	1,922,259	1,920,157	2,107,209	2,329,703	2,616,399	2,976,522
Transfer to Debt Service Reserve	-	-	-	-	-	-	-
Transfer to Construction Fund	(35,152,450)	(35,800,000)	(29,600,000)	(30,800,000)	(36,300,000)	(37,600,000)	(45,200,000)
Transfer To General Fund	(4,094,814)	(1,922,259)	(1,920,157)	(2,107,209)	(2,329,703)	(2,616,399)	(2,976,522)
Ending Balance (prior to interest)	$ 15,421,052	$ 14,951,341	$ 14,952,709	$ 14,961,863	$ 15,048,383	$ 15,032,011	$ 15,071,546
Interest Income	244,966	153,087	150,286	150,324	150,803	151,156	151,274
Ending Balance	**$ 15,666,018**	**$ 15,104,428**	**$ 15,102,995**	**$ 15,112,187**	**$ 15,199,185**	**$ 15,183,167**	**$ 15,222,820**

Description		2019	2020	2021	2022	2023	2024	2025
Water System Fund Balances								**Funds - 2**
Projected Flow of Funds - Construction Fund								
Construction Funds Available								
Beginning Balance	**44.0%**	99,583,850	$ 119,286,281	$ 108,144,701	$ 151,325,521	$ 167,377,871	$ 144,977,782	$ 202,608,357
Transfer from Revenue Bond Proceeds		136,500,000	126,000,000	180,000,000	229,000,000	232,000,000	295,000,000	324,000,000
PENNVest Loan Proceeds		-	-	-	-	-	-	-
General Obligation Bonds		-	-	-	-	-	-	-
Non-City Sources			-	19,875,000	26,500,000	6,625,000	-	-
Grants								
Transfer from Residual Fund (Cash Financing)		11,500,000	9,600,000	7,400,000	8,900,000	12,600,000	15,500,000	20,300,000
Capital Account Deposit		10,215,272	11,112,905	12,001,938	12,962,093	13,999,060	15,118,985	16,328,504
Interest		1,723,601	1,131,497	1,290,897	1,585,589	1,554,008	1,729,284	1,991,248
Total Funds Available		$ 259,522,723	$ 267,130,684	$ 328,712,536	$ 430,273,203	$ 434,155,940	$ 472,326,051	$ 565,228,109
Construction Funds Used								
Capital Improvements		$ 139,403,184	$ 156,584,050	$ 170,003,491	$ 249,521,732	$ 277,593,421	$ 247,634,750	$ 343,364,166
Revenue Bond Issuance Expense		833,257	721,890	1,062,000	1,351,100	1,368,800	1,740,500	1,911,600
Revenue Bond Debt Service Reserve Requirement		-	1,680,043	6,321,524	12,022,500	10,215,937	20,342,444	22,319,907
State Revolving Fund Issuance Expense		-	-	-	-	-	-	-
General Obligation Bond Issuance Expense		-	-	-	-	-	-	-
Total Funds Utilized		$ 140,236,441	$ 158,985,983	$ 177,387,015	$ 262,895,332	$ 289,178,158	$ 269,717,694	$ 367,595,674
Ending Balance		**$ 119,286,281**	**$ 108,144,701**	**$ 151,325,521**	**$ 167,377,871**	**$ 144,977,782**	**$ 202,608,357**	**$ 197,632,435**
Balance Target		**$ 65,243,354**	**$ 70,834,788**	**$ 103,967,388**	**$ 115,663,925**	**$ 103,181,146**	**$ 143,068,403**	**$ 141,215,667**
Ending Balance (Excluding Interest)		$ 117,562,681	$ 107,013,204	$ 150,034,624	$ 165,792,282	$ 143,423,773	$ 200,879,073	$ 195,641,188
Interest Income		$ 1,723,601	$ 1,131,497	$ 1,290,897	$ 1,585,589	$ 1,554,008	$ 1,729,284	$ 1,991,248
Projected Flow of Funds - Rate Stabilization								
Rate Stabilization Funds Available								
Beginning Balance		$ 71,761,348	$ 81,061,348	$ 80,861,348	$ 82,011,348	$ 77,411,348	$ 70,861,348	$ 71,011,348
Deposit From (to) Operating Fund		9,300,000	(200,000)	1,150,000	(4,600,000)	(6,550,000)	150,000	1,650,000
Ending Balance		**$ 81,061,348**	**$ 80,861,348**	**$ 82,011,348**	**$ 77,411,348**	**$ 70,861,348**	**$ 71,011,348**	**$ 72,661,348**
Interest Income		$ 1,213,030	$ 809,613	$ 814,363	$ 797,113	$ 741,363	$ 709,363	$ 718,363
Projected Flow of Funds - Debt Service Reserve								
Debt Service Reserve Funds Available								
Beginning Balance		$ 65,708,528	$ 65,708,528	$ 61,281,567	$ 67,603,091	$ 79,625,591	$ 89,841,528	$ 110,183,972
Transfer From Bond Proceeds		-	1,680,043	6,321,524	12,022,500	10,215,937	20,342,444	22,319,907
Transfer From Residual Fund		-	-	-	-	-	-	-
Debt Service Reserve Fund Release		-	(6,107,003)	-	-	-	-	-
Ending Balance		**$ 65,708,528**	**$ 61,281,567**	**$ 67,603,091**	**$ 79,625,591**	**$ 89,841,528**	**$ 110,183,972**	**$ 132,503,879**
Interest Income		$ 1,348,963	$ 634,950	$ 644,423	$ 736,143	$ 847,336	$ 1,000,128	$ 1,213,439

Description	2019	2020	2021	2022	2023	2024	2025
Projected Flow of Funds - Revenue Fund							
Revenue Funds Available							
Beginning Balance	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468
Existing Service Charge Revenues	278,897,436	276,970,480	273,936,337	271,454,322	269,032,667	266,629,737	264,236,303
Additional Service Charge Revenues	-	-	12,324,021	27,814,026	57,105,282	91,826,754	129,723,485
Other Operating Revenue	15,152,037	20,935,410	14,977,285	14,940,089	14,903,053	14,866,020	14,829,147
Interest Earnings	734,117	413,465	414,523	398,233	412,525	466,406	503,619
Construction Fund Interest Earnings	-	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	1,213,030	809,613	814,363	797,113	741,363	709,363	718,363
Transfer from Rate Stabilization Fund	-	200,000	-	4,600,000	6,550,000	-	-
Total Funds Available	$ 327,614,088	$ 330,946,436	$ 334,083,998	$ 351,621,251	$ 380,362,359	$ 406,115,748	$ 441,628,386
Revenue Funds Used							
Total Operating Expense	197,358,302	210,732,826	217,553,656	225,504,770	233,727,910	241,857,423	250,024,236
Total Senior Debt Service	68,173,054	68,128,550	64,428,895	72,690,162	88,455,464	101,885,325	121,779,369
Total Subordinate Debt Service	-	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-	-
Capital Account Deposit	10,215,272	11,112,905	12,001,938	12,962,093	13,999,060	15,118,985	16,328,504
Transfer to Rate Stabilization Fund	9,300,000	-	1,150,000	-	-	150,000	1,650,000
Transfer to Residual Fund	10,949,993	9,354,687	7,332,041	8,846,759	12,562,455	15,486,547	20,228,809
Total Funds Utilized	$ 295,996,620	$ 299,328,968	$ 302,466,530	$ 320,003,783	$ 348,744,891	$ 374,498,280	$ 410,010,918
Ending Balance	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468	$ 31,617,468
Projected Flow of Funds - Residual Fund							
Operating Funds Available							
Beginning Balance	$ 6,795,588	$ 6,349,095	$ 6,166,046	$ 6,159,408	$ 6,167,495	$ 6,191,437	$ 6,239,831
Transfer from Revenue Fund	10,949,993	9,354,687	7,332,041	8,846,759	12,562,455	15,486,547	20,228,809
Debt Service Reserve Interest to fund Transfer to General Fund	1,348,963	634,950	644,423	736,143	847,336	1,000,128	1,213,439
Transfer to Debt Service Reserve	-	-	-	-	-	-	-
Transfer to Construction Fund	(11,500,000)	(9,600,000)	(7,400,000)	(8,900,000)	(12,600,000)	(15,500,000)	(20,300,000)
Transfer to General Fund	(1,348,963)	(634,950)	(644,423)	(736,143)	(847,336)	(1,000,128)	(1,213,439)
Ending Balance (prior to interest)	$ 6,245,581	$ 6,103,782	$ 6,098,087	$ 6,106,167	$ 6,129,950	$ 6,177,984	$ 6,168,640
Interest Income	103,514	62,264	61,321	61,328	61,487	61,847	62,042
Ending Balance	**$ 6,349,095**	**$ 6,166,046**	**$ 6,159,408**	**$ 6,167,495**	**$ 6,191,437**	**$ 6,239,831**	**$ 6,230,682**

Description	2019	2020	2021	2022	2023	2024	2025
Wastewater System Fund Balances							**Funds - 3**
Projected Flow of Funds - Construction Fund							
Construction Funds Available							
Beginning Balance	126,688,514	$ 150,949,097	$ 171,910,274	$ 158,048,851	$ 144,037,211	$ 189,372,671	$ 126,650,965
Transfer from Revenue Bond Proceeds	165,342,583	179,833,934	220,000,000	216,000,000	248,000,000	230,000,000	196,000,000
PENNVest Loan Proceeds	-	-	-	-	-	-	-
General Obligation Bonds	-	-	-	-	-	-	-
Non-City Sources		-	-	-	-	-	-
Grants							
Transfer from Residual Fund (Cash Financing)	23,652,450	26,200,000	22,200,000	21,900,000	23,700,000	22,100,000	24,900,000
Capital Account Deposit	14,663,618	15,952,135	17,228,305	18,606,570	20,095,095	21,702,703	23,438,919
Interest	2,186,394	1,606,266	1,641,588	1,502,916	1,658,756	1,572,257	1,354,040
Total Funds Available	$ 332,533,559	$ 374,541,432	$ 432,980,167	$ 416,058,337	$ 437,491,062	$ 464,747,631	$ 372,343,925
Construction Funds Used							
Capital Improvements	$ 180,575,136	$ 199,202,990	$ 265,907,009	$ 259,406,725	$ 235,734,707	$ 320,879,455	$ 212,174,203
Revenue Bond Issuance Expense	1,009,326	1,030,320	1,298,000	1,274,400	1,463,200	1,357,000	1,156,400
Revenue Bond Debt Service Reserve Requirement	-	2,397,847	7,726,307	11,340,000	10,920,485	15,860,210	13,502,166
State Revolving Fund Issuance Expense	-	-	-	-	-	-	-
General Obligation Bond Issuance Expense	-	-	-	-	-	-	-
Total Funds Utilized	$ 181,584,461	$ 202,631,157	$ 274,931,316	$ 272,021,125	$ 248,118,392	$ 338,096,666	$ 226,832,769
Ending Balance	**$ 150,949,097**	**$ 171,910,274**	**$ 158,048,851**	**$ 144,037,211**	**$ 189,372,671**	**$ 126,650,965**	**$ 145,511,155**
Balance Target	**$ 83,001,246**	**$ 110,794,587**	**$ 108,086,136**	**$ 98,222,795**	**$ 133,699,773**	**$ 88,405,918**	**$ 103,257,961**
Ending Balance (Excluding Interest)	$ 148,762,703	$ 170,304,009	$ 156,407,263	$ 142,534,296	$ 187,713,915	$ 125,078,708	$ 144,157,115
Interest Income	$ 2,186,394	$ 1,606,266	$ 1,641,588	$ 1,502,916	$ 1,658,756	$ 1,572,257	$ 1,354,040
Projected Flow of Funds - Rate Stabilization							
Rate Stabilization Funds Available							
Beginning Balance	$ 107,642,021	$ 97,799,764	$ 76,399,764	$ 67,049,764	$ 70,749,764	$ 68,099,764	$ 72,449,764
Deposit From (to) Operating Fund	(9,842,257)	(21,400,000)	(9,350,000)	3,700,000	(2,650,000)	4,350,000	(9,350,000)
Ending Balance	**$ 97,799,764**	**$ 76,399,764**	**$ 67,049,764**	**$ 70,749,764**	**$ 68,099,764**	**$ 72,449,764**	**$ 63,099,764**
Interest Income	$ 1,630,694	$ 870,998	$ 717,248	$ 688,998	$ 694,248	$ 702,748	$ 677,748
Projected Flow of Funds - Debt Service Reserve							
Debt Service Reserve Funds Available							
Beginning Balance	$ 133,751,472	$ 133,751,472	$ 123,710,229	$ 131,436,537	$ 142,776,537	$ 153,697,021	$ 169,557,232
Transfer From Bond Proceeds	-	2,397,847	7,726,307	11,340,000	10,920,485	15,860,210	13,502,166
Transfer From Residual Fund	-	-	-	-	-	-	-
Debt Service Reserve Funds Release	-	(12,439,090)	-	-	-	-	-
Ending Balance	**$ 133,751,472**	**$ 123,710,229**	**$ 131,436,537**	**$ 142,776,537**	**$ 153,697,021**	**$ 169,557,232**	**$ 183,059,398**
Interest Income	$ 2,745,851	$ 1,287,309	$ 1,275,734	$ 1,371,065	$ 1,482,368	$ 1,616,271	$ 1,763,083

Description	2019	2020	2021	2022	2023	2024	2025
Projected Flow of Funds - Revenue Fund							
Revenue Funds Available							
Beginning Balance	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202
Existing Service Charge Revenues	428,455,339	438,424,956	437,940,054	435,536,805	432,551,796	429,533,420	426,529,655
Additional Service Charge Revenues	-	-	23,781,576	54,100,431	76,280,998	96,453,833	116,334,516
Other Operating Revenue	15,082,868	26,721,365	14,468,090	14,425,774	14,377,733	14,330,422	14,283,480
Interest Earnings	970,167	571,321	620,649	691,410	676,385	710,743	665,616
Construction Fund Interest Earnings	-	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	1,630,694	870,998	717,248	688,998	694,248	702,748	677,748
Transfer from Rate Stabilization Fund	9,842,257	21,400,000	9,350,000	-	2,650,000	-	9,350,000
Total Funds Available	$ 503,407,527	$ 535,414,842	$ 534,303,818	$ 552,869,620	$ 574,657,360	$ 589,157,368	$ 615,267,217
Revenue Funds Used							
Total Operating Expense	294,399,980	307,537,788	316,611,428	326,859,405	337,756,919	348,426,988	358,692,875
Total Senior Debt Service	122,735,013	138,768,081	130,921,642	134,465,334	145,705,404	145,305,196	160,849,651
Total Subordinate Debt Service	-	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-	-
Capital Account Deposit	14,663,618	15,952,135	17,228,305	18,606,570	20,095,095	21,702,703	23,438,919
Transfer to Rate Stabilization Fund	-	-	-	3,700,000	-	4,350,000	-
Transfer to Residual Fund	24,182,715	25,730,636	22,116,240	21,812,109	23,673,740	21,946,279	24,859,570
Total Funds Utilized	$ 455,981,325	$ 487,988,640	$ 486,877,616	$ 505,443,418	$ 527,231,158	$ 541,731,166	$ 567,841,015
Ending Balance	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202	$ 47,426,202
Projected Flow of Funds - Residual Fund							
Operating Funds Available							
Beginning Balance	$ 8,645,207	$ 9,316,923	$ 8,938,382	$ 8,943,587	$ 8,944,692	$ 9,007,748	$ 8,943,336
Transfer from Revenue Fund	24,182,715	25,730,636	22,116,240	21,812,109	23,673,740	21,946,279	24,859,570
Interest Earnings on Debt Service Reserve for Transfer to General Fund	2,745,851	1,287,309	1,275,734	1,371,066	1,482,367	1,616,271	1,763,083
Transfer to Debt Service Reserve	-	-	-	-	-	-	-
Transfer to Construction Fund	(23,652,450)	(26,200,000)	(22,200,000)	(21,900,000)	(23,700,000)	(22,100,000)	(24,900,000)
Transfer to General Fund	(2,745,851)	(1,287,309)	(1,275,734)	(1,371,066)	(1,482,367)	(1,616,271)	(1,763,083)
Ending Balance (prior to interest)	$ 9,175,471	$ 8,847,559	$ 8,854,622	$ 8,855,696	$ 8,918,432	$ 8,854,027	$ 8,902,906
Interest Income	$ 141,452	$ 90,822	$ 88,965	$ 88,996	$ 89,316	$ 89,309	$ 89,231
Ending Balance	**$ 9,316,923**	**$ 8,938,382**	**$ 8,943,587**	**$ 8,944,692**	**$ 9,007,748**	**$ 8,943,336**	**$ 8,992,137**
Working Capital Balance							
Revenue Fund Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Residual Fund Balance	$ 9,316,923	$ 8,938,382	$ 8,943,587	$ 8,944,692	$ 9,007,748	$ 8,943,336	$ 8,992,137
Rate Stabilization Fund Balance	$ 97,799,764	$ 76,399,764	$ 67,049,764	$ 70,749,764	$ 68,099,764	$ 72,449,764	$ 63,099,764
Total	$ 107,116,687	$ 85,338,146	$ 75,993,351	$ 79,694,457	$ 77,107,512	$ 81,393,100	$ 72,091,902

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CF

Index	Description	Table
CF	**Cashflow Worksheet**	
CF Data - 1	Water System Cash Flow	Base Rate
CF Data - 2	Wastewater System Cash Flow	TABLE WW-6
CF Data - 3	Combined System Cash Flow	Base Rate and TABLE C-2"A

Water System Cash Flow

CF Data - 1

			2019	2020	2021	2022	2023	2024	2025
Revenue Fund									
Water Service - Existing Rates			$ 278,897	$ 276,970	$ 273,936	$ 271,454	$ 269,033	$ 266,630	$ 264,236
Total Service Revenue - Existing Rates			$ 278,897	$ 276,970	$ 273,936	$ 271,454	$ 269,033	$ 266,630	$ 264,236
Additional Service Revenue Required									
Fiscal Year	% Increase	Months Effective							
2019	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2020	0.00%	10		-	-	-	-	-	-
2021	5.50%	10			12,324	14,930	14,797	14,665	14,533
2022	5.50%	10				12,884	15,611	15,471	15,332
2023	10.90%	10					26,698	32,347	32,057
2024	10.90%	10						29,343	35,551
2025	10.90%	10							32,250
Total Additional Service Revenue Required			$ -	$ -	$ 12,324	$ 27,814	$ 57,105	$ 91,827	$ 129,723
Other Income									
Other Operating Revenue			$ 15,152	$ 20,935	$ 14,977	$ 14,940	$ 14,903	$ 14,866	$ 14,829
Build America Bond Reimbursement									
Construction Fund Interest Income			-	-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-	-
Operating Fund Interest Income			734	413	415	398	413	466	504
Rate Stabilization Interest Income			1,213	810	814	797	741	709	718
Project Revenues			$ 295,997	$ 299,129	$ 302,467	$ 315,404	$ 342,195	$ 374,498	$ 410,011
Operating Expense									
Water Operations			$ (106,351)	$ (113,333)	$ (117,843)	$ (122,405)	$ (127,144)	$ (132,109)	$ (137,273)
Direct Interdepartmental Charges			(77,667)	(84,168)	(85,149)	(87,526)	(90,318)	(92,751)	(94,833)
Water Treatment Plant Sludge			(13,341)	(13,232)	(14,561)	(15,573)	(16,266)	(16,997)	(17,919)
Total Operating Expense			$ (197,358)	$ (210,733)	$ (217,554)	$ (225,505)	$ (233,728)	$ (241,857)	$ (250,024)

Water System Cash Flow

CF Data - 1

	2019	2020	2021	2022	2023	2024	2025
Net Revenues							
Transfer from/(to) Rate Stabilization Fund	$ (9,300)	$ 200	$ (1,150)	$ 4,600	$ 6,550	$ (150)	$ (1,650)
Net Revenues	$ 89,338	$ 88,596	$ 83,763	$ 94,499	$ 115,017	$ 132,491	$ 158,337
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Bonds	$ (63,744)	$ (63,775)	$ (56,792)	$ (54,430)	$ (52,627)	$ (49,006)	$ (49,087)
Pennvest Parity Bonds	(4,429)	(4,353)	(4,487)	(4,802)	(7,333)	(7,333)	(7,333)
Projected Future Bonds	-	-	(3,150)	(13,458)	(28,495)	(45,546)	(65,359)
Total Senior Debt Service	$ (68,173)	$ (68,129)	$ (64,429)	$ (72,690)	$ (88,455)	$ (101,885)	$ (121,779)
Subordinate Debt Service							
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds							
Projected Future Bonds	-	-	-	-	-	-	-
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-	-
Total Debt Service on Bonds	(68,173)	(68,129)	(64,429)	(72,690)	(88,455)	(101,885)	(121,779)
Capital Account Deposit	$ (10,215)	$ (11,113)	$ (12,002)	$ (12,962)	$ (13,999)	$ (15,119)	$ (16,329)
End of Year Balance (Transfer to Residual Fund)	$ 10,950	$ 9,355	$ 7,332	$ 8,847	$ 12,562	$ 15,487	$ 20,229

Water System Cash Flow

CF Data - 1

	2019	2020	2021	2022	2023	2024	2025
Residual Fund							
Beginning Balance	$ 6,796	$ 6,349	$ 6,166	$ 6,159	$ 6,167	$ 6,191	$ 6,240
Plus:							
End of Year Revenue Fund Balance	10,950	9,355	7,332	8,847	12,562	15,487	20,229
Deposit for Transfer to City General Fund	1,349	635	644	736	847	1,000	1,213
Interest Income	104	62	61	61	61	62	62
Less:							
Transfer to Construction Fund	(11,500)	(9,600)	(7,400)	(8,900)	(12,600)	(15,500)	(20,300)
Transfer to City General Fund	(1,349)	(635)	(644)	(736)	(847)	(1,000)	(1,213)
Transfer to Debt Service Reserve Fund	-	-	-	-	-	-	-
Ending Balance	$ 6,349	$ 6,166	$ 6,159	$ 6,167	$ 6,191	$ 6,240	$ 6,231
Rate Stabilization Fund							
Beginning Balance	$ 71,761	$ 81,061	$ 80,861	$ 82,011	$ 77,411	$ 70,861	$ 71,011
Transfer to/from Revenue Fund	9,300	(200)	1,150	(4,600)	(6,550)	150	1,650
Ending Balance	$ 81,061	$ 80,861	$ 82,011	$ 77,411	$ 70,861	$ 71,011	$ 72,661
Debt Service Coverage							
Senior Debt Service Excluding Escrow	$ 68,173	$ 68,129	$ 64,429	$ 72,690	$ 88,455	$ 101,885	$ 121,779
Net Revenues for Coverage	$ 89,338	$ 88,596	$ 83,763	$ 94,499	$ 115,017	$ 132,491	$ 158,337
Total Senior Debt Service Coverage	**1.31**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.31**	**1.29**	**1.30**	**1.23**	**1.22**	**1.30**	**1.30**
Total Debt Service Coverage	**1.13**	**1.11**	**1.09**	**1.10**	**1.12**	**1.13**	**1.14**

Wastewater System Cash Flow

CF Data - 2

			2019	2020	2021	2022	2023	2024	2025
Revenue Fund									
Wastewater Service - Existing Rates			$ 428,455	$ 438,395	$ 437,910	$ 435,507	$ 432,522	$ 429,503	$ 426,500
Total Service Revenue - Existing Rates			$ 428,455	$ 438,395	$ 437,910	$ 435,507	$ 432,522	$ 429,503	$ 426,500
Additional Service Revenue Required									
Fiscal Year	% Increase	Months Effective							
2019	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2020	0.00%	10		-	-	-	-	-	-
2021	6.64%	10			23,780	28,902	28,700	28,496	28,293
2022	6.63%	10				25,195	30,583	30,365	30,149
2023	4.23%	10					16,993	20,649	20,528
2024	4.07%	10						16,936	20,584
2025	3.90%	10							16,771
Total Additional Service Revenue Required			$ -	$ -	$ 23,780	$ 54,097	$ 76,275	$ 96,446	$ 116,324
Other Income									
Other Operating Revenue			$ 15,082	$ 26,721	$ 14,468	$ 14,425	$ 14,377	$ 14,330	$ 14,283
Build America Bond Reimbursement									
Construction Fund Interest Income			-	-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-	-
Operating Fund Interest Income			970	571	620	691	676	711	665
Rate Stabilization Interest Income			1,631	871	717	689	694	703	678
Project Revenues			$ 446,139	$ 466,558	$ 477,496	$ 505,409	$ 524,545	$ 541,692	$ 558,450
Operating Expense									
Wastewater Operations			$ (193,424)	$ (201,466)	(209,052)	$ (216,526)	$ (223,984)	$ (231,777)	$ (239,874)
Direct Interdepartmental Charges			(114,317)	(119,304)	(122,121)	(125,907)	(130,039)	(133,647)	(136,738)
Water Treatment Plant Sludge			13,341	13,232	14,561	15,573	16,266	16,997	17,919
Total Operating Expense			$ (294,400)	$ (307,538)	$ (316,611)	$ (326,859)	$ (337,757)	$ (348,427)	$ (358,693)

Wastewater System Cash Flow

CF Data - 2

	2019	2020	2021	2022	2023	2024	2025
Net Revenues							
Transfer from Rate Stabilization Fund	$ 9,842	$ 21,400	$ 9,350	$ (3,700)	$ 2,650	$ (4,350)	$ 9,350
Net Revenues after Operations	$ 161,581	$ 180,420	$ 170,234	$ 174,850	$ 189,438	$ 188,915	$ 209,107
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Bonds	$ (116,480)	$ (132,491)	$ (120,794)	$ (112,858)	$ (108,577)	$ (91,917)	$ (91,900)
Pennvest Parity Bonds	(6,255)	(6,278)	(6,278)	(6,278)	(6,278)	(6,278)	(6,278)
Projected Future Bonds	-	-	(3,850)	(15,330)	(30,851)	(47,110)	(62,672)
Total Senior Debt Service	$ (122,735)	$ (138,768)	$ (130,922)	$ (134,465)	$ (145,705)	$ (145,305)	$ (160,850)
Subordinate Debt Service							
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds							
Projected Future Bonds	-	-	-	-	-	-	-
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-	-
Total Debt Service on Bonds	(122,735)	(138,768)	(130,922)	(134,465)	(145,705)	(145,305)	(160,850)
Capital Account Deposit	$ (14,664)	$ (15,952)	$ (17,228)	$ (18,607)	$ (20,095)	$ (21,703)	$ (23,439)
End of Year Balance (Transfer to Residual Fund)	$ 24,182	$ 25,700	$ 22,084	$ 21,778	$ 23,637	$ 21,908	$ 24,818

Wastewater System Cash Flow

CF Data - 2

	2019	2020	2021	2022	2023	2024	2025
Residual Fund							
Beginning Balance	$ 8,645	$ 9,316	$ 8,907	$ 8,880	$ 8,846	$ 8,872	$ 8,767
Plus:							
End of Year Revenue Fund Balance	24,182	25,700	22,084	21,778	23,637	21,908	24,818
Deposit for Transfer to City General Fund	2,746	1,287	1,276	1,371	1,482	1,616	1,763
Interest Income	141	91	88	88	88	88	87
Less:							
Transfer to Construction Fund	(23,652)	(26,200)	(22,200)	(21,900)	(23,700)	(22,100)	(24,900)
Transfer to City General Fund	(2,746)	(1,287)	(1,276)	(1,371)	(1,482)	(1,616)	(1,763)
Transfer to Debt Service Reserve Fund	-	-	-	-	-	-	-
Ending Balance	$ 9,316	$ 8,907	$ 8,880	$ 8,846	$ 8,872	$ 8,767	$ 8,773
Rate Stabilization Fund							
Beginning Balance	$ 107,642	$ 97,800	$ 76,400	$ 67,050	$ 70,750	$ 68,100	$ 72,450
Transfer to/from Revenue Fund	(9,842)	(21,400)	(9,350)	3,700	(2,650)	4,350	(9,350)
Ending Balance	$ 97,800	$ 76,400	$ 67,050	$ 70,750	$ 68,100	$ 72,450	$ 63,100
Debt Service Coverage							
Senior Debt Service Excluding Escrow	$ 122,735	$ 138,768	$ 130,922	$ 134,465	$ 145,705	$ 145,305	$ 160,850
Net Revenues for Coverage	$ 161,581	$ 180,420	$ 170,234	$ 174,850	$ 189,438	$ 188,915	$ 209,107
Total Senior Debt Service Coverage	**1.31**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.23**	**1.14**	**1.22**	**1.30**	**1.28**	**1.30**	**1.24**
Total Debt Service Coverage	**1.17**	**1.16**	**1.14**	**1.14**	**1.14**	**1.13**	**1.13**

Combined System Cash Flow

CF Data - 3

			2019	2020	2021	2022	2023	2024	2025
Revenue Fund									
Water Service - Existing Rates			$ 278,897	$ 276,970	$ 273,936	$ 271,454	$ 269,033	$ 266,630	$ 264,236
Wastewater Service - Existing Rates			428,455	438,395	437,910	435,507	432,522	429,503	426,500
Total Service Revenue - Existing Rates			$ 707,353	$ 715,366	$ 711,846	$ 706,961	$ 701,554	$ 696,133	$ 690,736
Additional Service Revenue Required									
Fiscal Year	% Increase	Months Effective							
2019	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2020	0.00%	10		-	-	-	-	-	-
2021	6.20%	10			36,104	43,832	43,496	43,160	42,826
2022	6.20%	10				38,079	46,193	45,836	45,481
2023	6.75%	10					43,691	52,996	52,585
2024	6.75%	10						46,280	56,135
2025	6.75%	10							49,021
Total Additional Service Revenue Required			$ -	$ -	$ 36,104	$ 81,911	$ 133,381	$ 188,272	$ 246,047
Other Income									
Other Operating Revenue			$ 30,234	$ 47,656	$ 29,445	$ 29,365	$ 29,280	$ 29,196	$ 29,112
Build America Bond Reimbursement			-	-	-	-	-	-	-
Construction Fund Interest Income			-	-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-	-
Operating Fund Interest Income			1,704	985	1,035	1,089	1,089	1,177	1,169
Rate Stabilization Interest Income			2,844	1,681	1,532	1,486	1,436	1,412	1,396
Project Revenues			$ 742,135	$ 765,687	$ 779,962	$ 820,813	$ 866,740	$ 916,191	$ 968,461
Operating Expense									
Water & Wastewater Operations			$ (299,774)	$ (314,799)	$ (326,895)	$ (338,931)	$ (351,128)	$ (363,886)	$ (377,146)
Direct Interdepartmental Charges			(191,984)	(203,472)	(207,270)	(213,433)	(220,357)	(226,399)	(231,571)
Water Treatment Plant Sludge			-	-	-	-	-	-	-
Total Operating Expense			$ (491,758)	$ (518,271)	$ (534,165)	$ (552,364)	$ (571,485)	$ (590,284)	$ (608,717)

Combined System Cash Flow

CF Data - 3

	2019	2020	2021	2022	2023	2024	2025
Net Revenues							
Transfer from Rate Stabilization Fund	542	21,600	8,200	900	9,200	(4,500)	7,700
Net Revenues	$ 250,919	$ 269,017	$ 253,997	$ 269,349	$ 304,455	$ 321,406	$ 367,443
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Revenue Bonds	$ (180,224)	$ (196,266)	$ (177,586)	$ (167,288)	$ (161,204)	$ (140,923)	$ (140,987)
Pennvest Parity Bonds	(10,684)	(10,631)	(10,765)	(11,080)	(13,611)	(13,611)	(13,611)
Projected Future Revenue Bonds	-	-	(7,000)	(28,788)	(59,345)	(92,657)	(128,031)
Total Senior Debt Service	$ (190,908)	$ (206,897)	$ (195,351)	$ (207,155)	$ (234,161)	$ (247,191)	$ (282,629)
Subordinate Debt Service							
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds	-	-	-	-	-	-	-
Projected Future Bonds	-	-	-	-	-	-	-
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-	-
Total Debt Service on Bonds	$ (190,908)	$ (206,897)	$ (195,351)	$ (207,155)	$ (234,161)	$ (247,191)	$ (282,629)
Capital Account Deposit	$ (24,879)	$ (27,065)	$ (29,230)	$ (31,569)	$ (34,094)	$ (36,822)	$ (39,767)
End of Year Balance (Transfer to Residual Fund)	$ 35,132	$ 35,055	$ 29,416	$ 30,625	$ 36,200	$ 37,394	$ 45,047

Combined System Cash Flow

CF Data - 3

	2019	2020	2021	2022	2023	2024	2025
Residual Fund							
Beginning Balance	$ 15,441	$ 15,666	$ 15,073	$ 15,039	$ 15,014	$ 15,063	$ 15,007
Plus:							
End of Year Revenue Fund Balance	35,132	35,055	29,416	30,625	36,200	37,394	45,047
Deposit for Transfer to City General Fund	4,095	1,922	1,920	2,107	2,330	2,616	2,977
Interest Income	245	153	150	150	150	150	149
Less:							
Transfer to Construction Fund	(35,152)	(35,800)	(29,600)	(30,800)	(36,300)	(37,600)	(45,200)
Transfer to City General Fund	(4,095)	(1,922)	(1,920)	(2,107)	(2,330)	(2,616)	(2,977)
Transfer to Debt Service Reserve Fund	-	-	-	-	-	-	-
Ending Balance	$ 15,666	$ 15,073	$ 15,039	$ 15,014	$ 15,063	$ 15,007	$ 15,003
Rate Stabilization Fund							
Beginning Balance	$ 179,403	$ 178,861	$ 157,261	$ 149,061	$ 148,161	$ 138,961	$ 143,461
Transfer to/from Revenue Fund	(542)	(21,600)	(8,200)	(900)	(9,200)	4,500	(7,700)
Ending Balance	$ 178,861	$ 157,261	$ 149,061	$ 148,161	$ 138,961	$ 143,461	$ 135,761
Debt Service Coverage							
Senior Debt Service Excluding Escrow	$ 190,908	$ 206,897	$ 195,351	$ 207,155	$ 234,161	$ 247,191	$ 282,629
Net Revenues for Coverage	$ 250,919	$ 269,017	$ 253,997	$ 269,349	$ 304,455	$ 321,406	$ 367,443
Total Senior Debt Service Coverage	**1.31**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.31**	**1.19**	**1.25**	**1.29**	**1.26**	**1.30**	**1.27**
Total Debt Service Coverage	**1.16**	**1.14**	**1.13**	**1.12**	**1.13**	**1.13**	**1.13**

Note - End of Year FY 2019 fund balances reflect preliminary results for FY 2019.

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COST OF SERVICE

Index	Description	Table
COST OF SERVICE	**Cost of Service Worksheet**	
Cost of Service - 1	Water System Cost of Service	TABLE W-7
Cost of Service - 2	Wastewater System Cost of Service	TABLE WW-7
Cost of Service - 3	Combined System Cost of Service	

Water System Cost of Service

Cost of Service - 1

	2019	2020	2021	2022	2023	2024	2025
Operating Expenses							
Operating Expense	$ 106,351	$ 113,333	$ 117,843	$ 122,405	$ 127,144	$ 132,109	$ 137,273
Direct Interdepartmental Charges	77,667	84,168	85,149	87,526	90,318	92,751	94,833
Water Treatment Plant Sludge	13,341	13,232	14,561	15,573	16,266	16,997	17,919
Subtotal	$ 197,358	$ 210,733	$ 217,554	$ 225,505	$ 233,728	$ 241,857	$ 250,024
Residual Fund Transfer	7,837	6,798	5,426	6,412	8,734	10,437	13,031
Rate Stabilization Fund Transfer	6,656	(145)	851	(3,334)	(4,554)	101	1,063
Total	$ 211,851	$ 217,386	$ 223,831	$ 228,583	$ 237,908	$ 252,395	$ 264,118
Other Income							
Other Operating Revenue	$ (15,152)	$ (14,828)	$ (14,977)	$ (14,940)	$ (14,903)	$ (14,866)	$ (14,829)
Interest	$ (1,394)	$ (889)	$ (909)	$ (866)	$ (802)	$ (792)	$ (787)
Net Revenue Requirement - Operating Expense	$ 195,305	$ 201,668	$ 207,944	$ 212,777	$ 222,203	$ 236,737	$ 248,502

	2019	2020	2021	2022	2023	2024	2025
Water System Cost of Service							**Cost of Service - 1**
Capital Expenses							
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Bonds	$ 63,744	$ 63,775	$ 56,792	$ 54,430	$ 52,627	$ 49,006	$ 49,087
Pennvest Parity Bonds	4,429	4,353	4,487	4,802	7,333	7,333	7,333
Projected Future Bonds	-	-	3,150	13,458	28,495	45,546	65,359
Transfer to Escrow	-	-	-	-	-	-	-
Subordinate Debt Service							
Outstanding General Obligation Bonds	-	-	-	-	-	-	-
Pennvest Subordinate Bonds							
Projected Future Bonds	-	-	-	-	-	-	-
Capital Account Deposit	10,215	11,113	12,002	12,962	13,999	15,119	16,329
Subtotal	$ 78,388	$ 79,241	$ 76,431	$ 85,652	$ 102,455	$ 117,004	$ 138,108
Residual Fund Transfer	3,113	2,557	1,906	2,435	3,828	5,050	7,198
Rate Stabilization Fund Transfer	2,644	(55)	299	(1,266)	(1,996)	49	587
Total	$ 84,145	$ 81,743	$ 78,636	$ 86,821	$ 104,287	$ 122,103	$ 145,893
Other Income							
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	-	(6,107)	-	-	-	-	-
Interest	(553)	(334)	(320)	(329)	(352)	(384)	(435)
Net Revenue Requirement - Capital Expense	$ 83,592	$ 75,302	$ 78,316	$ 86,492	$ 103,935	$ 121,719	$ 145,458
Total Net Revenue Requirement	$ 278,897	$ 276,970	$ 286,260	$ 299,268	$ 326,138	$ 358,456	$ 393,960
Revenue CHECK	$ 278,897	$ 276,970	$ 286,260	$ 299,268	$ 326,138	$ 358,456	$ 393,960

Wastewater System Cost of Service

Cost of Service - 2

	2019	2020	2021	2022	2023	2024	2025
Operating Expenses							
Operating Expense	$ 193,424	$ 201,466	$ 209,052	$ 216,526	$ 223,984	$ 231,777	$ 239,874
Direct Interdepartmental Charges	114,317	119,304	122,121	125,907	130,039	133,647	136,738
Water Treatment Plant Sludge	(9,998)	(9,866)	(10,969)	(11,741)	(12,123)	(12,762)	(13,295)
Total Operating Expense	$ 297,743	$ 310,904	$ 320,204	$ 330,692	$ 341,900	$ 352,663	$ 363,317
Residual Fund Transfer	16,675	17,306	15,237	15,029	16,074	15,016	16,634
Rate Stabilization Fund Transfer	(6,787)	(14,393)	(6,442)	2,549	(1,799)	2,976	(6,256)
Total	$ 307,631	$ 313,817	$ 328,999	$ 348,270	$ 356,175	$ 370,655	$ 373,695
Other Income							
Other Operating Revenue	$ (15,083)	$ (14,282)	$ (14,468)	$ (14,426)	$ (14,378)	$ (14,330)	$ (14,283)
Interest	$ (1,811)	$ (973)	$ (929)	$ (966)	$ (943)	$ (982)	$ (907)
Net Revenue Requirement - Operating Expense	$ 290,737	$ 298,562	$ 313,602	$ 332,878	$ 340,855	$ 355,342	$ 358,504

Wastewater System Cost of Service

Cost of Service - 2

	2019	2020	2021	2022	2023	2024	2025
Capital Expenses							
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Bonds	$ 116,480	$ 132,491	$ 120,794	$ 112,858	$ 108,577	$ 91,917	$ 91,900
Pennvest Parity Bonds	6,255	6,278	6,278	6,278	6,278	6,278	6,278
Projected Future Bonds	-	-	3,850	15,330	30,851	47,110	62,672
Transfer to Escrow	-	-	-	-	-	-	-
Subordinate Debt Service							
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds							
Projected Future Bonds	-	-	-	-	-	-	-
Capital Account Deposit	$ 14,664	$ 15,952	$ 17,228	$ 18,607	$ 20,095	$ 21,703	$ 23,439
Water Treatment Plant Sludge - Capital Component	$ (3,343)	$ (3,366)	$ (3,593)	$ (3,833)	$ (4,144)	$ (4,236)	$ (4,624)
Subtotal	$ 134,055	$ 151,354	$ 144,557	$ 149,239	$ 161,657	$ 162,772	$ 179,665
Residual Fund Transfer	7,508	8,425	6,879	6,783	7,600	6,930	8,226
Rate Stabilization Fund Transfer	(3,055)	(7,007)	(2,908)	1,151	(851)	1,374	(3,094)
Total	$ 138,508	$ 152,772	$ 148,528	$ 157,173	$ 168,406	$ 171,077	$ 184,796
Other Income							
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	-	(12,439)	-	-	-	-	-
Interest	(790)	(469)	(409)	(414)	(428)	(431)	(436)
Net Revenue Requirement - Capital Expense	$ 137,718	$ 139,863	$ 148,119	$ 156,759	$ 167,978	$ 170,645	$ 184,360
Total Net Revenue Requirement	$ 428,455	$ 438,425	$ 461,722	$ 489,637	$ 508,833	$ 525,987	$ 542,864
Revenue CHECK	$ 428,455	$ 438,425	$ 461,722	$ 489,637	$ 508,833	$ 525,987	$ 542,864

Combined System Cost of Service

Cost of Service - 3

	2019	2020	2021	2022	2023	2024	2025
Operating Expenses							
Operating Expense	$ 299,774	$ 314,799	$ 326,895	$ 338,931	$ 351,128	$ 363,886	$ 377,146
Direct Interdepartmental Charges	$ 191,984	$ 203,472	$ 207,270	$ 213,433	$ 220,357	$ 226,399	$ 231,571
Water Treatment Plant Sludge	$ 3,343	$ 3,366	$ 3,593	$ 3,833	$ 4,144	$ 4,236	$ 4,624
Subtotal	$ 495,101	$ 521,637	$ 537,758	$ 556,197	$ 575,628	$ 594,520	$ 613,341
Residual Fund Transfer	24,512	24,083	20,641	21,418	24,783	25,426	29,637
Rate Stabilization Fund Transfer	(131)	(14,538)	(5,591)	(785)	(6,353)	3,077	(5,193)
Total	$ 519,482	$ 531,182	$ 552,808	$ 576,830	$ 594,058	$ 623,023	$ 637,785
Other Income							
Other Operating Revenue	$ (30,234)	$ (29,110)	$ (29,445)	$ (29,365)	$ (29,280)	$ (29,196)	$ (29,112)
Interest	$ (3,205)	$ (1,862)	$ (1,838)	$ (1,832)	$ (1,745)	$ (1,774)	$ (1,694)
Net Revenue Requirement - Operating Expense	$ 486,043	$ 500,210	$ 521,525	$ 545,632	$ 563,033	$ 592,053	$ 606,979

Combined System Cost of Service

Cost of Service - 3

	2019	2020	2021	2022	2023	2024	2025
Capital Expenses							
Debt Service							
Senior Debt Service							
Revenue Bonds							
Outstanding Bonds	$ 180,224	$ 196,266	$ 177,586	$ 167,288	$ 161,204	$ 140,923	$ 140,987
Pennvest Parity Bonds	10,684	10,631	10,765	11,080	13,611	13,611	13,611
Projected Future Bonds	-	-	7,000	28,788	59,345	92,657	128,031
Transfer to Escrow	-	-	-	-	-	-	-
Subordinate Debt Service							
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds							
Projected Future Bonds	-	-	-	-	-	-	-
Capital Account Deposit	$ 24,879	$ 27,065	$ 29,230	$ 31,569	$ 34,094	$ 36,822	$ 39,767
Water Treatment Plant Sludge - Capital Component	$ (3,343)	$ (3,366)	$ (3,593)	$ (3,833)	$ (4,144)	$ (4,236)	$ (4,624)
Subtotal	$ 212,444	$ 230,596	$ 220,988	$ 234,891	$ 264,111	$ 279,777	$ 317,773
Residual Fund Transfer	10,620	10,972	8,775	9,207	11,417	11,968	15,410
Rate Stabilization Fund Transfer	(411)	(7,062)	(2,609)	(115)	(2,847)	1,423	(2,507)
Total	$ 222,653	$ 234,505	$ 227,154	$ 243,983	$ 272,681	$ 293,168	$ 330,676
Other Income							
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	$ -	$ (18,546)	$ -	$ -	$ -	$ -	$ -
Interest	(1,343)	(803)	(729)	(744)	(779)	(815)	(871)
Net Revenue Requirement - Capital Expense	$ 221,310	$ 215,156	$ 226,425	$ 243,240	$ 271,902	$ 292,353	$ 329,805
Total Net Revenue Requirement	$ 707,353	$ 715,366	$ 747,951	$ 788,872	$ 834,935	$ 884,406	$ 936,783
Revenue CHECK	$ 707,353	$ 715,366	$ 747,951	$ 788,872	$ 834,935	$ 884,406	$ 936,783

SCOS19_21.XLS

INDEX

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UnitsInd	Index	Units-1	
CSUNITS	OC Contract Service Sewer Units	Units-2	TABLE WH - 3
UNTSER	Units of Sewer Service	Units-3	
TRMTUTS	Treatment Plant Units	Units-4	
PSUTS	Pumping Stations Units	Units-5	
SWRUTS	Sewer Units	Units-6	TABLE WH - 4
TPFS	Trtmt Plant Flows and Strengths	Units-7	
CCSF	Customer Class Sanitary Flows	Units-8	
RTLUNT	Retail Sewer Units	Units-9	
BILLTAB	FY 2016 Bill Distribution & TY Number of Bills	Units-10	
TYBILLS	FY 2021 Test Year Sewer Bills	Units-11	
TYMTRS	FY 2021 Test Year Equiv. Sewer Meters	Units-12	
TYUOS	FY 2021 Units of Wastewater Service	Units-13	
CCAS	Contract Customers Average Strengths	Units-14	TABLE WH - 4
RATIOS	Equiv. Bill and Meter Ratios	Units-15	
CNTRCTUNI	Contract Maximum Limits	Units-16	

The "Pltdes" worksheet contains wastewater plant design data for the Northeast, Southwest, and Southeast treatment plants, and historical treatment plants influent flows and strengths.

Range	Description	Page Number	Table
PltdesInd	Index	Pltdes-1	
NEDESG	NEWPCP Design Conditions	Pltdes-2	
SWDESG	SWWPCP Design Conditions	Pltdes-3	
SEDESG	SEWPCP Design Conditions	Pltdes-4	
WWFS	WWTP Flows & Strengths	Pltdes-5	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PlantInd - Index	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-1

Fixed Asset Listing as of date 6/30/2019

Range	Description	Page Number	Table
PlantInd	Index	Plant-1	
PLTFUNC	Plant Functions	Plant-2	
NEPA1	NE Plant Assets (Non-WPAP) as of 6/30/2019	Plant-3	
NEPA2	'NE Plant Assets (WPAP) as of 6/30/2019	Plant-4	
SWPA1	SW Plant Assets (Non-WPAP) as of 6/30/2019	Plant-5	
SWPA2	SW Plant Assets (WPAP) as of 6/30/2019	Plant-6	
SEPA1	SE Plant Assets (Non-WPAP) as of 6/30/2019	Plant-7	
SEPA2	SE Plant Assets (WPAP) as of 6/30/2019	Plant-8	
SPLTFNC	All Plants - Assets by Plant Function as of 6/30/2019	Plant-9	
SLOCID	All Locations - Total Assets by Location ID as of 6/30/2019	Plant-10	
XXXXX	PAGE NOT IN USE	Plant-11	
SFAL	Summary of Fixed Asset Listing Control Totals as of 6/30/2019	Plant-12	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SPLTIndex - Index	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-1

Fixed Asset Listing as of date 6/30/2019

The "Spltallo" worksheet allocates sewer treatment plant investment and annual depreciation to cost functions. It also allocates wastewater system investment to individual contract customers.

Range	Description	Page Number	Table
SPLTIndex	Index	Spltallo-1	
NEInvest	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-2	
SWInvest	Southwest Water Pollution Control Treatment Plant Investment	Spltallo-3	
SEInvest	Southeast Water Pollution Control Treatment Plant Investment	Spltallo-4	
TotalInvest	Water Pollution Control Treatment Plant Investment	Spltallo-5	
NEALLO1	Allocation of Test Year Investment for the NE WPCP - Part 1	Spltallo-6	TABLE WW - 9A
NEALLO2	Allocation of Test Year Investment for the NE WPCP - Part 2	Spltallo-7	
NEALLO3	NE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-8	
SWALLO1	Allocation of Test Year Investment for the SW WPCP	Spltallo-9	TABLE WW - 9B
SWALLO2	SW WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-10	
SEALLO1	Allocation of Test Year Investment for the SE WPCP	Spltallo-11	TABLE WW - 9C
SEALLO2	SE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-12	
SWReAllo1	SW WPAP Sludge Thickener Allocated To NE and SE Plants - Part 1	Spltallo-13	
SWReAllo2	Summary of SW WPAP Plant Allocated To NE and SE Plants - Part	Spltallo-14	
SWReAllo3	SW WPAP Sludge Digestion Allocated To NE and SE Plants - Part 3	Spltallo-15	
SWReAllo4	SW WPAP Sludge Gas Facilities Allocated To NE and SE Plants - P	Spltallo-16	
SWReAllo5	SW WPAP Sludge Disposal (Centrifuges) Allocated To NE and SE P	Spltallo-17	
SWReAllo6	SW WPAP Composting Facilities Allocated To NE and SE Plants - P	Spltallo-18	
SWReAllo7	SW WPAP Dewatering Facilities Allocated To NE and SE Plants - P	Spltallo-19	
SWReAllo8	SW Non-WPAP Sludge Disposal Facilities Allocated To NE and SE	Spltallo-20	
SWReAllo9	SW Non-WPAP Digesters Allocated To NE and SE Plants - Part 9	Spltallo-21	
SWReAllo10	SW WPAP Prelim. Trtmt Bldg Allocated To NE and SE Plants - Part	Spltallo-22	
SWReAllo11	SW WPAP Grit & Ash Transfer Allocated To NE and SE Plants - Pa	Spltallo-23	
ALLOC	Allocation of TY Plant Investment	Spltallo-24	
INVSTCap1	WPCP Investment Per Unit Of Capacity	Spltallo-25	TABLE WH - 5
INVSTCap2	SW WPCP Treatment Plant Unit Costs	Spltallo-26	
INVSTCap3	Whlsl Units of Service for Treatment Plants	Spltallo-27	
TWNPALLO1	Abington Allocated Investment	Spltallo-28	TABLE WH - 6
TWNPALLO2	Cheltenham Allocated Investment	Spltallo-29	TABLE WH - 9
TWNPALLO3	Lower Merion Allocated Investment	Spltallo-30	TABLE WH - 11
TWNPALLO4	Lower Moreland Allocated Investment	Spltallo-31	TABLE WH - 12
TWNPALLO5	Lower Southhampton Allocated Investment	Spltallo-32	TABLE WH - 13
TWNPALLO6	Springfield (excl. Wyndmoor) Allocated Investment	Spltallo-33	TABLE WH - 14
CONVREV	Revisions to Conveyance Calculations	Spltallo-34	
TWNPALLO7	Sprngfield (Wyndmoor) Allocated Investment	Spltallo-35	TABLE WH - 15
TWNPALLO8	Bensalem Allocated Investment	Spltallo-36	TABLE WH - 7
TWNPALLO9	Bucks County Allocated Investment	Spltallo-37	TABLE WH - 8
TWNPALLO10	DELCORA Allocated Investment	Spltallo-38	TABLE WH - 10
TWNPALLO11	Upper Darby Allocated Investment	Spltallo-39	TABLE WH - 16
CONVALLO	Treatment Plant Conveyance Investment Alloc To Townships	Spltallo-40	
LANDALLO	Allocation Of Land Investment To Contract Customers	Spltallo-41	
NEPLTINV	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-42	
TWNSHP	Township Contributed Investment	Spltallo-43	
TYDepr	Test Year Annual Depreciation Expense	Spltallo-44	
TYInvest	Test Year Depreciable Plant Investment	Spltallo-45	
RTLInvest	Depreciable Plant Invest Alloc To Retail Service	Spltallo-46	

The "Somallo" worksheet allocates Wastewater System operation and maintenance expense to functional cost components. It also allocates O&M expense to the individual contract customers.

Range	Description	Page Number	Table
SOMIndex	Index	Somallo-1	
TYO&M	Test Year O&M Expenses	Somallo-2	
WO&M	Test Year O&M Expenses - Water	Somallo-3	
SO&M	Test Year O&M Expenses - Sewer	Somallo-4	
CL100A	Not in Use	Somallo-5	
CL100B	Not in Use	Somallo-6	
CL200A	Not in Use	Somallo-7	
CL200B	Not in Use	Somallo-8	
CL200LEA	Not in Use	Somallo-9	
CL200LEB	Not in Use	Somallo-10	
CL300A	Not in Use	Somallo-11	
CL300B	Not in Use	Somallo-12	
CL300LEA	Not in Use	Somallo-13	
CL300LEB	Not in Use	Somallo-14	
CL400A	Not in Use	Somallo-15	
CL400B	Not in Use	Somallo-16	
CL100SUM	Class 100 O&M Summary	Somallo-17	
CL200SUM	Class 200 O&M Summary	Somallo-18	
CL300SUM	Class 300 O&M Summary	Somallo-19	
CL400SUM	Class 400 O&M Summary	Somallo-20	
POWER	Test Year Power Costs	Somallo-21a	
GAS	Test Year Gas Costs	Somallo-21b	
TOTALOM	Test Year O&M Summary	Somallo-22	
NEOM	Allocation of O&M Expense to NE WPCP	Somallo-23	
SWOM	Allocation of O&M Expense to SW WPCP	Somallo-24	
SEOM	Allocation of O&M Expense to SE WPCP	Somallo-25	
RESPON	Treatment Plant Responsibilities	Somallo-26	
NEOMALLO1	Allocation of O&M For The NE WPCP - Page 1	Somallo-27	TABLE WW - 10B
NEOMALLO2	Allocation of O&M For The NE WPCP - Page 2	Somallo-28	
BASISALLO	Basis of Allocation of O&M Expense	Somallo-29	
NEOMSUM	Summary of Allocated O&M NE WPCP	Somallo-30	
SWOMALLO1	Allocation of O&M For The SW WPCP - Page 1	Somallo-31	TABLE WW - 10C
SWOMALLO2	Allocation of O&M For The SW WPCP - Page 2	Somallo-32	
SWOMSUM	Summary of Allocated O&M SW WPCP	Somallo-33	
SEOMALLO1	Allocation of O&M For The SE WPCP - Page 1	Somallo-34	TABLE WW - 10D
SEOMALLO2	Allocation of O&M For The SE WPCP - Page 2	Somallo-35	
SEOMSUM	Summary of Allocated O&M SE WPCP	Somallo-36	
OMALLO	Test Year O&M to Functional Components	Somallo-37	TABLE WW - 10A
MISCOM	Miscellaneous Other O&M Allocations	Somallo-38	
TYOM	Test Year O&M to Functional Cost Components	Somallo-39	TABLES WW - 10E AND WH-2
TRMTPUMP	Unit Treatment & Pumping O&M to Contract Customers	Somallo-40	TABLE WH - 17
TWNALLO1	O&M Allocated to Abington	Somallo-41	TABLE WH - 18
TWNALLO2	O&M Allocated to Bensalem	Somallo-42	TABLE WH - 19
SWMAINT	Allocation of Sewer Maintenance O&M to Townships	Somallo-43	
TWNALLO3	O&M Allocated to Buck County	Somallo-44	TABLE WH - 20
TWNALLO4	O&M Allocated to Cheltenham	Somallo-45	TABLE WH - 21
TWNALLO5	O&M Allocated to Lower Moreland	Somallo-46	TABLE WH - 24
TWNALLO6	O&M Allocated to Lower Southampton	Somallo-47	TABLE WH - 25
TWNALLO7	O&M Allocated to DELCORA	Somallo-48	TABLE WH - 22
TWNALLO8	O&M Allocated to Springfield (excl. Wyndmoor)	Somallo-49	TABLE WH - 26
TWNALLO9	O&M Allocated to Lower Merion	Somallo-50	TABLE WH - 23
TWNALLO10	O&M Allocated to Upper Darby	Somallo-51	TABLE WH - 28
TWNALLO11	O&M Allocated to Springfield (incl. Wyndmoor)	Somallo-52	TABLE WH - 27
CONTRTOM	Summary of O&M Allocated to Contract Customers	Somallo-53	
RTLOM	Operation And Maintenance Expense Allocated To Retail	Somallo-54	TABLE WW - 10
MISCREV	Misc Revenue Adjustments	Somallo-55	

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer classes. It summarizes the allocated cost of service for contract customers, and it summarizes the cost of providing stormwater treatment.

Range	Description	Page Number	Table
RETIndex	Index	Retcos-1	
WWUnits	Units Of Wastewater Service	Retcos-2	
TOTOM	Total Contract and Retail O&M	Retcos-3	
DEPR	Test Year Depreciation	Retcos-4	
COLLSYS	Allocation Of Costs Between Sanitary and Stormwater	Retcos-5	
CONTRTPLN	Depreciable Plant Allocable To Contract Customers	Retcos-6	TABLE WH - 1
RTLDPLNT	Determination Of Depreciable Plant Allocable To Retail Service	Retcos-7	
WWUCOS	Unit Costs Of Retail Wastewater Service	Retcos-8	TABLE WW - 11 AND TABLE WW - 12
ICROR	Inside City Rate Of Return	Retcos-9	
LUMPSUM	Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Costs	Retcos-10	
CTRCTCOS	Summary Of Allocated Cost Of Service for Contract Customers	Retcos-11	TABLE WH - 29
RTLCC	Allocation Of O&M Expense To Retail Service - Customer Costs	Retcos-12	
RTLPLNT	Allocation Of O&M Expense To Retail Service - Plant	Retcos-13	
RTLII	Allocated Infiltration/Inflow Costs for Inside City Retail Service	Retcos-14	TABLE WW - 14 [Columns (2) and (3)]
RTLCCALLO	Allocation Of Capital Costs To Retail Service	Retcos-15	
RTLCOS	Retail Cost Of Service	Retcos-16	
RTLCOSSUM	Retail Cost Of Service Summary	Retcos-17	
XXXXX	PAGE NOT IN USE	Retcos-18	
RTLCOLL	Allocation Of O&M Expense To Retail Service - Collection System	Retcos-19	
GSCOS	Residential Excluding Senior Citizens Cost Of Service	Retcos-20	TABLE WW - 13 [Line 1]
XXXXX	PAGE NOT IN USE	Retcos-21	
RTLSINVEST	Retail Sewer Investment And Annual Costs Related To Sanitary Wastewater And Storm Water Functions	Retcos-22	
RTLPINVEST	Plant Investment Allocated To Retail Service Customers	Retcos-23	TABLE WW - 9
CONTINV	DELCORA Contributed Investment	Retcos-24	
SWCOS	Storm Water Cost Summary	Retcos-25	

The "Ratedsn" worksheet develops retail cost of service wastewater rates for treating a Mcf of wastewater.

Range	Description	Page Number	Table
RDSNIndex	Index	Ratedsn-1	
ICRTLCOS	Inside City Retail Service Unit Costs Of Service For Rate Design	Ratedsn-2	
CSTSERV	Total Retail Cost of Service	Ratedsn-3	
RTLUCOS	Retail Unit Costs of Service	Ratedsn-4	
RTLADJCOS	Adjusted Retail Unit Costs	Ratedsn-5	TABLE WW - 15
DSCUSTCOS	Discount Customer COS Recovered by Other Retail Customers	Ratedsn-6	
ADJSUR	Adjusted COS Rates for Surcharge Customers	Ratedsn-7	
AVGCOST	Average Cost for Each Mcf of Water Billed - Adjusted COS Basis	Ratedsn-8	TABLE WW - 17
TYCOS	Test Year COS Adjusted to Recover Discounted COS from All Classes	Ratedsn-9	TABLE WW - 14 [Columns (4) and (8)]

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RATESIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Rates-1

The "Rates" worksheet develops contract service lump sum charges and unit costs.

Range	Description	Page Number	Table
RATESIndex	Index	Rates-1	
WHLCOST	Wholesale Lump Sum Costs - Maintenance, Customer & Capital Costs	Rates-2	
WHLALLO	Summary of Allocated Costs for Wholesale Customers	Rates-3	
IIRATE	Contract Service Rate Design Adjustment to Recover I/I Costs	Rates-4	
WHLCHARG	Summary Of Charges For Wholesale Contract Customers	Rates-5	TABLE WH - 30
CTRCTREV1	Contract Service Revenues - Page 1	Rates-6	
CTRCTREV2	Contract Service Revenues - Page 2	Rates-7	
PLANTOM	Unit Net O&M Costs by Plant	Rates-8	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SERVIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Servchg-1

The "Servchg" worksheet develops the cost of service monthly service charge for 5/8 inch meters.

Range	Description	Page Number	Table
SERVIndex	Index	Servchg-1	
SRVCHG	Service Charge Design	Servchg-2	
ADJRTLCOS	Adjusted Retail COS Unit Costs	Servchg-3	
ADJCOSSUM	Summary of Adjusted COS Service Charges	Servchg-4	TABLE WW - 16
EQMBR	Equivalent Meter & Bill Ratios	Servchg-5	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
LAGIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Sewer System rates for the test year and two following years.

Range	Description	Page Number	Table
LAGIndex	Index	LagRate-1	
COSRates	Existing and COS Rates	LagRate-2	
BILLCONS	Projected Accounts, Bills and Consumptio	LagRate-3	
PBILLERates	Projected Gross Billings Under Existing Rate	LagRate-4	
BILLMETER	Historical Accounts by Meter Size & Billed Volum	LagRate-5	
BILLMETER	FY 2021 Bills by Meter Size & Billed Volum	LagRate-6	
EBILLS	Historical Billings Under Existing Rate	LagRate-7	
BILLTABFT	FY 2021 Bill Tab Adjustment Factor	LagRate-7a	
EUNITCHRG	Unit Charges Under Existing Rates	LagRate-8	
PBILLS	Billings Under COS Rates	LagRate-9	
PUNITCHRG	Unit Charges Under COS Rates	LagRate-10	
PBILLPRates	Projected Billings Under COS Rates	LagRate-11	
PBILLSUM	Summary of Projected Billings Under COS Rate	LagRate-12	
RECPTS	Calculation of Receipts (Under Proposed Rates) Reflecting La	LagRate-13	
TYRECPTS	Test Year Receipts with Lag	LagRate-14	
ADJCOS	Modified COS Rates to Account for Lag	LagRate-15	
CTRCTUnits	Contract Service Customers Billing Unit	LagRate-16	
WHLCHRGS	Summary of Existing Charges for Wholesale Contract Customer	LagRate-17	TABLE WH - 30
PRATES	Proposed Contract Rates and Percent Incr. Over Existing Rate	LagRate-18	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part	LagRate-19	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part	LagRate-19a	
COSCLASS	COS & Adjusted COS by Class	LagRate-20	TABLE WW - 14 [Columns (4) to (8)
CTRCTACOS	Contract Customers Allocated Cost of Service	LagRate-21	
EREVCOM	Comparison of Revenue Under Existing Rates to CO	LagRate-22	
CTRCTREVC	Comparison of Contract Revenues Under Existing Rates and Adjusted Rate	LagRate-23	
TYCSTSERV	Test Year Cost of Service	LagRate-24	
PRATESGS	Proposed Wastewater Rates for General Service	LagRate-25	
TYPBILLS	Typical Bills for Water and Wastewate	LagRate-26	
XXXXXX	PAGE NOT IN USE	LagRate-27	
XXXXXX	PAGE NOT IN USE	LagRate-28	
XXXXXX	PAGE NOT IN USE	LagRate-29	
XXXXXX	PAGE NOT IN USE	LagRate-30	
PHRATESTA	Four Years of Phased Rates (No trending)	LagRate-31	
PHASE1BILL	Transition Phase 1 Typical Bill	LagRate-32	
PHASE2BILL	Transition Phase 2 Typical Bill	LagRate-33	
PHASE3BILL	Transition Phase 3 Typical Bill	LagRate-34	
CHRGCMP1	Comparison 1 of Typical Bills	LagRate-35	
CHRGCMP2	Comparison 2 of Typical Bills	LagRate-36	Table C-4
PROPRCPTS	Page 1 of FY 2021 Proposed Receipts Calcs	LagRate-37	
PROPRCPTS	Page 2 of FY 2021 Proposed Receipts Calcs	LagRate-38	
XXXXXX	PAGE NOT IN USE	LagRate-39	
SSERVCHGS	2021 Components of Sewer Service Charges	LagRate-40	
XXXXXX	PAGE NOT IN USE	LagRate-41	
XXXXXX	PAGE NOT IN USE	LagRate-42	
SSERVCHGS	Summary of Components of Regular Sewer Service Charge	LagRate-43	
SSERVCHGS	Summary of Components of Discount Sewer Service Charge	LagRate-44	

The "SW LagRate" worksheet calculated projected billings and revenues under proposed stormwater rates.

Range	Page Number	Description
	SW LagRate - 1	PROJECTED BILLABLE PARCELS
	SW LagRate - 2	PROJECTED BILLABLE ACCOUNTS
	SW LagRate - 3	PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft)
	SW LagRate - 4	PROJECTED BILLABLE GROSS AREA (1000 sq ft)
	SW LagRate - 5	PROJECTED BILLINGS UNDER COS RATES
	SW LagRate - 6	PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR)
	SW LagRate - 7	PROJECTED BILLINGS UNDER PROPOSED RATES
	SW LagRate - 8	STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2021

SCOS19_21.XLS

UNITS

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
UnitsInd - Index	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-1

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UnitsInd	Index	Units-1	
CSUNITS	OC Contract Service Sewer Units	Units-2	TABLE WH - 3
UNTSER	Units of Sewer Service	Units-3	
TRMTUTS	Treatment Plant Units	Units-4	
PSUTS	Pumping Stations Units	Units-5	
SWRUTS	Sewer Units	Units-6	TABLE WH - 4
TPFS	Trtmt Plant Flows and Strengths	Units-7	
CCSF	Customer Class Sanitary Flows	Units-8	
RTLUNT	Retail Sewer Units	Units-9	
BILLTAB	FY 2016 Bill Distribution & TY Number of Bills	Units-10	
TYBILLS	FY 2021 Test Year Sewer Bills	Units-11	
TYMTRS	FY 2021 Test Year Equiv. Sewer Meters	Units-12	
TYUOS	FY 2021 Units of Wastewater Service	Units-13	
CCAS	Contract Customers Average Strengths	Units-14	TABLE WH - 4
RATIOS	Equiv. Bill and Meter Ratios	Units-15	
CNTRCTUNI	Contract Maximum Limits	Units-16	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
CSUNITS - OC Contract Service Sewer Units	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-2

Reference: Customer-19 Financial Plan Model

OUTSIDE CITY CONTRACT SERVICE UNITS OF WASTEWATER SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1)	(12)	(13)	(14)	(15)	
			Northeast WPC Plant							Southwest WPC Plant					Southeast WPC Plant		
Line No.		Units	Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southhampton	Total Northeast	DELCORA	Lower Merion	Springfield (Excluding Wyndmoor)	Upper Darby	Total Southwest	Springfield (Wyndmoor)	Total	
	FY 2021 Test Year																
	Volume:								1,636,000	Total Northeast excluding Cheltenham							
1	Sanitary Wastewater	(Mcf)	96,000	175,000	1,000,000	428,000	65,000	300,000	2,064,000	1,200,000	360,000	128,000	490,000	2,178,000	22,000	4,264,000	
2	Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500		14,900	2,200	16,600	33,700	900	105,100	
3	Total	(Mcf)	100,500	180,600	1,035,100	443,000	67,800	307,500	2,134,500	1,200,000	374,900	130,200	506,600	2,211,700	22,900	4,369,100	
									1,691,500	Total Northeast excluding Cheltenham							
	Suspended Solids:																
4	Sanitary Wastewater	(1,000 lbs)	1,000	1,998	10,296	3,392	661	2,434	19,781	13,404	3,707	2,196	4,800	24,107	240	44,128	
5	Infiltration	(1,000 lbs)	20	24	153	66	12	33	308		65	10	73	148	4	460	
6	Total	(1,000 lbs)	1,020	2,022	10,449	3,458	673	2,467	20,089	13,404	3,772	2,206	4,873	24,255	244	44,588	
	BOD																
7	Sanitary Wastewater	(1,000 lbs)	1,402	2,206	9,797	2,991	499	1,816	18,711	11,007	3,190	2,252	4,005	20,454	180	39,345	
8	Infiltration	(1,000 lbs)	3	3	22	9	2	5	44		9	1	10	20	1	65	
9	Total	(1,000 lbs)	1,405	2,209	9,819	3,000	501	1,821	18,755	11,007	3,199	2,253	4,015	20,474	181	39,410	
	Contract Maximum Units									Units-16	Units-16	Units-16					
	Capacity:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16	10,126	Total Northeast excluding Cheltenham			Units-16		Units-16		
	Sanitary Wastewater	(cfs)	9.542	11.740	74.260	31.750	5.880	15.790		155.000	31.570	4.600	35.000		1.930		
10	Sanitary Wastewater	(Mcf/day)	824	1,014	6,416	2,743	508	1,364	12,869	13,392	2,728	397	3,024	19,541	167	32,577	Units-3
11	Infiltration	(Mcf/day)	20	20	140	60	10	30	280		60	10	70	140	0	420	1.5
12	Total	(Mcf/day)	844	1,034	6,556	2,803	518	1,394	13,149	13,392	2,788	407	3,094	19,681	167	32,997	I/I
									10,346	Total Northeast excluding Cheltenham							
	Volume:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
	Sanitary Wastewater	(mgd)	4.453	6.133	24.000	13.410	1.900	7.140		50.000	14.500	3.200	17.000		1.000		
13	Sanitary Wastewater	(Mcf)	217,292	299,271	1,171,123	654,370	92,714	348,409	2,783,179	2,439,840	707,553	156,150	829,545	4,133,088	48,797	6,965,064	
14	Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500		14,900	2,200	16,600	33,700	900	105,100	1.5%
15	Total	(Mcf)	221,792	304,871	1,206,223	669,370	95,514	355,909	2,853,679	2,439,840	722,453	158,350	846,145	4,166,788	49,697	7,070,164	I/I
	Suspended Solids:		Units-16	Units-16	Units-16	calc'd	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
16	Sanitary Wastewater	(1,000 lbs)	2,481	3,734	13,400	5,186	966	6,000	31,767	19,487	7,250	3,300	7,349	37,386	200	69,353	
17	Infiltration (a)	(1,000 lbs)	20	24	153	66	12	33	308		65	10	73	148	4	460	
18	Total	(1,000 lbs)	2,501	3,758	13,553	5,252	978	6,033	32,075	19,487	7,315	3,310	7,422	37,534	204	69,813	
	BOD:		Units-16	Units-16	Units-16	calc'd	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
19	Sanitary Wastewater	(1,000 lbs)	2,102	5,340	13,400	4,573	729	5,500	31,644	21,771	6,871	3,100	6,831	38,573	155	70,372	
20	Infiltration	(1,000 lbs)	3	3	22	9	2	5	44		9	1	10	20	1	65	
21	Total	(1,000 lbs)	2,105	5,343	13,422	4,582	731	5,505	31,688	21,771	6,880	3,101	6,841	38,593	156	70,437	

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) I/I SS ppm allowance	70	70
(a) I/I BOD ppm allowance	10	10

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
UNTSER - Units of Sewer Service	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-3

Reference: Customer-12 Financial Plan Model

UNITS OF WASTEWATER SERVICE
Test Year 2021

Customer Class	(1) FY 2021 Test Year (a) Mcf Wtr Sales * 0.95	(2) Capacity Flow Rate Collection System (b) Mcf/day (7) / 365 * capacity ftr	(3) Capacity Flow Rate Pumping and Treatment (c) Mcf/day (7) / 365 * capacity ftr
Residential (5/8)	2,434,726	26,682	10,006
Residential (>5/8)	364,712	3,997	1,499
Commercial (5/8)	273,198	2,994	1,123
Commercial (>5/8)	1,165,380	12,771	4,789
Industrial (5/8)	5,938	65	24
Industrial (>5/8)	58,356	640	240
Public Utilities (5/8)	659	7	3
Public Utilities (>5/8)	8,166	89	34
Senior Citizens (5/8)	116,686	1,279	480
Senior Citizens (>5/8)	56	1	0
Water Plant Sludge	292,800	3,209	1,203
Housing Authority	149,342	1,637	614
Charities & Schools	148,439	1,627	610
Hospital/University	275,249	3,016	1,131
Hand Bill	417,677	4,577	1,716
xxxxxxxxxx	0	0	0
Sewer Only	67,450	739	277
Groundwater	220,000	4,822	1,507
Fire Meters	7,600	83	31
Scheduled (Flat Rate)	11	0	0
xxxxxxxxxx	0	0	0
Subtotal Retail Sanitary	6,006,445	68,235	25,287
	Units-4 - above		
I/I	10,850,455	237,818	74,318
Total Retail Service	16,856,900	306,053	99,605
Contract Service:	Units-2	Units-2	Units-2
Sanitary	4,264,000	32,577	32,577
I/I	105,100	420	420
Total	4,369,100	32,997	32,997
Total System	21,226,000	339,050	132,602

(a) Adjusted to exclude 5% not entering sewers.
(b) Retail capacity factor = 4.0, I/I and Groundwater capacity factor = 8.0.
(c) Retail capacity factor = 1.5, I/I and Groundwater capacity factor = 2.5.

Capacity Factors	
Sanitary Sewerage:	
Collection System Capacity Factor	4.0
Pumping and Trtmt Capacity Factor	1.5
Infiltration/Inflow:	
Collection System Capacity Factor	8.0
Pumping and Trtmt Capacity Factor	2.5

Note: Groundwater is assigned the I/I peaking factors

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TRMTUTS - Treatment Plant Units	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-4

TREATMENT PLANTS UNITS OF SERVICE

	FY 2021 Test Year Volume			FY 2021 Test Year Capacity			FY 2021 Test Year Treatment Plant			
									average plant strengths	
Plant	Total	Contract Customers	Net Retail	Total	Contract Customers	Net Retail	SS	BOD	SS	BOD
	Mcf	Mcf	Mcf	Mcf/day	Mcf/day	Mcf/day	1,000 lbs	1,000 lbs	ppm	ppm
	Units-7	Units-2		Units-3	Units-2				Pltdes-5	Pltdes-5
NE	9,027,000	2,134,500	6,892,500	56,393	13,149	43,244	112,618	76,017	200	135
SW	8,295,000	2,211,700	6,083,300	51,820	19,681	32,139	82,789	56,917	160	110
SE	3,904,000	22,900	3,881,100	24,389	167	24,222	34,824	28,005	143	115
Total	21,226,000	4,369,100	16,856,900	132,602	32,997	99,605	230,231	160,939	174	122

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
PSUTS - Pumping Stations Units	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-5

PUMPING STATIONS UNITS OF SERVICE

Central Schuylkill Pumping Station

Volume:	2,715,700	Mcf/yr	BD-24
Capacity:			
Total Capacity of CSPS (Mcf/day)	22,110	Prior Rate Proceeding	
Contract Maximum Springfield (excluding Wyndoor) (Mcf/day)	370	Prior Rate Proceeding	

Neill Drive Pumping Station

Volume:	69,650	Mcf/yr	BD-24
Capacity:			
Total Capacity of NDPS (Mcf/day)	370	Prior Rate Proceeding	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SWRUTS - Sewer Units	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-6

UNITS OF WASTEWATER SERVICE
Test Year 2021

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Capacity Flow Rate		Strength		Customer			
Customer Class	FY 2021 Test Year	Collection System	Pumping and Treatment	Suspended Solids (b)	BOD (c)	Equivalent Bills	Equivalent Meters	Equivalent Service Meters	Bills
	Mcf	Mcf/day	Mcf/day	1,000 lbs	1,000 lbs				
	Units-3	(7) / 365	(8) * capacity factor			Units-11	Units-12	Units-12	
Residential	2,799,394	30,679	11,506	45,417	48,911	5,058,102	440,825	421,273	5,040,408
Commercial	1,438,578	15,765	5,912	23,339	25,135	490,505	92,550	37,103	429,648
Industrial	64,293	705	264	1,043	1,123	15,198	4,031	1,112	12,240
Public Utilities	8,826	97	36	143	154	3,239	1,209	174	2,040
Senior Citizens	116,742	1,279	480	1,894	2,040	281,374	23,460	23,448	281,364
Sewer Only	67,450	739	277	1,094	1,178	1,259	504	59	708
Groundwater	220,000	4,822	1,507	961	137				
Surcharge	0	0	0	1,633	10,650				
Water Treatment Plant Sludge	292,800	3,209	1,203	27,500					
Housing Authority	149,342	1,637	614	2,423	2,609	72,030	8,462	5,708	68,844
Charities & Schools	148,439	1,627	610	2,408	2,594	40,212	14,813	1,845	24,612
Hospital/University	275,249	3,016	1,131	4,466	4,809	13,269	7,192	193	4,236
Hand Bill	417,677	4,577	1,716	6,776	7,298	8,486	4,718	98	2,604
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Fire Meters	7,600	83	31	123	133	1,824	498	122	1,344
Scheduled (Flat Rate)	11	0	0	0	0	36	3	3	36
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Subtotal Retail Sanitary	6,006,400	68,235	25,287	119,220	106,771	5,985,534	598,265	491,137	5,868,084
I/I	10,850,500	237,818	74,318	47,382	6,769				
Total Retail Service	16,856,900	306,053	99,605	166,602	113,540	5,985,534	598,265	491,137	5,868,084
Contract Service:		Units-3	Units-3	Units-9	Units-9				
Sanitary	4,264,000	32,577	32,577	44,128	39,345				
I/I	105,100	420	420	459	66				
Total	4,369,100	32,997	32,997	44,587	39,411				
Total System	21,226,000	339,050	132,602	211,189	152,951				

(a) Adjusted to exclude 5% not entering sewers.
(b) Retail SS @ 260 mg/l
(c) Retail BOD @ 280 mg/l

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TPFS - Trtmt Plant Flows and Strengths	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-7

Units of Service - Treatment Plant Flows and Strengths
Test Year 2021

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			BOD				SS			
			Basis of Allocation				Basis of Allocation			
Plant	Influent Flow		Average Strength	Total Pounds	Allocation of Total Pounds	Resulting Average Strength	Average Strength	Total Pounds	Allocation of Total Pounds	Resulting Average Strength
	mgd Pltdes-5	Mcf Units-4	ppm Pltdes-5	1,000 lbs Units-4	1,000 lbs Allocate Units-6 on Col. (4)	ppm (5)/(1)/365 /.00834	ppm Pltdes-5	1,000 lbs Units-4	1,000 lbs Allocate Units-6 on Col. (8)	ppm (9)/(1)/365 /0.00834
NE	185	9,027,000	135	76,017	72,244	128	200	112,618	103,303	183
SW	170	8,295,000	110	56,917	54,092	105	160	82,789	75,942	147
SE	80	3,904,000	115	28,005	26,615	109	143	34,824	31,944	131
Total	435	21,226,000	122	160,939	152,951	116	174	230,231	211,189	159

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CCSF - Customer Class Sanitary Flows	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Units-8

ESTIMATED ANNUAL SANITARY WASTEWATER CONTRIBUTION BY CUSTOMER CLASS

Test Year 2021

Line No.	Customer Class	(1) Total Volume Billable for Wastewater Service (a)	(2) Estimated Wastewater Contribution Factor	(3) Estimated Annual Sanitary Wastewater Volume
		Mcf		Mcf
		(3) / [(2)/100]		Units-6
1	Residential	2,946,700	95	2,799,394
2	Commercial	1,514,300	95	1,438,578
3	Industrial	67,700	95	64,293
4	Public Utilities	9,300	95	8,826
5	Senior Citizens	122,900	95	116,742
6	Sewer Only	71,000	95	67,450
7	Groundwater	220,000	100	220,000
8	Housing Authority	157,200	95	149,342
9	Charities & Schools	156,300	95	148,439
10	Hospital/University	289,700	95	275,249
11	Hand Bill	439,700	95	417,677
12	xxxxxxxxxx	0	95	0
13	Fire Meters	8,000	95	7,600
14	Scheduled	0	95	11
15	xxxxxxxxxx	0	95	0
16	Total Retail	6,002,800	95	5,713,600
17	Contract Service (b)	4,264,000	100	4,264,000
18	Total System	10,266,800	97	9,977,600

Mcf - Thousand cubic feet

(a) Water purchased by retail service customers and wastewater flows from contract service customers and wastewater only customers.

(b) Includes areas served under contracts with 10 separate suburban authorities.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
RTLUNT - Retail Sewer Units	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-9

Units of Service - Retail
Average BOD and SS Strengths
Test Year 2021

Line No.		(1) BOD	(2) SS	(3) Volume	(4) BOD	(5) SS	
		1,000 lbs	1,000 lbs	mgd	mg/l	mg/l	
			Calc from Units-6				
1	Total Pounds Flowing Into Treatment Plants	160,939	230,231	435.0	121.538	173.866	
	Less Infiltration /Inflow Contribution						
	Contract Customers			2.2			
2	BOD @ 10 ppm x 105,100.0 Mcf	66					
3	SS @ 70 ppm x 105,100.0 Mcf		459				
	Retail Customers			222.4			
4	BOD @ 10 ppm x 10,850,500 Mcf	6,769					
5	SS @ 70 ppm x 10,850,500 Mcf		47,382				
		Units-2	Units-2	Units-2			
6	Less Contract Customers Sanitary Contribution	39,345	44,128	87.4			
7	Subtotal Retail Sanitary Contribution	114,759	138,262	123.0			
8	Less Surcharge Excess Strength Contribution	10,650	1,633		Projection based average loading per account and projected surcharge accounts		
9	Less Water Treatment Plant Sludge (a)		27,500	6.0	Based on historical WTP Sludge volume and loading data		
10	Net Normal Strength Retail	104,109	109,129	117.0			
11	Resulting Retail Average Strength of Sanitary Volume Contributed to Collection System	292.310	306.405				
					Estimated Infiltration/Inflow Strengths		
		USE	USE		BOD	SS	
12	Average Retail Strengths (mg/l)	280	260		10	70	
	(a) Includes 27,500,000 lbs. of SS from Water Treatment Plant slud	280	300		10	70	PREVIOUS VALUES

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
BILLTAB - FY 2016 Bill Distribution & TY Number of Bills	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-10

Source: Financial Planning Model - Btab

	Total Count	5/8" R	3/4" Z	1" Q	1-1/4" Y	1-1/2" P	2" X	3" O	4" W	6" N	8" V	10" E	12" T	
Percentage Distribution of Accounts														
Residential	1.000000	0.981404	0.000152	0.014544	0.000000	0.001971	0.001443	0.000336	0.000112	0.000029	0.000007	0.000002	0.000000	x
Commercial	1.000000	0.782901	0.000307	0.086415	0.000000	0.037147	0.054016	0.021283	0.012401	0.004022	0.001033	0.000475	0.000000	
Industrial	1.000000	0.500980	0.000000	0.233333	0.000000	0.079412	0.112745	0.051961	0.012745	0.007843	0.000980	0.000000	0.000000	
Public Utilities	1.000000	0.435294	0.000000	0.176471	0.000000	0.070588	0.147059	0.094118	0.035294	0.029412	0.011765	0.000000	0.000000	
Senior Citizens	1.000000	0.999782	0.000000	0.000174	0.000000	0.000044	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
Sewer Only	1.000000	0.698413	0.015873	0.031746	0.000000	0.000000	0.111111	0.031746	0.047619	0.031746	0.015873	0.015873	0.000000	x
Groundwater	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	x
Housing Authority	1.000000	0.961771	0.000000	0.003979	0.000000	0.015741	0.004670	0.006573	0.004152	0.002249	0.000865	0.000000	0.000000	x
Charities & Schools	1.000000	0.481899	0.000000	0.120357	0.000000	0.059238	0.102022	0.097790	0.124589	0.013164	0.000940	0.000000	0.000000	x
Hospital/University	1.000000	0.078689	0.000000	0.078689	0.000000	0.029508	0.163934	0.259016	0.226230	0.131148	0.029508	0.003279	0.000000	x
Hand Bill	1.000000	0.041096	0.000000	0.041096	0.000000	0.045662	0.146119	0.292237	0.292237	0.105023	0.027397	0.009132	0.000000	
Scheduled	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
xxxxxxxxxx	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
xxxxxxxxxx	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	x
Fire Service	1.000000	0.571429	0.000000	0.161905	0.000000	0.076190	0.114286	0.009524	0.047619	0.019048	0.000000	0.000000	0.000000	

Number of Bills - TY 2021	
Residential	5,040,408
Commercial	429,648
Industrial	12,240
Public Utilities	2,040
Senior Citizens	281,364
Sewer Only	708
Groundwater	60
Housing Authority	68,844
Charities & Schools	24,612
Hospital/University	4,236
Hand Bill	2,604
Scheduled	36
xxxxxxxxxx	0
xxxxxxxxxx	0
Fire Service	1,344

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TYBILLS - FY 2021 Test Year Sewer Bills	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-11

Reference: Financial Plan Model Customer-1 and Assumptions-41

EQUIVALENT WASTEWATER BILLS
Retail Customers
Excludes Water Only; Includes Sewer Only
Test Year 2021

	FY 2021 Test Year Number of Bills(a)	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
	Ref. A	Test Years bills allocated based on Units-10												
Equivalent Bill Factor		1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
Residential														
Bills														
5/8"	4,946,676	4,946,676												
>5/8"	93,732		768	73,308	0	9,936	7,272	1,692	564	144	36	12	0	
Total Bills	5,040,408	4,946,676	768	73,308	0	9,936	7,272	1,692	564	144	36	12	0	
Equivalent Bills	5,058,102	4,946,676	768	80,639	0	11,923	10,908	3,384	2,256	1,008	360	180	0	
Commercial														
Bills														
5/8"	336,372	336,372												
>5/8"	93,276		132	37,128	0	15,960	23,208	9,144	5,328	1,728	444	204	0	
Total Bills	429,648	336,372	132	37,128	0	15,960	23,208	9,144	5,328	1,728	444	204	0	
Equivalent Bills	490,505	336,372	132	40,841	0	19,152	34,812	18,288	21,312	12,096	4,440	3,060	0	
Industrial														
Bills														
5/8"	6,132	6,132												
>5/8"	6,108		0	2,856	0	972	1,380	636	156	96	12	0	0	
Total Bills	12,240	6,132	0	2,856	0	972	1,380	636	156	96	12	0	0	
Equivalent Bills	15,198	6,132	0	3,142	0	1,166	2,070	1,272	624	672	120	0	0	
Public Utilities														
Bills														
5/8"	888	888												
>5/8"	1,152		0	360	0	144	300	192	72	60	24	0	0	
Total Bills	2,040	888	0	360	0	144	300	192	72	60	24	0	0	
Equivalent Bills	3,239	888	0	396	0	173	450	384	288	420	240	0	0	
Senior Citizens														
Bills														
5/8"	281,280	281,280												
>5/8"	84		0	67	0	17	0	0	0	0	0	0	0	
Total Bills	281,364	281,280	0	67	0	17	0	0	0	0	0	0	0	
Equivalent Bills	281,374	281,280	0	74	0	20	0	0	0	0	0	0	0	
Sewer Only														
Bills	708	496	11	22	0	0	79	22	34	22	11	11	0	
Equivalent Bills	1,259	496	11	24	0	0	119	44	136	154	110	165	0	

Groundwater													
Bills	60	60	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	60	60	0	0	0	0	0	0	0	0	0	0	0
Housing Authority													
Bills	68,844	66,210	0	274	0	1,084	322	453	286	155	60	0	0
Equivalent Bills	72,030	66,210	0	301	0	1,301	483	906	1,144	1,085	600	0	0
Charities & Schools													
Charities & Schools													
Bills	24,612	11,861	0	2,962	0	1,458	2,511	2,407	3,066	324	23	0	0
Equivalent Bills	40,212	11,861	0	3,258	0	1,750	3,767	4,814	12,264	2,268	230	0	0
Hospitals and Universities													
Bills	4,236	334	0	333	0	125	694	1,097	958	556	125	14	0
Equivalent Bills	13,269	334	0	366	0	150	1,041	2,194	3,832	3,892	1,250	210	0
Hand Bill													
Bills	2,604	108	0	107	0	119	380	761	761	273	71	24	0
Equivalent Bills	8,486	108	0	118	0	143	570	1,522	3,044	1,911	710	360	0
Scheduled													
Bills	36	36	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	36	36	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx													
Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx													
Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service													
Bills	1,344	767	0	218	0	102	154	13	64	26	0	0	0
Equivalent Bills	1,824	767	0	240	0	122	231	26	256	182	0	0	0
Total													
Bills	5,868,084	5,651,160	911	117,635	0	29,917	36,300	16,417	11,289	3,384	806	265	0
Equivalent Bills	5,985,534	5,651,160	911	129,399	0	35,900	54,451	32,834	45,156	23,688	8,060	3,975	0

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TYMTRS - FY 2021 Test Year Equiv. Sewer Meters	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Units-12

EQUIVALENT WASTEWATER "METERS"
Retail Customers
Excludes Water Only; Includes Sewer Only
Test Year 2021

	FY 2021 Test Year Number of Meters(a)	5/8	3/4	1	1 1/4	1 1/2	2	3	4	6	8	10	12	14
		Number of Bills (Units-11) / 12												
Equivalent Meter Factor (Capacity)		1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
Equivalent Meter Factor (Service)		1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	45.0
Residential														
Meters	420,034	412,223	64	6,109	0	828	606	141	47	12	3	1	0	
Equivalent Meters	440,825	412,223	96	15,273	0	4,140	4,848	2,115	1,175	600	240	115	0	
Equivalent Service	421,273	412,223	64	6,720	0	994	1,273	0	0	0	0	0	0	0
Commercial														
Meters	35,804	28,031	11	3,094	0	1,330	1,934	762	444	144	37	17	0	
Equivalent Meters	92,550	28,031	17	7,735	0	6,650	15,472	11,430	11,100	7,200	2,960	1,955	0	
Equivalent Service	37,103	28,031	11	3,403	0	1,596	4,061	0	0	0	0	0	0	0
Industrial														
Meters	1,020	511	0	238	0	81	115	53	13	8	1	0	0	
Equivalent Meters	4,031	511	0	595	0	405	920	795	325	400	80	0	0	
Equivalent Service	1,112	511	0	262	0	97	242	0	0	0	0	0	0	0
Public Utilities														
Meters	170	74	0	30	0	12	25	16	6	5	2	0	0	
Equivalent Meters	1,209	74	0	75	0	60	200	240	150	250	160	0	0	
Equivalent Service	174	74	0	33	0	14	53	0	0	0	0	0	0	0
Senior Citizens														
Meters	23,447	23,440	0	6	0	1	0	0	0	0	0	0	0	
Equivalent Meters	23,460	23,440	0	15	0	5	0	0	0	0	0	0	0	
Equivalent Service	23,448	23,440	0	7	0	1	0	0	0	0	0	0	0	0
Sewer Only														
Meters	60	41	1	2	0	0	7	2	3	2	1	1	0	
Equivalent Meters	504	41	2	5	0	0	56	30	75	100	80	115	0	
Equivalent Service	59	41	1	2	0	0	15	0	0	0	0	0	0	0
Groundwater														
Meters	5	5	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	5	5	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	5	5	0	0	0	0	0	0	0	0	0	0	0	0
Housing Authority														
Meters	5,738	5,518	0	23	0	90	27	38	24	13	5	0	0	
Equivalent Meters	8,462	5,518	0	58	0	450	216	570	600	650	400	0	0	
Equivalent Service	5,708	5,518	0	25	0	108	57	0	0	0	0	0	0	0

Charities & Schools														
Charities & Schools														
Meters	2,052	988	0	247	0	122	209	201	256	27	2	0	0	
Equivalent Meters	14,813	988	0	618	0	610	1,672	3,015	6,400	1,350	160	0	0	
Equivalent Service	1,845	988	0	272	0	146	439	0	0	0	0	0	0	0
Hospital/University														
Meters	352	28	0	28	0	10	58	91	80	46	10	1	0	
Equivalent Meters	7,192	28	0	70	0	50	464	1,365	2,000	2,300	800	115	0	
Equivalent Service	193	28	0	31	0	12	122	0	0	0	0	0	0	0
Hand Bill														
Meters	217	9	0	9	0	10	32	63	63	23	6	2	0	
Equivalent Meters	4,718	9	0	23	0	50	256	945	1,575	1,150	480	230	0	
Equivalent Service	98	9	0	10	0	12	67	0	0	0	0	0	0	0
Scheduled														
Meters	3	3	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	3	3	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	3	3	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx														
Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx														
Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service														
Meters	112	64	0	18	0	9	13	1	5	2	0	0	0	
Equivalent Meters	498	64	0	45	0	45	104	15	125	100	0	0	0	
Equivalent Service	122	64	0	20	0	11	27	0	0	0	0	0	0	0
Total (b)														
Meters	489,009	470,930	76	9,804	0	2,493	3,026	1,368	941	282	67	22	0	
Equivalent Meters	598,265	470,930	115	24,512	0	12,465	24,208	20,520	23,525	14,100	5,360	2,530	0	
Equivalent Service	491,137	470,930	76	10,784	0	2,992	6,355	0	0	0	0	0	0	

(a) Including Wastewater Only.
(b) Excludes Groundwater

TABLE WH - 4

UNITS OF WASTEWATER SERVICE
TEST YEAR 2021

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			Capacity Flow Rate		Strength		Customer			
Line No.	Customer Class	FY 2021 Test Year Volume	Collection System	Pumping and Treatment	Suspended Solids	BOD	Equivalent Bills	Equivalent Meters	Equivalent Service	Bills
		Mcf	Mcf/day	Mcf/day	1,000 lbs	1,000 lbs				
		Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	
1	Residential	2,799,394	30,679	11,506	45,417	48,911	5,058,102	440,825	421,273	5,040,408
2	Commercial	1,438,578	15,765	5,912	23,339	25,135	490,505	92,550	37,103	429,648
3	Industrial	64,293	705	264	1,043	1,123	15,198	4,031	1,112	12,240
4	Public Utilities	8,826	97	36	143	154	3,239	1,209	174	2,040
5	Senior Citizens	116,742	1,279	480	1,894	2,040	281,374	23,460	23,448	281,364
6	Sewer Only	67,450	739	277	1,094	1,178	1,259	504	59	708
7	Groundwater	220,000	4,822	1,507	961	137	0	0	0	0
8	Surcharge				1,633	10,650				0
9	Water Treatment Plant Sludge	292,800	3,209	1,203	27,500					
10	Housing Authority	149,342	1,637	614	2,423	2,609	72,030	8,462	5,708	68,844
11	Charities	423,687	4,643	1,741	6,874	7,403	53,481	22,005	2,038	28,848
12	Hand Bill	417,677	4,577	1,716	6,776	7,298	8,486	4,718	98	2,604
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
14	Fire Meters	7,600	83	31	123	133	1,824	498	122	1,344
15	Scheduled	11	0	0	0	0	36	3	3	36
16	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
17	Subtotal Retail Sanitary	6,006,400	68,235	25,287	119,220	106,771	5,985,534	598,265	491,137	5,868,084
18	Infiltration/Inflow	10,850,500	237,818	74,318	47,382	6,769				0
19	Total Retail Service	16,856,900	306,053	99,605	166,602	113,540	5,985,534	598,265	491,137	5,868,084
20	Contract Service:									
21	Sanitary	4,264,000	32,577	32,577	44,128	39,345				
22	Infiltration/Inflow	105,100	420	420	459	66				
23	Total Contract Service	4,369,100	32,997	32,997	44,587	39,411				
24	Total System	21,226,000	339,050	132,602	211,189	152,951				

TABLE WH - 4

ESTIMATED AVERAGE WASTEWATER STRENGTH CONCENTRATIONS FOR CONTRACT CUSTOMERS

Test Year 2021

	Average Wastewater Strength Concentrations	
	Suspended Solids mg/l	BOD mg/l
Abington	167	234
Bensalem	183	202
Bucks County	165	157
Cheltenham	127	112
DELCORA	179	147
Lower Merion	165	142
Lower Moreland	163	123
Lower Southhampton	130	97
Springfield (excluding Wyndoor)	275	282
Springfield (Wyndoor)	175	131
Upper Darby	157	131

mg/l - milligram per liter

EQUIVALENT BILL AND METER RATIOS

Meter Size	Equivalent Factors: Bills (Units-11)	Equivalent Factors: Meters Capacity Basis (Units-12)	Equivalent Factors: Service Cost Basis
5/8	1.00	1.00	1.00
3/4	1.00	1.50	1.00
1	1.10	2.50	1.10
1-1/4	1.20	3.80	1.20
1-1/12	1.20	5.00	1.20
2	1.50	8.00	2.10
3	2.00	15.00	10.00
4	4.00	25.00	12.00
6	7.00	50.00	15.00
8	10.00	80.00	19.00
10	15.00	115.00	25.00
12	20.00	215.00	28.00

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CNTRCTUNITS - Contract Maximum Limits	**P.N. 135647.0100**	**February 07, 2020 3:17 p.m.**					**Units-16**

Summary of Wholesale Contract Agreements

Township	Flow Limits: Maximum Annual Avg (mgd)	Flow Limits: Instantaneous Maximum (cfs)	Maximum Annual Loadings: SS (1,000 lbs)	Maximum Annual Loadings: BOD (1,000 lbs)	
Springfield					
Erdenheim	3.200	4.600	3,300	3,100	
Wyndmoor	1.000	1.930	200	155	
Lower Merion	14.500	31.570	7,250	6,871	
Delcora	50.000	155.000	19,487.0	21,771.0	x
Upper Darby	17.000	35.000	7,348.5	6,831.0	
Abington	4.453	9.542	2,481.0	2,102.0	
Bensalem	6.133	11.740	3,734	5,340	
Bucks County	24.000	74.260	13,400	13,400	
Cheltenham	13.4101	31.750	#N/A	#N/A	
Lower Moreland	1.900	5.880	966	729	
Lower Southampton	7.140	15.790	6,000	5,500	

NA - Not Available
Reference: Existing Wholesale Contract Agreements

Lower Moreland	Maximum Annual Avg (mgd)	Instantaneous Maximum (cfs)	Max Annual Loadings: SS (1,000 lbs)	Max Annual Loadings: BOD (1,000 lbs)
2019	1.900	5.880	966	729
2020	1.900	5.880	966	729
2021	1.900	5.880	966	729
2022	1.900	5.880	966	729
2023	1.900	5.880	966	729
2024	1.900	5.880	966	729
2025	1.900	5.880	966	729
2026	1.900	5.880	966	729
2027	1.900	5.880	966	729
2028	1.900	5.880	966	729
2029	1.900	5.880	966	729
2030	1.900	5.880	966	729
2031	1.900	5.880	966	729
2032	1.900	5.880	966	729
2033	1.900	5.880	966	729
TY 2021	1.900	5.880	966	729

SCOS19_21.XLS

PLTDES

The "Pltdes" worksheet contains wastewater plant design data for the Northeast, Southwest, and Southeast treatment plants, and historical treatment plants influent flows and strengths.

Range	Description	Page Number	Table
PltdesInd	Index	Pltdes-1	
NEDESG	NEWPCP Design Conditions	Pltdes-2	
SWDESG	SWWPCP Design Conditions	Pltdes-3	
SEDESG	SEWPCP Design Conditions	Pltdes-4	
WWFS	WWTP Flows & Strengths	Pltdes-5	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
NEDESG - NEWPCP Design Conditions	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Pltdes-2

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: NEWPCP
Assumed Year of Operation: Design Conditions
8.34 lbs/gallon

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	185					Pltdes-5
2	SS Strength - mg/l			200.00			Pltdes-5
3	BOD Strength - mg/l			135.00			Pltdes-5
4	Solid: (SS) - ppd				308,580		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		50.0				
6	SS Removed - mg/l			100.00			Line 2 x Line 5
7	BOD Removed - %		22.5				
8	BOD Removed - mg/l			30.38			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				154,290		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			100.00			Line 2 - Line 6
11	BOD - mg/l			104.62			Line 3 - Line 8
12	Solids: (SS) - ppd				154,290		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				80,231	49.9	Line 12 x 0.52
14	BOD ppd				80,709	50.1	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				160,940	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	Total - ppd				46,287		Line 1 x 8.34 x Line 16
18	SS related - ppd				23,097		Line 13 x Line 17
19	BOD related - ppd				23,190		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				154,290		Line 9
21	SS from secondary treatment - ppd				57,134		Line 13 - Line 18
22	Total SS - ppd				211,424	78.6	Line 20 + Line 21
23	BOD - ppd				57,519	21.4	Line 14 - Line 19
24	Total Solids - ppd				268,943	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.2				
26	Volume - mgd	0.76779					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				204,870		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		76.18				100 x Line 27 / Line 24
29	Fixed Solids - ppd				64,073		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			112,387	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			92,483	Line 27 - Line 30
32	Total Solids - ppd			156,556	Line 29 + Line 31
33	Dry Solids Concentration - %		2.7		
34	Volume - mgd	0.69525			Line 32 / (Line 33 x 8.34 x 1mil)

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: SWWPCP
Assumed Year of Operation: Design Conditions

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	170					Pltdes-5
2	SS Strength - mg/l			160.00			Pltdes-5
3	BOD Strength - mg/l			110.00			Pltdes-5
4	Solid: (SS) - ppd				226,848		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		45				
6	SS Removed - mg/l			72.00			Line 2 x Line 5
7	BOD Removed - %		25.00				
8	BOD Removed - mg/l			27.50			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				102,082		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			88.00			Line 2 - Line 6
11	BOD - mg/l			82.50			Line 3 - Line 8
12	Solids: (SS) - ppd				124,766		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				64,878	52.6	Line 12 x 0.52
14	BOD ppd				58,484	47.4	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				123,362	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	??? - ppd				42,534		Line 1 x 8.34 x Line 16
18	SS related - ppd				22,373		Line 13 x Line 17
19	BOD related - ppd				20,161		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				102,082		Line 9
21	SS from secondary treatment - ppd				42,505		Line 13 - Line 18
22	Total SS - ppd				144,587	79.0	Line 20 + Line 21
23	BOD - ppd				38,323	21.0	Line 14 - Line 19
24	Total Solids - ppd				182,910	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.00				
26	Volume - mgd	0.54829					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				138,677		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		75.82				100 x Line 27 / Line 24
29	Fixed Solids - ppd				44,233		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			74,550	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			64,127	Line 27 - Line 30
32	Total Solids - ppd			108,360	Line 29 + Line 31
33	Dry Solids Concentration - %		3.00		
34	Volume - mgd	0.43309			Line 32 / (Line 33 x 8.34 x 1mil)

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: SEWPCP
Assumed Year of Operation: Design Conditions

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	80					Pltdes-5
2	SS Strength - mg/l			143.00			Pltdes-5
3	BOD Strength - mg/l			115.00			Pltdes-5
4	Solid: (SS) - ppd				95,410		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		55.00				
6	SS Removed - mg/l			78.65			Line 2 x Line 5
7	BOD Removed - %		40.00				
8	BOD Removed - mg/l			46.00			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				52,476		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			64.35			Line 2 - Line 6
11	BOD - mg/l			69.00			Line 3 - Line 8
12	Solids: (SS) - ppd				42,934		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				22,326	49.2	Line 12 x 0.52
14	BOD ppd				23,018	50.8	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				45,344	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	??? - ppd				20,016		Line 1 x 8.34 x Line 16
18	SS related - ppd				9,848		Line 13 x Line 17
19	BOD related - ppd				10,168		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				52,476		Line 9
21	SS from secondary treatment - ppd				12,478		Line 13 - Line 18
22	Total SS - ppd				64,954	83.5	Line 20 + Line 21
23	BOD - ppd				12,850	16.5	Line 14 - Line 19
24	Total Solids - ppd				77,804	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.00				
26	Volume - mgd	0.23323					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				59,997		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		77.11				100 x Line 27 / Line 24
29	Fixed Solids - ppd				17,807		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			33,391	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			26,606	Line 27 - Line 30
32	Total Solids - ppd			44,413	Line 29 + Line 31
33	Dry Solids Concentration - %		3.00		
34	Volume - mgd	0.17751			Line 32 / (Line 33 x 8.34 x 1mil)

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
WWFS - WWTP Flows & Strengths	P.N. 135647.0100	February 07, February 07, 2020 3:17 p.m.			Pltdes-5

HISTORICAL WASTEWATER TREATMENT PLANT FLOWS & STRENGTHS

											Simple Average			Weighted Average			
Arithmetic Averages	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	All Data	Last 3 Years	Last 2 Years	All Data	Last 3 Years	Last 2 Years	Current Study
		BD-26a	BD-26a														
Northeast Plant																	
Influent Flow - mgd	177	162	182	156	174	162	148	149	175	235	172	186	205				185
Influent SS - mg/l	234	220	219	243	232	187	187	208	208	190	213	202	199	212	200	198	200
Influent BOD - mg/l	156	162	142	161	149	145	146	152	139	129	148	140	134	147	138	133	135
Southwest Plant																	
Influent Flow - mgd	184	162	181	162	176	165	155	152	162	190	169	168	176				170
Influent SS - mg/l	149	163	156	168	161	172	162	164	176	144	162	161	160	161	159	158	160
Influent BOD - mg/l	107	119	105	112	108	118	125	122	127	97	114	115	112	113	113	110	110
Southeast Plant																	
Influent Flow - mgd	92	86	76	77	80	78	75	75	77	90	81	81	84				80
Influent SS - mg/l	136	149	130	141	142	142	150	146	154	134	142	145	144	142	143	143	143
Influent BOD - mg/l	95	102	116	113	106	105	124	122	124	107	111	118	116	111	116	114	115

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PLANT

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PlantInd - Index	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-1

Fixed Asset Listing as of date 6/30/2019

Range	Description	Page Number	Table
PlantInd	Index	Plant-1	
PLTFUNC	Plant Functions	Plant-2	
NEPA1	NE Plant Assets (Non-WPAP) as of 6/30/2019	Plant-3	
NEPA2	'NE Plant Assets (WPAP) as of 6/30/2019	Plant-4	
SWPA1	SW Plant Assets (Non-WPAP) as of 6/30/2019	Plant-5	
SWPA2	SW Plant Assets (WPAP) as of 6/30/2019	Plant-6	
SEPA1	SE Plant Assets (Non-WPAP) as of 6/30/2019	Plant-7	
SEPA2	SE Plant Assets (WPAP) as of 6/30/2019	Plant-8	
SPLTFNC	All Plants - Assets by Plant Function as of 6/30/2019	Plant-9	
SLOCID	All Locations - Total Assets by Location ID as of 6/30/2019	Plant-10	
XXXXX	PAGE NOT IN USE	Plant-11	
SFAL	Summary of Fixed Asset Listing Control Totals as of 6/30/2019	Plant-12	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PLTFUNC - Plant Functions	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-2

Reference:

Plant Function ID	Plant Function Description
66	NE Grit Chamber
67	NE Pumping Station
68	NE Services Building
69	NE Meters, Vaults and Connection Sewers
70	NE Settling & Aeration Tanks
71	NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
72	NE Sludge Digestion System
73	NE Sludge Dewatering
74	NE Lagoons
75	NE Locker Bldg.
76	NE Chlorination Facilities
77	NE Admin. Bldg.
78	NE Heating Plant
79	NE Electrical Substation
80	NE Sludge Incinerators
81	NE Site
82	NE Sludge Residue Fusion Plant
83	NE Aeration Tank No. 1
84	NE Prelim. Treatment Bldg.
85	NE Elect. Bldg.
86	NE Primary Sedimentation Tanks
87	NE Final Sedimentation Tanks
88	NE Effluent Conduit
89	NE Sludge Thickener Bldg.
90	NE Sludge Transfer Station, Proc. & Loading Term.
91	NE Barges
92	NE Engineering, Design
93	SW Screen, Blower, Prim. Sludge PS, Grit
94	SW Grease Burner
95	SW Settling Tanks
96	SW Sludge Handling & Machine Shop
97	SW Sludge Digestion
98	SW Belt Filter System
99	SW Chlorination Facilities
100	SW Office & Equip. Building
101	SW Sludge Disposal
102	SW Electrical Substation
103	SW Waste Gas Burner
104	SW Elevated Water Tank
105	SW Dewatering Facilities
106	SW General Improvements
107	SW Site
108	SW Compressor Bldg.
109	SW Aeration Tanks
110	SW Sedimentation Tanks
111	SW Electrical Bldg.
112	SW Oxygen Supply
113	SW Effluent PS
114	SW Admin. Bldg.
115	SW Shop & Maintenance Bldg.
116	SW Warehouse
117	SW Primary Sedimentation Tanks
118	SW Preliminary Treatment Building
119	SW Influent PS
120	SW Scum Concentration Bldg.
121	SW Sludge Thickener Bldg.
122	SW Sludge Digestion Facilities
123	SW Composting Facilities
124	SW Sludge Gas Facilities
125	SW Outfall Line
126	SE Main PS
127	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
128	SE Settling Tanks & Flocculation Channel
129	SE Grease Bldg.
130	SE Blower & Primary Sludge PS
131	SE Storage Bldg.
132	SE Sludge Force Main to SW Plant
133	SE Main Effluent Conduit
134	SE Influent PS
135	SE Effluent PS
136	SE Aeration Tanks
137	SE Compressor Bldg.
138	SE Site
139	SE Primary Sedimentation Tanks
140	SE Final Sedimentation Tanks
141	SE Scum Concentration Facility

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
NEPA1 - NE Plant Assets (Non-WPAP) as of 6/30/2019 | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Plant-3

Reference: PWD 2019 Assets.xls

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1996	6	54	1698	0	81	GALLERYLIGHTING IMP	4,745		NE Site
1996	6	54	2897	0	81	INST TANKMONITORING/LEAKDETE	53,126		NE Site
1997	6	54	3038	0	81	ASBESTOS REMOVAL & REPLCEILIN	0	Retired as of 2019	NE Site
2001	2	54	70001	0	81	ACCESS CONT&ALARMSYS	1,252,847	Projects added since the 1999 FAL.	NE Site
1998	2	54	70002	0	81	PERIMETERCHAINLINK FENCE	900,520		NE Site
1999	6	54	70003	0	81	HIGH MASTLIGHTING SYS OVERHAU	112,062		NE Site
2000	3	54	70003	0	81	HIGH MSATLIGHTING SYS OVERHAU	68,215	Projects added since the 1999 FAL.	NE Site
1999	6	54	71000	0	86	REHABPRIMARY&FINALTKS	2,965,842	Projects added since the 1999 FAL.	NE Primary Sedimentation Tanks
1999	6	54	71000	0	87	REHABPRIMARY&FINALTKS	2,965,842	Projects added since the 1999 FAL.	NE Final Sedimentation Tanks
2002	4	54	71001	0	78	REPL TWO 600 HPBOILERS	1,279,843	Projects added since the 2002 FAL.	NE Heating Plant
2000	3	54	71002	0	84	REPL INFLUENTBARSCREEN	0	Projects added since the 1999 FAL. / Retired 2016	NE Prelim. Treatment Bldg.
1999	9	54	71003	0	72	REPL OFSLUDGE GAS BURNERS	447,957	Projects added since the 1999 FAL.	NE Sludge Digestion System
2013	4	54	71004	0	72	DEMOL - 6 OLD DIGESTERS-NEWPCP-GEN (	0	Retired as of 2019	NE Sludge Digestion System
2013	4	54	71005	0	72	DEMOL - 6 OLD DIGESTERS-NEWPCP-MECH	0	Retired as of 2019	NE Sludge Digestion System
1998	1	54	71007	0	81	POLYURETHANE SILICONEROOF	156,439		NE Site
2010	6	54	71007	0	81	**POLYURETHANE SILICONEROOF **	708		NE Site
1998	11	54	71008	0	81	RESTOR WROUGHT IRONPICKET FEN	79,390	Projects added since the 1999 FAL.	NE Site
2000	10	54	71010	0	81	REPL LOW/VOLTSWITCHGEAR/TRIP	1,190,631	Projects added since the 1999 FAL.	NE Site
2001	11	54	71011	0	73	GENCONST-RENOVBELT FILTERBL	507,460	Projects added since the 2002 FAL.	NE Sludge Dewatering
2001	4	54	71012	0	73	MECH-RENOV BELTFILTER BLDG	136,495	Projects added since the 1999 FAL.	NE Sludge Dewatering
2001	10	54	71013	0	73	ELECT-RENOVBELT FILTERBLDG	177,388	Projects added since the 1999 FAL.	NE Sludge Dewatering
2003	4	54	71015	0	89	MECH-DISSOLVED AIR FLOTATION S	2,223,714		NE Sludge Thickener Bldg.
2004	10	54	71016	0	78	CONST OLD HEAT PLT TO OFFICES	735,945		NE Heating Plant
2005	4	54	71017	0	77	CONV/OFFICES-DEM/INSTL HVAC	280,674		NE Admin. Bldg.
2006	1	54	71018	0	77	ELEC OLD HEATING PKT TO OFFICE	215,255		NE Admin. Bldg.
2006	7	54	71019	0	78	ELECTR CONVERSION OLD HEATING PLNT	489,411		NE Heating Plant
2002	3	54	71020	0	78	ROOFING-OLDHEATER BLDG	296,593	Projects added since the 2002 FAL.	NE Heating Plant
2002	1	54	71021	0	89	ELECT-IMPDISSOLVAIRFLOTATIO	322,286	Projects added since the 2002 FAL.	NE Sludge Thickener Bldg.
2002	3	54	71022	0	72	MECH-REHAB DIGESTERVALVES	378,051	Projects added since the 2002 FAL.	NE Sludge Digestion System
2002	3	54	71023	0	84	HVAC IMP-PRELTREATBLDG	860,258	Projects added since the 2002 FAL. Addition as of 2019	NE Prelim. Treatment Bldg.
2006	6	54	71024	0	76	CONST SOD HYPOCHLORITE FAC	1,674,323	Addition as of 2019	NE Chlorination Facilities
2004	7	54	71025	0	76	CONST-SODHYPOCHLORITE FAC	2,348,162	Addition as of 2019	NE Chlorination Facilities
2006	7	54	71026	0	76	ELECTR SODHYDRO FACILITIES -NORTHEA	466,995		NE Chlorination Facilities
2004	10	54	71027	0	76	HVAC SOD HYPOCHLORITE	443,921		NE Chlorination Facilities
2004	1	54	71028	0	76	PLUMB-SODHYPOCHLORITE FAC	52,351		NE Chlorination Facilities
2000	10	54	71029	0	83	RBCDEMPROJECT-PHASEI	463,169	Projects added since the 1999 FAL and Additions as of 2019	NE Aeration Tank No. 1
2002	1	54	71031	0	72	ELECT-REHABDIGESTER VALVES	154,344	Projects added since the 2002 FAL.	NE Sludge Digestion System
2001	2	54	71032	0	81	EMERGREPL GLYCOLLINES	151,090	Projects added since the 1999 FAL.	NE Site
2007	4	54	71033	0	70	General CON. FOR AERATION SYSTEM REHA	13,149,371	Addition as of 2019	NE Settling & Aeration Tanks
2003	11	54	71035	0	66	REPL MECHBARSCREEN	429,128	Addition as of 2019	NE Grit Chamber
2004	10	54	71036	0	77	Rehab Masonry Walls, Roofing St	666,670	Addition as of 2019	NE Admin. Bldg.
2006	4	54	71037	0	72	DIGESTER GAS PIPEING REPL	1,469,801	Addition as of 2019	NE Sludge Digestion System
2005	9	54	71038	0	67	MOTOR CONT REPL STGE 1 PUMP 1&2	415,308		NE Pumping Station
2005	2	54	71039	0	80	HEAT EXCHANGER REPL DIGESTOR	1,590,064	Addition as of 2019	NE Sludge Incinerators
2008	7	54	71041	0	78	ELECTICAL HVAC IMPROVEMENTS	258,871	Addition as of 2019	NE Heating Plant
2004	5	54	71042	0	87	REHABFINALSEDTANKS	2,108,718		NE Final Sedimentation Tanks
2006	11	54	71043	0	92	UPGRADE SCADA SYTM PHASE I- NORTHE/	543,748		NE Engineering, Design
2007	7	54	71044	0	66	REHAB. OF GRIT CHANNEL AERATION SYS	1,050,661	Addition as of 2019	NE Grit Chamber
2007	7	54	71045	0	91	REHAB. OF PIER 217 N. AT NORTHEAST WA	2,599,932		NE Barges
2005	3	54	71046	0	78	REPL NATURAL GAS PIPE VAR LOC	423,402		NE Heating Plant
2006	3	54	71047	0	66	REPL MECHANICAL BAR SCREENS	2,540,493		NE Grit Chamber
2007	5	54	71048	0	66	ELECTR WORK- REPLACE MECHAN BAR SC	336,978		NE Grit Chamber
2010	6	54	71049	0	66	Screenings Conveyor modifications	2,491,247	Addition as of 2019	NE Grit Chamber
2009	7	54	71050	0	66	Screenings Conveyor Modifications -Electrical	565,562		NE Grit Chamber
2009	1	54	71053	0	91	Rehab of Pier 217	759,892		NE Barges
2010	4	54	71054	0	89	R/R Replacement of DAF Floated Sludge Pumps &	1,327,802		NE Sludge Thickener Bldg.
2010	2	54	71060	0	72	Gas Storage Tank Inspection and Bladder replacem	1,325,070		NE Sludge Digestion System
2010	10	54	71061	0	71	Replace Existing Blower Building Switchgear	2,698,751		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
2010	1	54	71062	0	85	Power Distribution System Study	589,603		NE Elect. Bldg.
2007	3	54	71074	0	77	R/R-REHAB OUT BLDG,REPLACE DOORS TH	328,352		NE Admin. Bldg.
1987	10	54	BN74121	0	81	RELOCATE TELEPHONE CABLE ETC.	0	Expensed in 2019	NE Site
1988	6	54	G639	0	77	ALTERELEC-SERVICES&ADMBLDG	11,928		NE Admin. Bldg.
1988	6	54	G679	0	90	SLUDGE CAKESTAGINGPAD	0	Retired	NE Sludge Transfer Station, Proc. & Loading Term.
1988	6	54	G683	0	86	ADDNLLIGHTING ATPRIM SED TNK	13,562		NE Primary Sedimentation Tanks
1996	6	54	G684	0	67	GENCONVERSION-PSTO STORAGE B	48,789		NE Pumping Station
1996	6	54	G689	0	86	REHABOZONESYSIN PRIMSEDBA	0	Retired	NE Primary Sedimentation Tanks
1997	6	54	G689	0	86	REHABOZONESYSIN PRIMSEDBA	0	Retired	NE Primary Sedimentation Tanks
1996	6	54	G692	0	80	MODINCINERATORCONTROLROOM	19,098		NE Sludge Incinerators
1996	6	54	G695	0	88	INSTLBARSCREENS-EFFLUENT CON	0	Retired	NE Effluent Conduit
1992	1	54	G698	0	69	ODOR CTRL&KNIFEGATE VALVES	0	Retired	NE Meters, Vaults and Connection Sewers

1993	6	54	G700	0	81	GENCONST-EQUIPSTOR BLDG/YARD	1,686,340		NE Site
1994	12	54	G700	0	81	GENCONST-EQUIPSTORAGEBLDG	38,853		NE Site
1993	6	54	G701	0	81	MECH WORK-EQUIPSTOR BLDG/YARD	101,500		NE Site
1995	1	54	G701	0	81	MECH-EQUIP STORAGE BLDGOUTDOO	13,593		NE Site
1993	6	54	G702	0	81	ELEC WORK-EQUIPSTOR BLDG/YARD	136,359		NE Site
1996	6	54	G702	0	81	ELECT-EAUIPSTORAGEBLDG OUTDO	15,225		NE Site
1991	10	54	G705	0	72	CATWALKDIGESTER GAS STORAGE	340,721		NE Sludge Digestion System
1997	6	54	G705	0	72	CATWALKDIGESTER GAS STORAGE	121		NE Sludge Digestion System
1995	6	54	G709	0	86	REPL METAL DOORS-PRIMSEDTNKS	197,206		NE Primary Sedimentation Tanks
1991	8	54	G712	0	69	EMERGGEN-JUNCTION CHAMBER A	67,117		NE Meters, Vaults and Connection Sewers
1996	6	54	G712	0	69	EMERGGEN-JUNCTION CHAMBER A	736		NE Meters, Vaults and Connection Sewers
1997	6	54	G712	0	69	EMERGGENJUNCTION CHAMBER A	78		NE Meters, Vaults and Connection Sewers
1991	1	54	G717	0	66	REHABGRIT REMOVERS, GRITPUMP	371,999		NE Grit Chamber
1991	12	54	G719	0	66	NEWGRIT STORAGE	0	Retired	NE Grit Chamber
1996	6	54	G719	0	66	NEWGRIT STORAGE	0	Retired	NE Grit Chamber
1992	3	54	G722	0	77	STORAGEFACIL-OLDADMINBLDG	0	Expired noted 2011	NE Admin. Bldg.
1982	9	54	MP30091	0	84	ENGR SERVICES-PRELIM TREAT BLD	0	Retired 2019	NE Prelim. Treatment Bldg.
2003	6	54	MP389	0	92	G&HENG-INSTRU TROUB/SHOOTING	0	Retired 2019	NE Engineering, Design
1996	6	54	N542	0	87	GREASE REMOVAL-TREAT FINAL TAN	5,242		NE Final Sedimentation Tanks
1996	6	54	N544	0	77	GENCONST/MECH-ADMIN COMPLEX P	265,417		NE Admin. Bldg.
1996	6	54	N545	0	77	HVAC-ADMIN COMPLEX PHASE I	32,401		NE Admin. Bldg.
1996	6	54	N546	0	77	PLUMB- ADMIN COMPLEX PHASE I	17,909		NE Admin. Bldg.
1996	6	54	N547	0	77	ELECT- ADMIN COMPLEX PHASE I	26,652		NE Admin. Bldg.
1996	6	54	N570	0	81	GENCONST/MECH-ELECT FAC MOD	26,041		NE Site
1996	6	54	N598	0	69	GEN-METERVAULTS/SEWERS-PHII	11,066		NE Meters, Vaults and Connection Sewers
1990	6	54	N651	0	81	ELEC CONST-NEDRAINAGE DIST	1,306,058		NE Site
1990	10	54	N651	0	81	ELEC CONST-NEDRAINAGE DIST	55,962		NE Site
1996	6	54	N653	0	81	GENCONST-MAINTENANCEBLDG	28,462		NE Site
1996	6	54	N656	0	81	ELECT-MAINTENANCEBLDG	15,988		NE Site
1996	6	54	N663	0	69	ELECT-MODMETERING CHAMBER	24,333		NE Meters, Vaults and Connection Sewers
1997	6	54	N663	0	69	ELECT-MODMETERING CHAMBER	243		NE Meters, Vaults and Connection Sewers
1996	6	54	N664	0	81	LANDSCAPING&MISC WORK	7,101		NE Site
1997	6	54	N664	0	81	LANDSCAPING&MISC WORK	487		NE Site
2000	6	54	N668	0	81	HEAT,VENT SLUDGETRFSTAT	4,303	Projects added since the 1999 FAL.	NE Site
1997	6	54	N697	0	81	DEMOLITION	1,143,013		NE Site
1997	6	54	N703	0	86	GENCONST-EXISTPRIM SED TAN	19,748,781		NE Primary Sedimentation Tanks
1997	6	54	N704	0	86	MODELECTRIC PRIMSEDTANKS	1,923,145		NE Primary Sedimentation Tanks
1997	8	54	N713	0	79	INSTLNEWOUTDOORSUBSTATION	1,119,930		NE Electrical Substation
1997	6	54	N714	0	86	MODHVAC PRIMARY SED TANKS	232,661		NE Primary Sedimentation Tanks
1997	6	54	N715	0	86	MODPLUMBING PRIMSEDTANKS	179,669		NE Primary Sedimentation Tanks
1995	1	54	N724	0	81	MOD-48 INAIRHEADER	188,046		NE Site
1993	6	54	N727	0	81	ERECTING 2 VENTILATING STACKS	373,670		NE Site
1995	11	54	N728	0	81	INSTAL 730 HPBOILER	462,655		NE Site
1995	5	54	N729	0	69	RELOCOF RPZ BACKFLOWPRE	92,247		NE Meters, Vaults and Connection Sewers
1995	11	54	N730	0	77	REHABHVAC-OLD ADMIN BLDG	289,374		NE Admin. Bldg.
1995	3	54	N731	0	86	INSTAL HVAC-PRIM SED TANKS	36,574		NE Primary Sedimentation Tanks
1995	2	54	N734	0	72	REHABSLUDGE GAS STORAGE TANK	404,921		NE Sludge Digestion System
1996	6	54	N735	0	81	FURN & INSTALSTORAGEFAC-STOR	86,242		NE Site
1996	1	54	N737	0	87	FLOW CONTROL FINAL SED TANKS	331,671		NE Final Sedimentation Tanks
1997	6	54	N740	0	72	REHABSLUDGE DIG MIX RECIR SYS	0	Retired	NE Sludge Digestion System
1995	11	54	N741	0	89	ROOF-POLYSILICONE-SLUDTHICK	401,695		NE Sludge Thickener Bldg.
1995	5	54	N742	0	72	POLY SILICONEROOF-SLUDDIGEST	739,036		NE Sludge Digestion System
1997	7	54	N748	0	81	NEWALUMINUM WINDOWS	437,961		NE Site
1998	6	54	P1051	0	86	ENGR-REHAB PRIMSEDTANKS	0	Retired 2017	NE Primary Sedimentation Tanks
1998	6	54	P1148	0	66	MODGRIT,SCREENINGS,&SCUM D	0	Retired 2017	NE Grit Chamber
2000	6	54	P1148	0	66	MODGRIT,SCREENINGS,SCUM DISP	0	Retired 2017	NE Grit Chamber
2002	6	54	P1148	0	66	MODGRIT,SCREENINGS,SCUM DISP	0	Retired 2017	NE Grit Chamber
2001	6	54	P1198	0	76	ENGDESIGN SERVSODHYPOCHLORI	0	Retired 2019	NE Chlorination Facilities
2004	6	54	P1198	0	76	ENGDESIGN SERVSODHYPOCHLORI	0	Retired 2019	NE Chlorination Facilities
2001	6	54	P1220	0	92	ENGSER-EVAL HVACEQUIPSLDTH	0	Retired 2019	NE Engineering, Design
2004	6	54	P1220	0	89	EVAL HVACEQUIPSLUD THICK BLD	0	Retired 2019	NE Sludge Thickener Bldg.
2002	6	54	P1225	0	92	ENGSERV-METCALF & EDDY	0	Retired 2019	NE Engineering, Design
2005	6	54	P1225	0	72	REPL SLUDGEGASPIPING	0		NE Sludge Digestion System
2002	6	54	P1227	0	83	AERATION SYS REHAB,AIR PIPE,,AP	0	Retired 2019	NE Aeration Tank No. 1
2004	6	54	P1227	0	70	PROCESS AIR PIPE, APPURT, SUPPORT..	0	Retired 2019	NE Settling & Aeration Tanks
2004	6	54	P1227	0	70	REHABAERATION SYS,DISPRBC'&apos	0	Retired 2019	NE Settling & Aeration Tanks
2004	9	54	P1227	0	66	SCREENINGS CONVEYOR MODIFICATIONS	0	Retired 2019	NE Grit Chamber
2000	9	54	P1240	0	92	G&H-ADD''LENGDESIGN SERVIC	0	Retired 2017	NE Engineering, Design
1972	5	54	P-295	0	92	ENGR SERVICES	0	Retired 2017	NE Engineering, Design
1971	10	54	P-307	0	92	SOIL&FDN INVES NEWPC	0	Retired 2019	NE Engineering, Design
1983	6	54	P311916	0	81	RELOCATE,REROUTE CABLE FACILIT	0	Retired 2017	NE Site
1980	1	54	P-325	0	92	ENGR SERVNEWPCP	2,510,000	Partial Retirnement in 2017	NE Engineering, Design
1990	6	54	P-325	0	92	ENGR SERVICE - DETAILDISIGN	11,281,737	Partial Retirnement in 2017	NE Engineering, Design
1976	1	54	P-325	0	92	ENGR SERVICES-NEWWPC	0	Retired 2019	NE Engineering, Design
1974	2	54	P-325	0	92	DETAILED DSGNNEWPCP	0	Retired 2019	NE Engineering, Design
1991	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	55,582	Partial Retirnement in 2017	NE Engineering, Design

1979	6	54	P-325	0	92	DETAIL DESIGN	1,825,000	Partial Retirnement in 2017			NE Engineering, Design
1992	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	68,914	Partial Retirnement in 2017			NE Engineering, Design
1993	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	577,887	Partial Retirnement in 2017			NE Engineering, Design
1974	11	54	P-325	0	92	DESIGN NEWPCP	0	Retired 2019			NE Engineering, Design
1997	6	54	P-325	0	92	ENGR SERVICE-DETAILDESIGN	130,038	Partial Retirnement in 2017	130,038	0	NE Engineering, Design
1997	6	54	P-325	0	92	ENGSERVICE-DETAIL DESIGN	0	Partial Retirnement in 2017			NE Engineering, Design
1973	10	54	P-356	0	92	DESIGN STUDS FOR WPC	0	Retired 2019			NE Engineering, Design
1980	8	54	P-467	0	77	MODIFY SERVICES&ADMINBLDGS	0	Retired 2017			NE Admin. Bldg.
1987	4	54	P-514	0	77	CPMSCHEDULING SERVICES	402,158				NE Admin. Bldg.
1985	6	54	P-572	0	81	PLANSMAINTSHOP & REVIEWWARE	0	Retired 2017			NE Site
1984	1	54	P-583	0	87	VALU ENGR-MODEXISTFINSEDTK	0	Retired 2017			NE Final Sedimentation Tanks
1986	6	54	P-614	0	92	VALU ENGR-MODSLDG DGST&NU DEW	0	Retired 2017			NE Engineering, Design
1991	6	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019			NE Admin. Bldg.
1992	6	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019			NE Admin. Bldg.
1993	4	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019			NE Admin. Bldg.
1997	6	54	P-667	0	77	ENG-CONST,STARARTUP COMPUTER	0	Retired 2019			NE Admin. Bldg.
1998	6	54	P-667	0	77	ENG-CONST, START-UPCOMPUTER	0	Retired 2019			NE Admin. Bldg.
1991	6	54	P-674	0	73	ENGR SERVFORCONSTDEWTRFAC	1,523,193				NE Sludge Dewatering
1998	12	54	P-674	0	73	ENGR SERVFORCONSTDEWTRFAC	5,696				NE Sludge Dewatering
1991	8	54	P-683	0	81	LANDSCAPECONSULTANT	0	Retired 2017			NE Site
1989	3	54	P-690	0	73	MODIFY SLUDGEDEWATERING FAC	0	Retired 2017			NE Sludge Dewatering
1990	6	54	P-703	0	90	ENGR SERVSLDG TRANS & DOCKING	0	Retired 2017			NE Sludge Transfer Station, Proc. & Loading Term.
1993	10	54	P-703	0	92	ENGR SERVSLDG TRANS & DOCKING	0	Retired 2017			NE Engineering, Design
1990	6	54	P-704	0	90	DESIGN SLUDGETRANSFER STATION	275,979				NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	P-736	0	77	ENGR SERVUPDATE COMPUTERSPEC	0	Retired 2017			NE Admin. Bldg.
1996	6	54	P-769	0	86	ENGR DESIGN&CONSTPRIMARYTANK	1,644,907				NE Primary Sedimentation Tanks
1996	6	54	P-834	0	77	ENGSERV-PROGAPPL SOFTWAREMO	0	Retired 2017			NE Admin. Bldg.
1990	2	54	P-858	0	92	VALUEENGR MODIFYSLUDGE FACIL	0	Retired 2017			NE Engineering, Design
1997	6	54	P-861	0	72	FINALDESIGN 2 SLUDGEDISGSTRS	0	Retired 2017			NE Sludge Digestion System
1999	7	54	P-967	0	92	ENGSERV-VARIOUS PROJECTS	0	Retired 2019			NE Engineering, Design
1986	12	54	PV02181	0	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	6,294				NE Site
1986	12	54	PV05126	0	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	63,584				NE Site
1983	2	54	PV42977	0	81	ELESERV SPL DEL PT-3030 LEWIS	273,213				NE Site
1986	6	54	PV46861	0	81	GRAD,PAVE,LANDSCAPEETC	12,448				NE Site
1986	6	54	PV61994	0	81	GRAD,PAVE,LANDSCAPEETC.	10,975				NE Site
1965	5	54	SD-323-NE	0	69	48IN CIDR LINE	70,551				NE Meters, Vaults and Connection Sewers
1964	5	54	SD-353-NE	0	81	PLUMBING&HEATING FOR WAREHOUSE	30,546				NE Site
1967	8	54	SD-376-NE	0	81	STEEL"H"PILES	22,790				NE Site
1967	8	54	SD-376-NE	0	68	CONSTRUC OFSERV BLD	289,605				NE Services Building
1971	6	54	SD-426-NE	0	77	ADDTO ADMIN BLDG	348,685				NE Admin. Bldg.
1972	5	54	SD-427-NE	0	77	MISC ITEMS	0	Expensed in 2019			NE Admin. Bldg.
1972	5	54	SD-427-NE	0	81	PNRDIST&OTDRLGTSY	100,073				NE Site
1971	5	54	SD-429-NE	0	77	PLMB SYS-ADMIN BLDG	75,463				NE Admin. Bldg.
2006	0	54	SD-601-NEO	0	81	CONV BLDG-INTERCEPTH	52,586	x			NE Site
2007	0	54	SD-602-NEO	0	81	CONV BLDG-INTERCEPTH	26,430	x			NE Site
2007	0	54	SD-603-NEO	0	81	CONV BLDG-INTERCEPTH	13,677	x			NE Site
2007	6	54	V68104662	0	77	REPL PIPES FOR FUEL TANKS	0	Retired			NE Admin. Bldg.
2007	0	54	W702	0	81	REDECK PIERS-LOADING TERMINAL	185,575	Projects added since the 1999 FAL.			NE Site
2006	7	54	64006	0	78	ELECTR CONVERSION OLD HEATING PLNT	0	x			NE Heating Plant
2010	6	54	71049	0	66	Screenings Conveyor modifications	1,390	x			NE Grit Chamber
2011	11	54	71059	0	92	UPGRADE SCADA SYTM PHASE I-NEWPCP	4,651,796	Addition as of 2019			NE Engineering, Design
2013	5	54	71064	0	91	Barge Rehab-NEWPCP	3,119,342	x			NE Barges
2014	6	54	71065	0	81	R/R REPLACE EXISTING FST SET 1 RET SLU	6,765,235	Addition as of 2019			NE Site
2005	6	54	P1225	0	72	**REPL SLUDGEGASPIPING **	0	Retired			NE Sludge Digestion System
2016	6	54	71049	0	66	Screenings Conveyor modifications	8,808				NE Grit Chamber
2015	6	54	71054	0	89	R/R Replacement of DAF Floated Sludge Pumps &	499				NE Sludge Thickener Bldg.
2016	3	54	71063	0	81	Redirection of Area Drains at St Depart from outfa	1,884,359	Addition as of 2019			NE Site
2013	10	54	71066	0	79	REPLACEMENT 15KV PRIMARY SWITCHGE	3,021,441	Addition as of 2019			NE Electrical Substation
2015	6	54	71069	0	87	MODIFICATION TO SET 2 AT FINAL SEDIME	0				NE Final Sedimentation Tanks
2016	1	54	71084	0	83	REPLACEMENT 480V OUTDOOR SWITCHGE	1,518,784				NE Aeration Tank No. 1
2014	7	54	71103	0	77	**POLYURETHANEELASSILICONEATRENEV	266,088				NE Admin. Bldg.
2007			71034	0	83	ELECTRICAL WORK FOR AERATION SYSTE	1,047,512				NE Aeration Tank No. 1
			P1225	0	90	**REPL SLUDGEGASPIPING **	0	Retired 2019			NE Sludge Transfer Station, Proc. & Loading Term.
2016	3	54	71080	0	81	REHAB OF PLANT WTR SYSTEM	7,916,598	Addition as of 2019			NE Site
2015	1	54	71079	0	81	FRANKFORD HIGH LEVEL SWR MANHOLE I	2,293,733	Addition as of 2019			NE Site
2017	6	54	71031	0	72	**ELECT-REHABDIGESTER VALVES **	12,338				NE Sludge Digestion System
2017	6	54	71063	0	81	Redirection of Area Drains at St Depart from outfa	422,705				NE Site
2017	6	54	71066	0	81	REPLACEMENT 15KV PRIMARY SWITCHGE	2,356				NE Site
2018	2	54	71067	0	87	Replacement of 480V Outdoor Switchgear on Set 2	104,919	Recorded as Green/10% of Historical Costs Applied to Plant			NE Final Sedimentation Tanks
2017	6	54	71084	0	83	REPLACEMENT 480V OUTDOOR SWITCHGE	10,614				NE Aeration Tank No. 1
2015	3	54	71058	0	66	R/R Hydrogritters - Elec at NEWPCP	1,041,295				NE Grit Chamber
-	-	54		0	77	General Plant	5,477,968	x			NE Admin. Bldg.
TOTAL NE PLANT ASSETS (Non-WPAP)							156,059,024	x			

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
NEPA2 - 'NE Plant Assets (WPAP) as of 6/30/2019 | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Plant-4
Reference: PWD 2017 Assets.xls

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		
1987	6	54	N500	1	86	GEN CONST-PRIMARY SEDIMENT TNK	11,984,855	Value changed from 1999 FAL	NE Primary Sedimentation Tanks
1987	6	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	1,944,347		NE Primary Sedimentation Tanks
1989	5	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	22,751		NE Primary Sedimentation Tanks
1988	6	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	102,070		NE Primary Sedimentation Tanks
1985	12	54	N502	1	86	PLUMB - PRIM SEDIMENTATION TKS	18,384		NE Primary Sedimentation Tanks
1985	9	54	N502	1	86	PLUMB - PRIM SEDIMENTATION TKS	134,819		NE Primary Sedimentation Tanks
1987	6	54	N506	1	69	GEN CONST&MECH-METER VLTS, ETC	7,462,096		NE Meters, Vaults and Connection Sewers
1988	3	54	N506	1	69	GEN CONST METER VLTS&CONN SEWR	140,403		NE Meters, Vaults and Connection Sewers
1985	12	54	N509	1	86	HVAC PRIM SEDIMENTATION TNKS	340,688		NE Primary Sedimentation Tanks
1985	12	54	N509	1	86	HVAC PRIM SEDIMENTATION TNKS	33,695		NE Primary Sedimentation Tanks
1987	6	54	N519	1	69	ELECTRIC-METER VLTS & CONN SEW	150,035		NE Meters, Vaults and Connection Sewers
1988	4	54	N519	1	69	ELECTRIC-METER VLTS & CONN SEW	5,507		NE Meters, Vaults and Connection Sewers
1988	6	54	N520	1	84	GEN CONST&MECH-PRELIM TREAT BL	45,726		NE Prelim. Treatment Bldg.
1993	5	54	N520	1	84	GEN CONST&MECH-PRELIM TREAT BL	363,063		NE Prelim. Treatment Bldg.
1987	6	54	N520	1	84	GEN CONST-MECH-PRELIM TREAT BL	29,129,434	Value changed from 1999 FAL	NE Prelim. Treatment Bldg.
1992	3	54	N521	1	84	HEAT&VENT-PRELIM TREATMENT BLD	96,621		NE Prelim. Treatment Bldg.
1987	6	54	N521	1	84	HEAT&VENT-PRELIN BLDG	1,451,779		NE Prelim. Treatment Bldg.
1991	6	54	N522	1	84	PLUMBING-PRELIM TREATMENT BLDG	18,031		NE Prelim. Treatment Bldg.
1987	6	54	N522	1	84	PLUMBING-PRELIM TREATMENT BLDG	318,657		NE Prelim. Treatment Bldg.
1988	3	54	N523	1	84	ELECTRIC-PRELIM TREATMENT BLDG	112,704		NE Prelim. Treatment Bldg.
1987	6	54	N523	1	84	ELECTRIC-PRELIM TREATMENT BLDG	2,074,432		NE Prelim. Treatment Bldg.
1985	9	54	N526	1	85	PLUMB - ELECTRICAL BLDG	0	Retired 2019	NE Elect. Bldg.
1988	2	54	N528	1	76	GEN CONST&MECH-CHLORINATION FA	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N528	1	76	GEN CONST&MECH-CHLORINATION FA	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N529	1	76	HEAT&VENT-CHLORINATION FACILIT	0	Retired 2011	NE Chlorination Facilities
1987	9	54	N529	1	76	HEAT&VENT-CHLORINATION FACILIT	0	Retired 2011	NE Chlorination Facilities
1987	4	54	N530	1	76	PLUMBING-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1988	6	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1988	10	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N532	1	71	GEN CONST-SCUM DISPOSAL FACILI	2,046,505		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N533	1	71	HEAT,VENT-SCUM DISPOSAL FACILI	101,010		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1986	4	54	N534	1	71	PLUMBING - SCUM DISPOSAL BLDG	26,894		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N535	1	71	ELECTRIC-SCUM DISPOSAL FACILIT	304,121		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1996	6	54	N548	1	77	GEN CON/MECH-ADMIN COMP PH II	234,980		NE Admin. Bldg.
1996	6	54	N551	1	77	ELECT-ADMIN COMPLEX PH II	87,962		NE Admin. Bldg.
0	0	54	N554	1	83	GEN CONST- MOD AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
0	0	54	N554	1	83	GEN CONST-MOD AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1985	11	54	N554	1	83	GEN CONST-AERATION TANKS	16,946,922	Value changed from 1999 FAL	NE Aeration Tank No. 1
1987	6	54	N555	1	83	ELECTRIC-MODITY AREATION TANKS	2,493,868	Value changed from 1999 FAL	NE Aeration Tank No. 1
1988	6	54	N555	1	83	ELECTRIC-MODIFY AERATION TANKS	67,757		NE Aeration Tank No. 1
1989	2	54	N555	1	83	ELECTRIC-MODIFY AERATION TANKS	30,147		NE Aeration Tank No. 1
1987	6	54	N556	1	83	STRUCT & MECH - AERATION TANKS	11,636,913	Value changed from 1999 FAL	NE Aeration Tank No. 1
1988	1	54	N556	1	83	STRUCT & MECH - AERATION TANKS	12,871		NE Aeration Tank No. 1
0	0	54	N556	1	83	STRUCT & MECH-AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1985	9	54	N557	1	83	ELECTRICAL - AERATION TANKS	429,811	Value changed from 1999 FAL	NE Aeration Tank No. 1
0	0	54	N557	1	83	ELECTRIC - AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1987	8	54	N558	1	71	GEN CONST&MECH-BLOWER BLDG MOD	10,029		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N558	1	71	GEN CONST&MECH-BLOWER BLDG MOD	8,343,587		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	230,783		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	16,291		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	9	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	4,638		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1986	6	54	N560	1	71	PLUMBING - MOD BLOWER BLDG	60,110		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	2,365,256		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	2,823		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1989	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	22,830		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1991	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODICICAT	26,121		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	28,103,981		NE Primary Sedimentation Tanks
1991	6	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	2,826		NE Primary Sedimentation Tanks
1993	4	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	556,474		NE Primary Sedimentation Tanks
1987	6	54	N563	1	87	HEAT,VENT-FINAL SEDIMENTATION	319,781		NE Final Sedimentation Tanks
1987	11	54	N563	1	87	HEAT,VENT-FINAL SEDIMENTATION	4,380		NE Final Sedimentation Tanks
1987	6	54	N564	1	87	PLUMBING-FINAL SEDIMENTATION T	203,551		NE Final Sedimentation Tanks
1988	1	54	N564	1	87	PLUMBING-FINAL SEDIMENTATION T	8,937		NE Final Sedimentation Tanks
1987	6	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	4,126,696		NE Site
1988	6	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	64,915		NE Site
1989	3	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	18,899		NE Site
1990	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	17,765,432		NE Final Sedimentation Tanks
1991	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	284,895		NE Final Sedimentation Tanks

1992	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	39,462			NE Final Sedimentation Tanks
1993	9	54	N566	1	87	GEN CONST&MECH-FLN SED TKS MOD	40,178			NE Final Sedimentation Tanks
1990	6	54	N567	1	87	HEAT,VENT-FINAL SED TANKS MOD	227,843			NE Final Sedimentation Tanks
1992	10	54	N567	1	87	HEAT,VENT-FINAL SED TANKS MOD	27,011			NE Final Sedimentation Tanks
1990	6	54	N568	1	87	PLUMBING-FINAL SED TANKS MOD	186,968			NE Final Sedimentation Tanks
1991	3	54	N568	1	87	PLUMBING-FINAL SED TANKS MOD	2,839			NE Final Sedimentation Tanks
1997	6	54	N568	1	87	PLUMB-FINAL SED TANKS	18,287			NE Final Sedimentation Tanks
1990	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	1,641,490			NE Final Sedimentation Tanks
1991	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	19,490			NE Final Sedimentation Tanks
1992	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	27,311			NE Final Sedimentation Tanks
1993	1	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	15,147			NE Final Sedimentation Tanks
1996	6	54	N569	1	87	ELECT-FINAL SED TANKS MOD	7,976			NE Final Sedimentation Tanks
1987	6	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	26,425,524	Value changed from 1999 FAL		NE Sludge Thickener Bldg.
1988	6	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	1,040,786			NE Sludge Thickener Bldg.
1988	8	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	3,890			NE Sludge Thickener Bldg.
1987	6	54	N577	1	89	HEAT,VENT-SLUDGE THICKENER BLD	3,237,980			NE Sludge Thickener Bldg.
1988	5	54	N577	1	89	HEAT/VENT SLUDGE THICKENER BLD	22,234			NE Sludge Thickener Bldg.
1986	4	54	N578	1	89	PLUMBING-SLDG THICKENER BLDG	616,270			NE Sludge Thickener Bldg.
1987	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	2,375,695			NE Sludge Thickener Bldg.
1988	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	53,342			NE Sludge Thickener Bldg.
1990	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	6,172			NE Sludge Thickener Bldg.
1990	10	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	14,189			NE Sludge Thickener Bldg.
0	0	54	N580	1	72	STRUCT & MECH- SLUDGE DIGESTIO	0	This item does not appear in the 2002 FAL.		NE Sludge Digestion System
1988	6	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	5,216			NE Sludge Digestion System
1993	4	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	25,792			NE Sludge Digestion System
1987	6	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	23,337,229	Value changed from 1999 FAL		NE Sludge Digestion System
1987	6	54	N581	1	72	HEAT,VENT-SLUDGE DIGESTION FAC	1,217,018			NE Sludge Digestion System
1986	10	54	N582	1	72	PLUMBING-SLDG DIGEST & GAS FAC	509,701			NE Sludge Digestion System
1987	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	2,992,719	Value changed from 1999 FAL		NE Sludge Digestion System
1988	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	25,242			NE Sludge Digestion System
1990	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	35,517			NE Sludge Digestion System
1991	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	68,315			NE Sludge Digestion System
1988	6	54	N657	1	81	HIGH MAST LIGHTING	641,773			NE Site
1988	9	54	N657	1	81	HIGH MAST LIGHTING	35,378			NE Site
1988	6	54	N658	1	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	2,301,080			NE Site
1989	8	54	N658	1	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	19,487			NE Site
1990	6	54	N661	1	81	GRADING, PAVING & DRAINAGE	900,858			NE Site
1992	6	54	N661	1	81	GRADING, PAVING & DRAINAGE	24,504			NE Site
1997	6	54	N661	1	81	GRADING, PAVING, & DRAINAGE	478			NE Site
1990	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	9,190,152			NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	101,498			NE Sludge Transfer Station, Proc. & Loading Term.
1999	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	2,747			NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N668	1	90	HEAT,VENT-SLUDGE TRANSFER STAT	803,419			NE Sludge Transfer Station, Proc. & Loading Term.
1990	12	54	N668	1	90	HEAT,VENT-SLUDGE TRANSFER STAT	7,382			NE Sludge Transfer Station, Proc. & Loading Term.
1997	6	54	N668	1	90	HEAT, VENT-SLUDGE TRANSFER STA	105,152			NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N669	1	90	PLUMBING -SLUDGE TRANSFER STAT	259,825			NE Sludge Transfer Station, Proc. & Loading Term.
0	0	54	N669	1	90	PLUMBING-SLUDGE TRANSFER STATI	0	This item does not appear in the 2002 FAL.		NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	1,035,385			NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	6,698			NE Sludge Transfer Station, Proc. & Loading Term.
1993	1	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	10,824			NE Sludge Transfer Station, Proc. & Loading Term.
0	0	54	N670	1	90	ELECTRIC-SLUDGE TRANSFER STAT	0	This item does not appear in the 2002 FAL.		NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	7,488,454			NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	72,583			NE Sludge Transfer Station, Proc. & Loading Term.
1992	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	181,621			NE Sludge Transfer Station, Proc. & Loading Term.
1993	6	54	N671	1	90	GEN CONST&MECH-SLDG PRO&LOAD	245,060			NE Sludge Transfer Station, Proc. & Loading Term.
1993	9	54	N671	1	90	GEN CONST&MECH-SLDG PRO & LOAD	19,685			NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	424,098			NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	18,119			NE Sludge Transfer Station, Proc. & Loading Term.
1992	10	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	2,959			NE Sludge Transfer Station, Proc. & Loading Term.
1996	6	54	N673	1	91	TWO SLUDGE BARGES	10,597			NE Barges
1990	6	54	N673	1	91	TWO SLUDGE BARGES	4,474,226			NE Barges
1991	6	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	6,056,574	$9,514,300	These facilities received only about 3% federal	NE Admin. Bldg.
1992	6	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	112,498	‖	grants, per Joe Clare 10/7/99 email to JRM	NE Admin. Bldg.
1993	5	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	2,440	‖	(filed with PN 31416.0100 Miscellaneous	NE Admin. Bldg.
1991	6	54	N676	1	77	HVAC - ADMIN BLDG & MAINT FACI	790,186	‖	Correspondence).	NE Admin. Bldg.
1992	3	54	N676	1	77	HVAC - ADMIN BLDG & MAINT FACI	110,567	‖		NE Admin. Bldg.
0	0	54	N676	1	77	HVAC-ADMIN BLDG & MAINT FACIL	0	This item does not appear in the 2002 FAL.		NE Admin. Bldg.
1991	6	54	N677	1	77	PLUMBING - ADMIN BLDG & MAINT	481,628	‖		NE Admin. Bldg.
1991	7	54	N677	1	77	PLUMBING - ADMIN BLDG & MAINT	66,776	‖		NE Admin. Bldg.
1991	6	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	1,673,674	‖		NE Admin. Bldg.
1992	6	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	206,484	‖		NE Admin. Bldg.
1992	11	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	12,662	‖		NE Admin. Bldg.
1997	6	54	N678	1	77	ELECT-ADMIN BLDG & MAIN	811	‖		NE Admin. Bldg.
1995	9	54	N691	1	77	COMPUTER MONITOR & CONTROL SYS	4,125,315			NE Admin. Bldg.
1981	9	54	SD-466-NE	1	81	FRANKFORD HIGH LEVEL SEWER	76,178	Partial Retirnement in 2017		NE Site
1977	5	54	SD-466-NE	1	81	GAS MAIN PIKE ST	44,045	Partial Retirnement in 2017		NE Site

1980	6	54	SD-466-NE	1	81	ADDITIONAL FRK HIGH LEVEL SEWR	3,421,127	Partial Retirnement in 2017	NE Site
0	0	54	SD-524-NE	1	85	CONSTR ELEC BLDG	0	This item does not appear in the 2002 FAL.	NE Elect. Bldg.
1985	6	54	SD-525-NE	1	85	HEAT & VENT NEW ELECTRICAL BLD	27,367		NE Elect. Bldg.
1980	6	54	SD-525-NE	1	85	HEATING & VENT FOR ELEC BLDG	47,395		NE Elect. Bldg.
1980	6	54	SD-526-NE	1	85	PLUMB FOR NEW ELEC BLDG	24,557		NE Elect. Bldg.
1984	6	54	SD-527-NE	1	85	ELEC SYS FOR ELECTRICAL BLDG	838,704		NE Elect. Bldg.
1984	6	54	SD-536-NE	1	88	TREATED WASTWTR EFFLU CONDUITS	1,877,876		NE Effluent Conduit
2006	0	54	SD-541-NE	1	81	SITE PREP FOR NEW PLANT	3,276,700		NE Site
2006	0	54	SD-541-NE	1	81	SITE PREP FOR NEW PLANT	1,343,810		NE Site
1998	6	54	N668	1	90	HEAT, VENT-SLUDGE TRANSFER STAT	62,899		NE Sludge Transfer Station, Proc. & Loading Term.
1991	3	54	N568	1	87	ELECTRIC-FINAL SED TANKS MOD	19,093		NE Final Sedimentation Tanks
1999	6	54	N668	1	87	HEAT, VENT-SLUDGE TRF STATION	93,207		NE Final Sedimentation Tanks
TOTAL NE PLANT ASSETS (WPAP)							270,356,541	x	
TOTAL NE PLANT ASSETS							426,415,565		
							426,415,566		

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SWPA1 - SW Plant Assets (Non-WPAP) as of 6/30/2019	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-5

Reference: PWD 2017 Assets.xls

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1979	10	55	P-427	0	107	PROJ SCHEDULER-CONST	0	Retired 2017	SW Site
1988	8	55	1618	0	107	GEN CONST - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1990	1	55	1618	0	107	REHAB AUTO MAINTENANCE FACILIT	0	This item does not appear in the 2002 FAL.	SW Site
1988	9	55	1619	0	107	H V A C - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1989	7	55	1621	0	107	ELECTRIC - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1996	6	55	1698	0	107	GALLERY LIGHTING IMP	4,606		SW Site
1994	6	55	1701	0	107	PAVING / REPAVING	164,209		SW Site
1996	6	55	2897	0	107	INST TANK MONITORING/LEAK DECT	53,126		SW Site
1990	6	55	CP02211A	0	96	REHAB SLDGE COLLECTOR SYS TNKS	1,023,604		SW Sludge Handling & Machine Shop
1980	6	55	E-8248	0	115	HEAT & VENT - SHOP&MAINT BLDG	156,304		SW Shop & Maintenance Bldg.
0	0	55	G565	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G565	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1989	6	55	G567	0	107	RESTR PICKET FENCE-PARKING LOT	44,678		SW Site
1987	6	55	G568	0	104	CONST PLANT WATER TANK DRAIN	15,588		SW Elevated Water Tank
1988	6	55	G568	0	104	WATER TANK DRAIN	47,069		SW Elevated Water Tank
1988	6	55	G571	0	115	IMPROVE STORAGE RM- MAINT&SHOP	6,561		SW Shop & Maintenance Bldg.
1996	6	55	G587	0	107	HIGH MAST LIGHTING OVERHAUL	8,680		SW Site
1990	2	55	G588	0	122	REHAB SLDG DIGESTER PIPING	46,977		SW Sludge Digestion Facilities
1994	10	55	G589	0	94	ELEC & MECH REHAB GREASE INCEN	1,881,393		SW Grease Burner
1996	6	55	G595	0	93	GRIT & ASH STORAGE AREA	9,733		SW Screen, Blower, Prim. Sludge PS, Grit
1990	12	55	G599	0	96	FORCE MN&PUMP FAC, SLUDGE PROC	366,636		SW Sludge Handling & Machine Shop
1991	2	55	G600	0	96	FORCE MN&PUMP FAC- SLUDGE PROC	85,401		SW Sludge Handling & Machine Shop
1990	6	55	G601	0	93	GRIT REMOVERS - PRE-TREATMENT	17,200		SW Screen, Blower, Prim. Sludge PS, Grit
1990	12	55	G601	0	93	GRIT REMOVERS - PRE-TREATMENT	111,978		SW Screen, Blower, Prim. Sludge PS, Grit
1996	6	55	G601	0	93	GRIT REMOVERS-PRE TREATMENT	1,542		SW Screen, Blower, Prim. Sludge PS, Grit
1990	6	55	G602	0	110	REHAB FINAL SEDIMENTATION TNKS	673,524		SW Sedimentation Tanks
1991	2	55	G602	0	110	REHAB FINAL SEDIMENTATION TNKS	80,505		SW Sedimentation Tanks
1996	6	55	G603	0	115	GEN & MECH-SHOP AREA DEWATERIN	5,668		SW Shop & Maintenance Bldg.
0	0	55	G605	0	94	OIL,PUMP,DRAIN,GREASE TRAP	0	This item does not appear in the 2002 FAL.	SW Grease Burner
1996	6	55	G612	0	119	NEW SLIDE GATE & SLUICE GATE A	20,689		SW Influent PS
1996	6	55	G617	0	107	NET CATWALKS FOR OVERHAUL CRAN	11,465		SW Site
1992	9	55	G618	0	107	REPL VARIABLE SPEED DRIVES	326,704		SW Site
0	0	55	G618	0	107	REPL VARIABLE SPEED DRIVES	0	This item does not appear in the 2002 FAL.	SW Site
1991	2	55	G622	0	107	REPR STEAM BOILERS & ACCESSORI	116,759		SW Site
1992	6	55	G623	0	107	REPR HEAT EXCHANGE & WTR MAKE-	447,828		SW Site
1992	12	55	G623	0	107	REPR HEAT EXCHANGE & WTR MAKE-	1,948		SW Site
1995	10	55	G639	0	107	PAINTING & APPURTENANT EL TANK	201,191		SW Site
1995	5	55	N729	0	107	RELOC OF RPZ BACKFLOW PRE	92,247		SW Site
0	0	55	P1005	0	114	COMPUTERIZED MAINT MGMT SYS	0	Retired 2011	SW Admin. Bldg.
1973	4	55	P-322	0	107	SOIL&FOUND INV-SWWPC	0	Retired 2019	SW Site
1975	2	55	P-323	0	107	DESIGN FOR SW WPCP	0	Retired 2019	SW Site
1989	6	55	P-324	0	107	ENGR SERVICE - PLANS & SPECS	7,869,295		SW Site
1974	4	55	P-324	0	107	DETAIL DSGN SW WPCP	0	Retired 2019	SW Site
1976	8	55	P-324	0	107	PLN&SPECS FOR SW WPC	0	Retired 2019	SW Site
1977	11	55	P-324	0	107	PLNS&SPCS FOR SW WPC	3,788,000		SW Site
1978	12	55	P-324	0	107	DETAIL DESIGN	2,790,000		SW Site
1976	10	55	P402	0	93	CRIT PTH MET CON SCH	0	Retired 2017	SW Screen, Blower, Prim. Sludge PS, Grit
1982	6	55	P-431	0	107	ENG SERV,CONSULT-EXPAN SWWPCP	128,146		SW Site
1983	10	55	P-473	0	122	ENGR SERV REPAIR SLDGE DIG 1&3	0	Retired 2017	SW Sludge Digestion Facilities
1985	6	55	P-506	0	114	CPM SCHEDULING SERVICES	616,334		SW Admin. Bldg.
1989	6	55	P-506	0	114	CPM SCHEDULING SERVICE	189,746		SW Admin. Bldg.
1985	6	55	P-572	0	115	PLANS MAINT SHOP & REVIEW WARE	0	Retired 2017	SW Shop & Maintenance Bldg.
1990	6	55	P-574	0	107	CONST MANAGEMENT SERVICES	0	Retired 2017	SW Site
0	0	55	P-610	0	123	ENGR SERV SLUDGE COMPOSTING FA	0	This item does not appear in the 2002 FAL.	SW Composting Facilities
0	0	55	P-610	0	123	ENG SERV-SLUDGE COMPOSTING FAC	0	This item does not appear in the 2002 FAL.	SW Composting Facilities
0	0	55	P-690	0	105	MODIFY SLUDGE DEWATERING FAC	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
0	0	55	P-738	0	107	ENGR SERV CONST BARGES/DOCKING	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	P-738	0	96	ENG SERV-SLUDGE BARGES & DOCKI	0	This item does not appear in the 2002 FAL.	SW Sludge Handling & Machine Shop
0	0	55	P-981	0	107	SLUDGE LAGOON STAB EVALUATION	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	PV11422	0	105	GEN CONST-SLDG DEWTR FAC	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
1984	12	55	PV23713	0	115	IMPROVE STORAGE RM MAINT&SHOP	0	Retired 2019	SW Shop & Maintenance Bldg.
0	0	55	PV28734	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1986	6	55	PV41925	0	116	NEW ROOFING - WAREHOUSE BLDG	56,660		SW Warehouse
1987	6	55	PV51824	0	104	CONST PLANT WATER TANK DRAIN	32,960		SW Elevated Water Tank
0	0	55	PV51826	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1986	12	55	PV76219	0	115	GEN CONST&MECH MAINT FACILITY	46,170		SW Shop & Maintenance Bldg.

1988	6	55	R&R8801	0	117	CLARIFIER REHABILITATION	374,706		SW Primary Sedimentation Tanks
1988	6	55	R&R8806	0	122	PUMPS&PIPING DIGEST#16-E.COAST	115,427		SW Sludge Digestion Facilities
0	0	55	SD-318-SWO01	0	119	NEW ENTR-PS 26&PASSY	0	This item does not appear in the 2002 FAL.	SW Influent PS
1971	12	55	SD-356-SW	0	102	PILES UNDER ELEC SBS	2,694		SW Electrical Substation
1971	12	55	SD-356-SW	0	107	MISC CONCRETE&PAVING	4,790		SW Site
1971	12	55	SD-356-SW	0	107	MISC EQUIP	8,434		SW Site
1971	12	55	SD-356-SW	0	107	EXCAVATION	16,397		SW Site
1971	12	55	SD-356-SW	0	107	PIPES&VALVES	63,195		SW Site
0	0	55	SD-437-SW	0	107	REHAB DISPERS CHMBR-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	SD-438-SW	0	107	REMOTE MONITOR SYS-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	SD-438-SW	0	107	REMOTE MONITOR SYS-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
1981	6	55	SD-515-SW	0	107	HEATING & VENT RECYCLE CTR	0	Retired 2019	SW Site
1981	6	55	SD-537-SWO	0	123	GRADE PAVE&DRNAGE-COMPOST AREA	435,334		SW Composting Facilities
1984	2	55	SD-551-SW	0	107	GRADING,PAVING,FENCE-COMP.AREA	1,025,207		SW Site
1983	8	55	SD-555-SW	0	107	CONCRETE PAD,WALKWAY,DRIVEWAY	9,813		SW Site
1988	6	55	W444	0	122	REPAIR SLUDGE DIGESTER TANK #1	255,488		SW Sludge Digestion Facilities
1993	6	55	W640	0	112	MOD LIQUID OXYGEN SYSTEM	214,899		SW Oxygen Supply
1996	6	55	W640	0	112	MOD LIQUID OXYGEN SYSTEM	598,395		SW Oxygen Supply
1996	6	55	W642	0	107	REPL HVAC	9,071		SW Site
1996	2	55	W645	0	107	OIL PUMP,PIPING,SANITARY DRAIN	173,420		SW Site
1995	8	55	W646	0	122	RENOVATION OF DIGESTERS 1&2	564,187		SW Sludge Digestion Facilities
1997	6	55	W647	0	97	REHAB DISOLVED AIR FLOAT TANKS	1,413,241		SW Sludge Digestion
1995	2	55	W649	0	93	MOD TO GRIT/ASH PAD	53,997		SW Screen, Blower, Prim. Sludge PS, Grit
1997	6	55	W650	0	117	REHAB OF PRIM SED TANKS	2,468,594		SW Primary Sedimentation Tanks
1994	12	55	W651	0	116	FURN/INSTAL STOR FAC WHSE BLDG	326,183		SW Warehouse
1997	6	55	W652	0	96	INSTAL SLUDGE TRANSFER PUMP	266,457		SW Sludge Handling & Machine Shop
1997	6	55	W661	0	97	GEN CONST & MECH- AIR FLOAT TA	1,143,729		SW Sludge Digestion
1997	6	55	W663	0	121	REPL VAR SPEED DRIVE DIG SLUD	129,103		SW Sludge Thickener Bldg.
1997	6	55	W675	0	107	INSTL PLANT PF CAPACITORS & SE	179,332		SW Site
1997	6	55	W692	0	93	INSTL INFFLUENT CHANNEL BAR SC	60,581		SW Screen, Blower, Prim. Sludge PS, Grit
1997	6	55	W703	0	124	REPL 6 IN SLUDGE GAS PIPE	158,780		SW Sludge Gas Facilities
1997	6	55	3038	0	107	ASBESTOS REMOVAL & REPL CEILIN	33,291		SW Site
1994	6	55	P-324	0	107	PLANS & SPECS FOR SW WPC	26,391		SW Site
1998	6	55	P1053	0	107	ENG SERV TO EVALUATE HVAC SYS	0	Retired 2017	SW Site
1997	4	55	P1098	0	107	DESIGN ANAL-SLUD LAGOON -REPAIR	0	Retired 2017	SW Site
1998	6	55	P1125	0	118	REB HVAC-PRELIM TREAT BLDG	0	Retired 2017	SW Preliminary Treatment Building
1998	6	55	P1130	0	107	GEN SERV-SUPPL PWD RESOURCES	0	Retired 2019	SW Site
1998	6	55	P1139	0	107	ENG SERV-DESIGN/CONST HVAC	0	Retired 2019	SW Site
1998	6	55	P1148	0	93	MOD GRIT, SCREENINGS, SCUM DISP	0	Retired 2017	SW Screen, Blower, Prim. Sludge PS, Grit
1996	3	55	W648	0	97	REPL VAR SPEED DRIVE SLUDGE PU	939,380		SW Sludge Digestion
1996	11	55	W653	0	124	REPL OF SLUDGE GAS BURNERS	270,319		SW Sludge Gas Facilities
1996	10	55	W664	0	113	REHAB EFFLUENT PUMP CONTROLS	96,711		SW Effluent PS
1997	6	55	W669	0	109	ELECT-DISSOLVED AIR FLOTATION	676,633		SW Aeration Tanks
1997	6	55	W671	0	124	REHAB-SLUD GAS SYSTEM	162,594		SW Sludge Gas Facilities
1997	2	55	W679	0	107	REPAIR HIGH MAST LIGHT POLES	164,002		SW Site
1997	9	55	W685	0	93	GRIT INCINERATOR BYPASS SYS	223,227		SW Screen, Blower, Prim. Sludge PS, Grit
1996	11	55	W688	0	97	INSTL SLUD TFR PUMP #2	124,152		SW Sludge Digestion
1997	5	55	W697	0	107	MOD TRAVELING BRIDGE CRANES	196,764		SW Site
0	0	55	W699	0	97	INSTL TWO MECH MIXERS-SLUDG D	0	This item does not appear in the 2002 FAL.	SW Sludge Digestion
1997	2	55	W701	0	114	POLY SILICONE ROOF-ADMIN-PRELI	290,957		SW Admin. Bldg.
1997	9	55	61009	0	107	REMOVE UNDERGRD STORAGE TKS	0	Retired 2019	SW Site
1999	6	55	73005	0	107	MOD PLANT STORM & DRAIN SYS	578,829		SW Site
1998	8	55	73006	0	107	ELECT-WAREHOUSE & ADJ FAC	315,241		SW Site
1999	6	55	73007	0	124	REPL SLUD GAS PIPING-PHASE 2	611,692		SW Sludge Gas Facilities
1998	7	55	73011	0	124	REHAB SLDG GAS STOR TK COVER	357,977		SW Sludge Gas Facilities
1998	7	55	73015	0	107	WATERPROOFING OF WAREHOUSE NO2	226,173		SW Site
1998	8	55	P-324	0	107	PLANS & SPECS FOR SW WPC	25,719		SW Site
1998	5	55	W670	0	122	REHAB-SLUD DIG MIXING/RECIRCUL	1,206,239		SW Sludge Digestion Facilities
1998	10	55	W681	0	110	ELEVATING FINAL SED TK FLIGHTS	2,534,789		SW Sedimentation Tanks
1998	10	55	W682	0	107	MOD PLANT DRAIN SYSTEM	281,452		SW Site
1996	11	55	W688	0	97	INSTL SLUD TFR PUMP #2	1,004		SW Sludge Digestion
1997	2	55	W701	0	107	POLY SILICONE ROOF-ADMIN-PRELI	1,018		SW Site
1998	3	55	W705	0	124	INSTL DIG GAS FLOW METER	189,770		SW Sludge Gas Facilities
2001	2	55	70001	0	106	ACCESS CONT & ALARM SYS	834,453	Projects added since the 1999 FAL.	SW General Improvements
1999	2	55	73002	0	99	HVAC-SODIUM HYPOCHLORITE FAC	482,395	Projects added since the 1999 FAL.	SW Chlorination Facilities
1999	2	55	73003	0	99	PLUMB-SODIUM HYPOCHLORITE FAC	84,402	Projects added since the 1999 FAL.	SW Chlorination Facilities
2000	2	55	73004	0	99	ELECT-SODIUM HYPOCHLORITE FAC	179,181	Projects added since the 1999 FAL.	SW Chlorination Facilities
1999	6	55	73005	0	107	MOD PLANT STORM DRAIN SYS	4,699	Projects added since the 1999 FAL.	SW Site
2000	2	55	73007	0	124	REPL SLUDGE GAS PIPING-PHASE 2	42,843	Projects added since the 1999 FAL.	SW Sludge Gas Facilities
2001	1	55	73008	0	114	CONST-ALT/ENCLOS INT COURT ADM	575,465	Projects added since the 1999 FAL.	SW Admin. Bldg.
2000	1	55	73010	0	114	ELECT-ENCLOSUR INT COURT ADMIN	53,962	Projects added since the 1999 FAL.	SW Admin. Bldg.
2001	6	55	73012	0	124	INSTL-2ND ELECT SERV GAS SLUD	367,651	Projects added since the 1999 FAL.	SW Sludge Gas Facilities
2000	8	55	73022	0	106	ELECT-RENOV SOUTH SIDE	279,718	Projects added since the 1999 FAL.	SW General Improvements
1999	7	55	P-967	0	106	ENG SERV-VARIOUS PROJECTS	0	Retired 2019	SW General Improvements
1998	6	55	P1130	0	106	ENGR SERV TO SUPPL PWD RESOURC	0	Retired 2019	SW General Improvements
2000	6	55	P1139	0	107	ENG SERV-DESIGN/CONST HVAC SYS	0	Retired 2019	SW Site

2001	6	55	P1201	0	106	CONVER OF HALON SUPPRESSION SY	0	Retired 2017	SW General Improvements
2001	6	55	P1220	0	121	ENG SER-EVAL HVAC EQUIP SLD TH	0	Retired 2019	SW Sludge Thickener Bldg.
0	0	55	P1222	0	106	ENG SERV-METCALF & EDDY	0	Retired 2011	SW General Improvements
0	0	55	P1228	0	107	DRIOX PIPING & VALVES UPGRADE	0	Retired 2011	SW Site
2000	9	55	P1240	0	106	G&H-ADD'L ENG DESIGN SERVICES	0	Retired 2017	SW General Improvements
1999	1	55	W634	0	118	REPL HOT WATER CORES-PREM TREA	810,239	Projects added since the 1999 FAL.	SW Preliminary Treatment Building
2000	10	55	W662	0	117	REHAB SCUM PS-PRIM SED TANKS	869,460	Projects added since the 1999 FAL.	SW Primary Sedimentation Tanks
1998	10	55	W673	0	106	COMBINED WITH W680-ROOF-POLY	27,176	Projects added since the 1999 FAL.	SW General Improvements
1998	10	55	W680	0	122	POLY SILICONE ROOF-DIG TK THIC	1,035,182	Projects added since the 1999 FAL.	SW Sludge Digestion Facilities
2000	1	55	W689	0	106	OPERATOR INTERFACE NETWORK	1,422,361	Projects added since the 1999 FAL.	SW General Improvements
2000	2	55	W690	0	119	REHAB INFLUENT PUMPS	440,725	Projects added since the 1999 FAL.	SW Influent PS
1999	1	55	W693	0	93	REPL GRIT PIPING & VALVES	643,391	Projects added since the 1999 FAL.	SW Screen, Blower, Prim. Sludge PS, Grit
1998	11	55	W694	0	106	REHAB 15KV SWITCHGEAR	764,547	Projects added since the 1999 FAL.	SW General Improvements
2000	1	55	W707	0	106	ARCHITECT-RENOV SAMPLE PREP LA	156,349	Projects added since the 1999 FAL.	SW General Improvements
2000	1	55	W708	0	106	MECH/PLUMB-RENOV SAMPLE PREP L	128,438	Projects added since the 1999 FAL.	SW General Improvements
1999	9	55	W709	0	106	ELECT-RENOV SAMPLE PREP LAB	32,599	Projects added since the 1999 FAL.	SW General Improvements
2002	8	55	73001	0	99	INSTL-SODIUM HYPOCHLORITE FAC	429,831	Projects added since the 2002 FAL.	SW Chlorination Facilities
2002	1	55	73013	0	107	INSTL-STBY LIGHT, BATPK, GENERAT	621,892	Projects added since the 2002 FAL.	SW Site
2002	1	55	73017	0	122	REHAB DIGESTER TKS 1 & 2	444,154	Projects added since the 2002 FAL. and Additions in 2019	SW Sludge Digestion Facilities
2002	5	55	73018	0	110	CONCRETE REPAIR-NEW FINAL SED	1,988,080	Projects added since the 2002 FAL.	SW Sedimentation Tanks
2001	10	55	73020	0	106	INSTL - PROGRAMMABLE CONTROLLER	987,448	Projects added since the 2002 FAL.	SW General Improvements
2003	6	55	73021	0	114	REHAB HVAC - ADMIN	40,324	Projects added since the 2002 FAL.	SW Admin. Bldg.
2002	2	55	73035	0	96	REHAB-RET SLDG LINE CONTROL SY	361,771	Projects added since the 2002 FAL.	SW Sludge Handling & Machine Shop
0	0	55	MP389	0	104	G&H -DESIGN SLUD DEWTR FAC	0	Retired 2011	SW Elevated Water Tank
0	0	55	91201	0	102	REHAB OF PHONE SYTM- SWWPCP	0	Retired 2012	SW Electrical Substation
2003	12	55	73016	0	114	RENOVATION OFHVAC SYS	2,579,829	Additions in 2019	SW Admin. Bldg.
2003	3	55	73019	0	121	SLDTHK-LO/VOLT,SWITGR,MVCIRC	1,430,815		SW Sludge Thickener Bldg.
2006	4	55	73023	0	116	GEN CONST NEW OFFICES WAREHOUSES	199,641		SW Warehouse
2006	7	55	73024	0	116	HVAC WORK FOR NEW OFFICES-TOILET FA	53,719		SW Warehouse
2007	0	55	73026	0	116	ELECTR WORK FOR NEW OFFICES-TOILET	102,287		SW Warehouse
2003	12	55	73027	0	114	EMERGREPL FUELOILLINES	540,833		SW Admin. Bldg.
2003	12	55	73028	0	114	FIBERGLASS DOORS	746,072		SW Admin. Bldg.
2003	8	55	73029	0	106	MECH-REHAB VALVES&ACTUATORS	1,217,328		SW General Improvements
2007	5	55	73031	0	118	ELECTR WORK FOR RENOVATION OF HVAC	2,390,364	Additions in 2019	SW Preliminary Treatment Building
2004	3	55	73032	0	106	ELECT-REHABVALVES & ACTUATORS	115,962		SW General Improvements
2004	10	55	73033	0	110	MECH FINAL SED TK SCUM REMOVAL	2,642,660		SW Sedimentation Tanks
2005	1	55	73034	0	110	ELECT FINAL SED TK SCUM REMOVAL	931,411		SW Sedimentation Tanks
2003	10	55	73037	0	123	IMPROVERESIDUAL PAD	691,838	Additions in 2019	SW Composting Facilities
2004	11	55	73038	0	93	REPL SLUICE GATE OPERATORS	719,232		SW Screen, Blower, Prim. Sludge PS, Grit
2005	2	55	73040	0	112	EXT PAINTING CRYOGENIC OXYGEN	418,113		SW Oxygen Supply
2005	4	55	73044	0	116	REPL TRANSFORMERS WAREHOUSE 2	115,559		SW Warehouse
2004	6	55	P1139	0	118	ENGSERV-DESIGN/CONSTHVAC SYS	0	Retired 2011	SW Preliminary Treatment Building
2003	6	55	P1201	0	102	CONVER HALON SUPPRESSION SYS	0	Retired 2017	SW Electrical Substation
2005	6	55	P1225	0	93	REHABPLANTWTRSYS,GRIT PAD I	0	Retired 2011	SW Screen, Blower, Prim. Sludge PS, Grit
2005	6	55	P1225	0	93	**REHABPLANTWTRSYS,GRIT PAD I**	0	Retired 2019	SW Screen, Blower, Prim. Sludge PS, Grit
2002	6	55	P1225	0	106	ENGSERV-METCALF & EDDY	0	Retired 2019	SW General Improvements
2005	6	55	P1326	0	114	NORTHSIDEHVAC INP,START-UPCE	0	Retired 2017	SW Admin. Bldg.
2005	3	55	P5103095	0	114	Repl Cable and Telephone Systems	0	Retired 2017	SW Admin. Bldg.
2005	3	55	P5109676	0	114	Inst New 25 Pair Cable	0	Retired 2017	SW Admin. Bldg.
1999	4	55	P1188	0	124	ENG STEAM INJECTION PILOT STUDY	0	Retired 2019	SW Sludge Gas Facilities
2006	6	55	V68919662	0	114	REPL PIPES FOR FUEL TANKS	52,132		SW Admin. Bldg.
2007	5	55	72046	0	100	HVAC WORK FOR NEW OFFICES-TOILET FA	0	Retired 2019	SW Office & Equip. Building
2008	1	55	73025	0	116	PLUMBING WORK FOR NEW OFFICES AND	107,345		SW Warehouse
2007	9	55	73030	0	114	HVAC WORK FOR RENOVATION OF THE HV	29,160,535	Additions in 2019	SW Admin. Bldg.
2009	1	55	73036	0	107	Rehab of Plant Water System	1,461,303	Additions in 2019	SW Site
2010	8	55	73039	0	112	MECH. WORK FOR REHAB OF OXYGENATIC	2,282,327	Additions in 2019	SW Oxygen Supply
2008	1	55	73041	0	96	REPLACEMENT OF WASTE SLUDGE PIPES A	641,786		SW Sludge Handling & Machine Shop
2008	7	55	73042	0	110	REHAB PRIMARY SED. TANKS SW	4,331,902		SW Sedimentation Tanks
2009	9	55	73043	0	117	S.W.- Rehab. Power Dist. System at PST (SC11-2	2,244,138		SW Primary Sedimentation Tanks
2011	12	55	73046	0	96	Rehab of Sludge Return Piping	4,853,488		SW Sludge Handling & Machine Shop
2009	11	55	73049	0	117	S.W.- Rehab. of Final Sed. Tanks (SC06-09-08)	7,936,302		SW Primary Sedimentation Tanks
2011	3	55	73050	0	107	Repl of Roadway Lighting	1,415,955		SW Site
2011	2	55	73051	0	124	Replace Sludge Gas Lines	3,720,309	Additions in 2019	SW Sludge Gas Facilities
2009	10	55	73052	0	93	S.W.- Rehab. Grit Collector Tanks (SC11-19-08)	978,444	Additions in 2019	SW Screen, Blower, Prim. Sludge PS, Grit
2014	3	55	73053	0	107	MED AND LOW VOLTAGE SWITCHGR REPL	2,739,618		SW Site
2010	11	55	73054	0	111	Inspect, Test and Calibrate Electrical System	688,454		SW Electrical Bldg.
2011	3	55	73055	0	106	REPLACE DOORS	1,195,181		SW General Improvements
2013	6	55	73056	0	124	WASTE GAS BURNER REHAB-SW	3,144,632	Additions in 2019	SW Sludge Gas Facilities
2013	7	55	73056	0	124	WASTE GAS BURNER REHAB-SW	113,769		SW Sludge Gas Facilities
2013	9	55	73057	0	118	replace 480v switchgear and 208v unit substation-p	1,209,042		SW Preliminary Treatment Building
2014	2	55	73059	0	113	install/sluice gate at effluent pumping station-swwp	100,591	Additions in 2019	SW Effluent PS
2014	4	55	73068	0	107	NEW PERVIOUS FOR PARKING LOT-SWWPC	919,902		SW Site
2016	6	55	73068	0	107	NEW PERVIOUS FOR PARKING LOT-SWWPC	133,191		SW Site
2010	4	55	75021	0	107	70th & Dicks-Rehab. Of Sluice Gat Chamber-Gen.	2,154,494	Additions in 2019	SW Site
2016	6	55	75021	0	107	**REHABSLUICEGATECHAMBER-70TH/DICI	98,428	Additions in 2019	SW Site
2010	4	55	75022	0	107	70th & Dicks-Rehab. Of Sluice Gat Chamber-Gen.	582,229		SW Site

1985	8	55	W544	0	107	**STORMWTRDRAINS SLDGCOMP SW**	543,790		SW Site
1985	8	55	W544	0	107	**STORMWTRDRAINS SLDGCOMP SW**	88,525		SW Site
2008	3	55	P1394	0	112	REHAB OXYGEN SYS	0	Retired 2019	SW Oxygen Supply
2015	6	55	73039	0	112	MECH. WORK FOR REHAB OF OXYGENATIC	157		SW Oxygen Supply
2015	6	55	73050	0	107	Repl of Roadway Lighting	513	Additions in 2019	SW Site
2016	6	55	73051	0	124	Replace Sludge Gas Lines	35,921	Additions in 2019	SW Sludge Gas Facilities
2015	6	55	73055	0	106	REPLACE DOORS	52		SW General Improvements
2016	6	55	73056	0	124	WASTE GAS BURNER REHAB-SW	66,290	Additions in 2019	SW Sludge Gas Facilities
2016	6	55	P5103095	0	106	**Repl Cable and Telephone Systems **	0	Retired 2017	SW General Improvements
2017	12	55	73070	0	119	REPLACE/REHAB INFLUENT SCREW PUMPS	4,692,729		SW Influent PS
2017	12	55	73072	0	95	INSTALL OF PNEUMATIC SYS FOR FLOC TA	2,466,651		SW Settling Tanks
-	-	55		0	114	General Plant	4,573,161		SW Admin. Bldg.
TOTAL SW PLANT ASSETS (Non-WPAP)							154,884,587	x	

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
SWPA2 - SW Plant Assets (WPAP) as of 6/30/2019 | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Plant-6
Reference: PWD 2017 Assets.xls

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		Plant Function
1981	6	55	SD-450-SW	1	112	CYROGENIC OXYGEN SUPPLY SYSTEM	767		SW Oxygen Supply
1982	6	55	SD-450-SW	1	112	OXYGEN SUPPLY & OXYGENATION SY	11,031,650		SW Oxygen Supply
1981	6	55	SD-451-SW	1	122	OXYGEN ACTIVATED SLUDGE SYSTEM	3,004		SW Sludge Digestion Facilities
1982	6	55	SD-451-SW	1	112	OXYGEN SUPPLY&OXYGENATION SYST	3,011		SW Oxygen Supply
1977	1	55	SD-452-SW	1	107	TIMBR PILES&FILL MAT	368,206		SW Site
1977	1	55	SD-452-SW	1	107	RC SNG BBL OTFL CND	1,254,174		SW Site
1978	7	55	SD-453-SW	1	107	STEEL SHEATHING	8,645		SW Site
1978	7	55	SD-453-SW	1	105	RELOC DEWTR LEADER	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
1978	7	55	SD-453-SW	1	107	BROKEN STONE	10,780		SW Site
1978	7	55	SD-453-SW	1	107	ELEC WRK&STW PUMP	13,450		SW Site
1978	7	55	SD-453-SW	1	107	ELEC & TEL DUCTS	22,915		SW Site
1978	7	55	SD-453-SW	1	102	13.2KV PRIM SERV	37,351		SW Electrical Substation
1978	7	55	SD-453-SW	1	107	EXC-LOW IVERT EGLE C	44,730		SW Site
1978	7	55	SD-453-SW	1	109	AERATION TANKS	269,200		SW Aeration Tanks
1978	7	55	SD-453-SW	1	107	REPL SPILLWAY EMBNK	311,917		SW Site
1978	7	55	SD-453-SW	1	107	RIP-RAP	332,579		SW Site
1978	7	55	SD-453-SW	1	110	FINAL TANKS	673,200		SW Sedimentation Tanks
1978	7	55	SD-453-SW	1	107	EMBNK ON&OFF SITE	1,354,136		SW Site
1978	7	55	SD-453-SW	1	107	SITE PREP FOR SWWPCP	3,451,797		SW Site
1978	7	55	SD-453-SW	1	107	EXC & BACKFILL	3,469,083		SW Site
1982	7	55	SD-454-SW	1	108	CONSTR OF COMPRESSOR BLDG	15,868		SW Compressor Bldg.
1980	6	55	SD-454-SW	1	108	CONSTR OF COMPRESSOR BLDG	1,954,899		SW Compressor Bldg.
1980	1	55	SD-455-SW	1	107	HEATING & VENTILATIO	2,649		SW Site
1978	4	55	SD-455-SW	1	107	HEATING & VENTILATIO	273,831		SW Site
1980	6	55	SD-457-SW	1	108	PLMB SYS FOR COMPRESSOR BLDG	63,563		SW Compressor Bldg.
1977	12	55	SD-457-SW	1	108	PLMB SYS FOR COMPRESSOR BLDG	7,315		SW Compressor Bldg.
1981	6	55	SD-458-SW	1	108	COMPRESSOR BLDG ELEC SYSTEM	3,232		SW Compressor Bldg.
1980	6	55	SD-458-SW	1	108	ELEC WORK FOR COMPRESSOR BLDG	818,499		SW Compressor Bldg.
1985	1	55	SD-459-SW	1	109	STRUCT & EQUIP AERATION TANKS	137,758		SW Aeration Tanks
1980	6	55	SD-459-SW	1	109	CONSTR OF AERATION TANKS	11,127,534		SW Aeration Tanks
1980	6	55	SD-460-SW	1	109	HEAT & VENT FOR AERATION TANKS	110,929		SW Aeration Tanks
1980	6	55	SD-461-SW	1	109	PLUMBING FOR AERATION TANKS	85,303		SW Aeration Tanks
1981	6	55	SD-462-SW	1	109	AERATION TANKS ELEC SYSTEM	5,500		SW Aeration Tanks
1980	6	55	SD-462-SW	1	109	ELEC SYST FOR AERATION TANKS	961,595		SW Aeration Tanks
1984	10	55	SD-463-SW	1	110	GEN CONST FINAL SEDIMENTATION	130,520		SW Sedimentation Tanks
1980	6	55	SD-463-SW	1	110	CONST OF SEDIMINTATION TANKS	21,833,411	Value changed from 1999 FAL	SW Sedimentation Tanks
1980	6	55	SD-464-SW	1	110	HEAT & VENT SYS FOR SED TANKS	163,987		SW Sedimentation Tanks
1979	6	55	SD-465-SW	1	107	ADDITIONAL ENGINEER	1,684		SW Site
1979	6	55	SD-465-SW	1	110	PLUMB SYS-SED TANKS	115,630		SW Sedimentation Tanks
1980	6	55	SD-465-SW	1	110	PLMB SYST FOR FINAL SED TANKS	20,636		SW Sedimentation Tanks
1980	6	55	SD-466-SW	1	117	ELEC SYS FOR SEDIMINTATION TAN	1,799,644		SW Primary Sedimentation Tanks
1981	6	55	SD-467-SW	1	113	GEN CONSTR OF EFFLUENT PMP STA	57,193		SW Effluent PS
1980	6	55	SD-467-SW	1	113	CONST EFFLUENT PUMPING STAT	3,529,235	Value changed from 1999 FAL	SW Effluent PS
1985	4	55	SD-467-SW	1	113	STRUCT&EQUIP-EFFLUENT PUMP STA	37,058		SW Effluent PS
1980	6	55	SD-468-SW	1	113	HEAT/VENT FOR EFFLUENT PP ST	176,714		SW Effluent PS
1980	6	55	SD-469-SW	1	113	PLUMB FOR EFFLUENT PUMP ST	33,077		SW Effluent PS
1985	1	55	SD-470-SW	1	113	ELEC SYSTEM EFFLUENT PUMP STAT	35,550		SW Effluent PS
1980	6	55	SD-470-SW	1	113	ELEC SYS EFFLUENT PUMP ST	734,277		SW Effluent PS
1982	6	55	SD-471-SW	1	114	GEN CONSTR ADMIN BLDG SWWPCP	14,551		SW Admin. Bldg.
1980	6	55	SD-471-SW	1	114	CONST OF ADMIN BLDG	1,786,399		SW Admin. Bldg.
1983	3	55	SD-472-SW	1	114	HEAT & VENT ADMIN BLDG & PLAZA	7,206		SW Admin. Bldg.
1980	6	55	SD-472-SW	1	107	ADMIN. BLDG. SWWPCP HVAC	214,254		SW Site
1980	6	55	SD-473-SW	1	114	PLMB SYS FOR ADMIN BLDG	190,002		SW Admin. Bldg.
1981	6	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA AREA ELEC SYS	2,014		SW Admin. Bldg.
1980	6	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA ELEC SYS	249,208		SW Admin. Bldg.
1983	4	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA AREA ELEC SYS	8,669		SW Admin. Bldg.
1983	10	55	SD-475-SW	1	115	GEN CONST - SHOP & MAINT BLDG	162,291		SW Shop & Maintenance Bldg.
1980	6	55	SD-475-SW	1	115	CONST OF SHOP & MNTENANCE BLDS	1,540,602		SW Shop & Maintenance Bldg.
1984	6	55	SD-476-SW	1	115	HEAT/VENT - SHOP & MAINT BLDGS	1,019		SW Shop & Maintenance Bldg.
1980	6	55	SD-476-SW	1	115	HEAT/VENT SHOP & MAINT BLDS	431,533		SW Shop & Maintenance Bldg.
1980	6	55	SD-476-SW	1	115	HEAT/VENT SHOP & MAINT BLDS	156,304		SW Shop & Maintenance Bldg.
1980	6	55	SD-477-SW	1	115	PLMB SYS FOR SHOP & MAINT BLDG	136,019		SW Shop & Maintenance Bldg.
1981	6	55	SD-478-SW	1	115	SHOP&MAINT BLDG ELEC SYSTEM	12,855		SW Shop & Maintenance Bldg.
1980	6	55	SD-478-SW	1	115	ELEC SYS FOR SHOP & MAINT BLDG	200,315		SW Shop & Maintenance Bldg.
1982	6	55	SD-479-SW	1	116	STRUCT&MECHAN-WAREHSE&OTHR FAC	5,888		SW Warehouse
1980	6	55	SD-479-SW	1	116	MECH WORK FOR WAREHOUSE	1,261,584		SW Warehouse
1980	6	55	SD-480-SW	1	116	HEAT & VENT WORK AT WAREHOUSE	121,239		SW Warehouse
1982	12	55	SD-481-SW	1	115	PLUMB WORK AT SW WAREHOUSE	2,076		SW Shop & Maintenance Bldg.
1980	6	55	SD-481-SW	1	116	PLUMB WORK AT SW WAREHOUSE	45,161		SW Warehouse

1985	4	55	SD-482-SW	1	111	ELEC SYS WAREHOUSE,OTHER FACIL	11,271		SW Electrical Bldg.
1980	6	55	SD-482-SW	1	116	ELEC WORK AT SW WAREHOUSE	120,992		SW Warehouse
1978	6	55	SD-484-SW	1	111	CONSTR OF ELEC BLDG	486,415		SW Electrical Bldg.
1983	5	55	SD-485-SW	1	111	HEAT & VENT ELECTRICAL BLDG	16,368		SW Electrical Bldg.
1979	6	55	SD-485-SW	1	111	HEAT & VENT FOR SW ELEC BLDG	99,119		SW Electrical Bldg.
1979	6	55	SD-486-SW	1	111	PLMB SYS FOR NEW ELEC BLDG	27,276		SW Electrical Bldg.
1981	5	55	SD-486-SW	1	111	PLMB SYS FOR ELEC BLDG	1,700		SW Electrical Bldg.
1982	1	55	SD-487-SW	1	111	ELECTRICAL SYS NEW ELEC BLDG	24,840		SW Electrical Bldg.
1979	6	55	SD-487-SW	1	111	ELEC WORK FOR NEW ELEC BLDG	851,022		SW Electrical Bldg.
1985	3	55	SD-488-SW	1	117	STRUCT & EQUIP PRIM SED TANKS	5,984,416	Value changed from 1999 FAL	SW Primary Sedimentation Tanks
1980	6	55	SD-492-SW	1	104	ELEVATED STORAGE TANK	200,306		SW Elevated Water Tank
1980	6	55	SD-492-SW	1	104	ELEVATED STORAGE TANK FOUNDATI	66,768		SW Elevated Water Tank
1984	10	55	SD-496-SW	1	118	PLUMBING - PRELIM TREAT BLDG	399,136		SW Preliminary Treatment Building
1985	6	55	SD-498-SW	1	119	STRUCT & EQUIP INFLU PUMP STAT	4,029,646		SW Influent PS
1980	6	55	SD-502-SW	1	120	CONST SCUM CONCENTRATION BLDG	701,564	Value changed from 1999 FAL	SW Scum Concentration Bldg.
1982	12	55	SD-503-SW	1	120	HEAT/VENT SCUM CONCENT BLDG	104,649		SW Scum Concentration Bldg.
1985	3	55	SD-504-SW	1	120	PLUMBING-SCUM CONCENTRATION BL	1,300		SW Scum Concentration Bldg.
1980	6	55	SD-504-SW	1	120	PLUMB SCUM CONCENTRATION BLDG	49,003		SW Scum Concentration Bldg.
1980	6	55	SD-506-SW	1	121	CONST SLUDGE THICKNER BLDG	9,906,146	Value changed from 1999 FAL	SW Sludge Thickener Bldg.
1982	11	55	SD-507-SW	1	121	HEATING VENT SLUDGE THICK BLDG	65,239		SW Sludge Thickener Bldg.
1980	6	55	SD-507-SW	1	121	HEATING VENT SLUDGE THICK BLDG	1,848,517		SW Sludge Thickener Bldg.
1980	6	55	SD-508-SW	1	121	PLUMB SLUDGE THICKNER BLDG	295,057		SW Sludge Thickener Bldg.
1984	2	55	SD-511-SW	1	122	HEAT/VENT - SLUDGE DIGEST FACI	1,078,961		SW Sludge Digestion Facilities
1983	4	55	SD-523-SW	1	106	LANDSCAPE & MISCELLANEOUS WORK	85,803		SW General Improvements
1980	6	55	SD-523-SW	1	107	LANDSCAPE & MISCELLANEOUS WORK	2,371,971		SW Site
1983	8	55	SD-524-SW	1	107	ELEC WRK FOR ROADS,SEWERS,ETC	210,285		SW Site
1984	11	55	SD-525-SW	1	107	GEN CONST-ROAD,STRM SWR,LND SC	1,510,776		SW Site
1985	6	55	SD-526-SW	1	107	ELECTRICAL 4 ROADS,STORM SEWR	343,905		SW Site
1984	11	55	SD-531-SW	1	124	STRUCT & EQUIP SLUDGE GAS FACI	6,245,739	Value changed from 1999 FAL	SW Sludge Gas Facilities
1985	4	55	SD-532-SW	1	124	HEAT, VENT-SLUDGE GAS FACILITY	1,332,722		SW Sludge Gas Facilities
1984	3	55	SD-533-SW	1	124	PLUMBING 4 SLUDGE GAS FACILITY	144,405		SW Sludge Gas Facilities
1985	4	55	SD-534-SW	1	124	ELECTRICAL-SLUDGE GAS FACILITY	689,576		SW Sludge Gas Facilities
1980	6	55	SD-535-SW	1	109	PHASE 5 AER TNK PLUMBING	73,072		SW Aeration Tanks
1987	6	55	W458	1	108	ELEC SYSTEM-COMPRESSOR BLDG	57,426		SW Compressor Bldg.
1997	6	55	W458	1	108	ELECT- COMPRESSOR BLDG	0	This item does not appear in the 2002 FAL.	SW Compressor Bldg.
1987	6	55	W460	1	109	HEAT,VENT- AERATION TANKS	13,083		SW Aeration Tanks
1987	6	55	W461	1	109	PLUMBING - AERATION TANKS	1,705		SW Aeration Tanks
1989	6	55	W461	1	109	PLUMBING - AERATION TANKS	28,559		SW Aeration Tanks
1986	9	55	W462	1	109	ELECTRIC-AERATION TANKS	17,590		SW Aeration Tanks
1987	6	55	W466	1	117	ELECTRIC-SEDIMENTATION TNKS	62,817		SW Primary Sedimentation Tanks
1987	6	55	W468	1	113	HEAT,VENT - EFFLUENT PUMP STAT	2,697		SW Effluent PS
1989	11	55	W468	1	113	HEAT,VENT - EFFLUENT PUMP STAT	32,589		SW Effluent PS
1987	6	55	W469	1	113	PLUMBING - EFFLUENT PUMP STATI	0	Retired 2019	SW Effluent PS
1987	6	55	W471	1	114	GEN CONSTR ADMIN BLDG & PLAZA	0	Retired 2019	SW Admin. Bldg.
1997	6	55	W473	1	114	PLUMB SYS FOR ADMIN BLDG	0	This item does not appear in the 2002 FAL.	SW Admin. Bldg.
1986	9	55	W478	1	115	ELECTRIC-SHOP & MAINT BLDG	7,042		SW Shop & Maintenance Bldg.
1986	4	55	W489	1	117	HEAT & VENT - PRIM SEDIMEN TKS	29,462		SW Primary Sedimentation Tanks
1986	4	55	W490	1	117	PLUMBING-PRIMARY SEDIMENTATION	51,508		SW Primary Sedimentation Tanks
1987	6	55	W491	1	117	ELEC SYS-PRIMARY SEDIMENT TANK	762,088		SW Primary Sedimentation Tanks
1989	6	55	W491	1	117	ELEC SYS-PRIMARY SEDIMENT TANK	22,559		SW Primary Sedimentation Tanks
1987	6	55	W493	1	104	ELECTRIC FOR ELEVATED TANKS	34,365		SW Elevated Water Tank
1986	5	55	W494	1	118	STRUCT & EQUIP PRELIM TREAT BL	13,758,383		SW Preliminary Treatment Building
1987	6	55	W495	1	118	HEAT,VENT-PRELIM TREAT BLDG	2,051,426		SW Preliminary Treatment Building
1988	3	55	W495	1	118	HEAT/VENT PRELIMINARY TREAT BL	48,058		SW Preliminary Treatment Building
1987	3	55	W497	1	118	ELECT-PRELIMIN TREATMENT BLDG	2,337,574		SW Preliminary Treatment Building
1987	1	55	W499	1	119	HEAT/VENT-INFLUENT PUMPING STA	257,570		SW Influent PS
1987	1	55	W500	1	119	PLUMBING-INFLUENT PUMP STATION	16,657		SW Influent PS
1987	1	55	W500	1	119	PLUMBING-INFLUENT PUMP STATION	55,771		SW Influent PS
1986	5	55	W501	1	119	ELEC - INFLUENT PUMPING STAT	586,635		SW Influent PS
1985	8	55	W502	1	120	STRUCT&EQUIP-SCUM CONCENT BLDG	39,690		SW Scum Concentration Bldg.
1986	2	55	W505	1	120	ELEC WORK - SCUM CONCENT BLDG	177,963		SW Scum Concentration Bldg.
1985	8	55	W506	1	121	STRUCT&EQUIP SLDG THICKENING B	295,612		SW Sludge Thickener Bldg.
1985	8	55	W506	1	121	STRUCT&EQUIP SLDG THICKENING B	525,535		SW Sludge Thickener Bldg.
1987	1	55	W508	1	121	PLUMBING-SLUDGE THICKENER BLDG	68,147		SW Sludge Thickener Bldg.
1987	6	55	W509	1	121	ELECTRICAL-SLUDGE THICKENER BL	466,954	Value changed from 1999 FAL	SW Sludge Thickener Bldg.
1991	6	55	W510	1	122	STRUCT&MECH-SLUDGE DIGESTION F	1,925		SW Sludge Digestion Facilities
1993	4	55	W510	1	122	STRUCT&MECH-SLUDGE DIGESTION F	113,127		SW Sludge Digestion Facilities
1987	6	55	W510	1	122	STRUCT&MECH -SLUDGE DIGESTION	13,255,875	Value changed from 1999 FAL	SW Sludge Digestion Facilities
1987	6	55	W512	1	122	PLUMBING-SLUDGE DIGESTION FACI	394,748		SW Sludge Digestion Facilities
1989	6	55	W512	1	122	PLUMBING-SLUDGE DIGESTION FACI	6,951		SW Sludge Digestion Facilities
1986	9	55	W513	1	122	ELECTRIC-SLUDGE DIGESTION FACI	1,210,139		SW Sludge Digestion Facilities
1987	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	2,742,819		SW Screen, Blower, Prim. Sludge PS, Grit
1988	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	184,212		SW Screen, Blower, Prim. Sludge PS, Grit
1989	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	60,944		SW Screen, Blower, Prim. Sludge PS, Grit
1989	10	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	41,494		SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W519	1	93	HEAT,VENT-GRIT&ASH TRANS STATI	146,343		SW Screen, Blower, Prim. Sludge PS, Grit

1991	4	55	W519	1	93	HEAT,VENT-GRIT&ASH TRANS STATI	39,281		SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	102,327		SW Screen, Blower, Prim. Sludge PS, Grit
1988	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	7,495		SW Screen, Blower, Prim. Sludge PS, Grit
1989	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	4,520		SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W521	1	93	ELECTRICAL-GRIT&ASH TRANS STAT	260,831		SW Screen, Blower, Prim. Sludge PS, Grit
1988	3	55	W521	1	93	ELECTRIC-GRIT&ASH TRANS STATIO	32,717		SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	Value changed from 1999 FAL	SW Admin. Bldg.
1988	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	This item does not appear in the 2007 FAL.	SW Admin. Bldg.
1989	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	This item does not appear in the 2007 FAL.	SW Admin. Bldg.
1988	6	55	W527	1	122	STRUCT&MECH-MOD SLUDGE FACILIT	866,250		SW Sludge Digestion Facilities
1989	6	55	W527	1	122	STRUCT&MECH-MOD SLUDGE FACILIT	31,299		SW Sludge Digestion Facilities
1987	6	55	W527	1	122	STRUCT & MECH-MOD SLUDGE FACIL	14,487,839		SW Sludge Digestion Facilities
1987	6	55	W528	1	122	HEAT,VENT-MOD SLUDGE FACILITIE	1,288,838		SW Sludge Digestion Facilities
1988	2	55	W528	1	96	HEAT & VENT MODIFY SLUDGE FACI	8,863		SW Sludge Handling & Machine Shop
1987	6	55	W529	1	122	PLUMBING-MOD SLUDGE FACILITIES	451,693		SW Sludge Digestion Facilities
1987	8	55	W529	1	122	PLUMBING-MOD SLUDGE FACILITIES	3,371		SW Sludge Digestion Facilities
1987	6	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITI	2,767,705		SW Sludge Digestion Facilities
1987	10	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITI	140,639		SW Sludge Digestion Facilities
1997	6	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITY	0	This item does not appear in the 2002 FAL.	SW Sludge Digestion Facilities
1993	6	55	W556	1	107	STORM SEWERS, LANDSCAPING, ETC	2,416,153		SW Site
1993	9	55	W556	1	107	STORM SEWERS, LANDSCAPING, ETC	6,953		SW Site
1991	6	55	W557	1	107	STORM SEWERS, LANDSCAPING, ETC	204,749		SW Site
TOTAL SW PLANT ASSETS (WPAP)							175,914,405	x	
TOTAL SW PLANT ASSETS							330,798,992		
							330,798,992		

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
SEPA1 - SE Plant Assets (Non-WPAP) as of 6/30/2019 | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Plant-7
Reference: PWD 2017 Assets.xls

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1996	6	56	1698	0	138	GALLERY LIGHTING IMP	4,607		SE Site
1996	6	56	2897	0	138	INST TANK MONITORING/LEAK DETE	54,737		SE Site
1996	6	56	E235	0	138	LEAKAGE MOINTORING/TELEMETRY-1	27,995		SE Site
1996	6	56	E237	0	138	SEPTAGE TFR STATION	45,062		SE Site
1996	6	56	E257	0	138	YARD PIPING	46,944		SE Site
1996	6	56	E264	0	126	GEN-SCREENING GRIT FAC & TFR S	56,444		SE Main PS
1996	6	56	E286	0	138	GEN-SLUDGE HANDLING FAC	9,311		SE Site
1996	6	56	E291	0	131	HVAC- WAREHOUSE & STORAGE FAC	5,741		SE Storage Bldg.
0	0	56	E306	0	138	AIR COND OF ELEC SUBSTATIONS	0	This item does not appear in the 2003 FAL.	SE Site
1996	6	56	E309	0	138	COMBINED SEWER OVERFLOW PROJEC	43,134		SE Site
1995	8	56	E314	0	138	SWITCHGEAR TEST & REHAB	40,249		SE Site
1997	6	56	E316	0	139	SLUD COLL EQUIP-PRIM SED TANKS	1,217,759		SE Primary Sedimentation Tanks
1997	6	56	E319	0	138	REPL LV SWITCHGEAR CIRCUIT BKR	206,658		SE Site
1996	6	56	G238	0	127	GRIT STORAGE AREA	21,217		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1996	6	56	G239	0	131	GEN -EQUIP STORAGE BLDG	10,241		SE Storage Bldg.
1991	5	56	G303	0	131	GEN CONST-EQUIP STORAGE BLDG	584,110		SE Storage Bldg.
1990	10	56	G304	0	131	MECHANICAL-EQUIP STORAGE BLDG	110,918		SE Storage Bldg.
1991	5	56	G305	0	131	ELECTRICAL-EQUIP STORAGE BLDG	111,737		SE Storage Bldg.
1996	4	56	G307	0	132	SLUD TRSF PUMP SEAL WTR SYS	528,525		SE Sludge Force Main to SW Plant
1991	3	56	G308	0	127	NEW GRIT STORAGE	137,388		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1976	1	56	M98	0	138	TEST BORING-VAR LOC	0	This item does not appear in the 2011 FAL.	SE Site
1995	5	56	N729	0	138	RELOC OF RPZ BACKFLOW PRE	95,046		SE Site
1972	5	56	P-295	0	138	ENGR SERVICES	0	Retired 2017	SE Site
1975	2	56	P-323	0	138	DESIGN FOR SE WPCP	0	Retired 2019	SE Site
1976	1	56	P-332	0	138	SOIL INVESTIGATION	0	Retired 2017	SE Site
1978	9	56	P-357	0	138	ENGR SERV-ADVICE,CONSULT,OPER	0	Retired 2011	SE Site
1990	6	56	P-357	0	138	ADVICE,CONSULT&STUDI	0	Retired 2017	SE Site
0	0	56	P-455	0	127	DESIGN ADMINISTRATIVE COMPLEX	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1989	6	56	P-484	0	127	CPM SCHEDULING SERVICE	2,930,341		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	8	56	PV07930	0	138	ELECTRIC SERVICE LINE	5,032		SE Site
1986	12	56	PV09054	0	138	GEN CONST & MECH WORK	13,230		SE Site
1987	6	56	PV39897	0	131	NEW ROOFING - WAREHOUSE BLDG	10,140		SE Storage Bldg.
1986	6	56	PV41701	0	138	GEN CONST & MECH WORK	87,562		SE Site
1951	6	56	SD-101-SE	0	132	INTERCEPTING SEWER	2,476,035		SE Sludge Force Main to SW Plant
1951	3	56	SD-105-SE	0	132	INTERCEPTING SEWER	1,847,598		SE Sludge Force Main to SW Plant
1952	4	56	SD-106-SE	0	138	48IN RC PIPE	117,581		SE Site
1952	4	56	SD-106-SE	0	138	EXCAVATION&PILES	274,702		SE Site
1953	9	56	SD-112-SE	0	138	COLL SYS INTERCEPT C	74,173		SE Site
1956	10	56	SD-114-G	0	138	ELEC INSTL	29,103		SE Site
1955	6	56	SD-114-SE	0	138	COLL SYS INTERCEP SE	3,417,035		SE Site
0	0	56	SD-140-SE	0	138	EFFL&STORMWTR COND-EXCAV DREDG	0	This item does not appear in the 2002 FAL.	SE Site
1955	11	56	SD-141-SE	0	138	50000 GAL WTR TANK	40,850		SE Site
0	0	56	SD-145-GO	0	138	LADDER SAFETY DEVICE-WATR STOR	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-156-GO	0	138	CNTRL CONDUC-SEWPCP	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-165-GO	0	138	F&I ELEC CONT-CRANE	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-165-GO	0	138	F&I ELEC CONTR-CRANE	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-198-SE	0	138	2 TON CRANE	0	This item does not appear in the 2002 FAL.	SE Site
1969	7	56	SD-198-SE	0	138	CONCRETE PILES	7,964		SE Site
1969	7	56	SD-198-SE	0	131	CONSTR OF EQUIP BLDG	100,703		SE Storage Bldg.
0	0	56	SD-207-SEO	0	127	HOTWTR HEAT-NEW OFF-TOILET-LOC	0	This item does not appear in the 2003 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1970	6	56	SD-208-SEO	0	131	PLUMBING FOR EQUIP BLDG	11,774		SE Storage Bldg.
0	0	56	SD-209-SEO	0	127	GEN CONSTR-NEW OFFIC	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
0	0	56	SD-211-SEO	0	138	ARC ELECT LIGHT-EQUIPMENT BLDG	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-214-SE	0	129	PLUMBING-GREASE BURNER BLDG	0	This item does not appear in the 2002 FAL.	SE Grease Bldg.
0	0	56	SD-224-SEO	0	128	INST-BTRFLY VALV-FLOC TANKS	0	This item does not appear in the 2002 FAL.	SE Settling Tanks & Flocculation Channel
1983	4	56	SD-230-SE	0	138	HIGH MST,LOW LEV STREET LIGHTI	4,300		SE Site
1980	6	56	SD-230-SE	0	138	HIGHMAST&STREET LEVEL LIGHT-SE	128,084		SE Site
1997	6	56	72009	0	127	REPL GRIT CHANNEL SLUICE GATE	79,927		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1997	7	56	E310	0	127	REHAB GRIT TRANSPORT SY	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
0	0	56	E311	0	133	REPL LIQUID CHLORINE LINES	0	Value changed from 1999 FAL	SE Main Effluent Conduit
1997	8	56	E318	0	140	INSTL SLUDGE COLL EQUIP-FINAL	3,214,897		SE Final Sedimentation Tanks
1998	6	56	P1148	0	127	MOD GRIT, SCREENINGS, SCUM DIS	0	Retired 2017	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1999	6	56	70003	0	138	HIGH MAST LIGHTING SYS OVERHAU	77,581		SE Site
1998	8	56	72000	0	127	REPL SLUICE GATES	182,364		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1999	2	56	72002	0	126	REPL LOW/VOLT SWITCHGEAR-IPS-S	182,715		SE Main PS
0	0	56	72010	0	127	EMERG REPR-INFLUENT BAR RACK	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2000	3	56	70003	0	138	HIGH MAST LIGHTING SYS OVERHAU	47,225	Projects added since the 1999 FAL.	SE Site
1998	8	56	72000	0	127	REPL SLUICE GATES	1,392	Projects added since the 1999 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2001	2	56	72001	0	138	REFURBISING ELEVATED STEEL WTR	367,143	Projects added since the 1999 FAL.	SE Site

2000	12	56	72004	0	138	GEN CONST-ADMIN/MAINT BLDG	874,832	Projects added since the 1999 FAL.	SE Site
2000	9	56	72005	0	138	HVAC WORK-ADMIN/MAINT BLDG	182,943	Projects added since the 1999 FAL.	SE Site
2000	9	56	72006	0	138	PLUMB-ALTERATIONS ADMIN/MAINT	105,580	Projects added since the 1999 FAL.	SE Site
2000	8	56	72007	0	138	ELECT-ALTER ADMIN/MAINT BLDG	194,554	Projects added since the 1999 FAL.	SE Site
1998	9	56	E315	0	134	REHAB INFLUENT PUMPS	1,010,075	Projects added since the 1999 FAL.	SE Influent PS
1998	7	56	E317	0	136	EXT PAINTING-CRYOGENIC OXYGEN	0	Retired 2011	SE Aeration Tanks
1999	7	56	P-967	0	138	ENG SERV-VARIOUS PROJECTS	0	Retired 2019	SE Site
2001	6	56	P1198	0	133	ENG DESIGN SERV SOD HYPOCHLORI	0	Retired 2011	SE Main Effluent Conduit
2001	6	56	P1201	0	138	CONVER HALON SUPPRESSION SYS	0	Retired 2011	SE Site
2002	6	56	P1225	0	138	ENG SERV-METCALF & EDDY	0	Retired 2019	SE Site
2002	6	56	P1226	0	138	ENG SERV-HAZEN & SAWYER	0	Retired 2019	SE Site
2002	3	56	72003	0	138	ACCESS CONT & ALARM SYS	714,370	Projects added since the 2002 FAL.	SE Site
2001	12	56	72008	0	136	REPL CHANNEL/AERATION AIR BLOW	1,279,953	Projects added since the 2002 FAL.	SE Aeration Tanks
2002	5	56	72017	0	136	ELECT-CHANNEL/AERATION AIR BLO	352,275	Projects added since the 2002 FAL.	SE Aeration Tanks
2001	12	56	72025	0	127	MECH REHAB GRIT COLL SCREW CON	541,324	Projects added since the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2002	8	56	72027	0	138	CONST/APPURT-PREFAB BLDG-SWITC	320,128	Projects added since the 2002 FAL.	SE Site
2002	7	56	72028	0	138	MECH/APPURT-PREFAB BLDG-SWITCH	73,267	Projects added since the 2002 FAL.	SE Site
2002	8	56	80003	0	138	LIGHTING EFFICIENCY IMP	320,776	Projects added since the 2002 FAL and additions in 2019	SE Site
2003	6	56	P1201	0	138	CONVER HALON SUPPRESSION SYS	0	Retired 2011	SE Site
2003	12	56	72011	0	138	INSTLNEWDIST CONTSYS	2,998,664		SE Site
2003	11	56	72018	0	140	REPL PRIMSLUD TRF PUMPS	0	Retired 2016	SE Final Sedimentation Tanks
2003	1	56	72019	0	126	ELECT-REPL EXIST PRIMPUMPS	0	Retired 2016	SE Main PS
2003	2	56	72020	0	127	HVAC RENOV-IPS,SCREEN,GRIT FAC	573,129	Additions in 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2007	0	56	72021	0	128	GEN CON- SODHYDRO FACILITIES WTR DE	2,226,039		SE Settling Tanks & Flocculation Channel
2005	11	56	72022	0	128	ELECT SOD HYPOCHLORITE FAC	161,493		SE Settling Tanks & Flocculation Channel
2006	2	56	72023	0	128	HVAC SOD HYPOCHLORITE FAC	198,415		SE Settling Tanks & Flocculation Channel
2005	6	56	72024	0	128	PLUMB SOD HYPOCHLORITE FAC	138,953		SE Settling Tanks & Flocculation Channel
2003	6	56	72026	0	135	REPL LVSWITCHGEAR EFFLUENTPS	550,890		SE Effluent PS
2002	11	56	72029	0	138	ELECT-PREFAB BLDG-SWITCHGEAR	300,319		SE Site
2004	12	56	72030	0	136	REHAB COMP/MONITOR CONT AERATI	1,563,504		SE Aeration Tanks
2003	12	56	72031	0	127	GRIT PAD IMPROVEMENTS	321,761		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2003	10	56	72034	0	134	NEWPRECASTCONCRETE-SAMPLING	65,981		SE Influent PS
2004	4	56	72036	0	138	INSPEC/CALIBRAT-ELECTPW SYS	281,446		SE Site
2005	5	56	72037	0	134	REPL INFLUENT PUMP CONTROLS	507,946	Additions in 2019	SE Influent PS
2005	2	56	72041	0	138	REPL WINDOWS VAR BLDGS	743,305		SE Site
2005	4	56	72042	0	138	HVAC WK COMPRESSOR	552,453	Additions in 2019	SE Site
2007	0	56	72046	0	127	TELEPHONE LINES - SEWPCP	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	5	56	72047	0	138	MOD PLANT RDS TRUCK ACCESS	288,512		SE Site
1998	1	56	E313	0	139	PRIM SED-SLIDE GATES,REHAB FLO	450,981		SE Primary Sedimentation Tanks
2004	6	56	P1198	0	128	ENGDESIGN SER HYPOCHLORITE	0	Retired 2019	SE Settling Tanks & Flocculation Channel
2005	6	56	P1326	0	138	BURNSENG-PRE-CONSTSERVICES	0	Retired 2011	SE Site
2005	6	56	P1225	0	141	ENGSERV-SCUMREMOVAL	0	Retired 2011	SE Scum Concentration Facility
2005	6	56	P1226	0	127	HAZEN-REPAIR GRITEJECTORS	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	1	56	P1229	0	141	RENEWSCUM TROUGHS FINAL TKS	0	Retired 2011	SE Scum Concentration Facility
2004	12	56	P4115136	0	138	Commun and Control Telecom	0	Retired 2011	SE Site
2004	11	56	P5108029	0	138	Telecom Commun Control	0	Retired 2011	SE Site
2004	12	56	P5103093	0	138	Telecom Commun Control	0	Retired 2011	SE Site
2004	9	56	V16321618	0	138	Inst Telecom Equip	11,701		SE Site
2004	9	56	V16657618	0	138	Inst Telecom Equip	36,125		SE Site
2004	10	56	V25354618	0	138	Inst Telecom Equip	41,063		SE Site
2007	2	56	71074	0	128	GEN CON- SODHYDRO FACILITIES WTR DE	0	Retired 2016	SE Settling Tanks & Flocculation Channel
2008	7	56	72038	0	140	Renew Scum Pipes in Final Tanks - SE	1,879,207	Additions in 2019	SE Final Sedimentation Tanks
2009	12	56	72044	0	127	GEN. AND MECH WORK FOR REHAB OF GR	2,457,213	Additions in 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2008	3	56	72045	0	138	Electric & Instrumentation Work	1,045,687		SE Site
2007	8	56	72048	0	134	MODIFICATIONS TO THE ROTARY BRIDGE	257,520		SE Influent PS
2008	3	56	72050	0	138	EXPANSION JOINT REPAIRS AND GALLERY	1,001,897		SE Site
2009	11	56	72053	0	138	GENERAL CONSTRUCTION AND MECHANIC	3,073,634	Additions in 2019	SE Site
2008	5	56	72054	0	139	REHAB. OF PRIMARY SEDIMENTATION TAN	4,890,930		SE Primary Sedimentation Tanks
2009	10	56	72055	0	138	Electric for Haul Improvements	339,598	Additions in 2019	SE Site
2010	4	56	72060	0	138	REPLACEMENT OF LOW VOLTAGE SWITCH	326,473		SE Site
2010	1	56	72061	0	128	Rehab Of Sodium Hypochlorite Mixing Chamber	931,701	Additions in 2019	SE Settling Tanks & Flocculation Channel
2011	2	56	72063	0	127	Rehab of Grit Tanks	2,115,833		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2001	6	56	P1198	0	128	**ENGDESIGN SERVSODHYPOCHLORI**	0	Retired 2019	SE Settling Tanks & Flocculation Channel
2005	6	56	P1225	0	140	**ENGSERV-SCUMREMOVAL **	0	Retired 2019	SE Final Sedimentation Tanks
2005	6	56	P1226	0	127	**HAZEN-REPAIR GRITEJECTORS **	0	Retired 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	1	56	P1229	0	140	**RENEWSCUM TROUGHS FINAL TKS **	0	Retired 2019	SE Final Sedimentation Tanks
2005	6	56	P1326	0	138	**BURNSENG-PRE-CONSTSERVICES **	0	Retired 2017	SE Site
1978	9	56	P-357	0	138	**ADVICE,CONSULT&STUDI **	0	Retired 2017	SE Site
2004	12	56	P4115136	0	138	**Commun and Control Telecom **	0	Retired 2017	SE Site
2004	12	56	P5103093	0	138	**Telecom Commun Control **	0	Retired 2017	SE Site
2004	11	56	P5108029	0	138	**Telecom Commun Control **	0	Retired 2017	SE Site
1976	1	56	M-198	0	138	**TEST BORING-VARLOC **	16,052		SE Site
2013	4	56	72064	0	138	REPLACE SLUDGEPUMPS/SLUDGE GRINDE	1,219,862		SE Site
2013	4	56	72065	0	138	REPLACE SLUDGEPUMPS/SLUDGE GRINDE	550,956	Additions in 2019	SE Site
2014	4	56	72067	0	138	NEW POLYURETHANE/SILICONE ROOFING	586,064		SE Site
2014	3	56	72084	0	138	Install- solar photovoltaic energy generation system	2,246,362		SE Site

2015	6	56	72084	0	138	Install- solar photovoltaic energy generation system	3,551		SE Site
2016	6	56	72084	0	138	Install- solar photovoltaic energy generation system	164,023	Additions in 2019	SE Site
2007	2	56	72046	0	138	TELEPHONE LINES - SEWPCP	29,253		SE Site
2016	6	56	72044	0	127	GEN. AND MECH WORK FOR REHAB OF GR	1,330		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2016	6	56	72061	0	128	Rehab Of Sodium Hypochlorite Mixing Chamber	6,521		SE Settling Tanks & Flocculation Channel
2016	4	56	72076	0	127	REPLACEMENT OF INFLUENT BAR RACKS-	3,214,906		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2017	6	56	72076	0	127	REPLACEMENT OF INFLUENT BAR RACKS-	150,071		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2018	8	56	73071	0	135	Effluent Pump Addition at SWWPCP	1,384,796		SE Effluent PS
		56		0	138	General Plant	1,965,566		SE Site
TOTAL SE PLANT ASSETS (Non-WPAP)							66,929,036	x	

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
SEPA2 - SE Plant Assets (WPAP) as of 6/30/2019 | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Plant-8
Reference: PWD 2017 Assets.xls

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		Plant Function
1989	3	56	E240	1	138	SITE PREP FOR NEW PLANT	28,736		SE Site
1987	6	56	E241	1	140	GEN CONST-FINAL SEDIMENTAT TNK	18,677,434	Value changed from 1999 FAL	SE Final Sedimentation Tanks
1987	11	56	E241	1	140	GEN CONST&MECH-FINAL SED TANKS	9,251		SE Final Sedimentation Tanks
1987	6	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	1,728,720		SE Final Sedimentation Tanks
1988	6	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	69,440		SE Final Sedimentation Tanks
1988	12	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	28,315		SE Final Sedimentation Tanks
1986	1	56	E243	1	140	PLUMBING-FINAL SEDIMENTATION T	94,191		SE Final Sedimentation Tanks
1986	6	56	E244	1	140	HEAT&VENT- FINAL SEDIMEN TANKS	110,018		SE Final Sedimentation Tanks
1987	6	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	13,800,230	Value changed from 1999 FAL	SE Aeration Tanks
1988	6	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	66,696		SE Aeration Tanks
1990	8	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	67,720		SE Aeration Tanks
1988	6	56	E246	1	136	ELECTRICAL - AERATION TANKS	242,861		SE Aeration Tanks
1987	6	56	E246	1	136	ELECTRICAL AERATION TANKS	1,379,766		SE Aeration Tanks
1986	9	56	E247	1	136	PLUMBING-OXYGEN AERATION TNKS	132,837		SE Aeration Tanks
1987	4	56	E248	1	136	HEAT,VENT-OXYGEN AERATION TANK	102,047		SE Aeration Tanks
1987	6	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1988	6	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1990	11	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1987	6	56	E250	1	137	OXYGEN SUPPLY SYSTEM- SEE E249	0	Retired 2011	SE Compressor Bldg.
1988	6	56	E250	1	137	OXYGEN SUPPLY SYSTEM- SEE E249	0	Retired 2011	SE Compressor Bldg.
1986	3	56	E251	1	138	13.2KV FEEDER,13.8 METLCLD SWI	665,772		SE Site
1987	6	56	E252	1	138	DRAINAGE & FENCING,YARD PIPING	1,055,121		SE Site
1987	10	56	E252	1	138	DRAINAGE & FENCING,YARD PIPING	6,085		SE Site
1997	6	56	E252	1	138	DRAINAGE & FENCING, YARD PIPIN	0	This item does not appear in the 2002 FAL.	SE Site
1987	6	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	4,873,495	Value changed from 1999 FAL	SE Compressor Bldg.
1988	6	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	5,770		SE Compressor Bldg.
1990	7	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	55,841		SE Compressor Bldg.
1987	6	56	E254	1	137	ELECTRIC - COMPRESSOR BLDG	2,330,997		SE Compressor Bldg.
1988	6	56	E254	1	137	ELECTRIC - COMPRESSOR BLDG	12,210		SE Compressor Bldg.
1988	8	56	E254	1	137	COMPRESSOR BLDG	3,112		SE Compressor Bldg.
1987	6	56	E255	1	137	PLUMBING - COMPRESSOR BLDG.	0	Retired 2019	SE Compressor Bldg.
1986	5	56	E256	1	137	HEAT,VENT,AIR - COMPRESS BLDG	326,759		SE Compressor Bldg.
1988	5	56	E260	1	134	GEN CONST&MECH-INFLUENT PUMPIN	59,135		SE Influent PS
1987	6	56	E260	1	134	GEN CONST & MECH-INFLUENT PUMP	13,042,228	Value changed from 1999 FAL	SE Influent PS
1987	6	56	E261	1	134	HEAT&VENT-INFLUENT PUMPING STA	1,317,254		SE Influent PS
1988	6	56	E261	1	134	HEAT&VENT-INFLUENT PUMPING STA	48,044		SE Influent PS
1989	6	56	E261	1	135	HEAT&VENT-INFLUENT PUMPING STA	5,758		SE Effluent PS
1987	6	56	E262	1	134	PLUMBING-INFLUENT PUMPING STAT	206,816		SE Influent PS
1988	3	56	E262	1	134	PLUMBING-INFLUENT PUMPING STAT	11,368		SE Influent PS
1987	6	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	1,672,260		SE Influent PS
1988	6	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	27,846		SE Influent PS
1990	1	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	31,159		SE Influent PS
1988	6	56	E268	1	139	GEN CONST&MECH-PRIMARY SED TAN	16,300		SE Primary Sedimentation Tanks
1989	6	56	E268	1	139	GEN CONST&MECH-PRIMARY SED TAN	9,428		SE Primary Sedimentation Tanks
1987	6	56	E268-4-56	1	139	GEN CONST&MECH-PRIMARY SED TAN	14,934,054	Value changed from 1999 FAL	SE Primary Sedimentation Tanks
1987	6	56	E269	1	139	HEAT&VENT-PRIMARY SED TANKS	330,709		SE Primary Sedimentation Tanks
1987	11	56	E269	1	139	HEAT&VENT-PRIMARY SED TANKS	38,592		SE Primary Sedimentation Tanks
1987	4	56	E270	1	139	PLUMBING-PRIMARY SED TANKS	108,242		SE Primary Sedimentation Tanks
1987	6	56	E271	1	139	ELECTRIC- PRIMARY SED TANKS	1,356,350		SE Primary Sedimentation Tanks
1987	11	56	E271	1	139	ELECTRIC- PRIMARY SED TANKS	9,709		SE Primary Sedimentation Tanks
1986	2	56	E272	1	141	GEN CONST SCUM CONCENT FACIL	2,238,902		SE Scum Concentration Facility
1986	12	56	E273	1	141	HEAT&VENT-SCUM CONCENT FACILIT	0		SE Scum Concentration Facility
1986	6	56	E274	1	141	PLUMBING - SCUM CONCENT FACILI	0		SE Scum Concentration Facility
1986	9	56	E275	1	141	ELECTRIC-SCUM CONCENTRATION FA	0		SE Scum Concentration Facility
1987	11	56	E276	1	135	GEN CONST&MECH-EFFLUENT PUMP S	25,410		SE Effluent PS
1987	6	56	E276	1	135	GEN CONST-&MECH-EFFLUENT PUMP	8,558,549		SE Effluent PS
1987	4	56	E277	1	135	HEAT&VENT-EFFLUENT PUMPING STA	465,402		SE Effluent PS
1986	4	56	E278	1	135	PLUMB - EFFLUENT PUMPING STAT	92,634		SE Effluent PS
1987	6	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	1,054,058	Value changed from 1999 FAL	SE Effluent PS
1988	6	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	41,081		SE Effluent PS
1988	8	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	9,182		SE Effluent PS
1987	6	56	E280	1	127	GEN CONST&MECH-ADMINISTRATION	2,429,690		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	1	56	E280	1	126	GEN CONST&MECH-ADMINISTRATION	46,229		SE Main PS
1987	6	56	E281	1	138	HEAT&VENT,&FUME HOOD BLOWER	0	Retired 2011	SE Site
1987	12	56	E281	1	138	HEAT&VENT,FUME HOOD BLOWER	0	Retired 2011	SE Site
1986	9	56	E282	1	127	PLUMBING - ADMINISTRATION BLDG	174,876		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1987	6	56	E283	1	126	ELECTRIC - ADMINISTRATION BLDG	672,951		SE Main PS
1988	6	56	E283	1	127	ELECTRIC - ADMINISTRATION BLDG	68,962		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	12	56	E283	1	127	ELECTRIC - ADMINISTRATION BLDG	17,482		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs

1987	6	56	E284	1	138	COMPUTER MONITOR & CONTROL SYS	0	This item does not appear in the 2002 FAL.	SE Site
1987	11	56	E284	1	138	COMPUTER MONITOR & CONTROL SYS	0	This item does not appear in the 2002 FAL.	SE Site
1987	6	56	E290	1	131	GEN CONST-WAREHOUSE & STORAGE	679,228		SE Storage Bldg.
1988	3	56	E290	1	131	GEN CONST-WAREHOUSE & STORAGE	7,822		SE Storage Bldg.
1987	6	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	240,511		SE Storage Bldg.
1988	6	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	18,369		SE Storage Bldg.
1988	10	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	6,148		SE Storage Bldg.
1989	6	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	2,998,135		SE Site
1990	6	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	129,912		SE Site
1990	11	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	16,327		SE Site
1989	6	56	E295	1	138	HIGH MAST LIGHTING	163,152	Value changed from 1999 FAL	SE Site
1989	11	56	E295	1	138	HIGH MAST LIGHTING	4,823		SE Site
1987	6	56	E296	1	138	GEN CONST&MECH-MAINTENANCE FAC	3,143,165		SE Site
1988	1	56	E296	1	138	GEN CONST&MECH-MAINTENANCE FAC	84,424		SE Site
1989	6	56	E297	1	138	HEAT,VENT-MAINTENANCE FACILITI	273,600		SE Site
1987	8	56	E297	1	138	HEAT,VENT-MAINTENANCE FACILITY	6,612		SE Site
1987	6	56	E298	1	138	PLUMBING-MAINTENANCE FACILITIE	181,858		SE Site
1988	1	56	E298	1	138	PLUMBING-MAINTENANCE FACILITIE	41,618		SE Site
1987	6	56	E299	1	138	ELECTRIC-MAINTENANCE FACILITIE	601,062		SE Site
1988	6	56	E299	1	138	ELECTRICAL - MAINT. FACILITIES	30,519		SE Site
1989	4	56	E299	1	138	ELECTRICAL - MAINT. FACILITIES	14,067		SE Site
1987	4	56	E300	1	138	LOW LEVEL LIGHTING	65,473		SE Site
1981	6	56	SD-240-SE	1	138	SITE PREP FOR NEW PLANT	8,248,157		SE Site
1980	5	56	SD-240-SE	1	138	SITE PREP FOR NEW PLANT	15,690,895	Value changed from 1999 FAL	SE Site
1985	2	56	SD-255-SE	1	137	PLUMBING - COMPRESSOR BLDG.	275,780		SE Compressor Bldg.
1983	6	56	SD-258-SE	1	133	TWIN 7'X9'HIGH EFFLU CONDUIT	9,217,648		SE Main Effluent Conduit
1990	9	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
TOTAL SE PLANT ASSETS (WPAP)							137,133,389		
TOTAL SE PLANT ASSETS							204,062,425		
							204,062,425		

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
SPLTFNC - All Plants - Assets by Plant Function as of 6/30/2019 **P.N. 135647.0100** **February 07, 2020 3:17 p.m.** **Plant-9**

Plant Function Description	Plant Function ID Plant-2	NE Non-WPAP Cost Plant-3	NE WPAP Cost Plant-4	SW Non-WPAP Cost Plant-5	SW WPAP Cost Plant-6	SE Non-WPAP Cost Plant-7	SE WPAP Cost Plant-8	WPAP Fixed Asset Listing Total Cost Increased to Recognize Additional Engineering and Design Costs ("Soft Costs") NE-WPAP 0.848 (a)	SW-WPAP 0.809 (a)	SE-WPAP 0.821 (a)
NE Grit Chamber	66	8,837,561	0	0	0	0	0	0	0	0
NE Pumping Station	67	464,097	0	0	0	0	0	0	0	0
NE Services Building	68	289,605	0	0	0	0	0	0	0	0
NE Meters, Vaults and Connection Sewers	69	266,371	7,758,041	0	0	0	0	9,148,633	0	0
NE Settling & Aeration Tanks	70	13,149,371	0	0	0	0	0	0	0	0
NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg	71	2,698,751	13,560,998	0	0	0	0	15,991,743	0	0
NE Sludge Digestion System	72	5,272,360	28,216,749	0	0	0	0	33,274,468	0	0
NE Sludge Dewatering	73	2,350,232	0	0	0	0	0	0	0	0
NE Lagoons	74	0	0	0	0	0	0	0	0	0
NE Locker Bldg.	75	0	0	0	0	0	0	0	0	0
NE Chlorination Facilities	76	4,985,752	0	0	0	0	0	0	0	0
NE Admin. Bldg. (b)	77	8,704,995	13,962,557	0	0	0	0	16,465,279	0	0
NE Heating Plant	78	3,484,064	0	0	0	0	0	0	0	0
NE Electrical Substation	79	4,141,371	0	0	0	0	0	0	0	0
NE Sludge Incinerators	80	1,609,162	0	0	0	0	0	0	0	0
NE Site	81	30,180,808	16,295,928	0	0	0	0	19,216,896	0	0
NE Sludge Residue Fusion Plant	82	0	0	0	0	0	0	0	0	0
NE Aeration Tank No. 1	83	3,040,079	31,618,289	0	0	0	0	37,285,718	0	0
NE Prelim. Treatment Bldg.	84	860,258	33,610,447	0	0	0	0	39,634,961	0	0
NE Elect. Bldg.	85	589,603	938,023	0	0	0	0	1,106,159	0	0
NE Primary Sedimentation Tanks	86	26,942,347	43,244,890	0	0	0	0	50,996,333	0	0
NE Final Sedimentation Tanks	87	5,516,392	20,953,278	0	0	0	0	24,709,054	0	0
NE Effluent Conduit	88	0	1,877,876	0	0	0	0	2,214,476	0	0
NE Sludge Thickener Bldg.	89	4,275,996	33,796,082	0	0	0	0	39,853,870	0	0
NE Sludge Transfer Station, Proc. & Loading Term.	90	275,979	20,038,560	0	0	0	0	23,630,377	0	0
NE Barges	91	6,479,166	4,484,823	0	0	0	0	5,288,706	0	0
NE Engineering, Design	92	21,644,702	0	0	0	0	0	0	0	0
SW Screen, Blower, Prim. Sludge PS, Grit	93	0	0	2,819,325	3,622,983	0	0	0	4,478,347	0
SW Grease Burner	94	0	0	1,881,393	0	0	0	0	0	0
SW Settling Tanks	95	0	0	2,466,651	0	0	0	0	0	0
SW Sludge Handling & Machine Shop	96	0	0	7,599,142	8,863	0	0	0	10,956	0
SW Sludge Digestion	97	0	0	3,621,506	0	0	0	0	0	0
SW Belt Filter System	98	0	0	0	0	0	0	0	0	0
SW Chlorination Facilities	99	0	0	1,175,809	0	0	0	0	0	0
SW Office & Equip. Building	100	0	0	0	0	0	0	0	0	0
SW Sludge Disposal	101	0	0	0	0	0	0	0	0	0
SW Electrical Substation	102	0	0	2,694	37,351	0	0	0	46,169	0
SW Waste Gas Burner	103	0	0	0	0	0	0	0	0	0
SW Elevated Water Tank	104	0	0	95,617	301,439	0	0	0	372,607	0
SW Dewatering Facilities	105	0	0	0	0	0	0	0	0	0
SW General Improvements	106	0	0	7,161,612	85,803	0	0	0	106,061	0
SW Site	107	0	0	30,151,961	18,199,622	0	0	0	22,496,443	0
SW Compressor Bldg.	108	0	0	0	2,920,802	0	0	0	3,610,386	0
SW Aeration Tanks	109	0	0	676,633	12,831,828	0	0	0	15,861,345	0
SW Sedimentation Tanks	110	0	0	13,182,871	22,937,384	0	0	0	28,352,761	0
SW Electrical Bldg.	111	0	0	688,454	1,518,011	0	0	0	1,876,404	0
SW Oxygen Supply	112	0	0	3,513,891	11,035,428	0	0	0	13,640,826	0
SW Effluent PS	113	0	0	197,302	4,638,390	0	0	0	5,733,486	0
SW Admin. Bldg.	114	0	0	39,419,351	2,258,049	0	0	0	2,791,161	0
SW Shop & Maintenance Bldg.	115	0	0	214,703	2,650,056	0	0	0	3,275,718	0
SW Warehouse	116	0	0	961,394	1,554,864	0	0	0	1,921,958	0
SW Primary Sedimentation Tanks	117	0	0	13,893,200	8,712,494	0	0	0	10,769,461	0
SW Preliminary Treatment Building	118	0	0	4,409,645	18,594,577	0	0	0	22,984,644	0
SW Influent PS	119	0	0	5,154,143	4,946,279	0	0	0	6,114,066	0
SW Scum Concentration Bldg.	120	0	0	0	1,074,169	0	0	0	1,327,774	0
SW Sludge Thickener Bldg.	121	0	0	1,559,918	13,471,207	0	0	0	16,651,677	0
SW Sludge Digestion Facilities	122	0	0	3,667,654	36,102,364	0	0	0	44,625,913	0
SW Composting Facilities	123	0	0	1,127,172	0	0	0	0	0	0
SW Sludge Gas Facilities	124	0	0	9,242,547	8,412,442	0	0	0	10,398,569	0
SW Outfall Line	125	0	0	0	0	0	0	0	0	0
SE Main PS	126	0	0	0	0	239,159	719,180	0	0	875,981
SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs	127	0	0	0	0	12,728,196	2,691,010	0	0	3,277,722
SE Settling Tanks & Flocculation Channel	128	0	0	0	0	3,663,122	0	0	0	0
SE Grease Bldg.	129	0	0	0	0	0	0	0	0	0
SE Blower & Primary Sludge PS	130	0	0	0	0	0	0	0	0	0
SE Storage Bldg.	131	0	0	0	0	945,364	952,078	0	0	1,159,657
SE Sludge Force Main to SW Plant	132	0	0	0	0	4,852,158	0	0	0	0
SE Main Effluent Conduit	133	0	0	0	0	0	9,217,648	0	0	11,227,342

SE Influent PS	134	0	0	0	0	1,841,523	16,416,110			0		0	19,995,262	
SE Effluent PS	135	0	0	0	0	1,935,686	10,252,074			0		0	12,487,301	
SE Aeration Tanks	136	0	0	0	0	3,195,732	15,792,157			0		0	19,235,270	
SE Compressor Bldg.	137	0	0	0	0	0	7,883,964			0		0	9,602,879	
SE Site	138	0	0	0	0	25,874,324	33,449,513			0		0	40,742,403	
SE Primary Sedimentation Tanks	139	0	0	0	0	6,559,670	16,803,384			0		0	20,466,972	
SE Final Sedimentation Tanks	140	0	0	0	0	5,094,104	20,717,369			0		0	25,234,311	
SE Scum Concentration Facility	141	0	0	0	0	0	2,238,902			0		0	2,727,043	
		NE Non-WPAP	NE WPAP	SW Non-WPAP	SW WPAP	SE Non-WPAP	SE WPAP	Total	NE Non-WPAP	NE WPAP	SW Non-WPAP	SW WPAP	SE Non-WPAP	SE WPAP	
		156,059,024	270,356,541	154,884,587	175,914,405	66,929,036	137,133,389	961,276,983	156,059,024	318,816,673	154,884,587	217,446,732	66,929,036	167,032,143	
			426,415,565		330,798,992		204,062,425	961,276,983		474,875,697		372,331,319		233,961,179	1,081,168,196
										Soft Costs Equal Difference in Totals =			$1,081,168,196 -	$961,276,983	119,891,213

(a) These percentages are the ratios of Construction Costs to Total Costs from the PWD Reimbursement Status Report supplied by Joe Clare on 10/7/99 (BD-28a). The differences between Construction Costs and Total Costs are "soft costs" representing engineering, design, and administrative costs not included in the fixed asset listing.

(b) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (filed with PN 31416.0100 Miscellaneous Correspondence).

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SLOCID - All Locations - Total Assets by Location ID as of 6/30/2019	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-10

Reference: PWD 2019 Assets.xls

Depot	Location	Total
		$
0	Building & Related - Undetermined Location (a)	2,533,543,887
1	Building & Related - Belmont RWPS	5,177,464
2	Building & Related - Belmont FWPS	15,633,646
3	Building & Related - Belmont Filters	99,897,434
4		243,274
5	Building & Related - HS to Roxborough Expressway	0
6	Building & Related - Queen Lane RWPS	11,097,359
7	Building & Related - Queen Lane HS FWPS	24,109,126
8	Building & Related - Queen Lane Filters	97,661,699
11	Building & Related - Roxborough HS FWPS	3,410,949
12	Building & Related - Upper Roxborough Filters	4,587,878
13	Building & Related - Lower Roxborough Filters	57,752
14	Radios	7,298,174
15	Meters	25,887,942
17	Building & Related - Torressdale RWPS	5,063,798
18	Building & Related - Torresdale FWPS	11,777,661
19	Building & Related - Torresdale HS FWPS	4,629,288
20	Building & Related - Baxter Filters	147,794,941
22	Building & Related - Foxchase FWPS	5,873,963
23	Building & Related - Oak Lane FWPS	4,212,951
24	Building & Related - Oak Lane Reservoir	8,277,367
25	Building & Related - Lardner's Point FWPS	3,550,621
26	Building & Related - East Park FWPS	1,803,475
27	Building & Related - East Park Reservoir	4,241,489
28	Building & Related - Race Street HP PS	0
29	Building & Related - Fairhill HP PS	0
30	Building & Related - West Oak Lane FWPS	589,951
31	Building & Related - Load Control Center	4,349,283
32	Building & Related - Distribution	27,641,345
33	Building & Related - Automotive Garage	5,178,258
34	Building & Related - ARA Towers	8,041,927
35	Building & Related - Design Related	324,194
37		2,528,212
38		1,416,008
39	Building & Related - Fairmount Water Works	5,290,983
40	Building & Related - Meter Shop	2,000,199
41		855,164
42	Building & Related - Auto Repair Facility (Fox & Robts. Sts.)	960,935
43	Building & Related - Centralized Laboratory	20,018,584
44	Building & Related - Repair Shop	491,938
45	Building & Related - Building Maintenance	5,820,916
47	Building & Related - Central Stores	392,415
48		0
49	Building & Related - IBM Unit 29th & Cambria	529,038
51	Building & Related - Sewer Maintenance	20,034,113
54	Building & Related - NE Treatment	426,415,566
55	Building & Related - SW Treatment	330,798,992
56	Building & Related - SE Treatment	204,062,425
57	Building & Related - Sewer Maintenance Headquarters Bldg.	24,353,393
58	Building & Related - Frankford Grit	0
59		70,562,988
60	Building & Related - Bank Street PS	45,031
61	Building & Related - Central Schuykill PS	9,921,609
62	Building & Related - Neill Drive PS	1,560,247
63	Building & Related - Mingo Creek PS	8,901,165
65	Building & Related - Milnor Street PS	282,190
66	Building & Related - Ford Road PS	219,830
67	Building & Related - 42nd Street PS	2,149,312
68	Building & Related - Sludge Management	54,112,396
71	Building & Related - Broad & Boulevard PS	100,000
72	Building & Related - Passyunk & Vare PS	100,000
73	Building & Related - Industrial Waste	1,020,009
75	Building & Related - Rennard Street PS	431,824
76	Building & Related - Lockhart Street PS	169,529
77	Building & Related - Linden Avenue PS	293,591
80	Building & Related - Somerton Tanks	4,211,694
81		679,866
85	Building & Related - Chappel Hill PS	0
86	Building & Related - Chappel Hill & Belfry Dr. PS	398,764

91	Building & Related - Lardner's Point Sewer System	2,161,602
92		8,654,475
94		3,136,447
95		2,455,780
	LTCP Infrastructure	132,400,539
	Total	4,421,894,866

(a) Location ID 0 (zero) includes the following:

Building & Related - Undetermined Location	33,535,735
Water Mains	874,216,781
Sewer Mains	1,625,791,371
Total -	2,533,543,887
Check -	2,533,543,887

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Plant-11

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SFAL - Summary of Fixed Asset Listing Control Totals as of 6/30/2019	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Plant-12

Reference: PWD 2019 Assets.xls

FY 2019 Fixed Asset Listing

Depot	Location Description	Total $	Categories of Common A&G Plant
1,000	Water Mains	874,216,781	
2,000	Sewer Mains	1,625,791,371	
0	Building & Related - Undetermined Location and Admin	33,535,735	
1	Building & Related - Belmont RWPS	5,177,464	
2	Building & Related - Belmont FWPS	15,633,646	
3	Building & Related - Belmont Filters	99,897,434	
4		243,274	
5	Building & Related - HS to Roxborough Expressway	0	
6	Building & Related - Queen Lane RWPS	11,097,359	
7	Building & Related - Queen Lane HS FWPS	24,109,126	
8	Building & Related - Queen Lane Filters	97,661,699	
11	Building & Related - Roxborough HS FWPS	3,410,949	
12	Building & Related - Upper Roxborough Filters	4,587,878	
13	Building & Related - Lower Roxborough Filters	57,752	
14	Radios	7,298,174	
15	Meters	25,887,942	
17	Building & Related - Torressdale RWPS	5,063,798	
18	Building & Related - Torresdale FWPS	11,777,661	
19	Building & Related - Torresdale HS FWPS	4,629,288	
20	Building & Related - Baxter Filters	147,794,941	
22	Building & Related - Foxchase FWPS	5,873,963	
23	Building & Related - Oak Lane FWPS	4,212,951	
24	Building & Related - Oak Lane Reservoir	8,277,367	
25	Building & Related - Lardner's Point FWPS	3,550,621	
26	Building & Related - East Park FWPS	1,803,475	
27	Building & Related - East Park Reservoir	4,241,489	
28	Building & Related - Race Street HP PS		
29	Building & Related - Fairhill HP PS		
30	Building & Related - West Oak Lane FWPS	589,951	
31	Building & Related - Load Control Center	4,349,283	
32	Building & Related - Distribution	27,641,345	
33	Building & Related - Automotive Garage	5,178,258	
34	Building & Related - ARA Towers	8,041,927	
35	Building & Related - Design Related	324,194	
37	PC Equipment & Vehicles	2,528,212	
38	PC Equipment & Vehicles	1,416,008	
39	Building & Related - Fairmount Water Works	5,290,983	
40	Building & Related - Meter Shop	2,000,199	
41	Vehicles	855,164	
42	Building & Related - Auto Repair Facility (Fox & Robts. Sts.)	960,935	
43	Building & Related - Centralized Laboratory	20,018,584	
44	Building & Related - Repair Shop	491,938	
45	Building & Related - Building Maintenance	5,820,916	
47	Building & Related - Central Stores	392,415	
48			
49	Building & Related - IBM Unit 29th & Cambria	529,038	
51	Building & Related - Sewer Maintenance	20,034,113	
54	Building & Related - NE Treatment	426,415,566	
55	Building & Related - SW Treatment	330,798,992	
56	Building & Related - SE Treatment	204,062,425	
57	Building & Related - Sewer Maintenance Headquarters Bldg.	24,353,393	
58	Building & Related - Frankford Grit		
59		70,562,988	
60	Building & Related - Bank Street PS	45,031	
61	Building & Related - Central Schuykill PS	9,921,609	
62	Building & Related - Neill Drive PS	1,560,247	
63	Building & Related - Mingo Creek PS	8,901,165	
65	Building & Related - Milnor Street PS	282,190	
66	Building & Related - Ford Road PS	219,830	
67	Building & Related - 42nd Street PS	2,149,312	
68	Building & Related - Sludge Management	54,112,396	(25,308,030)
71	Building & Related - Broad & Boulevard PS	100,000	
72	Building & Related - Passyunk & Vare PS	100,000	
73	Building & Related - Industrial Waste	1,020,009	
75	Building & Related - Rennard Street PS	431,824	
76	Building & Related - Lockhart Street PS	169,529	
77	Building & Related - Linden Avenue PS	293,591	

Sewer Plant Including Sewer's Share of Common Plant Above and Land Not Included on This Page

Total Sewer Plant This Page		2,784,565,813
Plus NE WPAP Including "Soft Costs" (a)	Plant-9	318,816,673
Less NE WPAP Excluding "Soft Costs" (a)	Plant-9	(270,356,541)
Plus SW WPAP Including "Soft Costs" (a)	Plant-9	217,446,732
Less SW WPAP Excluding "Soft Costs" (a)	Plant-9	(175,914,405)
Plus SE WPAP Including "Soft Costs" (a)	Plant-9	167,032,143
Less SE WPAP Excluding "Soft Costs" (a)	Plant-9	(137,133,389)
Plus Sludge Management Including "Soft Costs" (a	Spltallo-3	35,604,902
Less Sludge Management Including "Soft Costs" (a	This Page	(54,112,396)
Sewer Plant Including "Soft Costs" (a)		2,885,949,531
Land Not Included Here But Included in Spltallo-5		
NE WPCP	Spltallo-2	913,000
SW WPCP	Spltallo-3	664,000
SE WPCP	Spltallo-4	151,000
Sewer Share of Water & Sewer A&G		36,764,178
General Plant Land To Be Included with Mains (Spltallo-5)	Spltallo-5	1,816,000
Subtotal Sewer Plant		2,926,257,710
Less Facilities Excluded as Not Used and Useful (See Footnotes (a) & (b) on Spltallo-2.)		(8,838,000)
Total Sewer Plant		2,917,419,710
Total Sewer Plant (Rounded)		2,917,420,000
Total Sewer Plant from Spltallo-5	Spltallo-5	2,947,154,000
Difference		29,734,000

(a) See footnote (a) on Plant-9 for an explanation of "soft costs."

80	Building & Related - Somerton Tanks	4,211,694				
81	Vehicles	679,866				
85	Building & Related - Chappel Hill PS					
86	Building & Related - Chappel Hill & Belfry Dr. PS	398,764				
91	Building & Related - Lardner's Point Sewer System	2,161,602				
92	Vehicles	8,654,475				
94	Vehicles	3,136,447				
95	Vehicles	2,455,780				
	LTCP Infrastructure	132,400,539				
	Total	4,421,894,866				
	Water and Common A&G Total	1,452,453,039	Comparable total from WCOS:	1,452,453,039	Difference =	0

SCOS19_21.XLS

SPLTALLO

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SPLTIndex - Index	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-1

Fixed Asset Listing as of date 6/30/2019

The "Spltallo" worksheet allocates sewer treatment plant investment and annual depreciation to cost functions. It also allocates wastewater system investment to individual contract customers.

Range	Description	Page Number	Table
SPLTIndex	Index	Spltallo-1	
NEInvest	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-2	
SWInvest	Southwest Water Pollution Control Treatment Plant Investment	Spltallo-3	
SEInvest	Southeast Water Pollution Control Treatment Plant Investment	Spltallo-4	
TotalInvest	Water Pollution Control Treatment Plant Investment	Spltallo-5	
NEALLO1	Allocation of Test Year Investment for the NE WPCP - Part 1	Spltallo-6	TABLE WW - 9A
NEALLO2	Allocation of Test Year Investment for the NE WPCP - Part 2	Spltallo-7	
NEALLO3	NE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-8	
SWALLO1	Allocation of Test Year Investment for the SW WPCP	Spltallo-9	TABLE WW - 9B
SWALLO2	SW WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-10	
SEALLO1	Allocation of Test Year Investment for the SE WPCP	Spltallo-11	TABLE WW - 9C
SEALLO2	SE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-12	
SWReAllo1	SW WPAP Sludge Thickener Allocated To NE and SE Plants - Part 1	Spltallo-13	
SWReAllo2	Summary of SW WPAP Plant Allocated To NE and SE Plants - Part	Spltallo-14	
SWReAllo3	SW WPAP Sludge Digestion Allocated To NE and SE Plants - Part 3	Spltallo-15	
SWReAllo4	SW WPAP Sludge Gas Facilities Allocated To NE and SE Plants - P	Spltallo-16	
SWReAllo5	SW WPAP Sludge Disposal (Centrifuges) Allocated To NE and SE P	Spltallo-17	
SWReAllo6	SW WPAP Composting Facilities Allocated To NE and SE Plants - P	Spltallo-18	
SWReAllo7	SW WPAP Dewatering Facilities Allocated To NE and SE Plants - P	Spltallo-19	
SWReAllo8	SW Non-WPAP Sludge Disposal Facilities Allocated To NE and SE	Spltallo-20	
SWReAllo9	SW Non-WPAP Digesters Allocated To NE and SE Plants - Part 9	Spltallo-21	
SWReAllo10	SW WPAP Prelim. Trtmt Bldg Allocated To NE and SE Plants - Part	Spltallo-22	
SWReAllo11	SW WPAP Grit & Ash Transfer Allocated To NE and SE Plants - Pa	Spltallo-23	
ALLOC	Allocation of TY Plant Investment	Spltallo-24	
INVSTCap1	WPCP Investment Per Unit Of Capacity	Spltallo-25	TABLE WH - 5
INVSTCap2	SW WPCP Treatment Plant Unit Costs	Spltallo-26	
INVSTCap3	Whlsl Units of Service for Treatment Plants	Spltallo-27	
TWNPALLO1	Abington Allocated Investment	Spltallo-28	TABLE WH - 6
TWNPALLO2	Cheltenham Allocated Investment	Spltallo-29	TABLE WH - 9
TWNPALLO3	Lower Merion Allocated Investment	Spltallo-30	TABLE WH - 11
TWNPALLO4	Lower Moreland Allocated Investment	Spltallo-31	TABLE WH - 12
TWNPALLO5	Lower Southhampton Allocated Investment	Spltallo-32	TABLE WH - 13
TWNPALLO6	Springfield (excl. Wyndmoor) Allocated Investment	Spltallo-33	TABLE WH - 14
CONVREV	Revisions to Conveyance Calculations	Spltallo-34	
TWNPALLO7	Sprngfield (Wyndmoor) Allocated Investment	Spltallo-35	TABLE WH - 15
TWNPALLO8	Bensalem Allocated Investment	Spltallo-36	TABLE WH - 7
TWNPALLO9	Bucks County Allocated Investment	Spltallo-37	TABLE WH - 8
TWNPALLO10	DELCORA Allocated Investment	Spltallo-38	TABLE WH - 10
TWNPALLO11	Upper Darby Allocated Investment	Spltallo-39	TABLE WH - 16
CONVALLO	Treatment Plant Conveyance Investment Alloc To Townships	Spltallo-40	
LANDALLO	Allocation Of Land Investment To Contract Customers	Spltallo-41	
NEPLTINV	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-42	
TWNSHP	Township Contributed Investment	Spltallo-43	
TYDepr	Test Year Annual Depreciation Expense	Spltallo-44	
TYInvest	Test Year Depreciable Plant Investment	Spltallo-45	
RTLInvest	Depreciable Plant Invest Alloc To Retail Service	Spltallo-46	

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NORTHEAST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2021

Line No.	Description	(1) Preliminary 6/30/2019 Plant in Service $1,000 Plant-9 Plant-12	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2019 Plant in Service $1,000 (1)+(2)	(4) Test Year CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 2	(5) Subtotal Columns (3)+(4) $1,000	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2021 Test Year Plant in Service $1,000
	WPCP (Non-Abatement)							
1	Frankford Grit Chamber	0	0	0	0	0	0	0
2	Plant Grit Chamber(a)	0	0	0	0	0	0	0
3	Pumping Station(a)	1,324	0	1,324	0	1,324	43	1,367
4	Settling and Aeration Tanks	45,608	0	45,608	0	45,608	1,486	47,094
5	Blower Bldg, Supernatant Tank Prim Sldge Hse & Scum Ejector Bldg	2,699	0	2,699	0	2,699	88	2,787
6	Sludge Digestion System	5,272	0	5,272	0	5,272	172	5,444
7	Lagoons	0	0	0	0	0	0	0
8	Sludge Dewatering	3,959	0	3,959	0	3,959	129	4,088
9	Centrifuge System (WO-79-2831)		0	0	0	0	0	0
10	Effluent Conduit	0	0	0	0	0	0	0
11	Chlorination Facilities	4,986	0	4,986	0	4,986	162	5,148
12	Aeration Tank No. 1	3,040	0	3,040	0	3,040	99	3,139
13	Sludge Thickener Building	4,276	0	4,276	0	4,276	139	4,415
14	Sludge Transfer Station	276	0	276	0	276	9	285
15	Subtotal	71,440	0	71,440	0	71,440	2,327	73,767
	Admin. & Gen. Facilities							
16	Admin. & Serv. Bldg.	8,995	0	8,995	0	8,995	293	9,288
17	Locker Bldg	0	0	0	0	0	0	0
18	Heating Plant	3,484	0	3,484	0	3,484	113	3,597
19	Electrical Substation	4,141	0	4,141	0	4,141	135	4,276
	Land & Site Preparation	Ref.B						
20	Land	913	0	913	0	913	30	943
21	Site(b)	26,547	0	26,547	0	26,547	865	27,412
22	Total Land & Site	27,460	0	27,460	0	27,460	895	28,355
23	Meter Vaults & Connecting Sewers	266	0	266	0	266	9	275
24	Engineering & Design	21,645	0	21,645	0	21,645	705	22,350
25	Subtotal A & G	65,991	0	65,991	0	65,991	2,150	68,141
26	Total WPCP (Non-WPAP)	137,431	0	137,431	0	137,431	4,477	141,908

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM "PLANT"

Line 49 Less Line 20 (Land not included in PLANT)			455,334
Plus Total from Footnote (a)			8,838
Plus Total from Footnote (b)			0
Subtotal			464,172
Check from PLANT	471,241,654	/1,000 =	471,242
Plus items included under "Collection - Building & Related" from SPLANT91.WK4, LINK_NE36 (FHL Interceptor and "Other Collection"), included under Collection System on Spltallo-5.	3,634,043	/1,000 =	3,634
Less Frankford Grit Chamber from Plant-12	0	/1,000 =	0
Total			467,806
Check from Plant Worksheet: Plant-9	474,875,697	/1,000 =	474,876

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB (Abatement):		
Projected Plant Additions	0	
		0
Weighted Test Year Additions Plus CI and CFB (Non-Abatement):		0
Projected Plant Additions		
		0
Total		0

	WPAP							
27	Engr, Serv, Design, Testing	0	0	0	0	0	0	0	
28	Electrical Building	1,106	0	1,106	0	1,106	36	1,142	x
29	Aeration Tank #1	37,286	0	37,286	0	37,286	1,215	38,501	x
30	Site	19,217	0	19,217	0	19,217	626	19,843	x
31	Sludge Digestion	33,274	0	33,274	0	33,274	1,084	34,358	x
32	Sludge Residue Fusion Plant(a)	0	0	0	0	0	0	0	
33	New Preliminary Trtmt Bldg	39,635	0	39,635	0	39,635	1,291	40,926	x
34	Chlorination	0	0	0	0	0	0	0	x
35	Primary Sedimentation Tanks	50,996	0	50,996	0	50,996	1,661	52,657	x
36	New Scum Disposal Facilities		0	0	0	0	0	0	
37	New Sludge Thickener Building	39,854	0	39,854	0	39,854	1,298	41,152	x
38	New Final Sedimentation Tanks	24,709	0	24,709	0	24,709	805	25,514	x
39	Blower Building	15,992	0	15,992	0	15,992	521	16,513	x
40	Meter Vaults & Connecting Sewers	9,149	0	9,149	0	9,149	298	9,447	x
41	New Aeration Tanks		0	0	0	0	0	0	
42	New Centrifuge Building		0	0	0	0	0	0	
43	Effluent Conduit	2,214	0	2,214	0	2,214	72	2,286	x
44	Sludge Transfer Station	23,630	0	23,630	0	23,630	770	24,400	x
45	Sludge Cake Staging Pad		0	0	0	0	0	0	
46	Loading Terminal/Barges	5,289	0	5,289	0	5,289	172	5,461	x
47	Administration Bldg. (c)	16,465	0	16,465	0	16,465	537	17,002	x
48	Total WPAP	318,816	0	318,816	0	318,816	10,386	329,202	
49	TOTAL PLANT	456,247	0	456,247	0	456,247	14,863	471,110	
			0						

(a) Facilities excluded as not used or useful include:

	$
Plant Grit Chamber - 6/30/2019	8,838
Plant Grit Chamber - 6/30/89	0
Plant Grit Chamber	8,838
Pumping Station	
Sludge Residue Fusion Plant	
	8,838

(b) Truck Maintenance Garage excluded as not used or useful:

$

(c) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (filed with PN 31416.0100 Miscellaneous Correspondence).

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References:

SOUTHWEST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2021

Line No.	Description	(1) Preliminary 6/30/2019 Plant in Service $1,000 Plant-9	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2019 Plant in Service $1,000 (1)+(2)	(4) Test Yr CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 2	(5) Subtotal Columns $1,000 (3)+(4)	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2021 Test Year Plant in Service $1,000	(4) Test Yr CWIP Plus Wt. Add'ns to Plant in Service Less CI & FB $1,000 BOX 2
	WPCP (Non-Abatement)	BOX 4							
1	Screen, Blower, Primary Sludge Pump Sta. & Grit Chambers	12,383	0	12,383	0	12,383	403	12,786	0
2	Grease Burner	1,881	0	1,881	0	1,881	61	1,942	0
3	Sedimentation Tanks	29,543	0	29,543	0	29,543	962	30,505	0
4	Sludge Handling & Machine Shop	7,599	0	7,599	0	7,599	248	7,847	0
5	Sludge Digestion	7,289	0	7,289	0	7,289	237	7,526	0
6	Sludge Disposal	0	0	0	0	0	0	0	0
7	Belt Filter System	0	0	0	0	0	0	0	0
8	Centrifuge System		0	0	0	0	0	0	0
9	Outfall Line (SD-152-SW)		0	0	0	0	0	0	0
10	Chlorination Facilities	1,176	0	1,176	0	1,176	38	1,214	0
11	Dewatering Facilities	0	0	0	0	0	0	0	0
12	Aeration Tanks	677	0	677	0	677	22	699	0
13	Oxygen Supply	3,514	0	3,514	0	3,514	114	3,628	0
14	Effluent Pump Station	197	0	197	0	197	6	203	0
15	Sludge Thickener Building	1,560	0	1,560	0	1,560	51	1,611	0
16	Composting Facilities	1,127	0	1,127	0	1,127	37	1,164	0
17	Sludge Gas Facilities	9,243	0	9,243	0	9,243	301	9,544	0
18	Subtotal	76,189	0	76,189	0	76,189	2,480	78,669	0
	Admin. & Gen. Facilities								
19	Office & Gen. Facilities	0	0	0	0	0	0	0	0
20	Electrical Substation	691	0	691	0	691	23	714	0
21	Elevated Water Tank	96	0	96	0	96	3	99	0
22	General Improvements	46,581	0	46,581	0	46,581	1,517	48,098	0
	Land & Site Preparation	Ref. B							
23	Land	664	0	664	0	664	22	686	0
24	Site	30,152	0	30,152	0	30,152	982	31,134	0
25	Total Land & Site	30,816	0	30,816	0	30,816	1,004	31,820	0
26	Shop & Maintenance Building	215	0	215	0	215	9	224	
27	Warehouse	961	0	961	0	961	31	992	
28	Subtotal A & G	79,360	0	79,360	0	79,360	2,587	81,947	0
29	Total WPCP (Non-WPAP)	155,549	0	155,549	0	155,549	5,067	160,616	0
	WPAP								
30	Influent Pumping Station	6,114	0	6,114	0	6,114	199	6,313	0
31	Preliminary Treatment Bldg	27,463	0	27,463	0	27,463	895	28,358	0
32	Primary Sedimentation Tanks	10,769	0	10,769	0	10,769	351	11,120	0
33	Aeration Tanks	15,861	0	15,861	0	15,861	517	16,378	0
34	Oxygen Supply	13,641	0	13,641	0	13,641	444	14,085	0
35	Compressor Bldg	3,610	0	3,610	0	3,610	118	3,728	0
36	Final Tanks	28,353	0	28,353	0	28,353	922	29,275	0
37	Elevated Water Tank	373	0	373	0	373	12	385	0
38	Scum Concentration Bldg	1,328	0	1,328	0	1,328	43	1,371	0
39	Sludge Thickener Bldg	16,652	0	16,652	0	16,652	542	17,194	0
40	Sludge Digestion Facilities	44,637	0	44,637	0	44,637	1,454	46,091	0
41	Composting Facility	0	0	0	0	0	0	0	0
42	Effluent Pumping Station	5,733	0	5,733	0	5,733	187	5,920	0

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM "PLANT"

Line 56 Less Line 23 (Land not includingass in PLANT)			407,937
Less Depot 68 included in line 56 (from BOX 4)			(35,605)
Subtotal			372,332
Less Mag. Flow Meter			0
Total			372,332
Check from Plant Worksheet:	Plant-9	372,331,319 /1,000 =	372,331

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB:		
Projected Plant Additions		0
	Check	0
Weighted Test Year Additions Plus CI and CFB (Non-Abatement):		
Projected Plant Additions		0
		0
GRAND TOTAL.....	Check	0
	Total	0

BOX 4 - COMPOSTING FACILITIES, SLUDGE DEWATERING, NEW CENTRIFUGES

Investment related to composting operations includes:	Per Fixed Asset Listing $	Fixed Asset Listing Times Plant-9 1/0.809 To Include ""Soft Costs" (a) $
Investment at Depot 68	0	0
Subtotal	0	0
Investment related to sludge dewatering includes:		
Investment at Depot 68	19,391,591	23,969,828
Subtotal	19,391,591	23,969,828
Investment related to new centrifuges includes:		
Investment at Depot 68	9,412,775	11,635,074
Subtotal	9,412,775	11,635,074
Total Depot 68 Increased to Include "Soft Costs"	28,804,366	35,604,902

(a) This factor is 1 divided by the ratio of Construction Costs to Total Costs from the PWD Reimbursement Status Report supplied by Joe Clare on 10/7/99 (BD-28a). The difference between Construction Cost and Total Cost is "soft cost" representing engineering, design, and administrative costs not included in the fixed asset listing.

43	Outfall Conduit	0	0	0	0	0	0	0	0
44	Sludge Gas Facilities	10,399	0	10,399	0	10,399	339	10,738	0
45	Computer System		0	0	0	0	0	0	0
46	Admin. Bldg & General Improvements	2,897	0	2,897	0	2,897	94	2,991	0
47	Shop & Maintenance Bldg	3,276	0	3,276	0	3,276	107	3,383	0
48	Warehouse	1,922	0	1,922	0	1,922	63	1,985	0
49	Electrical Bldg	1,923	0	1,923	0	1,923	63	1,986	0
50	Site	22,496	0	22,496	0	22,496	733	23,229	0
51	New Centrifuges	11,635	0	11,635	0	11,635	379	12,014	0
52	Eng. Serv., Design, Testing		0	0	0	0	0	0	0
53	Dewatering Facilities	23,970	0	23,970	0	23,970	781	24,751	0
54	Grit & Ash Transfer Station		0	0	0	0	0	0	0
55	Total WPAP	253,052	0	253,052	0	253,052	8,243	261,295	0
56	TOTAL PLANT	408,601	0	408,601	0	408,601	13,310	421,911	0
	TEST VALUE		0						

BOX 3 - USED IN Spltallo-13

A&G Facilities	$ [Col. (7)]		
Sludge Thickener Bldg	17,194		
Total WPAP	261,295		
A&G:			
Computer System	0		
Administration Bldg	2,991		
Shop & Maint. Bldg	3,383		
Warehouse	1,985		
Electrical Bldg	1,986		
Site	23,229	TOTAL WPAP LESS A&G	227,721
Eng Serv, etc.	0	SLUDGE THICKENER BLDG	
		AS A % OF TOTAL WPAP	
Subtotal A&G	33,574	LESS A&G	7.5505%

==> A&G RELATED TO SLUDGE THICKENER BLDG:

7.55% x 33,574 = 2,535

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SEInvest - Southeast Water Pollution Control Treatment Pl P.N. 135647.0100 February 07, 2020 3:17 p.m. Spltallo-4
References:

SOUTHEAST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2021

Line No.	Description	(1) Preliminary 6/30/2019 Plant in Service $1,000 Plant-9	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2019 Plant in Service $1,000 (1)+(2)	(4) Test Yr CWIP Plus Wt. Add'ns to Plant in Service $1,000	(5) Subtotal Columns $1,000 (3)+(4)	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2021 Test Year Plant in Service $1,000
	WPCP (Non-Abatement)							
1	Main Pumping Station	2,081	0	2,081	0	2,081	68	2,149
2	Screen, Admin., Garage, Machine Shop, Grit Chmbrs & Collecting Channel	12,728	0	12,728	0	12,728	415	13,143
3	Settling tanks & Floc. Channel	15,317	0	15,317	0	15,317	499	15,816
4	Grease Building	0	0	0	0	0	0	0
5	Blower & Prim. Sludge Pump. Sta.	0	0	0	0	0	0	0
6	Sludge Force Main	4,852	0	4,852	0	4,852	158	5,010
7	Main Effluent Conduit	1,936	0	1,936	0	1,936	63	1,999
8	Compressor Building	0	0	0	0	0	0	0
9	Subtotal	36,914	0	36,914	0	36,914	1,203	38,117
	Admin. & Gen. Facilities							
10	Electrical Substation			0	0	0	0	0
11	Storage Building	945	0	945	0	945	31	976
	Land & Site Preparation	Ref. B						
12	Land	151	0	151	0	151	5	156
13	Site	25,874	0	25,874	0	25,874	843	26,717
14	Total Land & Site	26,025	0	26,025	0	26,025	848	26,873
15	Other	0	0	0	0	0	(1)	(1)
16	Subtotal A & G	26,970	0	26,970	0	26,970	878	27,848
17	Total WPCP (Non WPAP)	63,884	0	63,884	0	63,884	2,081	65,965
	WPAP							
18	Scum Concentration Facilities	2,727	0	2,727	0	2,727	89	2,816
19	Influent Pump Station and Screen & Grit Chamber	24,149	0	24,149	0	24,149	787	24,936
20	Effluent Conduit	11,227	0	11,227	0	11,227	366	11,593
21	Compressor Bldg	9,603	0	9,603	0	9,603	313	9,916
22	Effluent Pump Station	12,487	0	12,487	0	12,487	407	12,894
23	Sludge Handling Facilities	0	0	0	0	0	0	0
24	Sludge Force Main	1,882	0	1,882	0	1,882	61	1,943
25	Primary Sedimentation	20,467	0	20,467	0	20,467	667	21,134
26	Aeration	22,431	0	22,431	0	22,431	731	23,162
27	Final Sedimentation	25,234	0	25,234	0	25,234	822	26,056
28	Site	40,742	0	40,742	0	40,742	1,325	42,067
29	Computer Systems		0	0	0	0	0	0
30	Switchgear		0	0	0	0	0	0
31	Storage Building	1,160	0	1,160	0	1,160	38	1,198
32	Admin. Complex		0	0	0	0	0	0
33	Yard		0	0	0	0	0	0
34	Grease Bldg	0	0	0	0	0	0	0
35	Eng. Serv., Design, Testing		0	0	0	0	0	0
36	Total WPAP	172,109	0	172,109	0	172,109	5,606	177,715
37	TOTAL PLANT	235,993	0	235,993	0	235,993	7,687	243,680
			0					
	TOTAL CAP INTEREST ALLOCATED TO NE, SW, SE		0					
			0					

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM Pltdes WORKSHEET

Line 37 Less Line 12 (Land not includingass in Pltdes worksheet)				235,842
Plus Collection Related				
Subtotal				235,842
Less Mains included (a)		1,882,052	/1,000 =	(1,882)
Total				233,960
Check from Plant Worksheet:	Plant-9	233,961,179	/1,000 =	233,961

(a) Work Order SD-435-SE is listed under sewer Mains in Fixed Asset listing. This project has been included under the SE Plant data here, and removed from the total value of sewer mains on page SPLTALLO5 of this file.

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB:		
Projected CWIP - WPAP		0
Projected CWIP - NON - WPAP		0
		0
	Check	

References: A Spltallo-2, Spltallo-3, and Spltallo-4

FY 2021 TEST YEAR PLANT IN SERVICE

Line No.	Description	(1) (b) Total PIS @ 6/30/2019 $1,000 Ref. A BOX 1 & 4	(2) Test Yr CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 3	(3) FY 2021 Test Year Plant in Service $1,000 (1) + (2)	(4) Allocated Commn A&G Allocate On Col. 3 Excluding Mains $1,000 BOX 4 & Plant-12	(5) FY 2021 Test Year Plant in Service Including Gen. Plant $1,000 (3) + (4)
1	Collection System - Mains (a)	1,643,943	0	1,643,943	1,816	1,645,759
2	- FHL Interceptor	3,634		3,634		3,634
3	Pumping	27,755		27,755	904	28,659
4	LTCP Investment	132,401	0	132,401		132,401
	Treatment					
	Non - WPAP					
5	Northeast (NE)	137,431	0	137,431	4,477	141,908
6	Southeast (SE)	63,884	0	63,884	2,081	65,965
7	Southwest (SW)	155,549	0	155,549	5,067	160,616
8	Frankford Grit Chamber	0		0	0	0
9	Total Non - WPAP	356,864	0	356,864	11,625	368,489
	WPAP					
10	Northeast (NE)	318,816	0	318,816	10,386	329,202
11	Southeast (SE)	172,109	0	172,109	5,606	177,715
12	Southwest (SW)	253,052	0	253,052	8,243	261,295
13	Total WPAP	743,977	0	743,977	24,235	768,212
14	Total Treatment	1,100,841	0	1,100,841	35,860	1,136,701
15	Subtotal All Above	2,908,574	0	2,908,574	38,580	2,947,154
16	Common A&G Investment Plant-12 & below	38,580		38,580		
17	Total Plant	2,947,154	0	2,947,154	38,580	2,947,154

(a) Includes collection system building and related
(b) Includes land

BOX 1 - COLLECTIONS	$
Plant in Service at 6/30/2019	
Collections - Mains	
Sewer Maint. (Plant-10)	20,034,113
Other Collection	0
Mains, $1,625,791,371, Less Mains Included with SE WPCP, $1,882,052, see Spltallo-4	1,623,909,319
Subtotal	1,643,943,432
FHL Interceptor (Spltallo-2)	3,634,043
Pumping	27,754,703

BOX 3a - Collection System CWIP

Weighted Test Year Additions Plus CI and CFB:

PC-30 Construction (Sewer Portion Only)	0
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
	0

BOX 3b - Collection System CWIP

Weighted Test Year Additions Plus CI and CFB:

xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
	0

BOX 4 - Land not included in previous files/worksheets

Description	Cost $1,000
Sewer Maintenance Yard	19
Frankford Grit	14
Central Schuylkill PS	10
Neill Dr PS	1
Ford Rd PS	1
42nd St PS	1
Mill Cr Flood Control	142
Frankford Cr Flood Control	477
2925 E. Castor Ave	703
NE Corner Fox & Roberts	448
**********	
**********	
**********	
**********	
Total - Include with General Plant, Mains	1,816

Table_WW-9A

ALLOCATION OF TEST YEAR INVESTMENT FOR THE NORTHEAST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2021

			(1)	(2)	(3)	(4)	(5)	(6)	
					Retail, Abington, Bensalem, Bucks Cty W&SA, Cheltenham, Lower Moreland, and Lower Southampton				
Line No.	Description	Col. (1) Reference	Total Investment	Retail, Abington, Bensalem, Bucks Cty W&SA, Lower Moreland, and Lower Southampton Capacity	Volume	Capacity	Suspended Solids	BOD	Basis of Allocation
			$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Preliminary Treatment Facilities	Spltallo-2, Ln 2	0			0			100% Capacity
2	Primary Sedimentation Basins	Spltallo-7	5,523		5,523				100% Volume
3	Pumping Station	Spltallo-2, Ln 3	1,367			1,367			100% Capacity
4	Aeration Facilities	Spltallo-7	18,250					18,250	100% BOD
5	Primary Sludge Pumps	Spltallo-7	1,225				1,225		100% SS
6	Scum Ejectors	Spltallo-7	192				192		100% SS
7	Effluent Conduit	Spltallo-2, Ln 10	0			0			100% Capacity
8	Final Sedimentation Basins	Spltallo-7	9,605		9,605				100% Volume
9	Recirculation Pumps	Spltallo-7	1,729		1,729				100% Volume
10	Digesters	Spltallo-7	18,801				14,101	4,700	75% SS - 25% BOD
11	Sludge Dewatering	Spltallo-2,Ln 8 & Spltallo-20,Ln 171	4,088				3,066	1,022	75% SS - 25% BOD
12	Centrifuge System	Spltallo-2, Ln 9	0				0	0	75% SS - 25% BOD
13	Sludge Lagoons	Spltallo-2, Ln 7	0				0	0	75% SS - 25% BOD
14	Frankford Grit Chamber	Spltallo-2, Ln 1	0			0			100% Capacity
15	Chlorination Facilities	Spltallo-2, Ln 11	5,148			5,148			100% Capacity
16	Aeration Tank No. 1	Spltallo-2, Ln 12	3,139					3,139	100% BOD
17	Sludge Thickener Building	Spltallo-2, Ln 13	4,415				2,208	2,207	50% SS - 50% BOD
18	Sludge Transfer Station	Spltallo-2, Ln 14	285				214	71	75% SS - 25% BOD
19	Subtotal All Above		73,767	0	16,857	6,515	21,006	29,389	
	Administrative and General Facilities								
20	Administrative and General Plant	Spltallo-2, Ln 25 - Ln 20	67,198						
21	Land	Spltallo-2, Ln 20	943						
22	Subtotal		68,141	1,897	17,621	7,323	18,303	22,997	Allocated based on TOTAL NE WPCP INVESTMENT
23	Total Non-Water Pollution Abatement Program Facilities		141,908	1,897	34,478	13,838	39,309	52,386	

	WATER POLLUTION ABATEMENT PROGRAM FACILITIES									
24	New Preliminary Treatment Building	Spltallo-2, Ln 33	40,926	10,232		30,694			100% Capacity	
25	Primary Sedimentation Tanks Modifications	Spltallo-2, Ln 35	52,657		52,657				100% Volume	
26	Blower Building	Spltallo-2, Ln 39	16,513					16,513	100% BOD	
27	Aeration Tank No. 1	Spltallo-2, Ln 29	38,501					38,501	100% BOD	
28	New Aeration Tanks	Spltallo-2, Ln 41	0					0	100% BOD	
29	Chlorination Facilities	Spltallo-2, Ln 34	0			0			100% Capacity	
30	New Scum Disposal Facilities	Spltallo-2, Ln 36	0				0		100% SS	
31	New Sludge Thickener Building	Spltallo-2, Ln 37	41,152				20,576	20,576	50% SS - 50% BOD	
32	Effluent Conduits	Spltallo-2, Ln 43	2,286			2,286			100% Capacity	
33	New Final Sedimentation Tanks	Spltallo-2, Ln 38	25,514		25,514				100% Volume	
34	Sludge Digestion System Modifications	Spltallo-2, Ln 31	34,358				25,769	8,589	75% SS - 25% BOD	
35	Sludge Residue Fusion Plant	Spltallo-2, Ln 32	0				0	0	75% SS - 25% BOD	
36	New Centrifuge Building	Spltallo-2, Ln 42	0				0	0	75% SS - 25% BOD	
37	Composting Facilities	Spltallo-18,Ln 119	0				0	0	75% SS - 25% BOD	
38	Sludge Dewatering	Spltallo-18,Ln 145	11,947				8,960	2,987	75% SS - 25% BOD	
39	Frankford High Level Interceptor	(a)	0			0			100% Capacity	(a) Included under Collection System on Spltallo-5.
40	Sludge Transfer Station	Spltallo-2, Ln 44	24,400				18,300	6,100	75% SS - 25% BOD	
41	Loading Terminal/Barges	Spltallo-2, Ln 46	5,461				4,096	1,365	75% SS - 25% BOD	
42	Sludge Cake Staging Pad	Spltallo-2, Ln 45	0				0	0	75% SS - 25% BOD	
43	Subtotal		293,715	10,232	78,171	32,980	77,701	94,631		
44	Admin. and General Facili	Spltallo-2,Ln48-[Spltallo-6,Lns 24-36+Lns 39-42]	47,434	1,321	12,266	5,098	12,741	16,008	Allocated based on TOTAL NE WPCP INVESTMENT	
45	Adjustment for Joint Use Facilities	Spltallo-18, Ln 123 & 149	1,761				1,321	440		
46	Total Water Pollution Abatement Program facilities		342,910	11,553	90,437	38,078	91,763	111,079		
47	TOTAL NORTHEAST WPC PLANT BOOK COST		484,818	13,450	124,915	51,916	131,072	163,465		
48	Less Federal Grants	Spltallo-8	227,215	7,867	60,106	25,358	60,779	73,105		
49	ADJUSTED TOTAL NORTHEAST WPC PLANT INVESTMENT		257,603	5,583	64,809	26,558	70,293	90,360		
			100.0%	2.2%	25.2%	10.3%	27.3%	35.1%		

File: SCOS19_21_ver3_rates.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
NEALLO2 - Allocation of Test Year Investment for the NE P.N. 135647.0100 February 07, 2020 3:17 p.m. Spltallo-7

BOX 1 - CALCULATION OF LINES 2, 4 THRU 6, 8 THRU 10

	EPA Cost Estimates $1,000 PN 12065.100, Co(?) 15.3	Spread TY Plant on EPA Estimates	Volume	TSS	BOD	
Primary Sedimentation Basins	1,150	5,523	5,523			
Aeration Facilities						
Aeration Basins	2,500					
Blower Bldg. (Blowers)	1,300					
Subtotal	3,800	18,250				18,250
Primary Sludge Pumps						
Primary Basins Sludge Pumps	190					
"B" Road Pump Station	65					
Subtotal	255	1,225			1,225	
Blower Bldg. (Scum Ejectors)	40	192			192	
Final Sedimentation Basins	2,000	9,605	9,605			
Recirculation Pumps						
Blower Bldg (Return Sludge Pmps)	260					
"C" Road Pump Station	100					
Subtotal	360	1,729	1,729			
Digesters						
Sludge Digestion	3,900					
Blower Bldg (Supernatant Tanks)	15					
Subtotal	3,915	18,801			14,101	4,700
TOTAL	11,520	55,325	16,857	0	15,518	22,950
			30%	0%	28%	41%
TEST YEAR PLANT	Spltallo-2					
Settling and Aeration Tanks	47,094					
Blower Bldg, Supernatant Tank Prim						
Sldge Hse & Scum Ejector Bldg	2,787					
Sludge Digestion System	5,444					
TOTAL	55,325	0				

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
NEALLO3 - NE WPCP Alloc of Federal Grants For WPAI	P.N. 135647.0100	February 07, 2020 3:17 p.m.					Spltallo-8

NORTHEAST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 70.3% Percent $1,000 (1)*70.3% (d)	(3) Retail,Abington, Bensalem, Bucks Cty W&SA, Lower Moreland, and Lower Southampton - Capacity $1,000	(4) Volume $1,000	(5) Capacity $1,000	(6) Suspended Solids $1,000	(7) BOD $1,000	Basis of Allocation		
						Retail, Abington, Bensalem, Bucks Cty W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES											
1	New Preliminary Treatment Building	Spltallo-2, Ln 33	39,635	27,863	6,966		20,897			100% Capacity	27,863	0
2	Primary Sedimentation Tanks Modifications	Spltallo-2, Ln 35	50,996	35,850		35,850				100% Volume	35,850	0
3	Blower Building	Spltallo-2, Ln 39	15,992	11,242					11,242	100% BOD	11,242	0
4	Aeration Tank No. 1	Spltallo-2, Ln 29	37,286	26,212					26,212	100% BOD	26,212	0
5	New Aeration Tanks	Spltallo-2, Ln 41	0	0					0	100% BOD	0	0
6	Chlorination Facilities	Spltallo-2, Ln 34	0	0			0			100% Capacity	0	0
7	New Scum Disposal Facilities	Spltallo-2, Ln 36	0	0				0		100% SS	0	0
8	New Sludge Thickener Building	Spltallo-2, Ln 37	39,854	28,017				14,009	14,008	50% SS - 50% BOD	28,017	0
9	Effluent Conduits	Spltallo-2, Ln 43	2,214	1,556			1,556			100% Capacity	1,556	0
10	New Final Sedimentation Tanks	Spltallo-2, Ln 38	24,709	17,370		17,370				100% Volume	17,370	0
11	Sludge Digestion System Modifications	Spltallo-2, Ln 31	33,274	23,392				17,544	5,848	75% SS - 25% BOD	23,392	0
12	Sludge Residue Fusion Plant	Spltallo-2, Ln 32	0	0				0	0	75% SS - 25% BOD	0	0
13	New Centrifuge Building	Spltallo-2, Ln 42	0	0				0	0	75% SS - 25% BOD	0	0
14	Composting Facilities(b)	Spltallo-18, Ln 107	0	0				0	0	75% SS - 25% BOD	0	0
15	Sludge Dewatering(b)	Spltallo-19, Ln 133	11,570	8,273				6,205	2,068	75% SS - 25% BOD	7,996	277
16	Frankford High Level Interceptor	Spltallo-6, Ln 39	0	0			0			100% Capacity	0	0
17	Sludge Transfer Station	Spltallo-2, Ln 44	23,630	16,612				12,459	4,153	75% SS - 25% BOD	16,612	0
18	Loading Terminal/Barges	Spltallo-2, Ln 46	5,289	3,718				2,789	929	75% SS - 25% BOD	3,718	0
19	Sludge Cake Staging Pad	Spltallo-2, Ln 45	0	0				0	0	75% SS - 25% BOD	0	0
20	Subtotal		284,449	200,105	6,966	53,220	22,453	53,006	64,460		199,828	277
21	Admin. and Gen'l Facilities											
22	Receiving 3% Federal Grants (e)	3%	9,514	285	10	76	32	75	92		285	0
23	All Other	(Spltallo-2,Lns 27,28,30,40,47) - Ln22	36,423	25,605	891	6,810	2,873	6,783	8,248		25,643	(38)
24	Total Admin. and Gen'l Facilities		45,937	25,890	901	6,886	2,905	6,858	8,340		25,928	(38)
25	Adjust. for Joint Use Facil	Spltallo-18, Ln 111 & Spltallo-19 Ln 137	1,706	1,220				915	305		1,184	36
26	Total Water Poll. Abatement Prog. Facilities		332,092	227,215	7,867	60,106	25,358	60,779	73,105		226,940	275
				227,215	Check							

(a) Excludes allocated pension & benefits, capitalized interest, and general plant.

(b) Includes allocated portion of SWWPCP facilities. 0 Inclulde CWIP

(c) Prior to adjustment for allocated portion of SWWPCP A&G.

(d) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.

(e) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (BD-28). Also filed with Support calcs for this study.

Table_WW-9B

ALLOCATION OF TEST YEAR INVESTMENT FOR THE SOUTHWEST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2021

Line No.	Description	Col. (1) Reference		(1) Total Investment $1,000	(2) Retail - Capacity $1,000	(3) Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), and Upper Darby Volume $1,000	(4) Capacity $1,000	(5) Suspended Solids $1,000	(6) BOD $1,000	Basis of Allocation	
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
1	Raw Wastewater Pumping Station	Spltallo-3	Ln 1	12,786	12,786					100% Capacity	
2	Sludge Digestion Facilities	Spltallo-21	Ln 195	5,076				3,704	1,372	75% SS - 25% BOD	
3	Sludge Disposal Facilities	Spltallo-20	Ln 173	0				0	0	75% SS - 25% BOD	
4	Scum Incineration	Spltallo-3	Ln 2	1,942				1,942		100% SS	SS/BOD 210
5	Outfall Line	Spltallo-3	Ln 9	0			0			100% Capacity	
6	Settling Tanks	Spltallo-3	Ln 3	30,505		30,505				100% Volume	
7	Sludge Handling	Spltallo-3	Ln 4	7,847				5,885	1,962	75% SS - 25% BOD	
8	Chlorination Facilities	Spltallo-3	Ln 10	1,214			1,214			100% Capacity	
9	Dewatering Facilities	Spltallo-3	Ln 11	0				0	0	75% SS - 25% BOD	
10	Aeration Tanks	Spltallo-3	Ln 12	699					699	100% BOD	
11	Oxygen Supply	Spltallo-3	Ln 13	3,628					3,628	100% BOD	
12	Effluent Pump Station	Spltallo-3	Ln 14	203			203			100% Capacity	
13	Sludge Thickener Building	Spltallo-3	Ln 15	1,611				806	805	50% SS - 50% BOD (a)	
14	Composting Facilities	Spltallo-3	Ln 16	1,164				873	291	75% SS - 25% BOD (a)	
15	Sludge Gas Facilities	Spltallo-3	Ln 17	9,544				7,158	2,386	75% SS - 25% BOD (a)	
16	Subtotal			76,219	12,786	30,505	1,417	20,368	11,143		
	Administrative and General Facilities										
17	Administrative and General Plant	Spltallo-3	Ln 28 - Ln 23	81,261							
18	Land	Spltallo-3	Ln 23	686							
19	Subtotal			81,947	6,109	22,676	10,098	21,857	21,207	Allocated based on TOTAL SW WPCP INVESTMENT	
20	Adjustment for Joint Use Facilities	Spltallo-20, Ln 176 & Spltallo-21 Ln 198		(2,553)				(2,022)	(531)		
21	Total Non-Water Pollution Abatement Program Facilities			155,613	18,895	53,181	11,515	40,203	31,819		

	WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
22	Influent Pumping Station	Spltallo-3	Ln 30	6,313	6,313					100% Capacity	
23	Preliminary Treatment Building	Spltallo-22	Ln 217	24,235			24,235			100% Capacity (a)	
24	Primary Sedimentation Tanks	Spltallo-3	Ln 32	11,120		11,120				100% Volume	
25	Aeration Tanks	Spltallo-3	Ln 33	16,378					16,378	100% BOD	SS/BOD 210
26	Oxygen Supply System	Spltallo-3	Ln 34	14,085					14,085	100% BOD	SS/BOD 210
27	Compressor Building	Spltallo-3	Ln 35	3,728					3,728	100% BOD	SS/BOD 210
28	Final Tanks	Spltallo-3	Ln 36	29,275		29,275				100% Volume	SS/BOD 210
29	Scum Concentration Building	Spltallo-3	Ln 38	1,371				1,371		100% SS	SS/BOD 210
30	Sludge Thickener Building	Spltallo-13	Ln 17	12,538				6,269	6,269	50% SS - 50% BOD (a)	
31	Sludge Digestion Facilities	Spltallo-15	Ln 43	31,084				22,680	8,404	75% SS - 25% BOD (a)	
32	Effluent Pumping Station	Spltallo-3	Ln 42	5,920			5,920			100% Capacity	
33	Outfall Conduit	Spltallo-3	Ln 43	0			0			100% Capacity	
34	New Centrifuges	Spltallo-17	Ln 95	8,102				5,912	2,190	75% SS - 25% BOD (a)	
35	Composting Facilities	Spltallo-18	Ln 121	0				0	0	75% SS - 25% BOD (a)	
36	Sludge Dewatering	Spltallo-19	Ln 147	8,607				6,455	2,152	75% SS - 25% BOD (a)	
37	Sludge Gas Facilities	Spltallo-16	Ln 69	7,241				5,284	1,957	75% SS - 25% BOD (a)	
38	Grit & Ash Transfer Station	Spltallo-23	Ln 243	0			0			100% Capacity (a)	
39	Subtotal			179,997	6,313	40,395	30,155	47,971	55,163		
40	Admin. and Gen'l. Facilities	See note (b)		33,959	2,531	9,397	4,185	9,058	8,788	Allocated based on TOTAL SW WPCP INVESTMENT	
41	Adjust. for Joint Use Facilities	See note (c)		(6,979)			(608)	(4,746)	(1,625)		
42	Total Water Pollution Abatement Program Facilities			206,977	8,844	49,792	33,732	52,283	62,326		
43	TOTAL SOUTHWEST WPC PLANT BOOK COST			362,590	27,739	102,973	45,247	92,486	94,145		
44	Less Federal Grants	Spltallo-10		143,052	5,187	33,190	24,354	36,123	44,198		
45	ADJUSTED TOTAL SOUTHWEST WPC PLANT INVESTMENT			219,538	22,552	69,783	20,893	56,363	49,947		
				219,538	Check						
				100.00%	10.3%	31.8%	9.5%	25.7%	22.8%		

(a) Reflects weighting due to joint use facilities.
(b) Spltallo-3, Lns 45..50, 52
(c) Spltallo-13, Lns 20,46,72,98,123,124,149,150
and Spltallo-22 & Spltallo-23, Lns 220 and 246

File: SCOS19_21_ver3_rates.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
SWALLO2 - SW WPCP Alloc of Federal Grants For WPA P.N. 135647.0100 February 07, 2020 3:17 p.m. Spltallo-10

SOUTHWEST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 71.5% Percent $1,000 (1)*71.5% (g)	(3) Retail - Capacity $1,000	(4) Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), and Upper Darby: Volume $1,000	(5) Capacity	(6) Suspended Solids	(7) BOD	Basis of Allocation	
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
1	Influent Pumping Station	Spltallo-3, Ln 30	6,114	4,372	4,372					100% Capacity	
2	Preliminary Treatment Building (b)	Spltallo-22 Ln203	23,470	16,781			16,781			100% Capacity (d)	
3	Primary Sedimentation Tanks	Spltallo-3, Ln 32	10,769	7,700		7,700				100% Volume	
4	Aeration Tanks	Spltallo-3, Ln 33	15,861	11,341					11,341	100% BOD	SS/BOD 210
5	Oxygen Supply System	Spltallo-3, Ln 34	13,641	9,753					9,753	100% BOD	SS/BOD 210
6	Compressor Building	Spltallo-3, Ln 35	3,610	2,581					2,581	100% BOD	SS/BOD 210
7	Final Tanks	Spltallo-3, Ln 36	28,353	20,272		20,272				100% Volume	SS/BOD 210
8	Scum Concentration Building	Spltallo-3, Ln 38	1,328	950				950		100% SS	SS/BOD 210
9	Sludge Thickener Building (b)	Spltallo-13,Ln 4	12,142	8,682				4,341	4,341	50% SS - 50% BOD (d)	
10	Sludge Digestion Facilities (b)	Spltallo-15,Ln 30	30,103	21,523				15,704	5,819	75% SS - 25% BOD (d)	
11	Effluent Pumping Station	Spltallo-3, Ln 42	5,733	4,099			4,099			100% Capacity	
12	Outfall Conduit	Spltallo-3, Ln 43	0	0			0			100% Capacity	
13	New Centrifuges (b)	Spltallo-17,Ln 82	7,847	5,610				4,093	1,517	75% SS - 25% BOD (d)	
14	Composting Facilities (b)	Spltallo-18,Ln 108	0	0				0	0	75% SS - 25% BOD (d)	
15	Sludge Dewatering (b)	Spltallo-19,Ln 134	8,334	5,958				4,469	1,489	75% SS - 25% BOD (d)	
16	Sludge Gas Facilities (b)	Spltallo-16, Ln 56	7,013	5,014				3,658	1,356	75% SS - 25% BOD (d)	
17	Grit and Ash Transfer Station (b)	Spltallo-23, Ln229	0	0			0			100% Capacity (d)	
18	Subtotal		174,318	124,636	4,372	27,972	20,880	33,215	38,197		
19	Admin. and Gen'l. Facilities (c)	See note (e)	32,514	23,248	815	5,218	3,895	6,195	7,125		
20	Adjustment for Joint Use Facilities	See note (f)	(6,759)	(4,832)			(421)	(3,287)	(1,124)		
21	Total Water Poll. Abatement Prog. Facilities		200,073	143,052	5,187	33,190	24,354	36,123	44,198		
				143,052	Check						

(a) Excludes allocated pension & benefits, capitalized interest and general plant.
(b) Includes allocated portion of SWWPCP facilities. 0 Includle CWIP
(c) Prior to adjustment for allocated portion of SWWPCP A&G.
(d) Reflects weighting due to joint use facilities.
(e) Spltallo-3, Lns 45..50, 52, Cols (1) + (4)
(f) Spltallo-13, Ln 8; Spltallo-15, Ln 34; Spltallo-16 Ln 60; Spltallo-17, Ln 86; Spltallo-18, Lns 111 & 112; Spltallo-19, Lns 137 & 138; Spltallo-22, Ln 208; and Spltallo-23, Ln 234
(g) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.

Table_WW-9C

ALLOCATION OF TEST YEAR INVESTMENT FOR THE SOUTHEAST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2021

BOX 1 - CHECK OF TOTAL TREATMENT PLANT

	Spltallo-2,3,4	Spltallo-6,9,11
	$	$
NE WPCP	471,110	484,818
SW WPCP	421,911	362,590
SE WPCP	243,680	289,293
Total	1,136,701	1,136,701
Error		0

Line No.	Description	Col. (1) Reference	(1) Total Investment $1,000	(2) Volume $1,000	(3) Capacity $1,000	(4) Suspended Solids $1,000	(5) BOD $1,000	Basis of Allocation	
			Retail and Springfield (Wyndmoor)						
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Main Pumping Station	Spltallo-4, Ln 1	2,149		2,149			100% Capacity	
2	Grit Chambers	Spltallo-4, Ln 2	13,143		13,143			100% Capacity	
3	Grease Building	Spltallo-4, Ln 4	0			0		100% SS	
4	Outfall Line	Spltallo-4, Ln 7	1,999		1,999			100% Capacity	
5	Sludge Digestion Facilities	Spltallo-21,Ln 194	2,450			1,941	509	75% SS - 25% BOD	
6	Sludge Disposal Facilities	Spltallo-20,Ln 172	0			0	0	75% SS - 25% BOD	
7	Settling Tanks & Floc. Channel	Spltallo-4, Ln 3	15,816	15,816				100% Volume	
8	Compressor Building	Spltallo-4, Ln 8	0				0	100% BOD	
9	Sludge Force Main	Spltallo-4, Ln 6	5,010			3,758	1,252	75% SS - 25% BOD	
10	Subtotal		40,567	15,816	17,291	5,699	1,761		
	Administrative and General Facilities								
11	Administrative and General Plant	Spltallo-4,Ln 16 - Spltallo-11, Ln 12	27,692						
12	Land	Spltallo-4, Ln 12	156						
13	Subtotal		27,848	8,339	9,375	4,395	5,739	Allocated based on TOTAL SE WPCP INVESTMENT	
14	Adjustment for Joint Use Facilities	Spltallo-20,Ln 176 & Spltallo-21, Ln 198	2,553			2,022	531		
15	Total Non-Water Pollution Abatement Program Facilities		70,968	24,155	26,666	12,116	8,031		
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
16	Influent Pump. Stat. and Screen & Grit Chamber	Spltallo-4, Ln 19	24,936		24,936			100% Capacity	
17	Primary Sedimentation Tanks	Spltallo-4, Ln 25	21,134	21,134				100% Volume	
18	Compressor Building	Spltallo-4, Ln 21	9,916				9,916	100% BOD	
19	Air Supply Facilities	Spltallo-4, Ln 26	23,162				23,162	100% BOD	
20	Final Sedimentation	Spltallo-4, Ln 27	26,056	26,056				100% Volume	
21	Effluent Pumping Station	Spltallo-4, Ln 22	12,894		12,894			100% Capacity	
22	Effluent Conduit	Spltallo-4, Ln 20	11,593		11,593			100% Capacity	
23	Scum Concentration Facilities	Spltallo-4, Ln 18	2,816			2,816		100% SS	
24	Grease Building	Spltallo-4, Ln 34	0			0		100% SS	
25	Sludge Handling Facilities	Spltallo-4, Ln 23	0			0	0	75% SS - 25% BOD	
26	Sludge Force Main	Spltallo-4, Ln 24	1,943			1,457	486	75% SS - 25% BOD	
24a	Preliminary Treatment Bldg.	Spltallo-22, Ln216	4,123		4,123			100% Capacity (a)	x
27	Sludge Thickeners	Spltallo-13, Ln 16	4,656			2,328	2,328	50% SS - 50% BOD (a)	
28	Sludge Digesters	Spltallo-15, Ln 42	15,007			11,888	3,119	75% SS - 25% BOD (a)	
29	Sludge Disposal Facilities	Spltallo-17, Ln 94	3,912			3,099	813	75% SS - 25% BOD (a)	
30	Composting Facilities	Spltallo-18, Ln 120	0			0	0	75% SS - 25% BOD (a)	
31	Sludge Dewatering	Spltallo-19, Ln 146	4,197			3,148	1,049	75% SS - 25% BOD (a)	
29a	Grit and Ash Transfer Station	Spltallo-23, Ln242	0		0			100% Capacity (a)	x
32	Sludge Gas Facilities	Spltallo-16, Ln 68	3,497			2,770	727	75% SS - 25% BOD (a)	
33	Subtotal		169,842	47,190	53,546	27,506	41,600		
34	Admin. and Gen'l. Facilities	Spltallo-4, Ln 36 - Spltallo-11, Lns 16...26	43,265	12,956	14,566	6,828	8,915	Allocated based on TOTAL SE WPCP INVESTMENT	
35	Adjustment for Joint Use Facilities	See note (b)	5,218		608	3,425	1,185		
36	Total Water Pollution Abatement Program Facilities		218,325	60,146	68,720	37,759	51,700		
37	TOTAL SOUTHEAST WPC PLANT BOOK COST		289,293	84,301	95,386	49,875	59,731		
38	Less Federal Grants	Spltallo-12	147,909	39,865	45,751	26,146	36,147		
39	ADJUSTED TOTAL SOUTHEAST WPC PLANT INVESTMENT		141,384	44,436	49,635	23,729	23,584		
			141,384 check						
	(a) Reflects weighting due to joint use facilities.		100.00%	31.4%	35.1%	16.8%	16.7%		

72, 98, 124, and 150, Spltallo-22 Ln 220 and Spltallo-23 Ln 246.

File: SCOS19_21_ver3_rates.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
SEALLO2 - SE WPCP Alloc of Federal Grants For WPAP P.N. 135647.0100 February 07, 2020 3:17 p.m. Spltallo-12

SOUTHEAST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 69.6% Percent $1,000 (1)*69.6% (g)	(3) Retail and Springfield (Wyndmoor) Volume $1,000	(4) Capacity $1,000	(5) Suspended Solids $1,000	(6) BOD $1,000	Basis of Allocation
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Influent Pump. Sta. & Screen & Grit Chamber	Spltallo-4, Ln 19	24,149	16,808		16,808			100% Capacity
2	Primary Sedimentation Tanks	Spltallo-4, Ln 25	20,467	14,245	14,245				100% Volume
3	Compressor Building	Spltallo-4, Ln 21	9,603	6,684				6,684	100% BOD
4	Air Supply Facilities	Spltallo-4, Ln 26	22,431	15,612				15,612	100% BOD
5	Final Sedimentation	Spltallo-4, Ln 27	25,234	17,563	17,563				100% Volume
6	Effluent Pumping Station	Spltallo-4, Ln 22	12,487	8,691		8,691			100% Capacity
7	Effluent Conduit	Spltallo-4, Ln 20	11,227	7,814		7,814			100% Capacity
8	Scum Concentration Facilities	Spltallo-4, Ln 18	2,727	1,898			1,898		100% SS
9	Grease Building	Spltallo-4, Ln 34	0	0			0		100% SS
10	Sludge Handling Facilities	Spltallo-4, Ln 23	0	0			0	0	75% SS - 25% BOD
11	Sludge Force Main	Spltallo-4, Ln 24	1,882	1,310			983	327	75% SS - 25% BOD
11a	Preliminary Treatment Bldg. (b)	Spltallo-22, Ln 202	3,993	2,855		2,855			100% Capacity (d)
12	Sludge Thickeners(b)	Spltallo-13, Ln 3	4,510	3,224			1,612	1,612	50% SS - 50% BOD (d)
13	Sludge Digesters(b)	Spltallo-15, Ln 29	14,534	10,392			8,232	2,160	75% SS - 25% BOD (d)
14	Sludge Disposal Facilities(b)	Spltallo-17, Ln 81	3,788	2,709			2,146	563	75% SS - 25% BOD (d)
15	Composting Facilities(b)	Spltallo-18, Ln 107	0	0			0	0	75% SS - 25% BOD (d)
16	Sludge Dewatering(b)	Spltallo-19, Ln 133	4,065	2,907			2,180	727	75% SS - 25% BOD (d)
16a	Grit and Ash Transfer Station	Spltallo-23, Ln 228	0	0		0			100% Capacity (d)
17	Sludge Gas Facilities(b)	Spltallo-16, Ln 55	3,386	2,421			1,918	503	75% SS - 25% BOD (d)
18	Subtotal		164,483	115,133	31,808	36,168	18,969	28,188	
19	Admin. and Gen'l. Facilities(c)	See note (e)	41,902	29,164	8,057	9,162	4,805	7,140	
20	Adjustment for Joint Use Facilities	See note (f)	5,053	3,612		421	2,372	819	
21	Total Water Poll. Abatement Prog. Facilities		211,438	147,909	39,865	45,751	26,146	36,147	
				147,909	Check				

(a) Excludes allocated pension & benefits, capitalized interest and general plant.
(b) Includes allocated portion of SWWPCP facilities.
(c) Prior to adjustment for allocated portion of SWWPCP A&G. 0 Includle CWIP
(d) Reflects weighting due to joint use facilities.
(e) Spltallo-4, Lns 28..33, 35
(f) Spltallo-13, Lns 8, 34, 60, 86, 112, and 138; Spltallo-22 Ln 208, and Spltallo-23 Ln 234
(g) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.

SOUTHWEST PLANT INVESTMENT
ALLOCATED TO NE AND SE PLANTS

Line No.	Facility Description		(1) Total Investment $1,000 (2) + (3)	(2) Suspended Solids $1,000	(3) BOD $1,000	Basis of Allocation
	WPAP Plant - Sludge Thickener Facilities					
1	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 39 17,194	8,597	8,597	50% SS - 50% BOD
2	Book Cost Subject to Federal Grant		Spltallo-3, Ln 39 16,652	8,326	8,326	50% SS - 50% BOD
3	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
4	Estimated Federal Grant		11,906	5,953	5,953	Ln 2 x Ln 3
5	Net Book Cost Before Alloc. A&G		5,288	2,644	2,644	Ln 1 - Ln 4
6	A&G Facilities(a)		Spltallo-3, BOX 3 2,535	1,268	1,267	50% SS - 50% BOD
			Spltallo-3, BOX 3	(Same calc. using data from col. (1) + (4))		
7	A&G subject to Federal Grant(b)		2,455	1,228	1,227	50% SS - 50% BOD
8	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
9	Estimated Federal Grant		1,755	878	877	Ln 7 x Ln 8
10	Net A&G Facilities (a)		780	390	390	Ln 6 - Ln 9
11	Net Book Cost including A&G (a)		6,068	3,034	3,034	Ln 5 + Ln 10
12	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
13		SEWPCP		27.08%	27.08%	BOX X
14		SWWPCP		72.92%	72.92%	BOX X
	Book Cost Before Allocated A&G					
15	Allocated to:	NEWPCP	0	0	0	Ln 1 x Ln 12
16		SEWPCP	4,656	2,328	2,328	Ln 1 x Ln 13
17		SWWPCP	12,538	6,269	6,269	Ln 1 x Ln 14
18	Total (a)		17,194	8,597	8,597	
	A&G					
19	Allocated to:	NEWPCP	0	0	0	Ln 6 x Ln 12
20		SEWPCP	686	343	343	Ln 6 x Ln 13
21		SWWPCP	1,849	925	924	Ln 6 x Ln 14
22	Total (a)		2,535	1,268	1,267	
	Federal Grants(excluding A&G)					
23	Allocated to:	NEWPCP	0	0	0	Ln 4 x Ln 12
24		SEWPCP	3,224	1,612	1,612	Ln 4 x Ln 13
25		SWWPCP	8,682	4,341	4,341	Ln 4 x Ln 14
26	Total (b)		11,906	5,953	5,953	

Book Cost Applicable to Federal Grants

		(4) Total Investment $1,000 (5)+(6)	(5) Suspended Solids $1,000	Col (2)	(6) BOD $1,000	Col (3)
Allocated to:	NEWPCP	0	0	Ln 2 x Ln 12	0	Ln 2 x Ln 12
	SEWPCP	4,510	2,255	Ln 2 x Ln 13	2,255	Ln 2 x Ln 13
	SWWPCP	12,142	6,071	Ln 2 x Ln 14	6,071	Ln 2 x Ln 14
Total (a)		16,652	8,326		8,326	

A&G Applicable to Federal Grants

Allocated to:	NEWPCP	0	0	Ln 7 x Ln 12	0	Ln 7 x Ln 12
	SEWPCP	665	333	Ln 7 x Ln 13	332	Ln 7 x Ln 13
	SWWPCP	1,790	895	Ln 7 x Ln 14	895	Ln 7 x Ln 14
Total (a)		2,455	1,228		1,227	

BOX X - BOD & SS ALLOCATIONS BETWEEN PLANTS

BD-28b, WESTON Letter Dated 9-1-93
Attachments
Facilities common to SE and SW only:

	Secondary lbs BD-28b	
SEWPCP	65,000	27.08%
SWWPCP	175,000	72.92%
Total	240,000	100.00%

Federal Grants - A&G

			Col (2)		Col (3)
Allocated to: NEWPCP	0	0	Ln 9 x Ln 12	0	Ln 9 x Ln 12
SEWPCP	475	238	Ln 9 x Ln 13	237	Ln 9 x Ln 13
SWWPCP	1,280	640	Ln 9 x Ln 14	640	Ln 9 x Ln 14
Total (b)	1,755	878		877	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

CHECK:	Total A & G	Fed Grant A & G	A & G CI & FB
WPAP Plant - Sludge Thickener Facilities	2,535	2,455	80
WPAP Plant - Sludge Digestion	6,795	6,581	214
WPAP Plant - Sludge Gas Facilities	1,583	1,533	50
WPAP Plant - Sludge Disposal Facilities (Centrifuges)	1,771	1,715	56
WPAP Plant - Composting Facilities	0	0	0
WPAP Plant - Dewatering Facilities	3,649	3,534	115
Non-WPAP Plant - Sludge Disposal Facilities (Disposal, Belt Filter, Centrifuge)	0	0	0
Non-WPAP Plant - Digesters	7,840	na	7,840
Total A&G Allocated to shared facilities	24,173	15,818	8,355
Total A&G	33,574		
Percent of total A&G	72.00%		
Total Non-A&G Facilities Shared Facilities	118,314		
Total Non-A&G Facilities	227,721		
	51.96%		

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
SWReAllo3 - SW WPAP Sludge Digestion Allocated To NE | P.N. 135647.0100 | February 07, 2020 3:17 p.m. | Spltallo-15

	WPAP Plant - Sludge Digestion		(1) Total Investment (2) +(3)	(2) Suspended Solids	(3) BOD	Basis of Allocation
			Spltallo-3, Ln 40			
27	Book Cost Before Allocated A&G (a)		46,091	34,568	11,523	75% SS - 25% BOD
			Spltallo-3, Ln 40			
28	Book Cost Subject to Federal Grant		44,637	33,478	11,159	75% SS - 25% BOD
29	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
30	Estimated Federal Grant (c)		31,915	23,936	7,979	Ln 28 x Ln 29
31	Net Book Cost Before Alloc. A&G		14,176	10,632	3,544	Ln 27 - Ln 30
			Spltallo-3,BOX 3	(Same calc using Sludge Digest. Fac.)		
32	A&G Facilities(a)		6,795	5,096	1,699	75% SS - 25% BOD
			Spltallo-3,BOX 3	(Same calc using Sludge Digest Fac, cols (1)+(4))		
33	A&G subject to Federal Grant(b)		6,581	4,936	1,645	75% SS - 25% BOD
34	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
35	Estimated Federal Grant		4,705	3,529	1,176	Ln 33 x Ln 34
36	Net A&G Facilities (a)		2,090	1,567	523	Ln 32 - Ln 35
37	Net Book Cost including ass. A&G (a)		16,266	12,199	4,067	Ln 31 + Ln 36
38	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
39		SEWPCP		34.39%	27.07%	BOX 3
40		SWWPCP		65.61%	72.93%	BOX 3
	Book Cost Before Allocated A&G					
41	Allocated to:	NEWPCP	0	0	0	Ln 27 x Ln 38
42		SEWPCP	15,007	11,888	3,119	Ln 27 x Ln 39
43		SWWPCP	31,084	22,680	8,404	Ln 27 x Ln 40
44	Total (a)		46,091	34,568	11,523	
	A&G					
45	Allocated to:	NEWPCP	0	0	0	Ln 32 x Ln 38
46		SEWPCP	2,213	1,753	460	Ln 32 x Ln 39
47		SWWPCP	4,582	3,343	1,239	Ln 32 x Ln 40
48	Total (a)		6,795	5,096	1,699	
	Federal Grants (excluding A&G)					
49	Allocated to:	NEWPCP	0	0	0	Ln 30 x Ln 38
50		SEWPCP	10,392	8,232	2,160	Ln 30 x Ln 39
51		SWWPCP	21,523	15,704	5,819	Ln 30 x Ln 40
52	Total (b)		31,915	23,936	7,979	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

		(4) Total Investment $1,000 (5)+(6)	(5) Suspended Solids $1,000		(6) BOD $1,000	
Book Cost Applicable to Federal Grants				Col (2)		Col (3)
Allocated to:	NEWPCP	0	0	Ln 28 x Ln 38	0	Ln 28 x Ln 38
	SEWPCP	14,534	11,513	Ln 28 x Ln 39	3,021	Ln 28 x Ln 39
	SWWPCP	30,103	21,965	Ln 28 x Ln 40	8,138	Ln 28 x Ln 40
Total (a)		44,637	33,478		11,159	
A&G Applicable to Federal Grants						
Allocated to:	NEWPCP	0	0	Ln 33 x Ln 38	0	Ln 33 x Ln 38
	SEWPCP	2,142	1,697	Ln 33 x Ln 39	445	Ln 33 x Ln 39
	SWWPCP	4,439	3,239	Ln 33 x Ln 40	1,200	Ln 33 x Ln 40
Total (a)		6,581	4,936		1,645	

BOX 3 - BOD & SS ALLOCATIONS BETWEEN PLANTS

REF: BD-28b, WESTON Letter Dated 9-1-93 -
Facilities common to all plants (Sludge Dewatering & Composting):

	SS BD-28b	BOD BD-28b
NEWPCP	0.4827	0.4827
SEWPCP	0.1696	0.1696
SWWPCP	0.3477	0.3477

Facilities common to SE and SW only:

	Primary lbs BD-28b	Secondary lbs BD-28b	SS lbs	BOD lbs	SS lbs	BOD lbs		
SEWPCP	100,000	55,500	127,750	27,750	34.39%	27.07%	155,500	32.81%
SWWPCP	169,000	149,500	243,750	74,750	65.61%	72.93%	318,500	67.19%
Total	269,000	205,000	371,500	102,500	100.00%	100.00%	474,000	

				Col (2)		Col (3)
Federal Grants - A&G						
Allocated to:	NEWPCP	0	0	Ln 35 x Ln 38	0	Ln 35 x Ln 38
	SEWPCP	1,532	1,214	Ln 35 x Ln 39	318	Ln 35 x Ln 39
	SWWPCP	3,173	2,315	Ln 35 x Ln 40	858	Ln 35 x Ln 40
Total (b)		4,705	3,529		1,176	

			(1)	(2)	(3)		(4)	(5)		(6)	
	WPAP Plant - Sludge Gas Facilities		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation	Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
53	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 44 10,738	8,054	2,684	75% SS - 25% BOD					
54	Book Cost Subject to Federal Grant		Spltallo-3, Ln 44 10,399	7,799	2,600	75% SS - 25% BOD					
55	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10					
56	Estimated Federal Grant (c)		7,435	5,576	1,859	Ln 54 x Ln 55					
57	Net Book Cost Before Alloc. A&G		3,303	2,478	825	Ln 53 - Ln 56					
58	A&G Facilities(a)		Spltallo-3,BOX 3 1,583	(Same calc using Sludge Gas Fac) 1,187	396	75% SS - 25% BOD					
59	A&G subject to Federal Grant(b)		Spltallo-3,BOX 3 1,533	(Same calc using Sludge Gas Fac, cols (1)+(4)) 1,150	383	75% SS - 25% BOD					
60	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10					
61	Estimated Federal Grant		1,096	822	274	Ln 59 x Ln 60					
62	Net A&G Facilities (a)		487	365	122	Ln 58 - Ln 61					
63	Net Book Cost includingass A&G (a)		3,790	2,843	947	Ln 57 + Ln 62					
64	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3					
65		SEWPCP		34.39%	27.07%	BOX 3					
66		SWWPCP		65.61%	72.93%	BOX 3					
	Book Cost Before Allocated A&G						Book Cost Applicable to Federal Grants			Col (2)	Col (3)
67	Allocated to:	NEWPCP	0	0	0	Ln 53 x Ln 64	Allocated to: NEWPCP	0	0	Ln 54 x Ln 64	0 Ln 54 x Ln 64
68		SEWPCP	3,497	2,770	727	Ln 53 x Ln 65	SEWPCP	3,386	2,682	Ln 54 x Ln 65	704 Ln 54 x Ln 65
69		SWWPCP	7,241	5,284	1,957	Ln 53 x Ln 66	SWWPCP	7,013	5,117	Ln 54 x Ln 66	1,896 Ln 54 x Ln 66
70	Total (a)		10,738	8,054	2,684		Total (a)	10,399	7,799		2,600
	A&G						A&G Applicable to Federal Grants				
71	Allocated to:	NEWPCP	0	0	0	Ln 58 x Ln 64	Allocated to: NEWPCP	0	0	Ln 59 x Ln 64	0 Ln 59 x Ln 64
72		SEWPCP	515	408	107	Ln 58 x Ln 65	SEWPCP	499	395	Ln 59 x Ln 65	104 Ln 59 x Ln 65
73		SWWPCP	1,068	779	289	Ln 58 x Ln 66	SWWPCP	1,034	755	Ln 59 x Ln 66	279 Ln 59 x Ln 66
74	Total (a)		1,583	1,187	396		Total (a)	1,533	1,150		383
	Federal Grants(excluding A&G)						Federal Grants - A&G			Col (2)	Col (3)
75	Allocated to:	NEWPCP	0	0	0	Ln 56 x Ln 64	Allocated to: NEWPCP	0	0	Ln 61 x Ln 64	0 Ln 61 x Ln 64
76		SEWPCP	2,421	1,918	503	Ln 56 x Ln 65	SEWPCP	357	283	Ln 61 x Ln 65	74 Ln 61 x Ln 65
77		SWWPCP	5,014	3,658	1,356	Ln 56 x Ln 66	SWWPCP	739	539	Ln 61 x Ln 66	200 Ln 61 x Ln 66
78	Total (b)		7,435	5,576	1,859		Total (b)	1,096	822		274

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

			(1)	(2)	(3)		(4)	(5)		(6)	
	WPAP Plant - Sludge Disposal Facilities (Centr		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation	Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
79	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 51 12,014	9,011	3,003	75% SS - 25% BOD					
80	Book Cost Subject to Federal Grant		Spltallo-3, Ln 51 11,635	8,726	2,909	75% SS - 25% BOD					
81	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10					
82	Estimated Federal Grant (c)		8,319	6,239	2,080	Ln 80 x Ln 81					
83	Net Book Cost Before Alloc. A&G		3,695	2,772	923	Ln 79 - Ln 82					
84	A&G Facilities(a)		Spltallo-3, BOX 3 1,771	(Same calc using Sludge Disp Fac) 1,328	443	75% SS - 25% BOD					
85	A&G subject to Federal Grant(b)		Spltallo-3, BOX 3 1,715	(Same calc using Sludge Disp Fac, cols (1)+(4)) 1,286	429	75% SS - 25% BOD					
86	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10					
87	Estimated Federal Grant		1,226	920	306	Ln 85 x Ln 86					
88	Net A&G Facilities (a)		545	408	137	Ln 84 - Ln 87					
89	Net Book Cost includingass A&G (a)		4,240	3,180	1,060	Ln 83 + Ln 88					
90	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3					
91		SEWPCP		34.39%	27.07%	BOX 3					
92		SWWPCP		65.61%	72.93%	BOX 3					
	Book Cost Before Allocated A&G						Book Cost Applicable to Federal Grants			Col (2)	Col (3)
93	Allocated to:	NEWPCP	0	0	0	Ln 79 x Ln 90	Allocated to: NEWPCP	0	0	Ln 80 x Ln 90	0 Ln 80 x Ln 90
94		SEWPCP	3,912	3,099	813	Ln 79 x Ln 91	SEWPCP	3,788	3,001	Ln 80 x Ln 91	787 Ln 80 x Ln 91
95		SWWPCP	8,102	5,912	2,190	Ln 79 x Ln 92	SWWPCP	7,847	5,725	Ln 80 x Ln 92	2,122 Ln 80 x Ln 92
96	Total (a)		12,014	9,011	3,003		Total (a)	11,635	8,726		2,909
	A&G						A&G Applicable to Federal Grants				
97	Allocated to:	NEWPCP	0	0	0	Ln 84 x Ln 90	Allocated to: NEWPCP	0	0	Ln 85 x Ln 90	0 Ln 85 x Ln 90
98		SEWPCP	577	457	120	Ln 84 x Ln 91	SEWPCP	558	442	Ln 85 x Ln 91	116 Ln 85 x Ln 91
99		SWWPCP	1,194	871	323	Ln 84 x Ln 92	SWWPCP	1,157	844	Ln 85 x Ln 92	313 Ln 85 x Ln 92
100	Total (a)		1,771	1,328	443		Total (a)	1,715	1,286		429
	Federal Grants (excluding A&G)						Federal Grants - A&G			Col (2)	Col (3)
101	Allocated to:	NEWPCP	0	0	0	Ln 82 x Ln 90	Allocated to: NEWPCP	0	0	Ln 87 x Ln 90	0 Ln 87 x Ln 90
102		SEWPCP	2,709	2,146	563	Ln 82 x Ln 91	SEWPCP	399	316	Ln 87 x Ln 91	83 Ln 87 x Ln 91
103		SWWPCP	5,610	4,093	1,517	Ln 82 x Ln 92	SWWPCP	827	604	Ln 87 x Ln 92	223 Ln 87 x Ln 92
104	Total (b)		8,319	6,239	2,080		Total (b)	1,226	920		306

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SWReAllo6 - SW WPAP Composting Facilities Allocated T	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-18

			(1)	(2)	(3)	
	WPAP Plant - Composting Facilities		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
			Spltallo-3, Ln 41			
105	Book Cost Before Allocated A&G (a)		0	0	0	75% SS - 25% BOD
			Spltallo-3, Ln 41			
106	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD
107	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
108	Estimated Federal Grant (c)		0	0	0	Ln 106 x Ln 107
109	Net Book Cost Before Alloc. A&G		0	0	0	Ln 105 - Ln 108
			Spltallo-3, BOX 3	(Same calc using Sludge Compost Fac)		
110	A&G Facilities(a)		0	0	0	75% SS - 25% BOD
			Spltallo-3, BOX 3	(Same calc using Sludge Compost Fac, cols (1)+(4))		
111	A&G subject to Federal Grant(b)		0	0	0	75% SS - 25% BOD
112	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
113	Estimated Federal Grant		0	0	0	Ln 111 x Ln 112
114	Net A&G Facilities (a)		0	0	0	Ln 110 - Ln 113
115	Net Book Cost includingass A&G (a)		0	0	0	Ln 109 + Ln 114
116	Percent Allocable to:	NEWPCP		48.27%	48.27%	BOX 3
117		SEWPCP		16.96%	16.96%	BOX 3
118		SWWPCP		34.77%	34.77%	BOX 3
	Book Cost Before Allocated A&G					
119	Allocated to:	NEWPCP	0	0	0	Ln 105 x Ln 116
120		SEWPCP	0	0	0	Ln 105 x Ln 117
121		SWWPCP	0	0	0	Ln 105 x Ln 118
122	Total (a)		0	0	0	
	A&G					
123	Allocated to:	NEWPCP	0	0	0	Ln 110 x Ln 116
124		SEWPCP	0	0	0	Ln 110 x Ln 117
125		SWWPCP	0	0	0	Ln 110 x Ln 118
126	Total (a)		0	0	0	
	Federal Grants (excluding A&G)					
127	Allocated to:	NEWPCP	0	0	0	Ln 108 x Ln 116
128		SEWPCP	0	0	0	Ln 108 x Ln 117
129		SWWPCP	0	0	0	Ln 108 x Ln 118
130	Total (b)		0	0	0	

			(4)	(5)		(6)	
			Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
	Book Cost Applicable to Federal Grants						
	Allocated to:	NEWPCP	0	0	Ln 106 x Ln 116	0	.n 106 x Ln 116
		SEWPCP	0	0	Ln 106 x Ln 117	0	.n 106 x Ln 117
		SWWPCP	0	0	Ln 106 x Ln 118	0	.n 106 x Ln 118
	Total (a)		0	0		0	
	A&G Applicable to Federal Grants						
	Allocated to:	NEWPCP	0	0	Ln 111 x Ln 116	0	.n 111 x Ln 116
		SEWPCP	0	0	Ln 111 x Ln 117	0	.n 111 x Ln 117
		SWWPCP	0	0	Ln 111 x Ln 118	0	.n 111 x Ln 118
	Total (a)		0	0		0	
	Federal Grants - A&G				Col (2)		Col (3)
	Allocated to:	NEWPCP	0	0	Ln 113 x Ln 116	0	.n 113 x Ln 116
		SEWPCP	0	0	Ln 113 x Ln 117	0	.n 113 x Ln 117
		SWWPCP	0	0	Ln 113 x Ln 118	0	.n 113 x Ln 118
	Total (b)		0	0		0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

			(1)	(2)	(3)	
	WPAP Plant - Dewatering Facilities		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
			Spltallo-3, Ln 53			
131	Book Cost Before Allocated A&G (a)		24,751	18,563	6,188	75% SS - 25% BOD
			Spltallo-3, Ln 53			
132	Book Cost Subject to Federal Grant		23,970	17,978	5,992	75% SS - 25% BOD
133	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
134	Estimated Federal Grant (c)		17,139	12,854	4,284	Ln 132 x Ln 133
135	Net Book Cost Before Alloc. A&G		7,612	5,709	1,904	Ln 131 - Ln 134
			Spltallo-3, BOX 3	(Same calc using Sludge Dewat Fac)		
136	A&G Facilities(a)		3,649	2,737	912	75% SS - 25% BOD
			Spltallo-3, BOX 3	(Same calc using Sludge Dewat Fac, cols (1)+(4))		
137	A&G subject to Federal Grant(b)		3,534	2,651	883	75% SS - 25% BOD
138	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
139	Estimated Federal Grant		2,527	1,895	632	Ln 137 x Ln 138
140	Net A&G Facilities (a)		1,122	842	280	Ln 136 - Ln 139
141	Net Book Cost includingass A&G (a)		8,734	6,551	2,184	Ln 135 + Ln 140
142	Percent Allocable to:	NEWPCP		48.27%	48.27%	BOX 3
143		SEWPCP		16.96%	16.96%	BOX 3
144		SWWPCP		34.77%	34.77%	BOX 3
	Book Cost Before Allocated A&G					
145	Allocated to:	NEWPCP	11,947	8,960	2,987	Ln 131 x Ln 142
146		SEWPCP	4,197	3,148	1,049	Ln 131 x Ln 143
147		SWWPCP	8,607	6,455	2,152	Ln 131 x Ln 144
148	Total (a)		24,751	18,563	6,188	
	A&G					
149	Allocated to:	NEWPCP	1,761	1,321	440	Ln 136 x Ln 142
150		SEWPCP	619	464	155	Ln 136 x Ln 143
151		SWWPCP	1,269	952	317	Ln 136 x Ln 144
152	Total (a)		3,649	2,737	912	
	Federal Grants (excluding A&G)					
153	Allocated to:	NEWPCP	8,273	6,205	2,068	Ln 134 x Ln 142
154		SEWPCP	2,907	2,180	727	Ln 134 x Ln 143
155		SWWPCP	5,958	4,469	1,489	Ln 134 x Ln 144
156	Total (b)		17,138	12,854	4,284	

			(4)	(5)		(6)	
			Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
	Book Cost Applicable to Federal Grants						
	Allocated to:	NEWPCP	11,570	8,678	Col (2) Ln 132 x Ln 142	2,892	Col (3) .n 132 x Ln 142
		SEWPCP	4,065	3,049	Ln 132 x Ln 143	1,016	.n 132 x Ln 143
		SWWPCP	8,334	6,251	Ln 132 x Ln 144	2,083	.n 132 x Ln 144
	Total (a)		23,969	17,978		5,991	
	A&G Applicable to Federal Grants						
	Allocated to:	NEWPCP	1,706	1,280	Ln 137 x Ln 142	426	.n 137 x Ln 142
		SEWPCP	600	450	Ln 137 x Ln 143	150	.n 137 x Ln 143
		SWWPCP	1,229	922	Ln 137 x Ln 144	307	.n 137 x Ln 144
	Total (a)		3,535	2,652		883	
	Federal Grants - A&G				Col (2)		Col (3)
	Allocated to:	NEWPCP	1,220	915	Ln 139 x Ln 142	305	.n 139 x Ln 142
		SEWPCP	428	321	Ln 139 x Ln 143	107	.n 139 x Ln 143
		SWWPCP	879	659	Ln 139 x Ln 144	220	.n 139 x Ln 144
	Total (b)		2,527	1,895		632	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

			(1)	(2)	(3)	
			Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
	Non-WPAP Plant - Sludge Disposal Facilities (Disposal, Belt Filter, Centrifuge)					
			BOX 1			
157	Book Cost Before Allocated A&G (a)		0	0	0	75% SS - 25% BOD
			Input			
158	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD
159	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
160	Estimated Federal Grant (c)		0	0	0	Ln 158 x Ln 159
161	Net Book Cost Before Alloc. A&G		0	0	0	Ln 157 - Ln 160
			Spltallo-3, BOX 3	(Same calc using Non WPAP Sludge Disp Fac, but CWIP on sludge disposal not allocated any SW WPCP A&G Facilities per JRM)		
162	A&G Facilities(a)		0	0	0	75% SS - 25% BOD
163	A&G subject to Federal Grant (b)		na			
			0	0	0	75% SS - 25% BOD
164	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
165	Estimated Federal Grant		0	0	0	Ln 162 x Ln 164
166	Net A&G Facilities (a)		0	0	0	Ln 162 - Ln 165
167	Net Book Cost includingass A&G (a)		0	0	0	Ln 161 + Ln 166
168	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
169		SEWPCP		34.39%	27.07%	BOX 3
170		SWWPCP		65.61%	72.93%	BOX 3
			(1)	(2)	(3)	
	Book Cost Before Allocated A&G			(1)*.75	(1)-(2)	
171	Allocated to:	NEWPCP	0	0	0	BOX 1
172		SEWPCP	0	0	0	BOX 1
173		SWWPCP	0	0	0	BOX 1
174	Total (a)		0	0	0	
	A&G					
175	Allocated to:	NEWPCP	0	0	0	Ln 162 x Ln 168
176		SEWPCP	0	0	0	Ln 162 x Ln 169
177		SWWPCP	0	0	0	Ln 162 x Ln 170
178	Total (a)		0	0	0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.

BOX 1 - SPLIT OF BOOK COSTS BEFORE ALLOCATION OF A&G

Book costs consist of):	Spltallo-3				$1,000
Sludge Disposal (Ln 6)					0
Belt Filter System (Ln 7)					0
Centrifuge System (Ln 8)					0
Subtotal					0
CWIP Sludge disposal costs included in subtotal are					0
All Other costs					0
Allocation of costs between plants:					
CWIP Sludge disposal costs:					
	NEWPCP		48.27%		0
	SEWPCP		16.96%		0
	SWWPCP		34.77%		0
					0
		BOD	SS	Weighted	
All Other costs:		0.25	0.75		0
	NEWPCP	0.00%	0.00%	0.00%	0
	SEWPCP	34.39%	27.07%	28.90%	0
	SWWPCP	65.61%	72.93%	71.10%	0
					0
Total Allocated Costs:					
	NEWPCP		0.00%		0
	SEWPCP		0.00%		0
	SWWPCP		0.00%		0
					0

			(1)	(2)	(3)	
			Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
	Non-WPAP Plant - Digesters					
			Spltallo-3, Ln 5			
179	Book Cost Before Allocated A&G (a)		7,526	5,645	1,881	75% SS - 25% BOD
			Input			
180	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD
181	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
182	Estimated Federal Grant (c)		0	0	0	Ln 180 x Ln 181
183	Net Book Cost Before Alloc. A&G		7,526	5,645	1,881	Ln 179 - Ln 182
			Spltallo-3, BOX 3	(Same calc using Non WPAP Digesters)		
184	A&G Facilities(a)		7,840	5,880	1,960	75% SS - 25% BOD
185	A&G subject to Federal Grant(b)		na	0	0	75% SS - 25% BOD
186	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
187	Estimated Federal Grant		0	0	0	Ln 185 x Ln 186
188	Net A&G Facilities (a)		7,840	5,880	1,960	Ln 184 - Ln 187
189	Net Book Cost includingass A&G (a)		15,366	11,525	3,841	Ln 183 + Ln 188
190	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
191		SEWPCP		34.39%	27.07%	BOX 3
192		SWWPCP		65.61%	72.93%	BOX 3
	Book Cost Before Allocated A&G					
193	Allocated to:	NEWPCP	0	0	0	Ln 179 x Ln 190
194		SEWPCP	2,450	1,941	509	Ln 179 x Ln 191
195		SWWPCP	5,076	3,704	1,372	Ln 179 x Ln 192
196	Total (a)		7,526	5,645	1,881	
	A&G					
197	Allocated to:	NEWPCP	0	0	0	Ln 184 x Ln 190
198		SEWPCP	2,553	2,022	531	Ln 184 x Ln 191
199		SWWPCP	5,287	3,858	1,429	Ln 184 x Ln 192
200	Total (a)		7,840	5,880	1,960	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.

SOUTHWEST PLANT INVESTMENT
ALLOCATED TO NE AND SE PLANTS

Line No.	Facility Description		(1) Total Investment $1,000 (2) +(3)	(2) Capacity $1,000	(3) BOD $1,000	Basis of Allocation
	WPAP Plant - Preliminary Treatment Bldg					
201	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 31 28,358	28,358	0	100% Capacity - 0% BOD
202	Book Cost Subject to Federal Grant		Spltallo-3, Ln 31 27,463	27,463	0	100% Capacity - 0% BOD
203	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
204	Estimated Federal Grant		19,636	19,636	0	Ln 202 x Ln 203
205	Net Book Cost Before Alloc. A&G		8,722	8,722	0	Ln 201 - Ln 204
206	A&G Facilities(a)		Spltallo-3, BOX 3 4,181	4,181	0	100% Capacity - 0% BOD
			Spltallo-3, BOX 3	(Same calc. using data from col. (1) + (4))		
207	A&G subject to Federal Grant(b)		4,049	4,049	0	100% Capacity - 0% BOD
208	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
209	Estimated Federal Grant		2,895	2,895	0	Ln 207 x Ln 208
210	Net A&G Facilities (a)		1,286	1,286	0	Ln 206 - Ln 209
211	Net Book Cost includingass A&G (a)		10,008	10,008	0	Ln 205 + Ln 210
212	Percent Allocable to:	NEWPCP		0.00%	0.00%	
213		SEWPCP		14.54%	0.00%	0.1454; BD-28c, Fax Dated 9/22/93 from J. S. Clare III
214		SWWPCP		85.46%	0.00%	0.8546; BD-28c, Fax Dated 9/22/93 from J. S. Clare III
	Book Cost Before Allocated A&G					
215	Allocated to:	NEWPCP	0	0	0	Ln 201 x Ln 212
216		SEWPCP	4,123	4,123	0	Ln 201 x Ln 213
217		SWWPCP	24,235	24,235	0	Ln 201 x Ln 214
218	Total (a)		28,358	28,358	0	
	A&G					
219	Allocated to:	NEWPCP	0	0	0	Ln 206 x Ln 212
220		SEWPCP	608	608	0	Ln 206 x Ln 213
221		SWWPCP	3,573	3,573	0	Ln 206 x Ln 214
222	Total (a)		4,181	4,181	0	
	Federal Grants(excluding A&G)					
223	Allocated to:	NEWPCP	0	0	0	Ln 204 x Ln 212
224		SEWPCP	2,855	2,855	0	Ln 204 x Ln 213
225		SWWPCP	16,781	16,781	0	Ln 204 x Ln 214
226	Total (b)		19,636	19,636	0	

			(4) Total Investment $1,000 (5)+(6)	(5) Capacity $1,000		(6) BOD $1,000	
	Book Cost Applicable to Federal Grants				Col (2)	Col (3)	
215	Allocated to:	NEWPCP	0	0	Ln 202 x Ln 212	0	.n 202 x Ln 212
216		SEWPCP	3,993	3,993	Ln 202 x Ln 213	0	.n 202 x Ln 213
217		SWWPCP	23,470	23,470	Ln 202 x Ln 214	0	.n 202 x Ln 214
218	Total (a)		27,463	27,463		0	
	A&G Applicable to Federal Grants						
219	Allocated to:	NEWPCP	0	0	Ln 207 x Ln 212	0	.n 207 x Ln 212
220		SEWPCP	589	589	Ln 207 x Ln 213	0	.n 207 x Ln 213
221		SWWPCP	3,460	3,460	Ln 207 x Ln 214	0	.n 207 x Ln 214
222	Total (a)		4,049	4,049		0	
	Federal Grants - A&G				Col (2)	Col (3)	
223	Allocated to:	NEWPCP	0	0	Ln 209 x Ln 212	0	.n 209 x Ln 212
224		SEWPCP	421	421	Ln 209 x Ln 213	0	.n 209 x Ln 213
225		SWWPCP	2,474	2,474	Ln 209 x Ln 214	0	.n 209 x Ln 214
226	Total (b)		2,895	2,895		0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
SWReAllo11 - SW WPAP Grit & Ash Transfer Allocated T P.N. 135647.0100 **February 07, 2020 3:17 p.m.** **Spltallo-23**

Line No.	Facility Description		(1) Total Investment $1,000 (2) +(3)	(2) Capacity $1,000	(3) BOD $1,000	Basis of Allocation			(4) Total Investment $1,000 (5)+(6)	(5) Capacity $1,000		(6) BOD $1,000
	WPAP Plant - Grit & Ash Transfer Station											
227	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 54 0	0	0	100% Capacity - 0% BOD						
228	Book Cost Subject to Federal Grant		Spltallo-3, Ln 54 0	0	0	100% Capacity - 0% BOD						
229	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10						
230	Estimated Federal Grant		0	0	0	Ln 228 x Ln 229						
231	Net Book Cost Before Alloc. A&G		0	0	0	Ln 227 - Ln 230						
232	A&G Facilities(a)		Spltallo-3, BOX 3 0	0	0	100% Capacity - 0% BOD						
233	A&G subject to Federal Grant(b)		Spltallo-3, BOX 3 0	(Same calc. using data from col. (1) + (4)) 0	0	100% Capacity - 0% BOD						
234	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10						
235	Estimated Federal Grant		0	0	0	Ln 233 x Ln 234						
236	Net A&G Facilities (a)		0	0	0	Ln 232 - Ln 235						
237	Net Book Cost includingass A&G (a)		0	0	0	Ln 231 + Ln 236						
238	Percent Allocable to:	NEWPCP		0.00%	0.00%							
239		SEWPCP		29.08%	0.00%	BD-28c, Fax Dated 9/22/93 from J. S. Clare III						
240		SWWPCP		70.92%	0.00%	BD-28c, Fax Dated 9/22/93 from J. S. Clare III						
	Book Cost Before Allocated A&G						Book Cost Applicable to Federal Grants				Col (2)	Col (3)
241	Allocated to:	NEWPCP	0	0	0	Ln 227 x Ln 238	Allocated to:	NEWPCP	0	0	Ln 228 x Ln 238	0 .n 228 x Ln 238
242		SEWPCP	0	0	0	Ln 227 x Ln 239		SEWPCP	0	0	Ln 228 x Ln 239	0 .n 228 x Ln 239
243		SWWPCP	0	0	0	Ln 227 x Ln 240		SWWPCP	0	0	Ln 228 x Ln 240	0 .n 228 x Ln 240
244	Total (a)		0	0	0		Total (a)		0	0		0
	A&G						A&G Applicable to Federal Grants					
245	Allocated to:	NEWPCP	0	0	0	Ln 232 x Ln 238	Allocated to:	NEWPCP	0	0	Ln 233 x Ln 238	0 .n 233 x Ln 238
246		SEWPCP	0	0	0	Ln 232 x Ln 239		SEWPCP	0	0	Ln 233 x Ln 239	0 .n 233 x Ln 239
247		SWWPCP	0	0	0	Ln 232 x Ln 240		SWWPCP	0	0	Ln 233 x Ln 240	0 .n 233 x Ln 240
248	Total (a)		0	0	0		Total (a)		0	0		0
	Federal Grants(excluding A&G)						Federal Grants - A&G				Col (2)	Col (3)
249	Allocated to:	NEWPCP	0	0	0	Ln 230 x Ln 238	Allocated to:	NEWPCP	0	0	Ln 235 x Ln 238	0 .n 235 x Ln 238
250		SEWPCP	0	0	0	Ln 230 x Ln 239		SEWPCP	0	0	Ln 235 x Ln 239	0 .n 235 x Ln 239
251		SWWPCP	0	0	0	Ln 230 x Ln 240		SWWPCP	0	0	Ln 235 x Ln 240	0 .n 235 x Ln 240
252	Total (b)		0	0	0		Total (b)		0	0		0

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
ALLOC - Allocation of TY Plant Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-24

WW - 9 currently developed on Retcos-23

TEST YEAR INVESTMENT IN THE WASTEWATER SYSTEM
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2021

Line No.	Cost Component	(1) Total Direct Investment Incl. A&G $1,000	(2) Investment Allocated to Contract Service $1,000	(3) Investment Allocated to Retail Service $1,000 (1) - (2)	(4) Col. (1) Reference		(5) Col. (2) Reference	
	COLLECTION SYSTEM							
1	Sewers (a) - Capacity	1,649,393	17,991	1,631,402	Spltallo-5	Ln 1..2	Spltallo-40	Ln 1
2	Pumping Stations - Capacity	28,659	252	28,407	Spltallo-5	Ln 3	Spltallo-40	Ln 2
3	LTCP Investment	132,401	19,288	113,113				
4	Total Collection System	1,810,453	37,531	1,772,922				
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
5	- Capacity	5,583	1,167	4,416	Spltallo-6	Ln 49	Spltallo-40	Ln 5
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
6	Volume	64,809	18,049	46,760	Spltallo-6	Ln 49	Spltallo-40	Ln 6
7	Capacity	26,558	6,219	20,339	Spltallo-6	Ln 49	Spltallo-40	Ln 7
8	Suspended Solids	70,293	13,015	57,278	Spltallo-6	Ln 49	Spltallo-40	Ln 8
9	BOD	90,360	22,283	68,077	Spltallo-6	Ln 49	Spltallo-40	Ln 9
10	Subtotal	252,020	59,566	192,454				
11	Total Northeast Plant	257,603	60,733	196,870				
	Southwest Plant:							
12	Retail - Capacity	22,552	0	22,552	Spltallo-9	Ln 45		Input
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby							
13	Volume	69,783	29,794	39,989	Spltallo-9	Ln 45	Spltallo-40	Ln 13
14	Capacity	20,893	7,689	13,204	Spltallo-9	Ln 45	Spltallo-40	Ln 14
15	Suspended Solids	56,363	15,905	40,458	Spltallo-9	Ln 45	Spltallo-40	Ln 15
16	BOD	49,947	24,488	25,459	Spltallo-9	Ln 45	Spltallo-40	Ln 16
17	Total Southwest Plant	219,538	77,876	141,662				
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
18	Volume	44,436	404	44,032	Spltallo-11	Ln 39	Spltallo-40	Ln 18
19	Capacity	49,635	277	49,358	Spltallo-11	Ln 39	Spltallo-40	Ln 19
20	Suspended Solids	23,729	73	23,656	Spltallo-11	Ln 39	Spltallo-40	Ln 20
21	BOD	23,584	65	23,519	Spltallo-11	Ln 39	Spltallo-40	Ln 21
22	Total Southeast Plant	141,384	819	140,565				
23	Total Water Pollution Control Plants	618,525	139,428	479,097				
24	Total Investment	2,428,978	176,959	2,252,019				

(a) Total sewers investment from Spltallo-5 includes Storm and Flood Relief.

BOX 1 - CHECK OF TOTAL PLANT ON Spltallo-24 vs Spltallo-5

	Ref:	$1,000
Total Plant	Spltallo-5	2,947,154
Less Fed Grants - NE	Spltallo-8	(227,215)
Less Fed Grants - SW	Spltallo-10	(143,052)
Less Fed Grants - SE	Spltallo-12	(147,909)
Total		2,428,978
Total Per This Page		2,428,978
Difference		0

WATER POLLUTION CONTROL PLANT INVESTMENT PER UNIT OF CAPACITY

Test Year 2021

Line No.	Cost Component	(1) Direct Investment $ Spltallo-24	(2) Units of Capacity	(3) Unit Investment $ (1)/(4)	(4) Input Units of Capacity			
	Northeast Water Pollution Control Plant							
	Retail, Abinton, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	5,583,000	370 mgd = 49,470 Mcf/day	112.8563 /Mcf/day	49,470	Mcf/day		
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	Volume	64,809,000	76,650 mg = 10,247,000 Mcf	6.3247 /Mcf	10,247,000	Mcf		
3	Capacity	26,558,000	420 mgd = 56,150 Mcf/day	472.9831 /Mcf/day	56,150	Mcf/day		
4	Suspended Solids	70,293,000	173,240,000 lbs	405.7550 /1,000 lbs	173,240,000	lbs		
5	BOD	90,360,000	128,491,000 lbs	703.2399 /1,000 lbs	128,491,000	lbs		
	Southwest Water Pollution Control Plant							
6	Retail - Capacity	22,552,000	50 mgd = 6,684 Mcf/day	3,374.0275 /Mcf/day	6,684	Mcf/day		
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby							
7	Volume	69,783,000	73,000 mg = 9,759,000 Mcf	7.1506 /Mcf	9,759,000	Mcf		
8	Capacity	20,893,000	400 mgd = 53,476 Mcf/day	390.6986 /Mcf/day	53,476	Mcf/day	(200 mgd):	
9	Suspended Solids	56,363,000	133,018,000 lbs	423.7242 /1,000 lbs (a)	178,354,000	lbs	130,287,000	lbs
10	BOD	49,947,000	78,717,000 lbs	634.5141 /1,000 lbs (a)	123,377,000	lbs	71,232,000	lbs
	Southeast Water Pollution Control Plant							
	Retail and Springfield (Wyndmoor)							
11	Volume	44,436,000	40,880 mg = 5,465,000 Mcf	8.1310 /Mcf	5,465,000	Mcf		
12	Capacity	49,635,000	224 mgd = 29,947 Mcf/day	1,657.4281 /Mcf/day	29,947	Mcf/day		
13	Suspended Solids	23,729,000	66,065,000 lbs	359.1766 /1,000 lbs	66,065,000	lbs		
14	BOD	23,584,000	56,940,000 lbs	414.1904 /1,000 lbs	56,940,000	lbs		

mg - million gallons
mgd - million gallons per day
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) Unit investment adjusted for additional A&G in water plant associated with sewer plant.

DEVELOPMENT OF UNIT COSTS FOR SOUTHWEST TREATMENT PLANT
Weighted between 200 mgd and 210 mgd facilities

	200 mgd 1,000		210 mgd 1,000	
Total SS Cost $92,486,000				
Non-Abatement:				
Direct	18,426	Spltallo-9, Ln 16 Less ------>	1,942	Spltallo-9, Ln 4
Admin. & General	17,944	Spltallo-9,Ln 19+Ln 20 Less ->	1,891	Spltallo-9,(Ln 19 + Ln 20)/Ln 16 * Line above [1,942]
Abatement:				
Direct	46,600	Spltallo-9, Ln 39 Less ------>	1,371	Spltallo-9,(Ln 25..29)
Admin. & General	4,189	Spltallo-9,Ln 40+Ln 41 Less ->	123	Spltallo-9,(Ln 40 + Ln 41)/Ln 39 * Line above [1,371]
	87,159		5,327	
Less Federal Grants:				
Direct	32,265	Spltallo-10, Ln 18 Less ------>	950	Spltallo-10,(Ln 4..8)
Admin. & General	2,825	Spltallo-10,Ln 19+Ln 20 Less ->	83	Spltallo-10,(Ln 19 + Ln 18)/Ln 18 * Line above [950]
Net Investment	52,069		4,294	
Total BOD Cost $94,145,000				
Non-Abatement:				
Direct	11,143	Spltallo-9, Ln 16 Less ------>	0	Spltallo-9, Ln 4
Admin. & General	20,676	Spltallo-9,Ln 19+Ln 20 Less ->	0	Spltallo-9,(Ln 19 + Ln 20)/Ln 16 * Line above [0]
Abatement:				
Direct	20,972	Spltallo-9, Ln 39 Less ------>	34,191	Spltallo-9,(Ln 25..29)
Admin. & General	2,723	Spltallo-9,Ln 40+Ln 41 Less ->	4,440	Spltallo-9,(Ln 40 + Ln 41)/Ln 39 * Line above [34191]
	55,514		38,631	
Less Federal Grants:				
Direct	14,522	Spltallo-10, Ln 18 Less ------>	23,675	Spltallo-10,(Ln 4..8)
Admin. & General	2,282	Spltallo-10,Ln 19+Ln 20 Less ->	3,719	Spltallo-10,(Ln 19 + Ln 20)/Ln 18 * Line above [23675]
Net Investment	38,710		11,237	

	Net Investment	Units		Unit Investment	
210 mgd					
SS	4,294,000	178,354	1,000 lbs	$24.0757	per 1,000 lbs
BOD	11,237,000	123,377	1,000 lbs	$91.0786	per 1,000 lbs
200 mgd					
SS	52,069,000	130,287	1,000 lbs	$399.6485	per 1,000 lbs
BOD	38,710,000	71,232	1,000 lbs	$543.4355	per 1,000 lbs
Total					
SS	56,363,000	133,018	1,000 lbs	$423.7242	per 1,000 lbs
BOD	49,947,000	78,717	1,000 lbs	$634.5141	per 1,000 lbs

SW WPCP			
1972/73 Design:	MGD	mg/l	Lbs
Design Flows	210		
Design SS		279	178,354,000
Design BOD		193	123,377,000
Design Flows	200		
Design SS		279	169,861,000
Design BOD		193	117,502,000
1984/85 Rating:			
Design Flows	200		
Design SS		214	130,287,000
Design BOD		117	71,232,000

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
INVSTCap3 - Whlsl Units of Service for Treatment Plants **P.N. 135647.0100** **February 07, 2020 3:17 p.m.** **Spltallo-27**

Reference: Units-2

		Northeast WPC Plant								Southwest WPC Plant				WPC Plant	
	Units	Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southhampton	Total Northeast	DELCORA	Lower Merion	Springfield (Excluding Wyndoor)	Upper Darby	Total Southwest	Springfield (Wyndoor)	Total
Contract Maximum Units															
Capacity:															
Sanitary Wastewater	(Mcf/day)	824	1,014	6,416	2,743	508	1,364	12,869	13,392	2,728	397	3,024	19,541	167	32,577
Infiltration	(Mcf/day)	20	20	140	60	10	30	280	0	60	10	70	140	0	420
Total	(Mcf/day)	844	1,034	6,556	2,803	518	1,394	13,149	13,392	2,788	407	3,094	19,681	167	32,997
															33,244
Volume:															
Sanitary Wastewater	(Mcf)	217,292	299,271	1,171,123	654,370	92,714	348,409	2,783,179	2,439,840	707,553	156,150	829,545	4,133,088	48,797	6,965,064
Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500	0	14,900	2,200	16,600	33,700	900	105,100
Total	(Mcf)	221,792	304,871	1,206,223	669,370	95,514	355,909	2,853,679	2,439,840	722,453	158,350	846,145	4,166,788	49,697	7,070,164
Suspended Solids:															
Sanitary Wastewater	(1,000 lbs)	2,481	3,734	13,400	5,186	966	6,000	31,767	19,487	7,250	3,300	7,349	37,386	200	69,353
Infiltration	(1,000 lbs)	20	24	153	66	12	33	308	0	65	10	73	148	4	460
Total	(1,000 lbs)	2,501	3,758	13,553	5,252	978	6,033	32,075	19,487	7,315	3,310	7,422	37,534	204	69,813
BOD:															
Sanitary Wastewater	(1,000 lbs)	2,102	5,340	13,400	4,573	729	5,500	31,644	21,771	6,871	3,100	6,831	38,573	155	70,372
Infiltration	(1,000 lbs)	3	3	22	9	2	5	44	0	9	1	10	20	1	65
Total	(1,000 lbs)	2,105	5,343	13,422	4,582	731	5,505	31,688	21,771	6,880	3,101	6,841	38,593	156	70,437

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNPALLO1 - Abington Allocated Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-28

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 6

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO ABINGTON TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref A.	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	112.8563	844		95,251	95,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	6.3247	221,792		1,402,768	1,403,000
3	- Capacity	Mcf/day	472.9831	844		399,198	399,000
4	- SS	1,000 lbs	405.7550	2,501		1,014,793	1,015,000
5	- BOD	1,000 lbs	703.2399	2,105		1,480,320	1,480,000
6	Total Treatment					4,392,330	4,392,000
	Conveyance						
7	Shady Lane & City Line	cfs	58,421	1.368	1.0225	81,718	82,000
8	Pennypack & City Line	cfs	49,045	7.694	1.0225	385,843	386,000
9	Cottman and Orville	cfs	45,328	0.480	1.0225	22,247	22,000
10	Total Conveyance					489,808	490,000
			System Investment/Cost		Allocation		
11	LTCP Investment		132,401,000		0.5824%	771,151	771,000
12	Total Allocated System Investment					5,653,289	5,653,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

	Investment	Reference
Abbington	5,653,000	Line 12, Column (6)
Bensalem	8,926,000	Spltallo-36
Bucks County	27,974,000	Spltallo-37
Cheltenham	14,650,000	Spltallo-29
DELCORA	57,251,000	Spltallo-38
Lower Merion	15,528,000	Spltallo-30
Lower Moreland	2,998,000	Spltallo-31
Lower Southampton	20,881,000	Spltallo-32
Springfield (less W)	6,480,000	Spltallo-33
Springfield	1,150,000	Spltallo-35
Upper Darby	15,468,000	Spltallo-39

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNPALLO2 - Cheltenham Allocated Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-29

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 9

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO CHELTENHAM TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6)
	Treatment							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	Mcf/day	112.8563	NA		0	0	
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	6.3247	669,370		4,233,564	4,234,000	6.53%
3	- Capacity	Mcf/day	472.9831	2,803		1,325,772	1,326,000	4.99%
4	- SS	1,000 lbs	405.7550	5,252		2,131,025	2,131,000	3.03%
5	- BOD	1,000 lbs	703.2399	4,582		3,222,245	3,222,000	3.57%
6	Total Treatment					10,912,606	10,913,000	
	Conveyance							
7	Cheltenham and Tacony Creek	cfs	15,378	29.000	1.0225	455,996	456,000	
8	Bouvier Street	cfs	23,315	2.750	1.0225	65,559	66,000	
9	Total Conveyance					521,555	522,000	
			System Investment/Cost		Allocation			
10	LTCP Investment		132,401,000		2.428005%	3,214,703	3,215,000	
11	Total Allocated System Investment					14,648,864	14,650,000	

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNPALLO3 - Lower Merion Allocated Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-30

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 11

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER MERION TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.1506	722,453		5,165,972	5,166,000
2	Capacity	Mcf/day	390.6986	2,788		1,089,268	1,089,000
3	Suspended Solids	1,000 lbs	423.7242	7,315		3,099,543	3,100,000
4	BOD	1,000 lbs	634.5141	6,880		4,365,457	4,365,000
5	Total Treatment					13,720,240	13,720,000
	Conveyance						
6	City Avenue & 73rd Street	cfs	30,189	2.860	1.0225	88,283	88,000
7	City Avenue & 66rd Street	cfs	35,407	15.880	1.0225	574,914	575,000
8	City Avenue & Overbrook Station	cfs	69,259	2.290	1.0225	162,172	162,000
9	City Avenue & 59rd Street	cfs	132,481	0.330	1.0225	44,702	45,000
10	City Avenue & 54rd Street	cfs	57,917	0.050	1.0225	2,961	3,000
11	City Avenue & 51rd Street	cfs	60,355	8.470	1.0225	522,709	523,000
12	City Avenue & Conshohocken Avenue	cfs	103,583	0.390	1.0225	41,306	41,000
	City Avenue & Presidential Boulevard						
13	Sewers and Meter Station	cfs	134,831	1.300	1.0225	179,224	179,000
14	Neill Drive Pump Station	cfs	143,297	1.300	1.0225	190,478	190,000
	Barclay Building & Friends Central School						
15	Charged Inside Rates	cfs	43,227	0.052	1.0225	2,298	2,000
16	Total Conveyance					1,809,047	1,808,000
			System Investment/Cost		Allocation		
17	LTCP Investment		132,401,000		0.0000%	0	0
17	Total Allocated System Investment					15,529,287	15,528,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 12

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER MORELAND TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	112.8563	518		58,460	58,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	6.3247	95,514		604,097	604,000
3	- Capacity	Mcf/day	472.9831	518		245,005	245,000
4	- SS	1,000 lbs	405.7550	978		396,828	397,000
5	- BOD	1,000 lbs	703.2399	731		514,068	514,000
6	Total Treatment					1,818,458	1,818,000
	Conveyance						
7	Woodjavem Road and City Line	cfs	195,719	0.414	1.0225	82,851	83,000
8	Erwin Street and County Line	cfs	94,589	0.065	1.0225	6,287	6,000
9	Moreland Road and Pine Road	cfs	64,910	0.035	1.0225	2,323	2,000
10	Pine Road and Radburn Road	cfs	66,406	0.038	1.0225	2,580	3,000
11	Welsh Road and County Line	cfs	66,860	0.606	1.0225	41,429	41,000
12	City Line and Red Lion	cfs	66,860	0.017	1.0225	1,162	1,000
13	Conveyance Line	cfs	62,555	7.796	1.0225	498,652	499,000
14	PC-30 Improvements (a)		46,734,645		0.15%	70,102	70,000
15	Total Conveyance					705,386	705,000
			System Investment/Cost		Allocation		
16	LTCP Investment		132,401,000		0.35883%	475,093	475,000
16	Total Allocated System Investment					2,998,937	2,998,000

(a) Allocated 0.15 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 13

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER SOUTHAMPTON TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6)
	Treatment							
1	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton - Capacity	Mcf/day	112.8563	1,394		157,322	157,000	2.81%
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	6.3247	355,909		2,251,018	2,251,000	3.47%
3	- Capacity	Mcf/day	472.9831	1,394		659,338	659,000	2.48%
4	- SS	1,000 lbs	405.7550	6,033		2,447,920	2,448,000	3.48%
5	- BOD	1,000 lbs	703.2399	5,505		3,871,336	3,871,000	4.28%
6	Total Treatment					9,386,934	9,386,000	3.64%
	Conveyance							
7	Trevose and City Line	cfs	92,315	15.790	1.0225	1,490,451	1,490,000	
8	PC-30 Improvements (a)					8,730,032	8,730,000	
9	Total Conveyance					10,220,483	10,220,000	
			System Investment		Allocation			
10	LTCP Investment		132,401,000		0.96317%	1,275,250	1,275,000	
11	Total Allocated System Investment					20,882,667	20,881,000	

(a) Allocated 18.68 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 14

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO SPRINGFIELD (EXCL. WYNDMOOR) TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.1506	158,350		1,132,298	1,132,000
2	Capacity	Mcf/day	390.6986	407		159,014	159,000
3	Suspended Solids	1,000 lbs	423.7242	3,310		1,402,527	1,403,000
4	BOD	1,000 lbs	634.5141	3,101		1,967,628	1,968,000
5	Total Treatment					4,661,467	4,662,000
|SEE NOTE ON REVISIONS TO CONVEYANCE INFO MADE ON 9/29/95 BY JLW -->>							
	Conveyance (1)						
	Erdenheim and Stenton			Spltallo-34			
6	Sewers	cfs	139,780	2.000	1.0225	285,850	286,000
7	Central Schuylkill Pump Station	cfs	13,211	2.000	1.0225	27,016	27,000
8	Meter Station	ea	35,702	1.000	1.0225	36,505	37,000
9	Total					349,371	350,000
	Northwestern and Stenton			Spltallo-34			
10	Sewers	cfs	139,780	2.600	1.0225	371,605	372,000
11	Central Schuylkill Pump Station	cfs	13,211	2.600	1.0225	35,121	35,000
12	Meter Station	ea	10,270	1.000	1.0225	10,501	11,000
13	Total					417,227	418,000
14	Total Conveyance					766,598	768,000
			System Investment		Allocation		
15	LTCP Investment		132,401,000		0.79320%	1,050,205	1,050,000
16	Total Allocated System Investment					6,478,270	6,480,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(1) Excludes connection at Northwestern and Thomas which accounts for less than one half of one percent of township flow.

NOTE

Prior to 9/29/95, the below descriptions of facilities and units were used in B&V calculations. However, after talking to J. Palladino on 9/28/95, JLW discovered that there are now 3 connection points for Springfield Excl. Wyndmoor (aka Erdenheim). Nomenclature of the three connections are different as well.

Prior to 9/29/95:

Conveyance	Units	Investment Per Unit	Contract Units	Allocation Factor	Allocated Investment	Investment Rounded
Stenton and Erdenheim						
Sewers	cfs	139,780	4.000	1.0225	571,700	572,000
Central Schuylkill Pump Station	cfs	13,211	4.000	1.0225	54,033	54,000
Meter Station	ea	35,702	1.000	1.0225	36,505	37,000
Total					662,238	662,000
Northwestern & Wissahickon						
Sewers	cfs	139,780	0.200	1.0225	28,585	29,000
Central Schuylkill Pump Station	cfs	13,211	0.200	1.0225	2,702	3,000
Meter Station	ea	51,349	0.200	1.0225	10,501	11,000
Total					41,788	42,000
Total Conveyance					704,026	704,000

9/29/95 Revisions:

1. Stenton and Erdenheim is called Erdenheim and Stenton.
2. Northwestern and Wissahickon is called Northwestern and Stenton
3. A third connection exists (v. small and not metered, flow assumed to be 0.8 MG per quarter) called Northwestern and Thomas.
4. A large portion of the flow through the E & S connection has been shifted to the N & S connection, as mentioned in the contract dated 3/4/74, item 7.

Prior:					
March 1, 1961 Contract					
E & S	4.00	cfs	2.15	mgd	
N & S	0.20	cfs	0.10	mgd	
March 4, 1974 Contract					
E & S	1.85	cfs	0.75	mgd	<-- Revised dist. of E&S flows
N & S	0.20	cfs	0.10	mgd	
N & S	2.15	cfs	1.40	mgd	<-- Revised dist. of E&S flows
N & S	2.35	cfs	1.50	mgd	
Revised:					
E & S	2.00	cfs	1.10	mgd	
N & S	2.60	cfs	2.10	mgd	
Total	4.60	cfs	3.20	mgd	<-- Totals redistributed in proportion to March 4, 1974 contract units

5. Meter Station investment at N & S (formerly N & W) is revised to $10,270 rather than 0.2 * $51,349 to be consistent with E & S connection.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNPALLO7 - Sprngfield (Wyndmoor) Allocated Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-35

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 15

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO SPRINGFIELD (WYNDMOOR) TOWNSHIP

Test Year 2021

Line No.	Cost Component	(1) Units	(2) Investment Per Unit $ Spltallo-25	(3) Number of Contract Units Spltallo-27	(4) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(5) Allocated Investment $ (2)*(3)*(4)	(6) Allocated Investment Rounded $
	Treatment						
	Retail and Springfield (Wyndmoor)						
1	Volume	Mcf	8.1310	49,697		404,086	404,000
2	Capacity	Mcf/day	1657.4281	167		276,790	277,000
3	Suspended Solids	1,000 lbs	359.1766	204		73,272	73,000
4	BOD	1,000 lbs	414.1904	156		64,614	65,000
5	Total Treatment					818,762	819,000
	Conveyance						
6		cfs	167,854	1.930	1.0225	331,247	331,000
7	Total Conveyance					331,247	331,000
8	Total Allocated System Investment					1,150,009	1,150,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls P.N. 135647.0100 CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
TWNPALLO8 - Bensalem Allocated Investment February 07, 2020 3:17 p.m. Spltallo-36

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 7

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO BENSALEM TOWNSHIP

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	112.8563	1,034		116,693	117,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	6.3247	304,871		1,928,218	1,928,000
3	- Capacity	Mcf/day	472.9831	1,034		489,065	489,000
4	- SS	1,000 lbs	405.7550	3,758		1,524,827	1,525,000
5	- BOD	1,000 lbs	703.2399	5,343		3,757,411	3,757,000
6	Total Treatment					7,816,214	7,816,000
	Conveyance						
7	A-1	cfs	84,833	0.370	1.0225	32,094	32,000
8	A-2	cfs	105,688	0.880	1.0225	95,098	95,000
9	A-3	cfs	117,743	0.120	1.0225	14,447	14,000
10	A-4	cfs	115,847	0.080	1.0225	9,476	9,000
11	B	cfs	131,354	0.840	1.0225	112,820	113,000
12	C	cfs	72,634	0.750	1.0225	55,701	56,000
13	D	cfs	67,910	0.460	1.0225	31,941	32,000
14	E	cfs	204,911	0.380	1.0225	79,618	80,000
15	F	cfs	49,726	0.580	1.0225	29,490	29,000
16	G-1	cfs	48,680	0.270	1.0225	13,439	13,000
17	G-2	cfs	48,680	0.510	1.0225	25,385	25,000
18	H	cfs	64,044	2.720	1.0225	178,119	178,000
19	J-1	cfs	133,427	0.676	1.0225	92,226	92,000
20	J-2	cfs	38,820	0.161	1.0225	6,391	6,000
21	J-3	cfs	258,008	0.383	1.0225	101,040	101,000
22	K-1	cfs	204,907	0.430	1.0225	90,092	90,000
23	K-2	cfs	66,776	2.130	1.0225	145,433	145,000
24	PC-30 Improvements (a)					0	0
25	Total Conveyance					1,112,810	1,110,000
			System Investment		Allocation		
26	LTCP Investment		132,401,000		0.00%	0	0
26	Total Allocated System Investment					8,929,024	8,926,000

(a) Allocated 18.30 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNPALLO9 - Bucks County Allocated Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-37

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 8

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO BUCKS COUNTY

Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6) Assets in Service Prior to FY 2007 Allocated Investment Rounded $ Contribution Portion
	Treatment							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	Mcf/day	112.8563	6,556		739,886	740,000	627,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	6.3247	1,206,223		7,628,999	7,629,000	6,551,000
3	- Capacity	Mcf/day	472.9831	6,556		3,100,877	3,101,000	2,718,000
4	- SS	1,000 lbs	405.7550	13,553		5,499,198	5,499,000	4,714,000
5	- BOD	1,000 lbs	703.2399	13,422		9,438,886	9,439,000	7,953,000
6	Total Treatment					26,407,846	26,408,000	22,563,000
	Conveyance							
7	Large Sewers	cfs	18,000	85.080	1.0225	1,565,897	1,566,000	1,566,000
8	Total Conveyance					1,565,897	1,566,000	1,566,000
			System Investment		Allocation			
9	LTCP Investment		132,401,000		0.0000%	0	0	0
10	Total Allocated System Investment					27,973,743	27,974,000	24,129,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 10

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO DELCORA

Test Year 2021

Line No.	Cost Component	(1) Units	(2) Investment Per Unit $ Spltallo-25	(3) Number of Contract Units Spltallo-27	(4) Infiltration/ Inflow Capacity Allocation Factor	(5) Allocated Investment $ (2)*(3)*(4)	(6) Allocated Investment Rounded $		Assets in Service Prior to FY 2011 Allocated Investment Rounded $ Contribution Portion	
	Treatment									
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby									
1	Volume	Mcf	7.1506	2,439,840		17,446,320	17,446,000	25.00%	16,394,000	1,052,000
2	Capacity	Mcf/day	390.6986	13,392		5,232,236	5,232,000	25.04%	5,013,000	219,000
3	Suspended Solids	1,000 lbs	423.7242	19,487		8,257,113	8,257,000	10.93%	7,011,000	1,246,000
4	BOD	1,000 lbs	634.5141	21,771		13,814,006	13,814,000	17.65%	12,661,000	1,153,000
5	Total Treatment					44,749,675	44,749,000		41,079,000	3,670,000
6	Conveyance									
						0	0		0	
7	Total Conveyance					0	0		0	
			System Investment/Cost		Allocation					
8	LTCP Investment		132,401,000		9.44287%	12,502,455	12,502,000		73,000	
8	Total Allocated System Investment					57,252,130	57,251,000		41,152,000	

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 16

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO UPPER DARBY
Test Year 2021

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.1506	846,145		6,050,444	6,050,000
2	Capacity	Mcf/day	390.6986	3,094		1,208,821	1,209,000
3	Suspended Solids	1,000 lbs	423.7242	7,422		3,144,669	3,145,000
4	BOD	1,000 lbs	634.5141	6,841		4,340,711	4,341,000
5	Total Treatment					14,744,645	14,745,000
6	Conveyance						
7	60th Street and Cobbs Creek Parkway	cfs	20,191	35.000	1.0225	722,585	723,000
8	Total Conveyance					722,585	723,000
			System Investment/Cost		Allocation		
9	LTCP Investment		132,401,000		0.00000%	0	0
10	Total Allocated System Investment					15,467,230	15,468,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
CONVALLO - Treatment Plant Conveyance Investment Al P.N. 135647.0100 February 07, 2020 3:17 p.m. Spltallo-40

TREATMENT PLANT AND CONVEYANCE SYSTEM
INVESTMENT ALLOCATED TO TOWNSHIPS

Line No.	Cost Component	NEWPCP Abington $ Spltallo-28	Bensalem $ Spltallo-36	Bucks County $ Spltallo-37	Cheltenham $ Spltallo-29	Lower Moreland $ Spltallo-31	Lower Southampton $ Spltallo-32	DELCORA $ Spltallo-38	SWPCP Lower Merion $ Spltallo-30	Springfield (ex Wynd.) $ Spltallo-33	Upper Darby $ Spltallo-39	SEWPCP Springfield cludingass Wyr $ Spltallo-36	Total $
	COLLECTION SYSTEM												
1	Sewers - Capacity	490,000	1,110,000	1,566,000	522,000	705,000	10,220,000	0	1,618,000	706,000	723,000	331,000	17,991,000
2	Pumping Stations - Capacity	0	0	0	0	0	0	0	190,000	62,000	0	0	252,000
3	LTCP Investment	771,000	0	0	3,215,000	475,000	1,275,000	12,502,000	0	1,050,000	0		19,288,000
4	Total Collection System	1,261,000	1,110,000	1,566,000	3,737,000	1,180,000	11,495,000	12,502,000	1,808,000	1,818,000	723,000	331,000	37,531,000
	WATER POLLUTION CONTROL PLANTS												
	Northeast Plant:												
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton												
5	- Capacity	95,000	117,000	740,000	0	58,000	157,000						1,167,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton												
6	Volume	1,403,000	1,928,000	7,629,000	4,234,000	604,000	2,251,000						18,049,000
7	Capacity	399,000	489,000	3,101,000	1,326,000	245,000	659,000						6,219,000
8	Suspended Solids	1,015,000	1,525,000	5,499,000	2,131,000	397,000	2,448,000						13,015,000
9	BOD	1,480,000	3,757,000	9,439,000	3,222,000	514,000	3,871,000						22,283,000
10	Subtotal	4,297,000	7,699,000	25,668,000	10,913,000	1,760,000	9,229,000						59,566,000
11	Total Northeast Plant	4,392,000	7,816,000	26,408,000	10,913,000	1,818,000	9,386,000						60,733,000
	Southwest Plant:												
12	Retail - Capacity												
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby												
13	Volume							17,446,000	5,166,000	1,132,000	6,050,000		29,794,000
14	Capacity							5,232,000	1,089,000	159,000	1,209,000		7,689,000
15	Suspended Solids							8,257,000	3,100,000	1,403,000	3,145,000		15,905,000
16	BOD							13,814,000	4,365,000	1,968,000	4,341,000		24,488,000
17	Total Southwest Plant							44,749,000	13,720,000	4,662,000	14,745,000		77,876,000
	Southeast Plant:												
	Retail and Springfield (Wyndmoor)												
18	Volume											404,000	404,000
19	Capacity											277,000	277,000
20	Suspended Solids											73,000	73,000
21	BOD											65,000	65,000
22	Total Southeast Plant											819,000	819,000
23	Total Water Pollution Control Plants	4,392,000	7,816,000	26,408,000	10,913,000	1,818,000	9,386,000	44,749,000	13,720,000	4,662,000	14,745,000	819,000	139,428,000
24	Total Investment	5,653,000	8,926,000	27,974,000	14,650,000	2,998,000	20,881,000	57,251,000	15,528,000	6,480,000	15,468,000	1,150,000	176,959,000
	Total Investment Rounded from Spltallo-29 thru Spltallo-39.	5,653,000	8,926,000	27,974,000	14,650,000	2,998,000	20,881,000	57,251,000	15,528,000	6,480,000	15,468,000	1,150,000	176,959,000
	Total Collection System (above)	1,261,000	1,110,000	1,566,000	3,737,000	1,180,000	11,495,000	12,502,000	1,618,000	1,756,000	723,000	331,000	37,279,000
	Total Water Pollution Control Plants & Pumping (Difference)	4,392,000	7,816,000	26,408,000	10,913,000	1,818,000	9,386,000	44,749,000	13,910,000	4,724,000	14,745,000	819,000	139,680,000

ALLOCATION OF LAND INVESTMENT TO CONTRACT CUSTOMERS

(a) Total SWWPCP Investment	219,538,000	Spltallo-24	Ln 17
(b) Total DELCORA Allocated Treatment Plant Investment	44,749,000	Spltallo-40	Ln 17
(c) Total Upper Darby Allocated Treatment Plant Investment	14,745,000	Spltallo-40	Ln 17
(c1) Total Lower Merion Allocated Treatment Plant Investment	13,720,000	Spltallo-40	Ln 17
(d) Total SWWPCP Land Investment	686,000	Spltallo-9	Ln 18
(e) Total SWWPCP Depreciable Plant Investment	218,852,000	(a) - (d)	

Lower Merion Allocated Land=	(c1)-{((e)/(a))*(c1)}=	43,000
DELCORA Allocated Land =	(b)-{((e)/(a))*(b)} =	140,000
Upper Darby Allocated Land =	(c)-{((e)/(a))*(c)} =	46,000

(a) Total NEWPCP Investment	257,603,000	Spltallo-24	Ln 11
(b) Total Bensalem Allocated Treatment Plant Investment	7,816,000	Spltallo-40	Ln 11
(c) Total Bucks County Allocated Treatment Plant Investment	26,408,000	Spltallo-40	Ln 11
(d) Total Lower Southampton Allocated Treatment Plant Investment	9,386,000	Spltallo-40	Ln 11
(e) Total NEWWPCP Land Investment	943,000	Spltallo-6	Ln 21
(f) Total NEWPCP Depreciable Plant Investment	256,660,000	(a) - (e)	

Bensalem Allocated Land =	(b)-{((f)/(a))*(b)} =	29,000
Bucks County Allocated Land =	(c)-{((f)/(a))*(c)} =	97,000
Lower Southampton Allocated Land =	(d)-{((f)/(a))*(d)} =	34,000

	(1) Total Land $1,000 Spltallo-8 Spltallo-9 Spltallo-10	(2) Total Investment $1,000 Spltallo-24	(3) Total Investment Alloc to Contract Customers $1,000 Spltallo-24	(4) Total Land Alloc to Contract Customers $1,000 (a)	
NEWPCP	943	257,603	60,733	62	(excl. Bensalem, Bucks County, and Lower Southampton above)
SWWPCP	686	219,538	77,876	14	(excl. DELCORA, Lower Merion and Upper Darby above)
SEWPCP	156	141,384	819	1	
Total	1,785	618,525	139,428	77	

(a) (1)*(3)/(2) - Bensalem, Bucks Co., Lower Southampton, DELCORA, Lower Merion, and Upper Darby above.

TOTAL DEPRECIABLE PUMPING AND TREATMENT INVESTMENT FOR CONTRACT CUSTOMERS

Contract Customer	(1) Total Treatment Investment $1,000 Spltallo-40	(2) Less Land $1,000 Spltallo-41	(3) Total Depreciable Treatment Investment $1,000 (1)-(2)	(4) Pumping Investment $1,000 Spltallo-40	(5) Total Depreciable P & T Investment $1,000 (3)+(4)
Abington	4,392	16	4,376		4,376
Bensalem	7,816	29	7,787		7,787
Bucks County	26,408	97	26,311		26,311
Cheltenham	10,913	39	10,874		10,874
Lower Moreland	1,818	7	1,811		1,811
Lower Southampton	9,386	34	9,352		9,352
Total NEWPCP	60,733	222	60,511		60,511
DELCORA	44,749	140	44,609		44,609
Lower Merion	13,720	43	13,677	190	13,867
Springfield (excluding Wynd)	4,662	14	4,648	62	4,710
Upper Darby	14,745	46	14,699		14,699
Total SWWPCP	77,876	243	77,633	252	77,885
Springfield (includingass Wynd)	819	1	818		818
Total SEWPCP	819	1	818		818
Total Treatment	139,428	466	138,962	252	139,214

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TWNSHP - Township Contributed Investment	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-43

DELCORA CONTRIBUTED INVESTMENT

		(1) Total Investment $1,000 Spltallo-40	(2) Allocated Land $1,000 Spltallo-41	(3) Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity			
Treat & Pumping-				
	Volume	16,394	56	16,338
	Capacity	5,013	17	4,996
	Suspended Solids	7,011	24	6,987
	BOD	12,661	43	12,618
	Total	41,079	140	40,939

DELCORA is no longer a contribution customer - This portion reflects the assets prior to 2011 to reflect their contribution

UPPER DARBY CONTRIBUTED INVESTMENT

		(1) Total Investment $1,000 Spltallo-40	(2) Allocated Land $1,000 Spltallo-41	(3) Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	723		723
Treat & Pumping-				
	Volume	6,050	19	6,031
	Capacity	1,209	4	1,205
	Suspended Solids	3,145	10	3,135
	BOD	4,341	14	4,327
	Total	14,745	46	14,698

BENSALEM CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	1,110		1,110
Treat & Pumping-				
	Volume	1,928	7	1,921
	Capacity	606	2	604
	Suspended Solids	1,525	6	1,519
	BOD	3,757	14	3,743
	Total	7,816	29	7,787

BUCKS COUNTY CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	627		627
Treat & Pumping-				
	Volume	6,551	29	6,522
	Capacity	2,718	12	2,706
	Suspended Solids	4,714	21	4,693
	BOD	7,953	35	7,918
	Total	21,936	97	21,839

BUCKS County is no longer a contribution customer - This portion reflects the assets prior to 2007 to reflect their contribution

LOWER SOUTHAMPTON CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	1,703		1,703
Treat & Pumping-				
	Volume	375	1	374
	Capacity	136	1	135
	Suspended Solids	408	2	406
	BOD	645	2	644
	Total	1,564	6	1,559

Lower Southampton is no longer a contribution customer - This portion reflects their remaining contribution (phased out over 18 years)

LOWER MERION CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	1,618		1,618
Treat & Pumping-				
	Volume	5,166	16	5,150
	Capacity	1,089	3	1,086
	Suspended Solids	3,100	10	3,090
	BOD	4,365	14	4,351
	Total	13,720	43	13,677

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
TYDepr - Test Year Annual Depreciation Expense	P.N. 135647.0100	February 07, 2020 3:17 p.m.			Spltallo-44

TEST YEAR ANNUAL DEPRECIATION EXPENSE

Line No.	Cost Component	(1) Total Investment $1,000 Spltallo-24	(2) Less Contributed Plant (a) $1,000 Spltallo-43	(3) Less Land (d) $1,000 Spltallo-5 Spltallo-41	(4) Depreciable Plant $1,000 (1)-(2)-(3)	(5) Annual Depr Rate % Input	(6) Annual Depreciation Expense $1,000 (4)*(5)
	COLLECTION SYSTEM						
1	Sewers - Capacity	1,649,393	5,781	1,816	1,641,796	2.00%	32,836
2	Pumping Stations - Capacity	28,659	190		28,469	2.50%	712
3	LTCP Investment	132,401			132,401	2.00%	2,648
4	Total Collection System	1,810,453	5,971	1,816 (b)	1,802,666		36,196
	WATER POLLUTION CONTROL PLANTS						
	Northeast Plant:						
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
5	Volume (c)	64,809	8,817	237	55,755		
6	Capacity	32,141	3,445	118	28,578		
7	Suspended Solids	70,293	6,618	257	63,418		
8	BOD	90,360	12,305	331	77,725		
9	Total Northeast Plant	257,603	31,185	943	225,475	2.50%	5,637
	Southwest Plant:						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
10	Volume	69,783	27,519	218	42,046		
11	Capacity	43,445	7,287	136	36,022		
12	Suspended Solids	56,363	13,212	176	42,975		
13	BOD	49,947	21,296	156	28,495		
14	Total Southwest Plant	219,538	69,314	686	149,538	2.50%	3,738
	Southeast Plant:						
	Retail and Springfield (Wyndmoor)						
15	Volume	44,436		49	44,387		
16	Capacity	49,635		55	49,580		
17	Suspended Solids	23,729		26	23,703		
18	BOD	23,584		26	23,558		
19	Total Southeast Plant	141,384		156	141,228	2.50%	3,531
20	Total Water Pollution Control Plants	618,525	100,499	1,785	516,241		12,906
21	Total Investment	2,428,978	106,470	3,601	2,318,907		49,102

(a) Contributed Plant includes Bensalem, Bucks County, Lower Southampton, DELCORA, Lower Merion, and Upper Darby.
(b) All land backed out of Sewers, instead of Sewers and Pump Stations, because land only added into Sewers on SPLTALLO5, BOX 4.
(c) Typical Volume calculation in Column (2) from numbers on Spltallo-43 is: 1,921.0 (Bensalem) + 6,522.0 (Bucks Co.) + 374.2 (Lower Southampton) = 8,817.2 (excludes land)
(d) Total land including contributed land.

AVERAGE TEST YEAR DEPRECIABLE PLANT INVESTMENT ALLOCABLE TO CONTRACT CUSTOMERS

Line No.	Cost Component	(1) Total Investment $1,000 Spltallo-24	(2) Investment Allocated to Contract Service $1,000 Spltallo-40	(3) Investment Allocated to Retail Service $1,000 (1)-(2)	(4) Contract Customer Land excl. Contributed Plant (a) $1,000 Spltallo-41 Prorated on (3)	(5) Contract Customer Depreciable Plant incl. Contributed Plant $1,000 (2)-(4)	(6) Contributed Plant (incl. Land) $1,000 Spltallo-43 Spltallo-44	(7) Contract Customer Depreciable Plant $1,000 (5)-(6)	(8) Depreciation Rate	(9) Annual Depreciation Expense $1,000 (7) x (8)
	COLLECTION SYSTEM									
1	Sewers - Capacity	1,649,393	17,991	1,631,402		17,991	5,781	12,210	2.00%	244
2	Pumping Stations - Capacity	28,659	252	28,407		252	190	62	2.50%	2
3	LTCP Investment	132,401	19,288	113,113		19,288	0	19,288	2.00%	386
4	Total Collection System	1,810,453	37,531	1,772,922		37,531	5,971	31,560		632
	WATER POLLUTION CONTROL PLANTS									
	Northeast Plant:									
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton									
5	Volume (b)	64,809	18,049	46,760	15	18,034	8,854	9,180		
6	Capacity	32,141	7,386	24,755	8	7,378	3,460	3,918		
7	Suspended Solids	70,293	13,015	57,278	18	12,997	6,647	6,350		
8	BOD	90,360	22,283	68,077	21	22,262	12,355	9,907		
9	Total Northeast Plant	257,603	60,733	196,870	62	60,671	31,316	29,355	2.50%	734
	Southwest Plant:									
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby									
10	Volume	69,783	29,794	39,989	4	29,790	27,610	2,180		
11	Capacity	43,445	7,689	35,756	4	7,685	7,311	374		
12	Suspended Solids	56,363	15,905	40,458	4	15,901	13,256	2,645		
13	BOD	49,947	24,488	25,459	2	24,486	21,367	3,119		
14	Total Southwest Plant	219,538	77,876	141,662	14	77,862	69,544	8,318	2.50%	208
	Southeast Plant:									
	Retail and Springfield (Wyndmoor)									
15	Volume	44,436	404	44,032	1	403		403		
16	Capacity	49,635	277	49,358		277		277		
17	Suspended Solids	23,729	73	23,656		73		73		
18	BOD	23,584	65	23,519		65		65		
19	Total Southeast Plant	141,384	819	140,565	1	818		818	2.50%	20
20	Total Water Pollution Control Plants	618,525	139,428	479,097	77	139,351	100,860	38,491		962
21	Total Investment	2,428,978	176,959	2,252,019	77	176,882	106,832	70,050		1,594

(a) Contributed Plant includes Bensalem, Bucks County, Lower Southampton, DELCORA, Lower Merion, and Upper Darby.
(b) Typical Volume calculation in Column (6) from numbers on Spltallo-43 is: 1,928.0 (Bensalem) + 6,551.0 (Bucks Co.) + 375.2 (Lower Southampton) = 8,854.2

DETERMINATION OF DEPRECIABLE PLANT INVESTMENT ALLOCABLE TO RETAIL SERVICE TEST YEAR 2021

Line No.	Cost Component	(1) Total Depreciable Plant $1,000 Spltallo-44	(2) Contract Customers Depreciable Plant $1,000 Spltallo-45	(3) Net Depreciable Plant Allocable to Retail $1,000 (1)-(2)	(4) Annual Depr Rate %	(5) Net Depreciation Allocable to Retail $1,000
	COLLECTION SYSTEM					
1	Sewers - Capacity	1,641,796	12,210	1,629,586	2.00%	32,592
2	Pumping Stations - Capacity	28,469	62	28,407	2.50%	710
3	LTCP Investment	132,401	19,288	113,113	2.00%	2,262
3	Total Collection System	1,802,666	31,560	1,771,106		35,564
	WATER POLLUTION CONTROL PLANTS					
	Northeast Plant:					
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton					
4	Volume	55,755	9,180	46,575		
5	Capacity	28,578	3,918	24,660		
6	Suspended Solids	63,418	6,350	57,068		
7	BOD	77,725	9,907	67,818		
8	Total Northeast Plant	225,475	29,355	196,121	2.50%	4,903
	Southwest Plant:					
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby					
9	Volume	42,046	2,180	39,866		
10	Capacity	36,022	374	35,648		
11	Suspended Solids	42,975	2,645	40,330		
12	BOD	28,495	3,119	25,376		
13	Total Southwest Plant	149,538	8,318	141,220	2.50%	3,531
	Southeast Plant:					
	Retail and Springfield (Wyndmoor)					
14	Volume	44,387	403	43,984		
15	Capacity	49,580	277	49,303		
16	Suspended Solids	23,703	73	23,630		
17	BOD	23,558	65	23,493		
18	Total Southeast Plant	141,228	818	140,410	2.50%	3,510
19	Total Water Pollution Control Plants	516,241	38,491	477,751		11,944
20	Total Investment	2,318,907	70,050	2,248,857		47,508

SCOS19_21.XLS

SOMALLO

The "Somallo" worksheet allocates Wastewater System operation and maintenance expense to functional cost components. It also allocates O&M expense to the individual contract customers.

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File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
TYO&M - Test Year O&M Expenses	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-2

Ref: Direct O&M - 3, Direct O&M - 6, Other Dept O&M - 3
Source: Financial Planning Model

Summary of Combined
O&M Expense Projections
(Liquidated Encumbrances Have Been Deducted)

	Prior to FY 2017 Not Included									Future Years Beyond Projection Period						
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
Operations Division:																
Class 100	0	0	80,747,114	87,963,683	90,940,630	94,005,031	96,730,959	99,536,546	102,423,986	105,393,536	108,449,521	111,594,330	114,830,424	118,161,333	121,588,662	125,114,093
Class 200	0	0	78,881,601	83,221,714	86,500,575	89,453,529	92,604,827	95,960,282	99,449,827	103,078,959	106,853,400	110,779,109	114,862,289	119,109,400	123,527,169	128,122,597
Class 300	0	0	32,318,788	33,071,506	34,425,752	35,837,518	37,311,334	38,850,047	40,456,367	42,133,412	43,884,448	45,712,896	47,622,342	49,616,542	51,699,433	53,875,140
Class 400	0	0	4,195,679	4,346,955	4,433,894	4,522,572	4,613,024	4,705,284	4,799,390	4,895,378	4,993,285	5,093,151	5,195,014	5,298,914	5,404,892	5,512,990
Total	0	0	196,143,182	208,603,858	216,300,851	223,818,650	231,260,143	239,052,158	247,129,569	255,501,284	264,180,653	273,179,485	282,510,068	292,186,189	302,220,157	312,624,820
Other Department Expenses:																
WRB	0	0	15,815,608	16,539,475	17,081,037	17,640,875	18,219,623	18,817,943	19,436,517	20,076,053	20,737,285	21,420,971	22,127,901	22,858,888	23,614,780	24,396,451
Law Department	0	0	3,303,289	3,121,940	3,219,742	3,320,682	3,424,864	3,532,394	3,643,383	3,757,946	3,876,200	3,998,269	4,124,278	4,254,360	4,388,648	4,527,284
Public Properties	0	0	4,265,847	4,270,347	4,355,754	4,442,869	4,531,726	4,622,361	4,714,808	4,809,104	4,905,286	5,003,392	5,103,460	5,205,529	5,309,640	5,415,833
Water Dept. (Xfer to Gen'l. Fund)	0	0	8,052,752	7,686,000	7,755,174	7,824,971	7,895,395	7,966,454	8,038,152	8,110,495	8,183,490	8,257,141	8,331,455	8,406,439	8,482,096	8,558,435
Total	0	0	31,437,496	31,617,762	32,411,708	33,229,397	34,071,609	34,939,152	35,832,860	36,753,599	37,702,261	38,679,774	39,687,094	40,725,216	41,795,164	42,898,002
Human Resources:																
Class 100	0	0	9,009,476	8,876,855	9,134,284	9,399,178	9,671,754	9,952,235	10,240,850	10,537,834	10,843,432	11,157,891	11,481,470	11,814,433	12,157,051	12,509,606
Class 200	0	0	2,476,880	2,527,619	2,632,440	2,741,651	2,855,381	2,973,818	3,097,164	3,225,623	3,359,406	3,498,734	3,643,836	3,794,952	3,952,330	4,116,231
Class 300	0	0	743,158	712,780	733,430	754,689	776,562	799,066	822,221	846,046	870,561	895,785	921,738	948,443	975,920	1,004,192
Class 400	0	0	214,297	377,198	384,742	392,437	400,286	408,291	416,457	424,786	433,282	441,948	450,787	459,802	468,999	478,378
Total	0	0	12,443,811	12,494,452	12,884,896	13,287,955	13,703,983	14,133,411	14,576,692	15,034,290	15,506,680	15,994,357	16,497,831	17,017,630	17,554,300	18,108,407
Finance and Administration:																
Class 100	0	0	3,193,307	2,862,364	2,945,373	3,030,789	3,118,682	3,209,123	3,302,188	3,397,952	3,496,492	3,597,890	3,702,229	3,809,594	3,920,072	4,033,754
Class 200	0	0	6,068,498	5,974,096	6,221,979	6,480,171	6,749,071	7,029,121	7,320,789	7,624,557	7,940,927	8,270,420	8,613,581	8,970,977	9,343,198	9,730,859
Class 2xx	0	0	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 300	0	0	38,761	34,522	35,523	36,553	37,613	38,704	39,826	40,981	42,169	43,391	44,649	45,944	47,276	48,647
Class 400	0	0	26,798	32,219	32,864	33,521	34,191	34,875	35,573	36,284	37,010	37,750	38,505	39,275	40,061	40,862
Total	0	0	34,327,363	33,903,202	34,235,739	34,581,034	34,939,557	35,311,823	35,698,376	36,099,774	36,516,597	36,949,452	37,398,965	37,865,790	38,350,607	38,854,121
Planning & Engineering																
Class 100	0	0	17,181,637	19,261,605	21,618,191	24,018,977	26,578,431	29,267,038	32,088,794	33,019,711	33,976,817	34,962,153	35,976,276	37,019,761	38,093,198	39,198,195
Class 200	0	0	17,076,082	22,159,568	23,079,190	24,036,977	25,034,511	26,073,443	27,155,491	28,282,444	29,456,166	30,678,596	31,951,758	33,277,756	34,658,783	36,097,123
Class 300	0	0	1,443,192	1,417,435	1,458,541	1,500,839	1,544,363	1,589,150	1,635,235	1,682,657	1,731,454	1,781,666	1,833,334	1,886,501	1,941,210	1,997,505
Class 400	0	0	401,048	634,189	646,872	659,810	673,006	686,466	700,196	714,199	728,483	743,053	757,914	773,072	788,534	804,305
Total	0	0	36,101,959	43,472,797	46,802,795	50,216,602	53,830,311	57,616,097	61,579,715	63,699,012	65,892,920	68,165,468	70,519,283	72,957,091	75,481,724	78,097,126
Information Science & Technology																
Class 100	0	0	6,502,251	7,263,204	7,473,837	7,690,578	7,913,605	8,143,100	8,379,250	8,622,248	8,872,293	9,129,589	9,394,348	9,666,784	9,947,120	10,235,587
Class 200	0	0	15,249,284	17,748,667	15,152,437	15,781,263	16,436,185	17,118,287	17,828,696	18,568,587	19,339,183	20,141,759	20,977,642	21,848,214	22,754,915	23,699,244
Class 300	0	0	1,967,863	1,486,310	1,529,413	1,573,766	1,619,405	1,666,368	1,714,693	1,764,419	1,815,587	1,868,239	1,922,418	1,978,168	2,035,535	2,094,565
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	23,719,398	26,498,181	24,155,687	25,045,607	25,969,195	26,927,754	27,922,638	28,955,253	30,027,063	31,139,587	32,294,407	33,493,166	34,737,570	36,029,396
Public Affairs:																
Class 100	0	0	4,922,385	4,818,574	4,958,313	5,102,104	5,250,065	5,402,317	5,558,984	5,720,195	5,886,080	6,056,777	6,232,423	6,413,164	6,599,145	6,790,520
Class 200	0	0	6,921,779	7,060,020	7,353,233	7,658,497	7,976,465	8,307,666	8,652,627	9,011,918	9,386,137	9,775,902	10,181,860	10,604,684	11,045,074	11,503,769
Class 300	0	0	359,415	352,969	363,216	373,754	384,600	395,761	407,248	419,067	431,231	443,747	456,627	469,882	483,521	497,557
Class 400	0	0	1,562	2,300	2,346	2,393	2,441	2,490	2,539	2,590	2,642	2,695	2,749	2,804	2,860	2,917
Total	0	0	12,205,141	12,233,863	12,677,108	13,136,748	13,613,571	14,108,234	14,621,398	15,153,770	15,706,090	16,279,121	16,873,660	17,490,533	18,130,600	18,794,754
Total Water Department:																
Class 100	0	0	121,556,170	131,046,286	137,070,628	143,246,657	149,263,496	155,510,359	161,994,051	166,691,476	171,524,635	176,498,630	181,617,169	186,885,067	192,305,249	197,881,754
Class 200	0	0	126,674,123	138,691,684	140,939,855	146,152,087	151,656,440	157,462,617	163,504,594	169,792,088	176,335,217	183,144,520	190,230,967	197,605,984	205,281,469	213,269,813
Class 300	0	0	36,871,177	37,075,522	38,545,875	40,077,120	41,673,877	43,339,095	45,075,589	46,886,581	48,775,448	50,745,724	52,801,109	54,945,479	57,182,895	59,517,606
Class 400	0	0	4,839,384	5,392,861	5,500,718	5,610,733	5,722,948	5,837,406	5,954,155	6,073,238	6,194,702	6,318,596	6,444,968	6,573,868	6,705,345	6,839,452
Class 500																
Pension & Benefits Including Capital (270)	0	0	133,769,482	140,205,000	145,346,111	149,586,874	154,521,848	158,505,662	161,547,967	166,409,355	171,456,396	176,696,823	182,138,712	187,790,494	193,659,974	199,758,342
Indemnities	0	0	3,316,246	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293	4,233,293
Subtotal	0	0	427,026,583	456,644,647	471,636,481	488,906,764	507,071,902	524,888,432	542,309,649	560,086,032	578,519,692	597,637,586	617,466,219	638,034,186	659,368,226	681,500,261
Other Department Expenses	0	0	31,437,496	31,617,762	32,411,708	33,229,397	34,071,609	34,939,152	35,832,860	36,753,599	37,702,261	38,679,774	39,687,094	40,725,216	41,795,164	42,898,002
Total	0	0	458,464,079	488,262,409	504,048,188	522,136,161	541,143,512	559,827,585	578,142,509	596,839,630	616,221,953	636,317,360	657,153,313	678,759,402	701,163,390	724,398,263

Cash Flow Figures

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
WO&M - Test Year O&M Expenses - Water	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-3

Ref: Direct O&M - 4, Direct O&M - 6, Other Dept O&M - 4
Source: Financial Planning Model

O & M Expense Projections
(Liquidated Encumbrances Have Been Deducted)

	Prior to FY 2017 Not Included									Future Years Beyond Projection Period Not Provided						
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Operations Division:																
Class 100	0	0	34,372,176	39,167,071	40,302,916	41,472,178	42,674,738	43,912,505	45,186,411	46,496,419	47,844,517	49,231,723	50,659,084	52,128,678	53,640,612	55,196,029
Class 200	0	0	20,437,930	21,418,471	22,234,646	22,874,008	23,574,895	24,338,774	25,132,399	25,956,990	26,813,825	27,704,226	28,629,574	29,591,310	30,590,933	31,630,000
Class 300	0	0	21,601,196	21,942,121	22,918,791	23,938,457	25,006,089	26,123,978	27,294,118	28,519,022	29,801,329	31,143,806	32,549,359	34,021,030	35,562,019	37,175,676
Class 400	0	0	2,006,194	2,078,528	2,120,098	2,162,500	2,205,750	2,249,865	2,294,862	2,340,760	2,387,575	2,435,326	2,484,033	2,533,714	2,584,388	2,636,076
Total	0	0	78,417,496	84,606,190	87,576,451	90,447,143	93,461,472	96,625,122	99,907,790	103,313,192	106,847,247	110,515,081	114,322,050	118,274,732	122,377,952	126,637,782
Other Department Expenses:																
WRB	0	0	5,282,413	5,524,185	5,705,066	5,892,052	6,085,354	6,285,193	6,491,797	6,705,402	6,926,254	7,154,605	7,390,719	7,634,868	7,887,336	8,148,415
Law Department	0	0	1,222,217	1,155,117	1,191,305	1,228,653	1,267,200	1,306,987	1,348,052	1,390,439	1,434,193	1,479,359	1,525,984	1,574,114	1,623,799	1,675,095
Public Properties	0	0	1,535,705	1,537,325	1,568,071	1,599,433	1,631,422	1,664,050	1,697,331	1,731,278	1,765,903	1,801,221	1,837,246	1,873,990	1,911,470	1,949,700
Water Dept. (Xfer to Gen'l. Fund)	0	0	2,898,991	2,766,960	2,791,863	2,816,989	2,842,342	2,867,923	2,893,735	2,919,778	2,946,056	2,972,571	2,999,324	3,026,318	3,053,555	3,081,037
Total	0	0	10,939,326	10,983,587	11,256,305	11,537,127	11,826,318	12,124,153	12,430,915	12,746,897	13,072,406	13,407,756	13,753,273	14,109,290	14,476,160	14,854,247
Human Resources:																
Class 100	0	0	2,792,938	2,751,825	2,831,628	2,913,745	2,998,244	3,085,193	3,174,663	3,266,729	3,361,464	3,458,946	3,559,256	3,662,474	3,768,686	3,877,978
Class 200	0	0	784,356	798,841	832,144	866,749	902,816	940,404	979,564	1,020,360	1,062,862	1,107,139	1,153,268	1,201,325	1,251,391	1,303,550
Class 300	0	0	235,336	225,270	231,845	238,588	245,533	252,687	260,050	267,629	275,432	283,462	291,728	300,238	308,997	318,013
Class 400	0	0	66,432	116,931	119,270	121,655	124,089	126,570	129,102	131,684	134,317	137,004	139,744	142,539	145,390	148,297
Total	0	0	3,879,063	3,892,867	4,014,887	4,140,737	4,270,682	4,404,854	4,543,379	4,686,402	4,834,075	4,986,551	5,143,996	5,306,576	5,474,464	5,647,838
Finance and Administration:																
Class 100	0	0	1,213,457	1,087,698	1,119,242	1,151,700	1,185,099	1,219,467	1,254,831	1,291,222	1,328,667	1,367,198	1,406,847	1,447,646	1,489,627	1,532,827
Class 200	0	0	2,350,521	2,309,854	2,406,150	2,506,211	2,610,497	2,719,185	2,832,416	2,950,378	3,073,272	3,201,301	3,334,682	3,473,639	3,618,406	3,769,225
Class 300	0	0	15,014	13,347	13,738	14,137	14,549	14,972	15,409	15,858	16,320	16,796	17,286	17,790	18,309	18,843
Class 400	0	0	10,183	12,243	12,488	12,738	12,993	13,253	13,518	13,788	14,064	14,345	14,632	14,925	15,223	15,528
Total	0	0	3,589,175	3,423,142	3,551,618	3,684,785	3,823,138	3,966,878	4,116,174	4,271,246	4,432,323	4,599,640	4,773,447	4,954,000	5,141,565	5,336,423
Planning & Engineering																
Class 100	0	0	4,626,888	5,255,884	6,015,789	6,899,726	7,785,851	8,717,852	9,697,040	9,978,397	10,267,627	10,565,406	10,871,882	11,187,215	11,511,565	11,845,497
Class 200	0	0	5,860,173	6,316,858	6,580,204	6,853,844	7,139,042	7,436,276	7,745,934	8,068,531	8,404,611	8,754,738	9,119,501	9,499,513	9,895,413	10,307,865
Class 300	0	0	513,238	416,187	428,334	440,792	453,624	466,839	480,443	494,445	508,859	523,696	538,968	554,689	570,871	587,529
Class 400	0	0	156,529	247,488	252,439	257,487	262,636	267,890	273,247	278,712	284,286	289,972	295,771	301,687	307,720	313,875
Total	0	0	11,156,828	12,236,417	13,276,766	14,451,849	15,641,152	16,888,857	18,196,664	18,820,085	19,465,383	20,133,812	20,826,123	21,543,103	22,285,569	23,054,765
Information Science & Technology																
Class 100	0	0	3,586,136	4,005,819	4,121,988	4,241,526	4,364,530	4,491,101	4,621,343	4,755,362	4,893,268	5,035,172	5,181,192	5,331,447	5,486,059	5,645,154
Class 200	0	0	7,779,279	9,054,315	7,729,873	8,050,662	8,384,765	8,732,733	9,095,141	9,472,589	9,865,702	10,275,129	10,701,546	11,145,661	11,608,205	12,089,946
Class 300	0	0	1,131,169	854,362	879,138	904,634	930,868	957,863	985,641	1,014,225	1,043,637	1,073,903	1,105,046	1,137,092	1,170,068	1,204,000
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	12,496,584	13,914,496	12,730,999	13,196,822	13,680,163	14,181,697	14,702,125	15,242,176	15,802,607	16,384,204	16,987,784	17,614,200	18,264,332	18,939,100
Public Affairs:																
Class 100	0	0	2,461,193	2,409,287	2,479,157	2,551,052	2,625,033	2,701,159	2,779,492	2,860,097	2,943,040	3,028,388	3,116,212	3,206,582	3,299,573	3,395,260
Class 200	0	0	3,514,539	3,579,623	3,728,854	3,883,920	4,045,535	4,213,971	4,389,448	4,572,256	4,762,705	4,961,114	5,167,817	5,383,162	5,607,510	5,841,237
Class 300	0	0	182,493	178,965	184,188	189,545	195,063	200,746	206,595	212,617	218,815	225,194	231,762	238,522	245,481	252,643
Class 400	0	0	781	1,150	1,173	1,196	1,220	1,245	1,270	1,295	1,321	1,347	1,374	1,402	1,430	1,458
Total	0	0	6,159,007	6,169,024	6,393,372	6,625,713	6,866,851	7,117,121	7,376,804	7,646,264	7,925,880	8,216,043	8,517,165	8,829,668	9,153,993	9,490,598
Total Water Department:																
Class 100	0	0	49,052,788	54,677,584	56,870,720	59,229,927	61,633,495	64,127,277	66,713,780	68,648,226	70,638,583	72,686,833	74,794,473	76,964,042	79,196,122	81,492,745
Class 200	0	0	40,726,799	43,477,961	43,511,871	45,035,393	46,657,550	48,381,345	50,174,902	52,041,104	53,982,977	56,003,647	58,106,388	60,294,610	62,571,857	64,941,823
Class 300	0	0	23,678,446	23,630,252	24,656,033	25,726,153	26,845,725	28,017,085	29,242,255	30,523,796	31,864,392	33,266,857	34,734,149	36,269,361	37,875,744	39,556,704
Class 400	0	0	2,240,119	2,456,340	2,505,468	2,555,576	2,606,688	2,658,823	2,711,999	2,766,239	2,821,563	2,877,994	2,935,554	2,994,267	3,054,151	3,115,234
Class 500																
Pension & Benefits Including Capital (270)	0	0	53,096,989	57,373,135	59,191,076	60,744,417	62,683,196	64,233,848	65,401,421	67,369,434	69,412,617	71,533,993	73,736,813	76,024,985	78,401,104	80,870,029
Indemnities	0	0	1,227,011	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319	1,566,319
Subtotal	0	0	170,022,152	183,181,591	188,301,487	194,857,785	201,992,973	208,984,696	215,810,676	222,915,118	230,286,450	237,935,643	245,873,696	254,113,584	262,665,297	271,542,854
Other Department Expenses	0	0	10,939,326	10,983,587	11,256,305	11,537,127	11,826,318	12,124,153	12,430,915	12,746,897	13,072,406	13,407,756	13,753,273	14,109,290	14,476,160	14,854,247
Total	0	0	180,961,478	194,165,178	199,557,792	206,394,912	213,819,291	221,108,849	228,241,591	235,662,015	243,358,856	251,343,399	259,626,969	268,222,874	277,141,457	286,397,101

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SO&M - Test Year O&M Expenses - Sewer	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-4

Ref: Direct O&M - 5, Direct O&M - 6, Other Dept O&M - 5
Source: Financial Planning Model

Summary of Sewer System
O & M Expense Projections
(Liquidated Encumbrances Have Not Been Deducted Yet)

	Prior to FY 2017 Not Included									Future Years Beyond Projection Period Not Provided						
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Operations Division:																
Class 100	0	0	46,374,938	48,796,612	50,637,714	52,532,853	54,056,221	55,624,041	57,237,575	58,897,117	60,605,004	62,362,607	64,171,340	66,032,655	67,948,050	69,918,064
Class 200	0	0	58,443,671	61,803,243	64,265,929	66,579,521	69,029,932	71,621,508	74,317,428	77,121,968	80,039,574	83,074,883	86,232,715	89,518,090	92,936,236	96,492,597
Class 300	0	0	10,717,592	11,129,386	11,506,961	11,899,061	12,305,245	12,726,068	13,162,249	13,614,390	14,083,118	14,569,089	15,072,983	15,595,512	16,137,414	16,699,464
Class 400	0	0	2,189,485	2,268,427	2,313,796	2,360,072	2,407,274	2,455,419	2,504,528	2,554,618	2,605,710	2,657,825	2,710,981	2,765,200	2,820,504	2,876,914
Total	0	0	117,725,686	123,997,668	128,724,401	133,371,507	137,798,671	142,427,036	147,221,779	152,188,093	157,333,407	162,664,404	168,188,018	173,911,457	179,842,205	185,987,039
Other Department Expenses:																
WRB	0	0	10,533,195	11,015,290	11,375,971	11,748,823	12,134,269	12,532,750	12,944,720	13,370,651	13,811,031	14,266,366	14,737,182	15,224,020	15,727,444	16,248,036
Law Department	0	0	2,081,072	1,966,823	2,028,437	2,092,029	2,157,664	2,225,407	2,295,331	2,367,507	2,442,007	2,518,910	2,598,294	2,680,246	2,764,849	2,852,189
Public Properties	0	0	2,730,142	2,733,022	2,787,683	2,843,436	2,900,304	2,958,311	3,017,477	3,077,826	3,139,383	3,202,171	3,266,214	3,331,539	3,398,170	3,466,133
Mayor's Office of Transportation & Utilities	0	0	148,751	672,259	697,997	724,738	752,527	781,402	811,407	842,587	874,987	908,659	943,651	980,017	1,017,810	1,057,090
Fleet Management	0	0	4,781,826	4,769,703	4,918,096	5,071,211	5,229,202	5,392,227	5,560,452	5,734,048	5,913,190	6,098,061	6,288,850	6,485,749	6,688,960	6,898,694
Procurement	0	0	57,713	64,513	66,383	68,308	70,290	72,328	74,426	76,584	78,805	81,090	83,442	85,862	88,351	90,914
Water Dept. (Xfer to Gen'l. Fund)	0	0	5,153,761	4,919,040	4,963,311	5,007,982	5,053,053	5,098,531	5,144,417	5,190,717	5,237,434	5,284,570	5,332,131	5,380,121	5,428,541	5,477,398
Total	0	0	25,486,460	26,140,650	26,837,880	27,556,528	28,297,310	29,060,955	29,848,230	30,659,921	31,496,837	32,359,828	33,249,764	34,167,554	35,114,126	36,090,453
Human Resources:																
Class 100	0	0	6,216,538	6,125,030	6,302,656	6,485,433	6,673,510	6,867,042	7,066,187	7,271,105	7,481,968	7,698,945	7,922,214	8,151,959	8,388,365	8,631,628
Class 200	0	0	1,692,524	1,728,778	1,800,296	1,874,903	1,952,566	2,033,414	2,117,600	2,205,263	2,296,544	2,391,595	2,490,568	2,593,627	2,700,939	2,812,680
Class 300	0	0	507,821	487,510	501,584	516,101	531,029	546,379	562,171	578,417	595,129	612,322	630,010	648,205	666,923	686,179
Class 400	0	0	147,865	260,267	265,472	270,782	276,197	281,721	287,355	293,102	298,965	304,944	311,043	317,263	323,609	330,081
Total	0	0	8,564,748	8,601,585	8,870,008	9,147,219	9,433,301	9,728,557	10,033,313	10,347,888	10,672,606	11,007,806	11,353,835	11,711,054	12,079,836	12,460,569
Finance and Administration:																
Class 100	0	0	1,979,850	1,774,666	1,826,131	1,879,089	1,933,583	1,989,656	2,047,357	2,106,730	2,167,825	2,230,692	2,295,382	2,361,948	2,430,445	2,500,927
Class 200	0	0	3,717,977	3,664,243	3,815,829	3,973,961	4,138,573	4,309,935	4,488,373	4,674,179	4,867,655	5,069,119	5,278,900	5,497,339	5,724,792	5,961,634
Class 2xx (SMIP & GARP)	0	0	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 300	0	0	23,747	21,175	21,786	22,417	23,064	23,732	24,417	25,123	25,849	26,596	27,364	28,154	28,967	29,804
Class 400	0	0	16,615	19,976	20,376	20,783	21,198	21,622	22,055	22,496	22,946	23,405	23,873	24,350	24,838	25,334
Total	0	0	30,738,189	30,480,060	30,684,122	30,896,249	31,116,419	31,344,946	31,582,202	31,828,527	32,084,275	32,349,812	32,625,518	32,911,790	33,209,042	33,517,699
Planning & Engineering																
Class 100	0	0	12,554,749	14,005,721	15,602,402	17,119,251	18,792,580	20,549,186	22,391,754	23,041,314	23,709,190	24,396,747	25,104,394	25,832,546	26,581,633	27,352,698
Class 200	0	0	11,215,909	12,015,549	12,512,624	13,031,159	13,570,945	14,132,864	14,717,985	15,327,267	15,961,703	16,622,331	17,310,229	18,026,521	18,772,374	19,549,009
Class 300	0	0	929,955	756,781	778,630	801,164	824,337	848,167	872,680	897,899	923,844	950,533	977,989	1,006,235	1,035,292	1,065,183
Class 400	0	0	244,519	386,701	394,433	402,323	410,370	418,576	426,949	435,487	444,197	453,081	462,143	471,385	480,814	490,430
Total	0	0	24,945,131	27,164,752	29,288,089	31,353,896	33,598,232	35,948,792	38,409,367	39,701,968	41,038,933	42,422,692	43,854,755	45,336,687	46,870,113	48,457,320
Information Science & Technology																
Class 100	0	0	2,916,115	3,257,385	3,351,849	3,449,052	3,549,075	3,651,999	3,757,907	3,866,886	3,979,025	4,094,417	4,213,156	4,335,337	4,461,061	4,590,433
Class 200	0	0	7,470,005	8,694,352	7,422,564	7,730,601	8,051,420	8,385,554	8,733,555	9,095,998	9,473,481	9,866,630	10,276,096	10,702,553	11,146,710	11,609,298
Class 300	0	0	836,694	631,948	650,275	669,132	688,537	708,505	729,052	750,194	771,950	794,336	817,372	841,076	865,467	890,565
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	11,222,814	12,583,685	11,424,688	11,848,785	12,289,032	12,746,057	13,220,513	13,713,077	14,224,456	14,755,383	15,306,623	15,878,966	16,473,238	17,090,296
Public Affairs:																
Class 100	0	0	2,461,192	2,409,287	2,479,156	2,551,052	2,625,032	2,701,158	2,779,492	2,860,098	2,943,040	3,028,389	3,116,211	3,206,582	3,299,572	3,395,260
Class 200	0	0	3,407,239	3,480,397	3,624,379	3,774,577	3,930,930	4,093,695	4,263,179	4,439,663	4,623,432	4,814,788	5,014,043	5,221,522	5,437,564	5,662,523
Class 300	0	0	176,922	174,004	179,028	184,209	189,537	195,016	200,653	206,451	212,416	218,553	224,866	231,360	238,041	244,914
Class 400	0	0	781	1,150	1,173	1,197	1,221	1,245	1,269	1,295	1,321	1,348	1,375	1,402	1,430	1,459
Total	0	0	6,046,134	6,064,839	6,283,736	6,511,035	6,746,720	6,991,113	7,244,593	7,507,506	7,780,209	8,063,078	8,356,495	8,660,865	8,976,607	9,304,156

Total Sewer Department:																
Class 100	0	0	72,503,382	76,368,702	80,199,908	84,016,730	87,630,001	91,383,082	95,280,271	98,043,250	100,886,052	103,811,797	106,822,696	109,921,025	113,109,127	116,389,009
Class 200 (including 2xx)	0	0	110,947,324	116,386,563	118,441,622	121,964,720	125,674,366	129,576,970	133,638,119	137,864,337	142,262,389	146,839,345	151,602,551	156,559,651	161,718,616	167,087,741
Class 300	0	0	13,192,731	13,200,803	13,638,264	14,092,084	14,561,749	15,047,867	15,551,222	16,072,473	16,612,305	17,171,430	17,750,583	18,350,542	18,972,104	19,616,109
Class 400	0	0	2,599,265	2,936,521	2,995,250	3,055,157	3,116,260	3,178,583	3,242,156	3,306,999	3,373,139	3,440,602	3,509,414	3,579,601	3,651,194	3,724,218
Class 500																
Pension & Benefits Including Capital (270)	0	0	80,672,493	82,831,865	86,155,035	88,842,457	91,838,652	94,271,814	96,146,546	99,039,921	102,043,779	105,162,830	108,401,899	111,765,509	115,258,870	118,888,313
Indemnities	0	0	2,339,235	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957	2,904,957
Subtotal Excluding Interdepartment	0	0	282,254,431	294,629,410	304,335,037	314,876,105	325,725,985	336,363,272	346,763,271	357,231,938	368,082,622	379,330,962	390,992,101	403,081,286	415,614,869	428,610,349
Other Department Expenses	0	0	25,486,460	26,140,650	26,837,880	27,556,528	28,297,310	29,060,955	29,848,230	30,659,921	31,496,837	32,359,828	33,249,764	34,167,554	35,114,126	36,090,453
Total	0	0	307,740,891	320,770,060	331,172,916	342,432,633	354,023,295	365,424,227	376,611,502	387,891,860	399,579,459	411,690,790	424,241,865	437,248,840	450,728,995	464,700,802

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SPLIT OF TOTAL PENSION & BENEFITS	LINKS	0														
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Human Resources	0	0	6,064,677	5,827,505	5,953,868	6,043,567	6,173,333	6,262,602	6,313,127	6,503,118	6,700,383	6,905,183	7,117,845	7,338,678	7,568,033	7,806,363
Finance and Administration	0	0	1,931,485	1,688,462	1,725,073	1,751,063	1,788,662	1,814,526	1,829,166	1,884,213	1,941,369	2,000,708	2,062,324	2,126,308	2,192,762	2,261,815
Planning & Engineering	0	0	12,248,055	13,325,390	14,738,969	15,952,882	17,384,084	18,740,437	20,005,413	20,607,650	21,232,471	21,881,440	22,555,461	23,255,360	23,982,108	24,737,524
Information Science & Technology	0	0	2,844,879	3,099,157	3,166,359	3,214,062	3,283,073	3,330,548	3,357,418	3,458,459	3,563,367	3,672,283	3,785,380	3,902,821	4,024,796	4,151,545
Operations	0	0	45,242,067	46,426,308	47,835,435	48,953,686	50,004,731	50,727,988	51,137,636	52,676,300	54,274,060	55,933,018	57,655,809	59,444,901	61,303,138	63,233,244
Public Affairs	0	0	2,401,069	2,292,256	2,341,960	2,377,244	2,428,287	2,463,401	2,483,275	2,558,009	2,635,603	2,716,162	2,799,812	2,886,677	2,976,894	3,070,642
Dept. Of Revenue (WRB)	0	0	6,362,073	6,687,542	6,832,554	6,935,490	7,084,408	7,186,851	7,244,832	7,462,863	7,689,241	7,924,266	8,168,313	8,421,736	8,684,941	8,958,444
Law Dept.	0	0	1,579,206	1,502,426	1,535,004	1,558,131	1,591,586	1,614,601	1,627,628	1,676,611	1,727,469	1,780,269	1,835,097	1,892,031	1,951,163	2,012,608
Other Indirect	0	0	1,998,982	1,982,818	2,025,813	2,056,332	2,100,487	2,130,860	2,148,052	2,212,697	2,279,816	2,349,500	2,421,858	2,496,997	2,575,035	2,656,128
Capital (270) Pension & Benefits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	80,672,493	82,831,865	86,155,035	88,842,457	91,838,652	94,271,814	96,146,546	99,039,921	102,043,779	105,162,830	108,401,899	111,765,509	115,258,870	118,888,313
Law Dept. - Water	0	0	927,471	882,377	901,511	915,093	934,741	948,258	955,908	984,676	1,014,545	1,045,555	1,077,756	1,111,193	1,145,921	1,182,008

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL100A - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-5**

Ref :

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL100B - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-6**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL200A - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-7**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL200B - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-8**

Ref A:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL200LEA - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-9**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL200LEB - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-10**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL300A - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-11**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL300B - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-12**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL300LEA - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-13**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL300LEB - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-14**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL400A - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-15**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
CL400B - Not in Use	**P.N. 135647.0100**	**February 07, 2020 3:50 p.m.**					**Somallo-16**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CL100SUM - Class 100 O&M Summary	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-17

Class 100	FY 2021 Test Year Class 100 Finplan Links	Class 100 (a)	Class 100 & Class 500	Adjusted Test Year	
Direct - Wastewater Treatment					
NEWPCP	6,986,383	7,831,449	15,710,993	15,900,961	
SWWPCP	7,128,850	7,991,148	16,031,372	16,225,213	
SEWPCW	4,311,872	4,833,432	9,696,547	9,813,792	
Total	18,427,106	20,656,029	41,438,912	41,939,966	
Collection					
Sewer Maintenance	10,811,143	12,118,847	24,312,119	26,681,683	
Inlet Cleaning	5,569,886	6,243,613	12,525,570	12,525,570	(b)
Interceptors/Flow Control	5,023,551	5,631,195	11,296,973	11,296,973	
GSI Maintenance	1,344,192	1,506,784	3,022,822	3,022,822	
Collection System Support	1,053,701	1,181,156	2,369,566	-	
Total	23,802,474	26,681,595	53,527,048	53,527,048	
General Support					
Industrial Waste	1,970,366	2,208,700	4,430,964	4,430,964	
Sludge Engineering Services	0	0	0	0	
Sludge Utilization	0	0	0	0	
Sludge Processing	0	0	0	0	
Total	1,970,366	2,208,700	4,430,964	4,430,964	
Total - Direct	44,199,946	49,546,324	99,396,924	99,897,978	
Indirect					
Treatment HQ	249,760	249,760	501,054	-	allocated to WWTP
Operations Administration	3,064,690	-	-	-	
Security	0	-	-	-	
Building Maintenance	0	-	-	-	
Materials Management	961,953	-	-	-	
Customer Service (c)	841,629	841,629	1,688,427	1,688,427	(c)
Automotive Maintenance	0	-	-	-	
Machine Shops	0	-	-	-	
Meter Shop	1,319,735	-	-	-	
Total - Indirect	6,437,767	1,091,389	2,189,481	1,688,427	
Total	50,637,713	50,637,713	101,586,405	101,586,405	
Other	Somallo-4				
Human Services	6,302,656	6,302,656	12,644,017	12,644,017	
Finance and Administration	1,826,131	1,826,131	3,663,477	3,663,477	
Public Affairs	2,479,156	2,479,156	4,973,537	4,973,537	
Planning & Engineering	15,602,402	15,602,402	31,300,623	31,300,623	
Information Science & Technology	3,351,849	3,351,849	6,724,283	6,724,283	
Total Other	29,562,194	29,562,194	59,305,937	59,305,937	0
Somallo-4					
Total Class 100	80,199,908	80,199,907	80,199,907	160,892,342	160,892,342	0
	0				
Indemnities and Pension & Benefits	80,692,435	80,692,435	-	-	Excludes Pension & Benefits allocated to WRB and Law and Capital (270) Pension & Benefits
Total	160,892,342	160,892,342	160,892,342	160,892,342	0

TY Sewage Pumping
Not included in Table to left:

Class 100	0
Class 200	0
Class 300	0
Class 400	0
	0

	(1) Direct Cost $	(2) To Col (D) Direct Cost $	(3) Direct Cost Plus Overhead (To Col (G)) $	(4) Percent Increase	(5) Column (3) Repeated Here $
Direct - Wastewater Treatment					
NEWPCP	6,986,383	6,986,383	15,900,961	227.60%	15,900,961
SWWPCP	7,128,850	7,128,850	16,225,213	227.60%	16,225,213
SEWPCW	4,311,872	4,311,872	9,813,792	227.60%	9,813,792
Total	18,427,106	18,427,106	41,939,966		41,939,966
	Estimated Distribution of Pumping Class 100				
Flow Control					
Central Schuykill (SW) (a)	137,917	-		200.61%	276,681
Neill Drive (NE) (a)	54,106	-		200.61%	108,544
Other	5,439,172	-		200.61%	10,911,748
Total	5,631,195				11,296,973
	5,631,195				

(a) Estimated based on the estimated cost data:

Central Schuykill (SW)	130,000	Estimated provided by PWD Load Control
Neill Drive (NE)	51,000	Estimated provided by PWD Load Control
Fiscal Year	2019	
Ann. Infl. Rate	3%	

(a) Adjusted for allocation of indirect costs.
(b) Include Interceptors/Flow Control with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
CL200SUM - Class 200 O&M Summary | P.N. 135647.0100 | February 10, 2020 4:50 p.m. | Somallo-18

Class 200	(1) FY 2021 Test Year Class 200 $	(2) Net Adjustment to Test Year Power $	(3) Net Adjustment to Test Year Gas $	(4) FY 2021 Test Year Class 200 $	(5) Class 200 (a)	(6) Adjusted Test Year
Direct - Wastewater Treatment	Finplan Links	Somallo-21a	Somallo-21b	(1) + (2) + (3)		
NEWPCP	11,753,236	0	0	11,753,236	12,872,885	12,940,704
SWWPCP	6,926,733	0	1,978,524	8,905,257	9,753,599	9,804,000
SEWPCW	2,215,774	0	0	2,215,774	2,426,856	2,439,000
Total	20,895,743	0	1,978,524	22,874,267	25,053,340	25,183,704
Collection						
Sewer Maintenance	3,149,039	0	0	3,149,039	3,449,026	3,524,239
Inlet Cleaning	61,165	0	0	61,165	66,992	66,992
Interceptors/Flow Control	3,053,890	0	0	3,053,890	3,344,812	(b)
GSI Maintenance	4,727,860	0	0	4,727,860	5,178,250	5,178,250
Collection System Support	68,671	0	0	68,671	75,213	-
Total	11,060,625	0	0	11,060,625	12,114,293	8,769,481
General Support						
Industrial Waste	205,476			205,476	225,050	225,050
Sludge Engineering Services	0			0	0	0
Sludge Utilization	0			0	0	0
Sludge Processing	24,184,269	0	(1,978,524)	22,205,745	24,321,133	24,321,133
Total	24,389,745	0	(1,978,524)	22,411,221	24,546,183	24,546,183
Total - Direct	56,346,113	0	0	56,346,113	61,713,816	58,499,368

	(7)	(8) FY 2019 $	(9) Annual Inflation Factor	(10) Direct Test Year $	(11) Col (9) Direct Cost $	(12) Direct Cost Plus Overhead Col (5) $	(13) Percent Increase	(14) Col (11) Less Pumping Below $
Direct - Wastewater Treatment				Somallo-8				
NEWPCP				11,753,236	11,753,236	12,940,704	110.10%	12,940,704
SWWPCP				6,926,733	6,926,733	9,804,000	141.54%	9,804,000
SEWPCW				2,215,774	2,215,774	2,439,000	110.07%	2,439,000
Total				20,895,743	20,895,743	25,183,704		25,183,704
Pumping					Adjustment Input (a)			
Central Schuykill (SW)		46,000	3.84%	50,000	0	50,000		50,000
Neill Drive (NE)		7,000	3.84%	8,000	0	8,000		8,000
Other						3,286,812		3,286,812
Total		53,000		58,000	0	3,344,812		3,344,812
Source:								

(a) If Direct Test Year costs for Central Schuykill and Neill Drive are greater than Interceptors/Flow Control Expense, reduce the amounts from BD-24 by the variance to be consistent with the Interceptors/Flow Control expense amount.

Indirect						
Treatment HQ	130,364	0	0	130,364	130,364	-
Operations Administration	5,296,025	0	0	5,296,025	0	0
Security	0	0	0	0	-	-
Building Maintenance	0	0	0	0	-	-
Materials Management	71,678	0	0	71,678	-	-
Customer Service (d)	2,412,193	0	0	2,412,193	2,412,193	2,412,193
Warranty Program	0	0	0	0	0	0
Automotive Maintenance	0	0	0	0	-	-
Machine Shops	0	0	0	0	-	-
Meter Shop	9,557	0	0	9,557	9,557	9,557
Total - Indirect	7,919,816	0	0	7,919,816	2,552,113	2,421,750
Total	64,265,929	0	0	64,265,929	64,265,929	60,921,117
Other	Somallo-4					
Admin & Human Services	1,800,296			1,800,296	1,800,296	1,800,296
Finance and Administration	28,815,829			28,815,829	28,815,829	28,815,829
Public Affairs	3,624,379			3,624,379	3,624,379	3,624,379
Planning & Engineering	12,512,624			12,512,624	12,512,624	12,512,624
Information Science & Technology	7,422,564			7,422,564	7,422,564	7,422,564
Total Other	54,175,692	0	0	54,175,692	54,175,692	54,175,692
Total Class 200	118,441,622	0	0	118,441,622	118,441,622	115,096,810
Possible Error ===>	(0)					

Somallo-4 ($118,441,621.6, Total O&M) - Somallo-10 ($0.0 Liq. Encum.) = $118,441,621.6 115,096,810

Pumping (Flow Contr	3,344,812
Customer Costs	(2,421,750)
	116,019,872

(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) This is the Sewer System share of Class 200 - Automated Meter Reading. This cost will be assigned directly to Joint Direct Expense on Somallo-38 and will be allocated to the Customer - Equivalent Bill cost category. It is assumed this cost will continue to be a part of Class 200 costs throughout the study period.
(d) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.

USE (Rounding Error add to Sewer Maintenance) 0

FY 2019 Budget Operations Administration - Class 200

	Water & Sewer	Budget Factor	Adj. Budget	Sewer Share	Sewer Costs	Ann. Infl.	Liq Enc Ratio	TY Costs
Direct Costs from Budget	$		$		$			$
250 Professional, Consultant & Spec. Services (Automated Meter Reading)	0	96.27%	0	75.39%	0	4.15%	81.83%	0
Power	13,914,269	79.93%	11,121,719	42.57%	4,734,548			
Gas	3,987,411	85.11%	3,393,692	81.88%	2,778,679			
All Other	71,290,436	96.27%	68,632,505	75.39%	51,744,960			
Total	89,192,116		83,147,917		59,258,187			

Class 200

	Wastewater	Stormwater	Total	Wastewater	Stormwater	Total
Finance & Admin						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Res	0	0	0	0	0	0
Wastewater Collection Mains	0	0	0	0	0	0
Green Initiatives	0	0	0	0	0	0
Customer (Grants)	0	0	0	0	0	0
Customer (Basis2)	0	0	0	0	0	0
Class 200 - All Other	3,815,830	0	3,815,830	3,815,830	0	3,815,830
Class 2xx - SMIP & GARP	25,000,000	0	25,000,000	24,999,999	0	25,000,000
Total	28,815,830	0	28,815,830	28,815,829	0	28,815,829
Public Affairs						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Residential	0	0	0	0	0	0
Wastewater Collection Mains	0	0	0	0	0	0
Class 200 - All Other - Volume	1,456,100	0	1,456,100	1,777,279	0	1,777,279
Class 200 - All Other - Customer	431,976	0	431,976	527,259	0	527,259
Class 200 - All Other - A&G	1,081,328	0	1,081,328	1,319,841	0	1,319,841
Total	2,969,404	0	2,969,404	3,624,379	0	3,624,379
Planning & Engineering						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Residential	0	369,477	369,477	0	369,477	369,477
Wastewater Collection Mains	1,477,906	0	1,477,906	1,477,906	0	1,477,906
Class 200 - GSI Implementation	1,071,482	0	1,071,482	1,071,482	0	1,071,482
Class 200 - Office of Watersheds	5,422,930	0	5,422,930	5,422,930	0	5,422,930
Class 200 - BLS	1,262,132	0	1,262,132	1,262,132	0	1,262,132
Class 200 - All Other (Plant Investment)	2,908,697	0	2,908,697	2,908,697	0	2,908,697
Total	12,143,148	369,477	12,512,624	12,143,147	369,477	12,512,624

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CL300SUM - Class 300 O&M Summary	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-19

Class 300	FY 2021 Test Year Class 300	Class 300 (a)	Adjusted Test Year
Direct - Wastewater Treatment			
NEWPCP	2,569,948	3,496,436	3,498,935
SWWPCP	1,444,167	1,964,801	1,966,205
SEWPCW	1,581,325	2,151,406	2,152,943
Total	5,595,440	7,612,643	7,618,083
Collection			
Sewer Maintenance	473,977	644,849	644,849
Inlet Cleaning	77,651	105,645	105,645
Interceptors/Flow Control	1,813,277	2,466,979	(b)
GSI Maintenance	385,185	524,048	524,048
Collection System Support	0	0	-
Total	2,750,090	3,741,521	1,274,542
General Support			
Industrial Waste	65,519	89,139	89,139
Sludge Engineering Services	0	0	0
Sludge Utilization	0	0	0
Sludge Processing	34,851	47,415	47,415
Total	100,370	136,554	136,554
Total - Direct	8,445,899	11,490,718	9,029,179
Indirect			
Treatment HQ	5,440	5,440	-
Operations Administration	103,331	-	-
Security	0	-	-
Building Maintenance	0	-	-
Materials Management	2,904,546	-	-
Customer Service (c)	10,804	10,804	10,804
Automotive Maintenance	0	-	-
Machine Shops	0	-	-
Meter Shop	36,941	-	-
Total - Indirect	3,061,062	16,244	10,804
Total	11,506,962	11,506,962	9,039,983
Other	Somallo-4		
Admin & Human Services	501,584	501,584	501,584
Finance and Administration	21,786	21,786	21,786
Public Affairs	179,028	179,028	179,028
Planning & Engineering	778,630	778,630	778,630
Information Science & Technology	650,275	650,275	650,275
Total Other	2,131,303	2,131,303	2,131,303
Total Class 300	13,638,264	13,638,264	11,171,285
Possible Error ===>	(0)		

	(1) Direct Cost $	(2) Col (D) Direct Cost $	(3) Direct Cost Plus Overhead Col (F) $	(4) Percent Increase	(5) Col 3 Less Pumping Below $
Direct - Wastewater Treatment					
NEWPCP	2,569,948	2,569,948	3,498,935	136.15%	3,498,935
SWWPCP	1,444,167	1,444,167	1,966,205	136.15%	1,966,205
SEWPCW	1,581,325	1,581,325	2,152,943	136.15%	2,152,943
Total	5,595,440	5,595,440	7,618,083		7,618,083
Other			2,466,979		2,466,979

Somallo-4($13,638,264, Total O&M) - Somallo-14 ($0 Liq. Encum.) = $13,638,264
(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.
USE (Rounding Error add to Sewer Maintenance) 0

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CL400SUM - Class 400 O&M Summary	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-20

Class 400	FY 2021 Test Year Class 400	Class 400 (a)	Adjusted Test Year
Direct - Wastewater Treatment			
NEWPCP	133,914	494,874	495,351
SWWPCP	210,435	777,657	778,405
SEWPCW	103,624	382,939	383,308
Total	447,973	1,655,470	1,657,064
Collection			
Sewer Maintenance	54,203	200,305	200,305
Inlet Cleaning	22,319	82,478	82,478
Interceptors/Flow Control	27,899	103,100	(b)
GSI Maintenance	56,595	209,144	209,144
Collection System Support	0	0	-
Total	161,015	595,027	491,927
General Support			
Industrial Waste	15,943	58,915	58,915
Sludge Engineering Services	0	0	0
Sludge Utilization	0	0	0
Sludge Processing	0	0	0
Total	15,943	58,915	58,915
Total - Direct	624,931	2,309,412	2,207,906
Indirect			
Treatment HQ	1,594	1,594	-
Operations Administration	1,679,699	-	-
Security	0	-	-
Building Maintenance	0	-	-
Materials Management	398	-	-
Customer Service (c)	2,790	2,790	2,790
Automotive Maintenance	0	-	-
Machine Shops	0	-	-
Meter Shop	4,384	-	-
Total - Indirect	1,688,865	4,384	2,790
Total	2,313,796	2,313,796	2,210,696
Other	Somallo-4		
Admin & Human Services	265,472	265,472	265,472
Finance and Administration	20,376	20,376	20,376
Public Affairs	1,173	1,173	1,173
Planning & Engineering	394,433	394,433	394,433
Information Science & Technology	0	0	0
Total Other	681,454	681,454	681,454
Total Class 400 (Somallo-4: 2,995,250)	2,995,250	2,995,250	2,892,150
Possible Error ===>	0		

(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.
USE (Rounding Error add to Sewer Maintenance) 0

	(1) Direct Cost $	(2) Col (D) Direct Cost $	(3) Direct Cost Plus Overhead Col (F) $	(4) Percent Increase	(5) Column 3 Less Pumping Below $
Direct - Wastewater Treatment					
NEWPCP	133,914	133,914	495,351	369.90%	495,351
SWWPCP	210,435	210,435	778,405	369.90%	778,405
SEWPCW	103,624	103,624	383,308	369.90%	383,308
Total	447,973	447,973	1,657,064		1,657,064
Other					103,100

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
POWER - Test Year Power Costs	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-21a

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
									Test Year Adjustments						
CLASS 220	FY 2021 Test Year $	Assign Cogen Costs to Trtmt Plts $ See Note (a)		FY 2021 Test Year $ (1)*(3)	Test Year Adjustment $ (4)	Estimated Test Year Adjusted $ (4)+(5)		Test Year Power Excl. Pump. Sta. Power $ (6)-(7)	Prorate Coll. Sys. Costs to Trtmt Plts $ (8)	Reallocate Ops Admin Power $	Estimated Adjusted Test Year Power $ (8)+(9)+(10)	Estimated Adjusted Test Year Power $ (11)	Plus Pumping Station Power $ (7)	Test Year Power Incl. Pump. Sta. Power $ (12)+(13)	Net Adjustment to Test Year Power $ (14)-(4)
DIRECT COSTS															
Sludge Engineering Services	0			0		0		0			0	0		0	0
Sludge Utilization	0			0		0		0			0	0		0	0
Sludge Processing	0			0	0	0		0			0	0		0	0
NEWPCP	962,825	5,004,403		5,967,228		5,967,228		5,967,228		0	5,967,228	5,967,228		5,967,228	0
SWWPCP	3,193,759			3,193,759	0	3,193,759		3,193,759		0	3,193,759	3,193,759		3,193,759	0
SEWPCP	951,083			951,083		951,083		951,083		0	951,083	951,083		951,083	0
Industrial Waste	0			0		0		0			0	0		0	0
Sewer Maintenance	0			0		0		0			0	0		0	0
Inlet Cleaning	0			0		0		0			0	0		0	0
Interceptors/Flow Control	469,671			469,671		469,671		469,671			469,671	469,671		469,671	0
GSI Maintenance	0			0		0		0			0	0		0	0
Collector System Support	0			0		0		0			0	0		0	0
Subtotal	5,577,338			10,581,741	0	10,581,741	0	10,581,741	0	0	10,581,741	10,581,741	0	10,581,741	0
ALLOCATED COSTS		Water	Sewer												
Treatment Headquarters	0	50.00%	50.00%	0		0		0		0	0	0		0	0
Machine Shops	0	50.00%	50.00%	0		0		0			0	0		0	0
Building Maintenance	0	50.00%	50.00%	0		0		0			0	0		0	0
Security	0	50.00%	50.00%	0		0		0			0	0		0	0
Operations Administration	0	50.00%	50.00%	0		0		0			0	0		0	0
Materials Management	0	50.00%	50.00%	0		0		0			0	0		0	0
Customer Service	0	50.00%	50.00%	0		0		0			0	0		0	0
Meter Shop	0	50.00%	50.00%	0		0		0			0	0		0	0
Automotive Maintenance	0	35.00%	65.00%	0		0		0			0	0		0	0
Subtotal	0			0		0	0	0	0	0	0	0	0	0	0
Total Sewer Power Costs	5,577,338			10,581,741		10,581,741	0	10,581,741	0	0	10,581,741	10,581,741	0	10,581,741	0

(a) NE Cogen Costs budgeted as Lease Payment to PMA (281) and included with other Class 200 Costs

Percentage of NE Class 200 - Other Costs

Lease Payment	5,660,000	46%	5,004,403
Total NE	12,204,000		10,790,412

Source: FY 20 BDDT Summary.xlsx

	Test Year
NE Class 200 including Power	11,753,236
Power Costs	962,825
NE Class 200 Excluding Power	10,790,412

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
GAS - Test Year Gas Costs	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-21b

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
									Test Year Adjustments						
CLASS 221	FY 2021 Test Year $			FY 2021 Test Year $ (1)*(3)	Test Year Adjustment $ (4)	Estimated Test Year Adjusted $ (4)+(5)	Less Pumping Station Gas $ Somallo-18	Test Year Gas Excl. Pump. Sta. Gas $ (6)-(7)		Reallocate Ops Admin Gas $	Estimated Adjusted Test Year Gas $ (8)+(9)+(10)	Estimated Adjusted Test Year Gas $ (11)	Plus Pumping Station Gas $ (7)	Test Year Gas Incl. Pump. Sta. Gas $ (12)+(13)	Net Adjustment to Test Year Gas $ (14)-(4)
DIRECT COSTS															
Sludge Engineering Services	0			0		0		0			0	0		0	0
Sludge Utilization	0			0		0		0			0	0		0	0
Sludge Processing	1,978,524			1,978,524	(1,978,524)	0		0		0	0	0		0	(1,978,524)
NEWPCP	656,143			656,143		656,143	0	656,143		0	656,143	656,143	0	656,143	0
SWWPCP	0			0	1,978,524	1,978,524	0	1,978,524		0	1,978,524	1,978,524	0	1,978,524	1,978,524
SEWPCP	131,229			131,229		131,229	0	131,229		0	131,229	131,229	0	131,229	0
Industrial Waste	0			0		0		0		0	0	0		0	0
Sewer Maintenance	0			0		0		0		0	0	0		0	0
Inlet Cleaning	0			0		0		0		0	0	0		0	0
Interceptors/Flow Control	0			0		0		0		0	0	0		0	0
GSI Maintenance	0			0		0		0		0	0	0		0	0
Collector System Support	57,202			57,202		57,202		57,202		0	57,202	57,202		57,202	0
Subtotal	2,823,098			2,823,098	0	2,823,098	0	2,823,098	0	0	2,823,098	2,823,098	0	2,823,098	0
ALLOCATED COSTS		Water	Sewer												
Treatment Headquarters	25,236	50.00%	50.00%	12,618		12,618		12,618			12,618	12,618		12,618	0
Machine Shops	0	50.00%	50.00%	0		0		0			0	0		0	0
Building Maintenance	0	50.00%	50.00%	0		0		0			0	0		0	0
Security	0	50.00%	50.00%	0		0		0			0	0		0	0
Operations Administration	0	50.00%	50.00%	0		0	0	0		0	0	0		0	0
Materials Management	0	50.00%	50.00%	0		0		0			0	0		0	0
Customer Service	0	50.00%	50.00%	0		0		0			0	0		0	0
Meter Shop	0	50.00%	50.00%	0		0		0			0	0		0	0
Automotive Maintenance	0	35.00%	65.00%	0		0		0			0	0		0	0
Subtotal	25,236			12,618		12,618	0	12,618	0	0	12,618	12,618	0	12,618	0
Total Sewer Gas Costs	2,848,334			2,835,716		2,835,716	0	2,835,716	0	0	2,835,716	2,835,716	0	2,835,716	0

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
TOTALOM - Test Year O&M Summary **P.N. 135647.0100** **February 10, 2020 4:50 p.m.** **Somallo-22**

Direct Expenses Only		(1) Personal Services (Class 100 & 500) $ Somallo-17	(2) Purchase of Services (Class 200) Power $ Somallo-21a	(3) Gas $ Somallo-21b	(4) Sludge $	(5) Other $	(6) Total $ Somallo-18	(7) Materials & Supplies (Class 300) $ Somallo-19	(8) Equipment (Class 400) $ Somallo-20	Total $
NEWPCP		15,900,961	5,967,228	656,143	(a)	6,317,333	12,940,704	3,498,935	495,351	32,835,951
SWWPCP		16,225,213	3,193,759	1,978,524	(a)	4,631,717	9,804,000	1,966,205	778,405	28,773,823
SEWPCP		9,813,792	951,083	131,229	(a)	1,356,688	2,439,000	2,152,943	383,308	14,789,043
(BOX 2 this page)										
Sludge Disposal (BRC)										
NEWPCP	48.6%	0	(b)	(b)	12,645,319	-	12,645,319	23,043	0	12,668,362
SWWPCP	35.8%	0	(b)	(b)	8,142,707	-	8,142,707	16,997	0	8,159,704
SEWPCP	15.6%	0	(b)	(b)	3,533,107	-	3,533,107	7,375	0	3,540,482
Subtotal		0	0	0	24,321,133	-	24,321,133	47,415	0	24,368,548
							(BOX 1 this page)			
Sewer Maintenance		26,681,683	0	0	-	3,524,239	3,524,239	644,849	200,305	31,051,076 x
Inlet Cleaning		12,525,570	-		-	66,992	66,992	105,645	82,478	12,780,685
Pumping Stations										
Central Schuylkill		276,681	50,000	0	-	-	50,000	0	-	326,681
Neill Drive		108,544	8,000	0	-	-	8,000	-	-	116,544
Other		10,911,748	3,286,812	0	-	-	3,286,812	2,466,979	103,100	16,768,639
GSI Maintenance		3,022,822	0	0	-	5,178,250	5,178,250	524,048	209,144	8,934,264 x
Industrial Waste Unit		4,430,964	0		-	225,050	225,050	89,139	58,915	4,804,068
Total Direct Expense		99,897,978	13,456,882	2,765,895	24,321,133	21,300,269	61,844,180	11,496,158	2,311,006	175,549,322
Other (Joint Use (c))		59,305,937					54,175,692	2,131,303	681,454	116,294,386
Total		159,203,915					116,019,872	13,627,461	2,992,461	291,843,708
Check Total O&M		159,203,916	[Oper + P&B (excluding WRB and Law) + Indem - Capital (270) - Customer Services]				116,019,872	13,627,461	2,992,461	291,843,709
Less Liq. Encumbrances		na					0	0	na	0
		159,203,916					116,019,872	13,627,461	2,992,461	291,843,709
ERROR (see note to rt.)		(1)					0	0	(0)	(0)

BOX 1 - Class 200 SLUDGE COSTS ALLOCATION BETWEEN TRTMT PLANTS:

	$
Sludge Engineering Services	0
Sludge Utilization	0
Sludge Processing	24,321,133
Total	24,321,133

NOTE: 2020 Proposed Budget
This cost includes 2,500,000 of sludge barging costs from NE to BRC
for the FY 2020 budget. Use an annual inflation rate of 4.15%
times the budget adjustment factor of 75.39%
times the liq enc adjustment factor 81.83%
FY 2021 Test Year = $1,606,391

CONCLUSION:
SPREAD TOTAL SLUDGE COSTS LESS NE SLUDGE BARGING COSTS TO ALL PLANTS, THEN ADD SLUDGE BARGING COSTS TO NE PLANT ONLY.

BOX 2 - Assume pounds to BRC are in proportion to total pounds influent to plants.

		Pltdes-5	lbs	Proportion of lbs to BRC	Proportion of lbs to BRC	Estimated % lbs to BRC
Northeast Plant	Influent Flow - mgd	185				
	Influent Suspended Solids - mg/l	200	308,580	75.0%	231,435	
	Influent BOD - mg/l	135	208,292	25.0%	52,073	
					283,508	48.6%
Southwest Plant	Influent Flow - mgd	170				
	Influent Suspended Solids - mg/l	160	226,848	75.0%	170,136	
	Influent BOD - mg/l	110	155,958	25.0%	38,990	
					209,126	35.8%
Southeast Plant	Influent Flow - mgd	80				
	Influent Suspended Solids - mg/l	143	95,410	75.0%	71,557	
	Influent BOD - mg/l	115	76,728	25.0%	19,182	
					90,739	15.6%
					583,373	100.0%

(a) Financed from R&R Fund.
(b) BRC power and gas included in SWWPCP.
(c) Human Resources, Finance & Administration, Public Affairs, Planning & Engr., and Info. Sci. & Tech.

File: SCOS19_21_ver3_rates.xls | **Philadelphia Water Department (PWD)** | **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** | **Test Year 2021** | **Budget Yr 2019** | **Ver. 1a**
NEOM - Allocation of O&M Expense to NE WPCP | **P.N. 135647.0100** | **February 07, 2020 3:50 p.m.** | **Somallo-23**

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
		Classes 100 & 500 Personal Services		Class 220 Power		Class 221 Gas			Other O&M			
		mhrs/yr (a)	Expense	Distrib. (a)	Expense	Distrib. (a)	Expense	Expense	Distrib. (a)	Expense	Total	
				%		%		$				
Raw Wastewater Pumping		14,400	796,985	12.10	722,035	8.10	53,148		8.10	646,571	2,218,739	
Preliminary Treatment		28,000	1,549,693	0.10	5,967	12.80	83,986		12.80	1,021,742	2,661,388	
Primary Sedimentation		11,300	625,412	0.80	47,738	6.00	39,369		6.00	478,941	1,191,460	
Aeration		46,700	2,584,667	66.30	3,956,272	9.00	59,053		9.00	718,412	7,318,404	
Secondary Sedimentation		11,400	630,947	0.80	47,738	6.90	45,274		6.90	550,783	1,274,742	
Recirculating Pumping		8,400	464,908	2.80	167,082	2.60	17,060		2.60	207,541	856,591	
Chlorination		7,900	437,235	0.20	11,934	1.10	7,218	2,329,262	1.10	87,806	2,873,455	
Primary Sludge Pumping		2,300	127,296	0.10	5,967	1.10	7,218		1.10	87,806	228,287	
Secondary Sludge Thickening		5,600	309,939	7.50	447,542	1.30	8,530		1.30	103,771	869,782	
Sludge Digestion		44,000	2,435,232	1.70	101,443	16.90	110,888		16.90	1,349,018	3,996,581	
Sludge Holding Tanks		3,200	177,108	0.00	0	2.40	15,747		2.40	191,577	384,432	
Sludge Dewatering		8,100	448,304	1.80	107,410	1.90	12,467		1.90	151,665	719,846	
Sludge Lagoon		0	0	0.00	0	0.00	0		0.00	0	0	
Grit and Screening Incineration		18,000	996,231	1.60	95,476	5.40	35,432		5.40	431,047	1,558,186	
Scum and Grease Incineration		4,300	237,989	0.10	5,967	1.50	9,842		1.50	119,735	373,533	
Laboratory		14,900	824,658	0.00	0	11.60	76,113		11.60	925,953	1,826,724	
Subtotal		228,500	12,646,604	95.9	5,722,571	88.6	581,345	2,329,262	88.6	7,072,368	28,352,150	
Yardwork and A&G		58,800	3,254,357	4.10	244,657	11.40	74,798		11.40	909,989	4,483,801	Check
Subtotal	Somallo-22	287,300	15,900,961	100.00	5,967,228	100.00	656,143	2,329,262	100.0	7,982,357	32,835,951	32,835,951 Somallo-22
Sludge Disposal												
Contract Dewatering										(c)	0	
Biosolids Reclamation Center	Somallo-22		0		(b)		(b)	0		12,668,362	12,668,362	Check
Subtotal			0		0		0	0		12,668,362	12,668,362	12,668,362 Somallo-22
Total O&M			15,900,961		5,967,228		656,143	2,329,262		20,650,719	45,504,312	
											0	

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

Allocation of Chemical Costs		$
Chlorine		0
Various (including Sodium Hypochlorite)		3,725,000
Less expense of Sodium Hypochlorite for retail sewage odor control at Central Schuylkill PS (pumps to SWWPCP)		0
Less expense of Sodium Hypochlorite for Bucks Co. sewage odor control (pumps to NEWPCP)		0
Potassium Permanganate, etc.		650,000
Total		4,375,000
NEWPCP	895,737	2,329,262
SWWPCP	395,868	1,029,411
SEWPCP	390,837	1,016,327
Total	$1,682,442	4,375,000

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SWOM - Allocation of O&M Expense to SW WPCP	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-24

	(1)	(2)		(3)	(4)		(5)	(6)		(7)	(8)	(9)		(10)	
	Classes 100 & 500 Personal Services			Class 220 Power			Class 221 Gas				Other O&M				
	mhrs/yr (a)	Expense		Distrib. (a)	Expense		Distrib. (a)	Expense		Expense	Distrib. (a)	Expense		Total	
Raw Wastewater Pumping	2,500	159,823		2.10	67,069		1.05	20,775			1.05	66,643		314,310	
Preliminary Treatment	33,000	2,109,661		0.14	4,471		12.02	237,819			12.02	762,899		3,114,850	
Flocculation	6,000	383,575		6.73	214,940		6.23	123,262			6.23	395,413		1,117,190	
Primary Sedimentation	8,700	556,183		0.53	16,927		3.51	69,446			3.51	222,777		865,333	
Aeration	17,700	1,131,546		65.57	2,094,148		6.84	135,331			6.84	434,129		3,795,154	
Secondary Sedimentation	15,000	958,937		1.35	43,116		7.37	145,817			7.37	467,768		1,615,638	
Recirculating Pumping	5,600	358,003		3.58	114,337		3.07	60,741			3.07	194,850		727,931	
Chlorination	8,500	543,398		0.29	9,262		1.05	20,775		1,029,411	1.05	66,643		1,669,489	
Effluent Pumping	7,000	447,504		0.88	28,105		0.35	6,925			0.35	22,214		504,748	
Primary Sludge Pumping	6,400	409,146		0.08	2,555		3.95	78,152			3.95	250,703		740,556	
Secondary Sludge Thickening	5,300	338,824		8.76	279,773		0.70	13,850			0.70	44,428		676,875	
Sludge Digestion	27,000	1,726,086		2.73	87,190		9.21	182,222			9.21	584,551		2,580,049	
Sludge Holding Tanks	4,600	294,074		0.00	0		3.25	64,302			3.25	206,275		564,651	
Sludge Dewatering	21,000	1,342,512		2.00	63,875		19.47	385,219			19.47	1,235,745		3,027,351	
Sludge Lagoon	200	12,786		0.00	0		0.18	3,561			0.18	11,424		27,771	
Grit and Screening Incineration	18,500	1,182,689		1.24	39,603		4.12	81,515			4.12	261,493		1,565,300	
Scum and Grease Incineration	4,700	300,467		0.19	6,068		1.32	26,117			1.32	83,779		416,431	
Laboratory	12,800	818,293		0.00	0		7.89	156,106			7.89	500,772		1,475,171	
Subtotal	204,500	13,073,507		96.17	3,071,439		91.58	1,811,935		1,029,411	91.58	5,812,506		24,798,798	
Yardwork and A&G	49,300	3,151,706		3.83	122,320		8.42	166,589			8.42	534,410		3,975,025	Check
Subtotal	253,800	16,225,213	Somallo-22	100.00	3,193,759	Somallo-22	100.00	1,978,524	Somallo-22	1,029,411	100.00	6,346,916	Somallo-22	28,773,823	28,773,823 Somallo-22
Sludge Disposal															
Contract Dewatering												(c)		0	
Biosolids Reclamation Center		0	Somallo-22		(b)			(b)		0		8,159,704	Somallo-22	8,159,704	Check
Subtotal		0			0			0		0		8,159,704		8,159,704	8,159,704 Somallo-22
Total O&M		16,225,213			3,193,759			1,978,524		1,029,411		14,506,620		36,933,527	
															0

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SEOM - Allocation of O&M Expense to SE WPCP	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-25

	(1)	(2)		(3)	(4)		(5)	(6)		(7)	(8)	(9)		(10)	
	Classes 100 & 500 Personal Services			Class 220 Power			Class 221 Gas				Other O&M				
	mhrs/yr (a)	Expense		Distrib. (a)	Expense		Distrib. (a)	Expense		Expense	Distrib. (a)	Expense		Total	
Raw Wastewater Pumping	13,800	941,142		22.80	216,847		6.20	8,136			6.20	178,350		1,344,475	
Preliminary Treatment	19,600	1,336,694		0.00	0		18.10	23,752			18.10	520,667		1,881,113	
Flocculation	6,000	409,192		35.10	333,830		7.60	9,973			7.60	218,623		971,618	
Primary Sedimentation	7,000	477,391		1.40	13,315		4.90	6,430			4.90	140,954		638,090	
Aeration	7,000	477,391		30.40	289,129		7.60	9,973			7.60	218,623		995,116	
Secondary Sedimentation	8,700	593,329		1.00	9,511		6.20	8,136			6.20	178,350		789,326	
Recirculating Pumping	4,200	286,435		2.40	22,826		3.70	4,855			3.70	106,435		420,551	
Chlorination	6,700	456,931		0.30	2,853		1.50	1,968		1,016,327	1.50	43,149		1,521,228	
Effluent Pumping	5,300	361,453		2.70	25,679		3.20	4,199			3.20	92,052		483,383	
Primary Sludge Pumping	5,600	381,913		0.10	951		5.80	7,611			5.80	166,844		557,319	
Waste Sludge Pumping	4,100	279,615		0.30	2,853		3.70	4,855			3.70	106,435		393,758	
Sludge Holding Tanks	2,900	197,776		0.00	0		2.90	3,806			2.90	83,422		285,004	
Scum Pumping	5,600	381,913		0.30	2,853		5.80	7,611			5.80	166,844		559,221	
Primary Sludge Transfer Pumping	2,900	197,776		2.10	19,973		2.10	2,756			2.10	60,409		280,914	
Waste Activated Sludge Xfer Pumping	2,700	184,136		1.10	10,462		2.00	2,625			2.00	57,532		254,755	
Laboratory	9,600	654,707		0.00	0		8.10	10,630			8.10	233,006		898,343	
Subtotal	111,700	7,617,794		100.0	951,082		89.4	117,316		1,016,327	89.4	2,571,695		12,274,214	
Yardwork and A&G	32,200	2,195,998		0.00	1		10.60	13,913			10.60	304,917		2,514,829	Check
Subtotal	143,900	9,813,792	Somallo-22	100.0	951,083	Somallo-22	100.0	131,229	Somallo-22	1,016,327	100.0	2,876,612	Somallo-22	14,789,043	14,789,043 Somallo-22
Sludge Disposal															
Contract Dewatering												(c)		0	
Biosolids Reclamation Center		0	Somallo-22		(b)			(b)		0		3,540,482	Somallo-22	3,540,482	Check
Subtotal		0			0			0		0		3,540,482		3,540,482	3,540,482 Somallo-22
Total O&M		9,813,792			951,083			131,229		1,016,327		6,417,094		18,329,525	
														0	

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
RESPON - Treatment Plant Responsibilities	P.N. 135647.0100	February 07, 2020 3:50 p.m.			Somallo-26

Line No.	Process	(1) Treatment Plant Responsibility for Personal Services & Contributions Total $ Somallo-24	(2) SWWPCP $	(3) SEWPCP $	(4) Treatment Plant Responsibility for Purchase of Services, Mat'ls & Supp., and Equipment Total $ Somallo-24	(5) SWWPCP $	(6) SEWPCP $	(7) Treatment Plant Responsibility for Power Requirements Total $ Somallo-24	(8) SWWPCP $	(9) SEWPCP $	(8) Treatment Plant Responsibility for Gas Requirements Total $ Somallo-24	(9) SWWPCP $	(10) SEWPCP $	(11) Basis of Allocation SWWPCP %	(12) SEWPCP %	
1	Raw Wastewater Pumping	159,823	159,823	0	66,643	66,643	0	67,069	67,069	0	20,775	20,775	0	100	0.0	
2	Preliminary Treatment	2,109,661	2,109,661	0	762,899	762,899	0	4,471	4,471	0	237,819	237,819	0	100	0.0	
3	Flocculation	383,575	383,575	0	395,413	395,413	0	214,940	214,940	0	123,262	123,262	0	100	0.0	
4	Primary Sedimentation	556,183	556,183	0	222,777	222,777	0	16,927	16,927	0	69,446	69,446	0	100	0.0	
5	Aeration	1,131,546	1,131,546	0	434,129	434,129	0	2,094,148	2,094,148	0	135,331	135,331	0	100	0.0	
6	Secondary Sedimentation	958,937	958,937	0	467,768	467,768	0	43,116	43,116	0	145,817	145,817	0	100	0.0	
7	Recirculating Pumping	358,003	358,003	0	194,850	194,850	0	114,337	114,337	0	60,741	60,741	0	100	0.0	
8	Chlorination	543,398	543,398	0	1,096,054	1,096,054	0	9,262	9,262	0	20,775	20,775	0	100	0.0	
9	Effluent Pumping	447,504	447,504	0	22,214	22,214	0	28,105	28,105	0	6,925	6,925	0	100	0.0	
10	Primary Sludge Pumping	409,146	409,146	0	250,703	250,703	0	2,555	2,555	0	78,152	78,152	0	100	0.0	
11	Secondary Sludge Thickening	338,824	338,824	0	44,428	44,428	0	279,773	279,773	0	13,850	13,850	0	100	0.0	
12	Sludge Digestion	1,726,086	1,294,564	431,522	584,551	438,413	146,138	87,190	65,392	21,798	182,222	136,666	45,556	75.0	25.0	(d)
13	Sludge Holding Tanks	294,074	220,555	73,519	206,275	154,706	51,569	0	0	0	64,302	48,226	16,076	75.0	25.0	(d)
14	Sludge Dewatering	1,342,512	1,006,884	335,628	1,235,745	926,809	308,936	63,875	47,906	15,969	385,219	288,914	96,305	75.0	25.0	(d)
15	Sludge Lagoon	12,786	9,589	3,197	11,424	8,568	2,856	0	0	0	3,561	2,671	890	75.0	25.0	(d)
16	Grit and Screening Incineration	1,182,689	887,017	295,672	261,493	196,120	65,373	39,603	29,702	9,901	81,515	61,136	20,379	75.0	25.0	(d)
17	Scum and Grease Incineration	300,467	225,350	75,117	83,779	62,834	20,945	6,068	4,551	1,517	26,117	19,588	6,529	75.0	25.0	(d)
18	Laboratory	818,293	818,293	0	500,772	500,772	0	0	0	0	156,106	156,106	0	100	0.0	
19	Subtotal	13,073,507	11,858,852	1,214,655	6,841,917	6,246,100	595,817	3,071,439	3,022,254	49,185	1,811,935	1,626,200	185,735			
20	Yardwork and A&G (a)	3,151,706	2,865,200	286,506	823,319	748,500	74,819	(b)			(b)					
21	Subtotal	16,225,213	14,724,052	1,501,161	7,665,236	6,994,600	670,636	3,071,439	3,022,254	49,185	1,811,935	1,626,200	185,735			
22	Non-Process Related Sludge Disposal	0	0	0	8,159,704	8,159,704	0	(c)			(c)					
23	Total	16,225,213	14,724,052	1,501,161	15,824,940	15,154,304	670,636	3,071,439	3,022,254	49,185	1,811,935	1,626,200	185,735			
		0	16,225,213		0	15,824,940		0	3,071,439		0	1,811,935				

(a) Allocate Total Yardwork and A&G on the basis of Line 19, sum of Columns 1 through 6.

Class 100 & 500		Power		Gas		All Other		
Somallo-24		Somallo-24		Somallo-24		Somallo-24		
$3,151,706	+	$122,320	+	$166,589	+	$534,410	=	$3,975,025

SWWPCP Allocated Portion

		$11,858,852	+	$6,246,100		
$3,151,706	*	----------	----------	----------	=	$2,865,200
		$13,073,507	+	$6,841,917		
		$11,858,852	+	$6,246,100		
$823,319	*	----------	----------	----------	=	$748,500
		$13,073,507	+	$6,841,917		

SEWPCP Allocated Portion

$3,151,706	-	$2,865,200	=	$286,506
$823,319	-	$748,500	=	$74,819

(b) Included in Column 4.
(c) BRC power included in SWWPCP power.
(d) Allocated between SW & SE on basis total sludge: 75.0% to SW and 25.0% to SE (BD-25).

75.0% for SW 25.0% for SE

Ref: Somallo-23 * Somallo-29

Table_WW-10B

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE NORTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense $	Retail and Cheltenham Volume $	Retail and Cheltenham Capacity $	(2) Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume $	(3) Capacity $	(4) Volume $	(5) Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity $	(6) Suspended Solids $	(7) BOD $
	Personal Services:	Somallo-23								
1	Raw Wastewater Pumping	796,985				796,985				
2	Preliminary Treatment	1,549,693					1,100,282	449,411		
3	Primary Sedimentation	625,412					625,412			
4	Aeration	2,584,667								2,584,667
5	Secondary Sedimentation	630,947					630,947			
6	Recirculating Pumping	464,908					464,908			
7	Chlorination	437,235					266,713	170,522		
8	Primary Sludge Pumping	127,296							127,296	
9	Secondary Sludge Thickening	309,939							154,970	154,969
10	Sludge Digestion	2,435,232							1,826,424	608,808
11	Sludge Holding Tanks	177,108							132,831	44,277
12	Sludge Dewatering	448,304							336,228	112,076
13	Sludge Lagoon	0								
14	Grit and Screening Incineration	996,231					667,475	328,756		
15	Scum and Grease Incineration	237,989							237,989	
16	Laboratory	824,658							412,329	412,329
17	Subtotal Personal Services	12,646,604	0	0	0	796,985	3,755,737	948,689	3,228,067	3,917,126
	Purchase of Services, Materials, Supplies, and Equipment:									
18	Raw Wastewater Pumping	646,571				646,571				
19	Preliminary Treatment	1,021,742						1,021,742		
20	Primary Sedimentation	478,941					478,941			
21	Aeration	718,412								718,412
22	Secondary Sedimentation	550,783					550,783			
23	Recirculating Pumping	207,541					207,541			
24	Chlorination	2,417,068					2,417,068			
25	Primary Sludge Pumping	87,806							87,806	
26	Secondary Sludge Thickening	103,771							51,886	51,885
27	Sludge Digestion	1,349,018							1,011,764	337,254
28	Sludge Holding Tanks	191,577							143,683	47,894
29	Sludge Dewatering	151,665							113,749	37,916
30	Sludge Lagoon	0								
31	Grit and Screening Incineration	431,047						431,047		
32	Scum and Grease Incineration	119,735							119,735	
33	Laboratory	925,953							462,977	462,976
34	Subtotal Purchase of Services, Materials, Supplies & Equipment	9,401,630	0	0	0	646,571	3,654,333	1,452,789	1,991,600	1,656,337
35	Subtotal All Above	22,048,234	0	0	0	1,443,556	7,410,070	2,401,478	5,219,667	5,573,463
	Administrative and General:									
36	Personal Services	3,254,357	0	0	0	205,089	966,466	244,127	830,680	1,007,995
37	Other	1,229,444	0	0	0	84,552	477,874	189,980	260,440	216,598
38	Subtotal Administration & General	4,483,801	0	0	0	289,641	1,444,340	434,107	1,091,120	1,224,593

Ref: Somallo-23 * Somallo-29

Table_WW-10B

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE NORTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense $	Retail and Cheltenham Volume $	Retail and Cheltenham Capacity $	(2) Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume $	(3) Capacity $	(4) Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Volume $	(5) Capacity $	(6) Suspended Solids $	(7) BOD $	CHECK
	Power Requirements:	Somallo-23									
39	Raw Wastewater Pumping	722,035			613,730	108,305					
40	Preliminary Treatment	5,967					5,072	895			
41	Primary Sedimentation	47,738					40,577	7,161			
42	Aeration	3,956,272								3,956,272	
43	Secondary Sedimentation	47,738					40,577	7,161			
44	Recirculating Pumping	167,082					142,020	25,062			
45	Chlorination	11,934					10,144	1,790			
46	Primary Sludge Pumping	5,967							5,967		
47	Secondary Sludge Thickening	447,542							223,771	223,771	
48	Sludge Digestion	101,443							76,082	25,361	
49	Sludge Holding Tanks	0									
50	Sludge Dewatering	107,410							80,558	26,852	
51	Sludge Lagoon	0									
52	Grit and Screening Incineration	95,476					81,155	14,321			
53	Scum and Grease Incineration	5,967							5,967		
54	Laboratory	0									
55	Subtotal Power Requirements	5,722,571	0	0	613,730	108,305	319,545	56,390	392,345	4,232,256	
	Gas Requirements:	Somallo-23									
56	Raw Wastewater Pumping	53,148			0	53,148					
57	Preliminary Treatment	83,986					0	83,986			
58	Primary Sedimentation	39,369					39,369	0			
59	Aeration	59,053								59,053	
60	Secondary Sedimentation	45,274					45,274	0			
61	Recirculating Pumping	17,060					17,060	0			
62	Chlorination	7,218					7,218	0			
63	Primary Sludge Pumping	7,218							7,218		
64	Secondary Sludge Thickening	8,530							4,265	4,265	
65	Sludge Digestion	110,888							83,166	27,722	
66	Sludge Holding Tanks	15,747							11,810	3,937	
67	Sludge Dewatering	12,467							9,350	3,117	
68	Sludge Lagoon	0									
69	Grit and Screening Incineration	35,432					0	35,432			
70	Scum and Grease Incineration	9,842							9,842		
71	Laboratory	76,113							38,057	38,056	
72	Subtotal Gas Requirements	581,345	0	0	0	53,148	108,921	119,418	163,708	136,150	
73	Sludge Disposal	12,668,362							9,501,271	3,167,091	
74	Total Northeast WPC Plant Expense	45,504,312	0	0	613,730	1,894,650	9,282,876	3,011,393	16,368,111	14,333,553	
		0	45,504,312								

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
BASISALLO - Basis of Allocation of O&M Expense	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-29

Basis of Allocation

Line No.		Retail and Cheltenham Volume %	Retail and Cheltenham Capacity %	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume %	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Capacity %	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Volume %	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity %	Solids %	BOD %	Reference
Personal Services:										PN 16281.300 - SOM-33 and 34
1	Raw Wastewater Pumping				100					
2	Preliminary Treatment					71	29			(a)
3	Primary Sedimentation					100				
4	Aeration								100	
5	Secondary Sedimentation					100				
6	Recirculating Pumping					100				
7	Chlorination					61	39			(a)
8	Primary Sludge Pumping							100		
9	Secondary Sludge Thickening							50	50	#13321.300;A-16
10	Sludge Digestion							75	25	#13321.300;A-16
11	Sludge Holding Tanks							75	25	#13321.300;A-16
12	Sludge Dewatering							75	25	#13321.300;A-16
13	Sludge Lagoon									
14	Grit and Screening Incineration					67	33			(a)
15	Scum and Grease Incineration							100		
16	Laboratory							50	50	Assume
17	Subtotal Personal Services									
Purchase of Services, Materials, Supplies, and Equipment:										
18	Raw Wastewater Pumping				100					
19	Preliminary Treatment						100			
20	Primary Sedimentation					100				
21	Aeration								100	
22	Secondary Sedimentation					100				
23	Recirculating Pumping					100				
24	Chlorination					100				
25	Primary Sludge Pumping							100		
26	Secondary Sludge Thickening							50	50	#13321.300;A-16
27	Sludge Digestion							75	25	#13321.300;A-16
28	Sludge Holding Tanks							75	25	#13321.300;A-16
29	Sludge Dewatering							75	25	#13321.300;A-16
30	Sludge Lagoon									
31	Grit and Screening Incineration						100			
32	Scum and Grease Incineration							100		
33	Laboratory							50	50	Assume
34	Subtotal Purchase of Services, Materials, Supplies & Equipment									
35	Subtotal All Above									
Administrative and General:										
36	Personal Services									Allocated on subtotal Personal Services (Line 17)
37	Other									Allocated on subtotal Purchase of Services, Etc. (Line 34)
38	Subtotal Administration & General									

Power Requirements:									
39	Raw Wastewater Pumping	85	15						(c)
40	Preliminary Treatment			85	15				(c)
41	Primary Sedimentation			85	15				(c)
42	Aeration						100		
43	Secondary Sedimentation			85	15				(c)
44	Recirculating Pumping			85	15				(c)
45	Chlorination			85	15				(c)
46	Primary Sludge Pumping					100			
47	Secondary Sludge Thickening					50	50		
48	Sludge Digestion					75	25	#13321.300;A-16	
49	Sludge Holding Tanks								
50	Sludge Dewatering					75	25	#13321.300;A-16	
51	Sludge Lagoon								
52	Grit and Screening Incineration			85	15				(c)
53	Scum and Grease Incineration					100			
54	Laboratory								
55	Subtotal Power Requirements								
Gas Requirements:									
56	Raw Wastewater Pumping		100						
57	Preliminary Treatment				100				
58	Primary Sedimentation			100					
59	Aeration						100		
60	Secondary Sedimentation			100					
61	Recirculating Pumping			100					
62	Chlorination			100					
63	Primary Sludge Pumping					100			
64	Secondary Sludge Thickening					50	50	#13321.300;A-16	
65	Sludge Digestion					75	25	#13321.300;A-16	
66	Sludge Holding Tanks					75	25	#13321.300;A-16	
67	Sludge Dewatering					75	25	#13321.300;A-16	
68	Sludge Lagoon								
69	Grit and Screening Incineration				100				
70	Scum and Grease Incineration					100			
71	Laboratory					50	50		Assume
72	Subtotal Gas Requirements								
73	Sludge Disposal					75	25	#13321.300;A-16	
74	Total Northeast WPC Plant Expense								

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-10.1)					
	Operation	Maintenance	Total	Operation	Maintenance	Total
	mhrs	mhrs	mhrs			
Preliminary Treatment	20,000	8,000	28,000	71%	29%	100%
Chlorination	4,800	3,100	7,900	61%	39%	100%
Grit & Screenings Incineration	12,000	6,000	18,000	67%	33%	100%
Frankford Grit Cham. 1978 Rpt, Table 28 (b)	71,000	62,000	133,000	53%	47%	100%

(b) The Frankford Grit Chamber will not be in service during the test period.
(c) Reference #10207.300, SI-1.1.1
(d) Line 56, sludge disposal represents NEWPCP allocated share of related expenses incurred at the SWWPCP.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
NEOMSUM - Summary of Allocated O&M NE WPCP	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-30

Line No.	Summary of Allocated O&M	Total Operation and Maintenance Expense $	Retail and Cheltenham Volume $	Retail and Cheltenham Capacity $	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume $	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Capacity $	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Volume $	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity $	Suspended Solids $	BOD $
					Somallo-23&Somallo-27&Somallo-28					
1	Total Direct O&M	45,504,312	0	0	613,730	1,894,650	9,282,876	3,011,393	16,368,111	14,333,553
2	Less Direct Power	5,722,571	0	0	613,730	108,305	319,545	56,390	392,345	4,232,256
3	Less A&G Power	244,657	0	0	0	16,800	95,157	37,800	51,800	43,100
4	Less Sludge Disp. Power	0	0	0	0	0	0	0	0	0
5	Less Direct Gas	581,345	0	0	0	53,148	108,921	119,418	163,708	136,150
6	Less A&G Gas	74,798	0	0	0	5,100	29,098	11,600	15,800	13,200
7	Less Sludge Disp. Gas	0	0	0	0	0	0	0	0	0
8	Direct O&M Less Power	38,880,942	0	0	0	1,711,297	8,730,156	2,786,185	15,744,458	9,908,847

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
SWOMALLO1 - Allocation of O&M For The SW WPCP - Page 1	P.N. 135647.0100	February 07, 2020 3:50 p.m.			Somallo-31

Ref: Somallo-26 * allocation percentages this page

TABLE WW - 10C

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHWEST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense	(2) Retail Volume	(3) Retail Capacity	(4) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume	(5) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity	(6) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids	(7) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD
		$	$	$	$	$	$	$
Personal Services:		Somallo-26						
1	Raw Wastewater Pumping	159,823		159,823				
2	Preliminary Treatment	2,109,661			1,540,053	569,608		
3	Flocculation	383,575			383,575			
4	Primary Sedimentation	556,183			556,183			
5	Aeration	1,131,546						1,131,546
6	Secondary Sedimentation	958,937			958,937			
7	Recirculating Pumping	358,003			358,003			
8	Chlorination	543,398			320,605	222,793		
9	Effluent Pumping	447,504				447,504		
10	Primary Sludge Pumping	409,146					409,146	
11	Secondary Sludge Thickening	338,824					166,024	172,800
12	Sludge Digestion	1,294,564					970,923	323,641
13	Sludge Holding Tanks	220,555					165,416	55,139
14	Sludge Dewatering	1,006,884					755,163	251,721
15	Sludge Lagoon	9,589					7,192	2,397
16	Grit and Screening Incineration	887,017			603,172	283,845		
17	Scum and Grease Incineration	225,350					225,350	
18	Laboratory	818,293					409,147	409,146
19	Subtotal Personal Services	11,858,852	0	159,823	4,720,528	1,523,750	3,108,361	2,346,390

Basis of Allocation

Line No.		Reference	Retail Volume	Retail Capacity	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD
			%	%	%	%	%	%
		PN 16281.300 - SOM-36 and 37						
1	Raw Wastewater Pumping			100				
2	Preliminary Treatment	(a)			73	27		
3	Flocculation				100			
4	Primary Sedimentation				100			
5	Aeration							100
6	Secondary Sedimentation				100			
7	Recirculating Pumping				100			
8	Chlorination	(a)			59	41		
9	Effluent Pumping					100		
10	Primary Sludge Pumping						100	
11	Secondary Sludge Thickening						49	51
12	Sludge Digestion						75	25
13	Sludge Holding Tanks						75	25
14	Sludge Dewatering						75	25
15	Sludge Lagoon						75	25
16	Grit and Screening Incineration	(a)			68	32		
17	Scum and Grease Incineration						100	
18	Laboratory	Assume					50	50

Purchase of Services, Materials, Supplies, and Equipment:		Somallo-26													
20	Raw Wastewater Pumping	66,643		66,643						100					
21	Preliminary Treatment	762,899				762,899						100			
22	Flocculation	395,413			395,413						100				
23	Primary Sedimentation	222,777			222,777						100				
24	Aeration	434,129						434,129							100
25	Secondary Sedimentation	467,768			467,768						100				
26	Recirculating Pumping	194,850			194,850						100				
27	Chlorination	1,096,054			1,096,054						100				
28	Effluent Pumping	22,214				22,214						100			
29	Primary Sludge Pumping	250,703					250,703						100		
30	Secondary Sludge Thickening	44,428					21,770	22,658					49	51	
31	Sludge Digestion	438,413					328,810	109,603					75	25	
32	Sludge Holding Tanks	154,706					116,030	38,676					75	25	
33	Sludge Dewatering	926,809					695,107	231,702					75	25	
34	Sludge Lagoon	8,568					6,426	2,142					75	25	
35	Grit and Screening Incineration	196,120				196,120						100			
36	Scum and Grease Incineration	62,834					62,834						100		
37	Laboratory	500,772					250,386	250,386	Assume				50	50	
38	Subtotal Purchase of Services, Materials, Supplies & Equipment	6,246,100	0	66,643	2,376,862	981,233	1,732,066	1,089,296							
39	Subtotal All Above	18,104,952	0	226,466	7,097,390	2,504,983	4,840,427	3,435,686							
Administrative and General:		Somallo-26													
40	Personal Services	2,865,200	0	38,615	1,140,519	368,151	751,007	566,908	Allocated on subtotal Personal Services (Line 17)						
41	Other	748,500	0	7,986	284,831	117,586	207,561	130,536	Allocated on subtotal Purchase of Services, Etc. (Line 34)						
42	Subtotal Administration & General	3,613,700	0	46,601	1,425,350	485,737	958,568	697,444							

Ref: Somallo-26 * allocation percentages this page

TABLE WW - 10C

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHWEST WPC PLANT TO FUNCTIONAL COST COMPONENTS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)		Basis of Allocation						
			Retail		Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby					Retail		Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby				
Line No.		Total Operation and Maintenance Expense	Volume	Capacity	Volume	Capacity	Suspended Solids	BOD	Reference	Volume	Capacity	Volume	Capacity	Suspended Solids	BOD
		$	$	$	$	$	$	$		%	%	%	%	%	%
Power Requirements:		Somallo-26													
43	Raw Wastewater Pumping	67,069	57,009	10,060					(b)	85	15				
44	Preliminary Treatment	4,471			3,800	671			(b)			85	15		
45	Flocculation	214,940			182,699	32,241			(b)			85	15		
46	Primary Sedimentation	16,927			14,388	2,539			(b)			85	15		
47	Aeration	2,094,148						2,094,148							100
48	Secondary Sedimentation	43,116			36,649	6,467			(b)			85	15		
49	Recirculating Pumping	114,337			97,186	17,151			(b)			85	15		
50	Chlorination	9,262			7,873	1,389			(b)			85	15		
51	Effluent Pumping	28,105			23,889	4,216			(b)			85	15		
52	Primary Sludge Pumping	2,555					2,555							100	
53	Secondary Sludge Thickening	279,773					137,089	142,684						49	51
54	Sludge Digestion	65,392					49,044	16,348						75	25
55	Sludge Holding Tanks	0					0	0						75	25
56	Sludge Dewatering	47,906					35,930	11,976						75	25
57	Sludge Lagoon	0					0	0	(b)					75	25
58	Grit and Screening Incineration	29,702			25,247	4,455						85	15		
59	Scum and Grease Incineration	4,551					4,551							100	
60	Laboratory	0					0	0						50	50
61	Subtotal Power Requirements	3,022,254	57,009	10,060	391,731	69,129	229,169	2,265,156							
Gas Requirements:		Somallo-26 (d)													
62	Raw Wastewater Pumping	20,775	0	20,775							100				
63	Preliminary Treatment	237,819			0	237,819							100		
64	Flocculation	123,262			123,262	0						100			
65	Primary Sedimentation	69,446			69,446	0						100			
66	Aeration	135,331						135,331							100
67	Secondary Sedimentation	145,817			145,817	0						100			
68	Recirculating Pumping	60,741			60,741	0						100			
69	Chlorination	20,775			20,775	0						100			
70	Effluent Pumping	6,925			0	6,925							100		
71	Primary Sludge Pumping	78,152					78,152							100	
72	Secondary Sludge Thickening	13,850					6,787	7,063						49	51
73	Sludge Digestion	136,666					102,500	34,166						75	25
74	Sludge Holding Tanks	48,226					36,170	12,056						75	25
75	Sludge Dewatering	288,914					216,686	72,228						75	25
76	Sludge Lagoon	2,671					2,003	668						75	25
77	Grit and Screening Incineration	61,136			0	61,136							100		
78	Scum and Grease Incineration	19,588					19,588							100	
79	Laboratory	156,106					78,053	78,053	Assume					50	50
80	Subtotal Gas Requirements	1,626,200	0	20,775	420,041	305,880	539,939	339,565							
81	Sludge Disposal	Somallo-24 8,159,704					6,119,778	2,039,926						75	25
82	Total Southwest WPC Plant Expense	34,526,810	57,009	303,902	9,334,512	3,365,729	12,687,881	8,777,777							
		0	34,526,810												

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-11.1) Operation mhrs	Maintenance mhrs	Total mhrs	Operation	Maintenance	Total
Preliminary Treatment	24,000	9,000	33,000	73%	27%	100%
Chlorination	5,000	3,500	8,500	59%	41%	100%
Grit & Screenings Incineration	12,500	6,000	18,500	68%	32%	100%

(b) Reference #10207.300, SI-1.1.1
(c) Line 62, sludge disposal represents allocated share of related expenses incurred at the SWWPCP.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SWOMSUM - Summary of Allocated O&M SW WPCP	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-33

Rangename: SWCOS03T

Line No.		Total Operation and Maintenance Expense	Retail Volume	Retail Capacity	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD
		$	$	$	$	$	$	$
	Summary of Allocated O&M							
				Somallo-26&Somallo-31&Somallo-32				
1	Total Direct O&M	34,526,810	57,009	303,902	9,334,512	3,365,729	12,687,881	8,777,777
2	Less Direct Power	3,022,254	57,009	10,060	391,731	69,129	229,169	2,265,156
3	Less A&G Power	111,204	0	1,186	42,317	17,470	30,837	19,394
4	Less Sludge Disp. Power	0	0	0	0	0	0	0
5	Less Direct Gas	1,626,200	0	20,775	420,041	305,880	539,939	339,565
6	Less A&G Gas	151,450	0	1,616	57,632	23,792	41,998	26,412
7	Less Sludge Disp. Gas	0	0	0	0	0	0	0
8	Direct O&M Less Power	29,615,702	0	270,265	8,422,791	2,949,458	11,845,938	6,127,250

TABLE WW - 10D

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

		(1)	(2)	(3)	(4)	(5)		Basis of Allocation			
		Total Operation and Maintenance	Retail and Springfield (Wyndmoor)					Retail and Springfield (Wyndmoor)			
Line No.		Expense	Volume	Capacity	Suspended Solids	BOD	Reference	Volume	Capacity	Suspended Solids	BOD
		$	$	$	$	$		%	%	%	%
Personal Services:		Somallo-25 & Somallo-26					PN 16281.300 - SOM-39 and 40				
1	Raw Wastewater Pumping	941,142		941,142					100		
2	Preliminary Treatment	1,336,694	962,420	374,274			(a)	72	28		
3	Flocculation	409,192	409,192					100			
4	Primary Sedimentation	477,391	477,391					100			
5	Aeration	477,391				477,391					100
6	Secondary Sedimentation	593,329	593,329					100			
7	Recirculating Pumping	286,435	286,435					100			
8	Chlorination	456,931	287,867	169,064			(a)	63	37		
9	Effluent Pumping	361,453		361,453					100		
10	Primary Sludge Pumping	381,913			381,913					100	
11	Waste Sludge Pumping	279,615			237,673	41,942				85	15
12	Secondary Sludge Thickening	0									
13	Sludge Digestion	431,522			366,794	64,728				85	15
14	Sludge Holding Tanks	271,295			230,601	40,694				85	15
15	Sludge Dewatering	335,628			285,284	50,344				85	15
16	Sludge Lagoon	3,197			2,717	480				85	15
17	Grit and Screening Incineration	295,672	201,057	94,615			(a)	68	32		
18	Scum and Grease Incineration	75,117			75,117					100	
19	Scum Pumping	381,913			381,913					100	
20	Primary Sludge Transfer Pumping	197,776			197,776					100	
21	Waste Activated Sludge Xfer Pumping	184,136			156,516	27,620				85	15
22	Laboratory	654,707			327,354	327,353	Assume			50	50
23	Subtotal Personal Services	8,832,449	3,217,691	1,940,548	2,643,658	1,030,552					

Purchase of Services, Materials, Supplies, and Equipment:											
24	Raw Wastewater Pumping	178,350		178,350					100		
25	Preliminary Treatment	520,667		520,667					100		
26	Flocculation	218,623	218,623					100			
27	Primary Sedimentation	140,954	140,954					100			
28	Aeration	218,623				218,623					100
29	Secondary Sedimentation	178,350	178,350					100			
30	Recirculating Pumping	106,435	106,435					100			
31	Chlorination	1,059,476	1,059,476					100			
32	Effluent Pumping	92,052		92,052					100		
33	Primary Sludge Pumping	166,844			166,844					100	
34	Waste Sludge Pumping	106,435			90,470	15,965				85	15
35	Secondary Sludge Thickening	0									
36	Sludge Digestion	146,138			124,217	21,921				85	15
37	Sludge Holding Tanks	134,991			114,742	20,249				85	15
38	Sludge Dewatering	308,936			262,596	46,340				85	15
39	Sludge Lagoon	2,856			2,428	428				85	15
40	Grit and Screening Incineration	65,373		65,373					100		
41	Scum and Grease Incineration	20,945			20,945					100	
42	Scum Pumping	166,844			166,844					100	
43	Primary Sludge Transfer Pumping	60,409			60,409					100	
44	Waste Activated Sludge Xfer Pumping	57,532			48,902	8,630				85	15
45	Laboratory	233,006			116,503	116,503	Assume			50	50
46	Subtotal Purchase of Services, Materials, Supplies & Equipment	4,183,839	1,703,838	856,442	1,174,900	448,659					
47	Subtotal All Above	13,016,288	4,921,529	2,796,990	3,818,558	1,479,211					
Administrative and General:											
48	Personal Services	2,482,504	904,385	545,423	743,043	289,653	Allocated on subtotal Personal Services (Line 23)				
49	Services, Materials, Supplies, and Equipment	379,737	154,645	77,733	106,637	40,722	Allocated on subtotal Purchase of Services, Etc. (Line 46)				
50	Gas	13,913	2,272	4,090	4,595	2,956	Allocated on subtotal Gas (Line 97)				
51	Subtotal Administration & General	2,876,154	1,061,302	627,246	854,275	333,331					

TABLE WW - 10D

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense $	(2) Retail and Springfield (Wyndmoor) Volume $	(3) Capacity $	(4) Suspended Solids $	(5) BOD $	Basis of Allocation: Reference	Retail and Springfield (Wyndmoor) Volume %	Capacity %	Suspended Solids %	BOD %
Power Requirements:		Somallo-25 & Somallo-26									
52	Raw Wastewater Pumping	216,847	184,320	32,527			(b)	85	15		
53	Preliminary Treatment	0	0	0			(b)	85	15		
54	Flocculation	333,830	283,756	50,074			(b)	85	15		
55	Primary Sedimentation	13,315	11,318	1,997			(b)	85	15		
56	Aeration	289,129				289,129					100
57	Secondary Sedimentation	9,511	8,084	1,427			(b)	85	15		
58	Recirculating Pumping	22,826	19,402	3,424			(b)	85	15		
59	Chlorination	2,853	2,425	428			(b)	85	15		
60	Effluent Pumping	25,679	21,827	3,852			(b)	85	15		
61	Primary Sludge Pumping	951			951					100	
62	Waste Sludge Pumping	2,853			2,425	428				85	15
63	Secondary Sludge Thickening	0									
64	Sludge Digestion	21,798			18,528	3,270				85	15
65	Sludge Holding Tanks	0									
66	Sludge Dewatering	15,969			13,574	2,395				85	15
67	Sludge Lagoon	0									
68	Grit and Screening Incineration	9,901	8,416	1,485			(b)	85	15		
69	Scum and Grease Incineration	1,517			1,517					100	
70	Scum Pumping	2,853			2,853					100	
71	Primary Sludge Transfer Pumping	19,973			19,973					100	
72	Waste Activated Sludge Xfer Pumping	10,462			8,893	1,569				85	15
73	Laboratory	0									
74	Subtotal Power Requirements	1,000,267	539,548	95,214	68,714	296,791					
Gas Requirements:		Somallo-25 & Somallo-26									
75	Raw Wastewater Pumping	8,136	0	8,136					100		
76	Preliminary Treatment	23,752	0	23,752					100		
77	Flocculation	9,973	9,973	0				100			
78	Primary Sedimentation	6,430	6,430	0				100			
79	Aeration	9,973				9,973					100
80	Secondary Sedimentation	8,136	8,136	0				100			
81	Recirculating Pumping	4,855	4,855	0				100			
82	Chlorination	1,968	1,968	0				100			
83	Effluent Pumping	4,199	0	4,199					100		
84	Primary Sludge Pumping	7,611			7,611					100	
85	Waste Sludge Pumping	4,855			4,127	728				85	15
86	Secondary Sludge Thickening	0									
87	Sludge Digestion	45,556			38,723	6,833				85	15
88	Sludge Holding Tanks	19,882			16,900	2,982				85	15
89	Sludge Dewatering	96,305			81,859	14,446				85	15
90	Sludge Lagoon	890			757	133				85	15
91	Grit and Screening Incineration	20,379	0	20,379					100		
92	Scum and Grease Incineration	6,529			6,529					100	
93	Scum Pumping	7,611			7,611					100	
94	Primary Sludge Transfer Pumping	2,756			2,756					100	
95	Waste Activated Sludge Xfer Pumping	2,625			2,231	394				85	15
96	Laboratory	10,630			5,315	5,315	Assume			50	50
97	Subtotal Gas Requirements	303,051	31,362	56,466	174,419	40,804					
98	Sludge Disposal	3,540,482			3,009,410	531,072				85	15
99	Total Southeast WPC Plant Expense	20,736,242	6,553,741	3,575,916	7,925,376	2,681,209					
		(1)	20,736,242								

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-12.1) Operation mhrs	Maintenance mhrs	Total mhrs	Operation	Maintenance	Total
Preliminary Treatment	13,000	5,000	18,000	72%	28%	100%
Chlorination	4,200	2,500	6,700	63%	37%	100%
Grit & Screenings Incineration	12,500	6,000	18,500	68%	32%	100%

(b) Reference #10207.300, SI-1.1.1

(c) Line 74, sludge disposal represents allocated share of related expenses incurred at the SWWPCP.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SEOMSUM - Summary of Allocated O&M SE WPCP	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-36

Rangename: SECOST

Line No.		Total Operation and Maintenance Expense $	Retail and Springfield (Wyndmoor) Volume $	Capacity $	Suspended Solids $	BOD $
	Summary of Allocated O&M					
1	Total Direct O&M	20,736,242	6,553,741	3,575,916	7,925,376	2,681,209
2	Less Direct Power	1,000,267	539,548	95,214	68,714	296,791
3	Less A&G Power	11,116	4,527	2,275	3,122	1,192
4	Less Sludge Disp. Power	0	0	0	0	0
5	Less Direct Gas	303,051	31,362	56,466	174,419	40,804
6	Less A&G Gas	15,139	6,165	3,099	4,252	1,623
7	Less Sludge Disp. Gas	0	0	0	0	0
8	Direct O&M Less Power	19,406,669	5,972,139	3,418,862	7,674,869	2,340,799
			19,406,669			

TABLE WW - 10A

ALLOCATION OF TEST YEAR OPERATION AND MAINTENANCE EXPENSE FOR THE COLLECTION SYSTEM TO FUNCTIONAL COST COMPONENTS

Line No.			(1) Total $1,000 Somallo-22	(2) All Customers Capacity $1,000	(3) Retail Volume $1,000	(4) Retail Capacity $1,000	(5) Storm Capacity $1,000	(6) Retail and Lower Merion Volume $1,000	(7) Retail and Lower Merion Capacity $1,000	(8) Retail & Springfield (excluding Wyndmoor) Volume $1,000	(9) Retail & Springfield (excluding Wyndmoor) Capacity $1,000	(10) Direct to Bucks County $1,000 Somallo-23	Allocation Basis Volume	Allocation Basis Capacity	CHECK
1	Sewer Maintenance	x	31,051	31,051											
2	Inlet Cleaning	x	12,781				12,781								
	Pump Stations														
	Neill Drive														
3	Power	x	8.0					7.0	1.0				85	15	
4	Gas	x	0.0					0.0	0.0				0	100	
5	Other	x	108.5						108.5						
	Central Schuylkill														
6	Power	x	50							43	7		85	15	
7	Gas	x	0							0	0		0	100	
8	Other	x	277								277				
	All Other Pumping Stations														
9	Power	x	3,287		2,794	493							85	15	
10	Gas	x	0		0	0							0	100	
11	Other	x	13,482			13,482						0			
12	GSI Maintenance	x	8,934	8,934											
13	Total Collection System		69,979	39,985	2,794	13,975	12,781	7	110	43	284	0			

Total Operating Expense from COS Table ($)	317,209,220
Total Operating Expense in this page ($1,000)	$317,209
ROUNDING ERROR - INCLUDE ON LINE 1 TOTAL !!!	($0)
USE ==>	
Test Cell ==>	$69,979

NOTE: If rounding error is noted above, rerun the wtp sludge cost macro. The sludge cost in the financial plan and the scos analysis may not aligned.

Total O&M Expense	343,746
Interest Expense	(971)
State & Federal Grants	(2,530)
Subtotal	340,245
Retail Misc Revenue	(11,938)
Subtotal	328,307
WTP Sludge	(11,098)
	317,209

Somallo-37	TABLE WW - 10A	69,979	a
Somallo-27	TABLE WW - 10B	45,504	b
Somallo-31	TABLE WW - 10C	34,527	b
Somallo-34	TABLE WW - 10D	20,736	b
Somallo-38	Admin & General	172,999	c
	Total O&M Expense	343,744	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
MISCOM - Miscellaneous Other O&M Allocations	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Somallo-38

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR PAYMENTS TO OTHER FUNDS, INDUSTRIAL WASTE UNIT, AND ADMINISTRATIVE AND GENERAL EXPENSE TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total	(2) A&G	(3) A&G Volume	(4) A&G Plant Investment	(5) Equivalent Bills-All Customers	(6) Streets	(7) Direct to Excess Strength	(8) Equivalent Meters-All Customers	(9) Equivalent Services ≤2" Meter Customers	(10) Wastewater Collection	(11) Wastewater Collection GSI Maintenance	(12) Direct to Stormwater	CHECK
		$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	
		Somallo-4												
1	Water Revenue Bureau	18,209				18,209								
	(Class 100...Class 500)	Somallo-38	This page			This page								
2	Joint Direct Expense (Class 100...Class 500) (a)													
	Human Resources	15,211	15,211											
	Finance and Administration	32,521	7,521			0					25,000		0	
	Public Affairs	8,778	6,473	1,777		527					0		0	
	Planning & Engineering - Watersheds	12,867	11,020								1,478		369	
	Planning & Engineering - BLS	11,478	11,478											
	Planning & Engineering - P&R (incl E & ES)	10,447	0		10,447									
	Planning & Engineering - GSI Maintenance	10,194	0									10,194		
	Information Science & Tech.													
	CBIS	5,884				5,884								
	All Other	8,913	0	8,913										
	Total IST	14,797	0	8,913	0	5,884	0	0	0	0	0	0	0	
	Meter Shop Class 200 - AMR	10				10								
	Operations Cust. Svcs. Classes 100...500 (all)	4,114							4,114					
	Warranty Program Class 264	0							0					
	Subtotal	120,417	51,703	10,690	10,447	6,421	0	0	4,114	0	26,478	10,194	369	
	Plus Residual Fund Deposit	15,191	15,191											
	Plus Deposit From (To) RSF	(2,618)	(2,618)											
2	Joint Direct Expense (Class 100...Class 500) (a)	132,990	64,276	10,690	10,447	6,421	0	0	4,114	0	26,478	10,194	369	
		Somallo-4												
3	Payment to Law Department	3,563	3,563											
		Somallo-4				(Payment to Public Properties (b) * 0.00)								
4	Payment to Public Properties (b)	2,788	2,788			0								
		Somallo-4				(Payment to General Fund * 20.2%,)								
5	Payment to General Fund	4,963	3,960				1,003							
	Somallo-17, Somallo-18,							(Industrial Waste Unit (c) * 0.33)						
6	Fleet, Mayors Office, Procurement	5,682	5,682											
7	Industrial Waste Unit (c)	4,804						1,585	3,219					
	Somallo-19, Somallo-20													
8	Capital (270) Pension & Benefits	0	0		0									
	Somallo-4													
	Total	172,999	80,269	10,690	10,447	24,630	1,003	1,585	7,333	0	26,478	10,194	369	
						x	x	x	x		x	x	x	
			A&G			Equiv. Bills	Streets	Excess Strgth	Equiv. Meters	Eq. M & S	Collection	Stormwater		

(a) Includes Human Resources, Finance and Administration, Plng & Engr and Info Sci & Tech, Public Affairs, and $12,573,000.0 allowance for working capital (Residual Fund Deposit Plus Deposit From (To) Rate Stabilization Fund). SI-101

(b) Class 800: Payments to General Fund (Off. of Fleet Mgmt, Mayor's Off. of Info. Svcs., Managing Dir. Off., Streets Dept., Pub. Prop., Licenses & Insp., Records Dept., Dir. of Fin., Rev. Dept., Procurement Dept., City Treas., Civil Svc. Comm., Personnel Dept., Auditing Dept.). SI-101

(c) Industrial Waste Unit

	A&G	Equiv. Bills	Excess Strgth	Equiv. Meters
(b)	100.0%	0.0%		
(c)			33.0%	67.0%

Allocation of Payment to General Fund - Streets

	Percent	FY 2021 Test Year $1,000	
	PN 19289.100 SI-101		
Sewer Maintenance			
All Customers - Capacity	21.0%	211	x
Inlet Cleaning			
Retail - Storm Capacity	63.0%	632	x
Northeast Plant:			
Retl, Abington, Bensalem, Bucks Cty W&SA Cheltenham, Lower Moreland, and Lower Southampton			
Suspended Solids	5.3%	53	x
Southwest Plant:			
Retail, DELCORA, Lower Merion, Springfld (Excluding Wyndmoor), and Upper Darby			
Suspended Solids	5.4%	54	x
Southeast Plant:			
Retail and Springfield (Wyndmoor)			
Suspended Solids	5.3%	53	x
GSI Maintenance	0.0%	0	x
Total Payment to General Fund - Streets		1,003	

Customer Cost Allocation

	Wastewater			Stormwater		
	Class 100 Direct $	Overheads Calc from Somallo-17 $	Classes 200...400 $	Class 100 Direct $	Overheads Calc from Somallo-17 $	Classes 200...400 $
Information Science & Technology						
CBIS	617,758	621,552	2,214,778	434,640	437,309	1,558,268
All Other	2,299,451	2,313,573	4,299,793	0	0	0
Total	2,917,209	2,935,125	6,514,570	434,640	437,309	1,558,268
Water Revenue Bureau						
Meter Reading	0	0		0	0	
All Other	6,677,695	10,688,404		4,698,276	7,520,121	
		Somallo-4 & Somallo-5			Somallo-4 & Somallo-5	
Total	6,677,695	10,688,400		4,698,276	7,520,100	
Finance & Admin - Customer						
Customer Costs			0			0
Customer Affairs - Customer						
Customer Costs			309,501			217,758

TABLES WW - 10E AND WH-2

TEST YEAR OPERATION AND MAINTENANCE EXPENSE
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Direct Operation & Maintenance Expense	(2) Admin & General Expenses: Direct Assignment	(3) Admin & General Expenses: Allocation	(4) Total Operation & Maintenance Expense	(5) O&M Expense Deductions: Less Interest Income	(6) O&M Expense Deductions: Less State and Federal Grants (a)	(7) Net Operation & Maintenance Expense	(8) Allocation of Administrative and General Expense: Direct Operation & Maintenance Expense	(9) Power Expense	(10) Treatment Plant A&G Power Expense	(11) Sludge Disposal Power	(12) Gas Expense	(13) Treatment Plant A&G Gas Expense	(14) Sludge Disposal Gas	(15) Direct O&M Less Power Less Gas Expense
		$1,000 Somallo-35, Somallo-37 & Somallo-38	$1,000	$1,000	$1,000	$1,000 on (4)	$1,000 on (4)	$1,000	$1,000	$1,000 Somallo-36, & Somallo-37	$1,000 Somallo-36	$1,000 Somallo-36	$1,000 Somallo-36, & Somallo-37	$1,000 Somallo-36	$1,000 Somallo-36	$1,000
	COLLECTION SYSTEM															
	Sewer Maintenance															
1	All Customers - Capacity	31,051	26,689	30,801	88,541	250		88,291	57,740							57,740
	Inlet Cleaning															
2	Retail - Storm Capacity	12,781	632	5,507	18,920	53		18,867	13,413							13,413
	Neill Drive Pumping Station															
	Retail and Lower Merion															
3	Total Volume	7		0	7	0		7	7	7			0			0
4	Total Capacity	110		52	162	0		161.5	110	1			0			109
	Central Schuykill Pumping Station															
	Retail and Springfield (excl. Wyndmoor)															
5	Total Volume	43		0	43	0		43	43	43			0			0
6	Total Capacity	284		157	441	1		440	284	7			0			277
	All Other Pumping Stations															
	Retail															
7	Total Volume	2,794		0	2,794	8		2,786	2,794	2,794			0			0
8	Total Capacity	13,975		5,608	19,583	55		19,528	13,975	493			0			13,482
9	Direct to Bucks County	0		0	0	0		0	0							0
	GSI Maintenance															
10	All Customers - Capacity	8,934	10,194	8,423	27,551	78		27,473	19,128							19,128
11	Total Collection Systems	69,979	37,515	50,548	158,042	445	0	157,597	107,494	3,345	0	0	0	0	0	104,149
	WATER POLLUTION CONTROL PLANTS															
	Northeast Plant:															
	Retail and Cheltenham															
	Volume	0		0	0	0	0	0	0	0	0	0	0	0	0	0
	Capacity	0		0	0	0	0	0	0	0	0	0	0	0	0	0
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton															
12	Volume	614		0	614	2	11	601	614	614	0	0	0	0	0	0
13	Capacity	1,895		727	2,622	7	47	2,568	1,895	108	17	0	53	5	0	1,712
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton															
14	Volume	9,283		3,864	13,147	37	238	12,872	9,283	320	95	0	109	29	0	8,730
15	Capacity	3,011		1,258	4,269	12	77	4,180	3,011	56	38	0	119	12	0	2,786
16	Suspended Solids	16,368	53	6,788	23,209	66	420	22,723	16,421	392	52	0	164	16	0	15,797
17	BOD	14,334		4,458	18,792	53	340	18,399	14,334	4,232	43	0	136	13	0	9,910
	Southwest Plant:															
	Retail															
18	Volume	57		0	57	0	1	56	57	57	0	0	0	0	0	0
19	Capacity	304		208	512	1	9	502	304	10	1	0	21	2	0	270
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby															
20	Volume	9,335		3,758	13,093	37	237	12,819	9,335	392	42	0	420	58	0	8,423
21	Capacity	3,366		1,301	4,667	13	84	4,570	3,366	69	17	0	306	24	0	2,950
22	Suspended Solids	12,688	54	5,129	17,871	52	325	17,494	12,742	229	31	0	540	42	0	11,900
23	BOD	8,778		2,731	11,509	33	208	11,268	8,778	2,265	19	0	340	26	0	6,128
	Southeast Plant:															
	Retail and Springfield (Wyndmoor)															
24	Volume	6,554		2,643	9,197	26	167	9,004	6,554	540	5	0	31	6	0	5,972
25	Capacity	3,576		1,617	5,193	15	94	5,084	3,576	95	2	0	56	3	0	3,420
26	Suspended Solids	7,925	53	3,275	11,253	32	204	11,017	7,978	69	3	0	174	4	0	7,728
27	BOD	2,681		1,062	3,743	11	68	3,664	2,681	297	1	0	41	2	0	2,340
28	Total Water Pollution Control Plants	100,769	160	38,819	139,748	397	2,530	136,821	100,929	9,745	366	0	2,510	242	0	88,066

TABLES WW - 10E AND WH-2

TEST YEAR OPERATION AND MAINTENANCE EXPENSE
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
			Admin & General Expenses			O&M Expense Deductions			Allocation of Administrative and General Expense							
Line No.		Direct Operation & Maintenance Expense	Direct Assignment	Allocation	Total Operation & Maintenance Expense	Less Interest Income	Less State and Federal Grants (a)	Net Operation & Maintenance Expense	Direct Operation & Maintenance Expense	Power Expense	Treatment Plant A&G Power Expense	Sludge Disposal Power	Gas Expense	Treatment Plant A&G Gas Expense	Sludge Disposal Gas	Direct O&M Less Power Less Gas Expense
		$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
	CUSTOMER COSTS															
	All Customers															
29	Equivalent Bills	24,630		8,743	33,373	94		33,279	24,630							24,630
	Equivalent Meters															
30	Industrial Waste Unit	3,219		1,143	4,362	12		4,350	3,219							3,219
31	Other	4,114		1,460	5,574	16		5,558	4,114							4,114
32	Warranty Program (Retail Customers with ≤ 2" meters	0		0	0	0		0	0							0
33	Excess Strength Wastewater - Direct	1,585		563	2,148	6		2,142	1,585							1,585
34	Stormwater - Direct	369		131	500	1		499	369							369
35	Total Customer Costs	33,917	0	12,040	45,957	129	0	45,828	33,917	0	0	0	0	0	0	33,917
36	Total Operation and Maintenance Expense	204,664	37,675	101,407	343,746	971	2,530	340,245	242,339	13,090	366	0	2,510	242	0	226,131

(a) Net Operation & Maintenance Expense is being developed for Wholesale Customers, therefore, Other Operating Revenue associated with retail customers is not included in this table. The table for retail service customers is on pages Somallo-54 and Retcos-3.

(Net O&M above)(O Op Rev)(Clean Str)(Wtr Sludge)

Check: 340,245,057 - 15,438,628 + 2,530,000 - 11,098,069 = 316,238,360

Total O&M to be derived from rates from Financial Plan Cost of Service equals 317,209,220

Check: Column (1) + Column (2) = 306,071,057

Total O&M Revenue Requirements from Financial Plan = 343,745,916 Net Revenue Requirement + Sludge O&M Costs + Misc Revenues

(140)

File: SCOS19_21_ver3_rates.xls **Ver. 1a**
TYOM - Test Year O&M to Functional Cost Components **Somallo-39**

Line No.		(16) Allocation of Admin. & General Expense $1,000 on (15)	(17) Allocation of Admin. & General Expense Volume $1,000 on (15) Excl Customer	(18) Allocation of Admin. & General Expense Plant Invest $1,000 on Plant	Plant Invest $1,000
	COLLECTION SYSTEM				
	Sewer Maintenance				
1	All Customers - Capacity	20,496	3,211	7,094	1,649,393
	Inlet Cleaning				
2	Retail - Storm Capacity	4,761	746	0	
	Neill Drive Pumping Station				
	Retail and Lower Merion				
3	Total Volume	0	0	0	
4	Total Capacity	39	6	7	1,611
	Central Schuykill Pumping Station				
	Retail and Springfield (excl. Wyndmoor)				
5	Total Volume	0	0	0	
6	Total Capacity	98	15	44	10,245
	All Other Pumping Stations				
	Retail				
7	Total Volume	0	0	0	
8	Total Capacity	4,786	750	72	16,803
9	Direct to Bucks County	0	0	0	
	GSI Maintenance				
10	All Customers - Capacity	6,790	1,064	569	132,401
11	Total Collection Systems	36,970	5,792	7,786	1,810,453
	WATER POLLUTION CONTROL PLANTS				
	Northeast Plant:				
	Retail and Cheltenham				
	Volume	0	0	0	
	Capacity	0	0	0	
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton				
12	Volume	0	0	0	
13	Capacity	608	95	24	5,583
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton				
14	Volume	3,099	486	279	64,809
15	Capacity	989	155	114	26,558
16	Suspended Solids	5,607	879	302	70,293
17	BOD	3,518	551	389	90,360
	Southwest Plant:				
	Retail				
18	Volume	0	0	0	
19	Capacity	96	15	97	22,552
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby				
20	Volume	2,990	468	300	69,783
21	Capacity	1,047	164	90	20,893
22	Suspended Solids	4,222	662	244	56,363
23	BOD	2,175	341	215	49,947
	Southeast Plant:				
	Retail and Springfield (Wyndmoor)				
24	Volume	2,120	332	191	44,436
25	Capacity	1,214	190	213	49,635
26	Suspended Solids	2,743	430	102	23,729
27	BOD	831	130	101	23,584
28	Total Water Pollution Control Plants	31,259	4,898	2,661	618,525

File: SCOS19_21_ver3_rates.xls **Ver. 1a**
TYOM - Test Year O&M to Functional Cost Components **Somallo-39**

Line No.		(16) Allocation of Admin. & General Expense	(17) Allocation of Admin. & General Expense Volume	(18) Allocation of Admin. & General Expense Plant Invest	Plant Invest
		$1,000	$1,000	$1,000	$1,000
	CUSTOMER COSTS				
	All Customers				
29	Equivalent Bills	8,743			
	Equivalent Meters				
30	Industrial Waste Unit	1,143			
31	Other	1,460			
32	Warranty Program (Retail Customers with ≤ 2" meters	0			
33	Excess Strength Wastewater - Direct	563			
34	Stormwater - Direct	131			
35	Total Customer Costs	12,040	0	0	0
36	Total Operation and Maintenance Expense	80,269	10,690	10,447	2,428,978
					2,428,978

TABLE 0

UNIT PUMPING AND TREATMENT OPERATION AND MAINTENANCE EXPENSE APPLICABLE FOR CONTRACT SERVICE

Test Year 2021

Line No.		(1) Net Operating Expense $1,000	(2) Projected Test Year Units of Service		(3) Unit Operating Expense $/unit	Total Volume Units Incl. I/I Mcf	Total Volume Units Excl. I/I Mcf	Adjusted Unit Operating Expense $/unit
	PUMPING STATIONS	Somallo-39				Units-2	Units-2	
	Neill Drive Pumping Station	Col (7)						
	Retail and Lower Merion		Units-5					
1	Total Volume	7	69,650	Mcf	0.1005	374,900	360,000	0.1047
2	Total Capacity	161.5	370	Mcf/day	436.4865	2,788	2,728	446.0866
	Central Schuykill Pumping Station							
	Retail and Springfield (excl. Wyndmoor)							
3	Total Volume	43	2,715,700	Mcf	0.0158	130,200	128,000	0.0161
4	Total Capacity	440	22,110	Mcf/day	19.9005	407	397	20.4018
5	All Other Pumping Stations - Direct to Bucks County	0	Direct		Direct	-	-	Direct
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail and Cheltenham							
	Volume	0	NA	Mcf	0.000000	443,000	428,000	0.0000
	Capacity	0	NA	Mcf/day	0.000000	2,803	2,743	0.0000
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
6	Volume	601	6,680,000	Mcf	0.0900	1,691,500	1,636,000	0.0931
7	Capacity	2,568	41,730	Mcf/day	61.5385	10,346	10,126	62.8755
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton		Units-4 & Units-7					
8	Volume	12,872	9,027,000	Mcf	1.4259	2,134,500	2,064,000	1.4746
9	Capacity	4,180	56,393	Mcf/day	74.1227	13,149	12,869	75.7354
10	Suspended Solids	22,723	103,303	1,000 lbs	219.9646	20,089	19,781	223.3896
11	BOD	18,399	72,244	1,000 lbs	254.6786	18,755	18,711	255.2775
	Southwest Plant:							
	Retail							
12	Volume	56	NA	Mcf	0.000000	NA	NA	
13	Capacity	502	NA	Mcf/day	0.000000	NA	NA	
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby		Units-4 & Units-7					
14	Volume	12,819	8,295,000	Mcf	1.5454	1,011,700	978,000	1.5987
15	Capacity	4,570	51,820	Mcf/day	88.1899	6,289	6,149	90.1978
16	Suspended Solids	17,494	75,942	1,000 lbs	230.3566	10,851	10,703	233.5419
17	BOD	11,268	54,092	1,000 lbs	208.3118	9,467	9,447	208.7528
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)		Units-4 & Units-7					
18	Volume	9,004	3,904,000	Mcf	2.3064	22,900	22,000	2.4008
19	Capacity	5,084	24,389	Mcf/day	208.4546	167	167	208.4546
20	Suspended Solids	11,017	31,944	1,000 lbs	344.8848	244	240	350.6329
21	BOD	3,664	26,615	1,000 lbs	137.6667	181	180	138.4315

NA - Not Applicable
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr 2019
TWNALLO1 - O&M Allocated to Abington	P.N. 135647.0100	February 07, 2020 3:50 p.m.			

TABLE WH - 18

OPERATING EXPENSE ALLOCATED TO ABINGTON TOWNSHIP

Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-28						
1	Sewer Maintenance (a)	490,000	x	3.80%		18,620	0	18,620
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
2	Volume	0.0900	$/Mcf	100,500	Mcf	9,045		9,045
3	Capacity	61.5385	$/Mcf/day	844	Mcf/day	51,938		51,938
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.4259	$/Mcf	100,500	Mcf	143,303		143,303
5	Capacity	74.1227	$/Mcf/day	844	Mcf/day	62,560		62,560
6	Suspended Solids	219.9646	$/1,000 lbs	1,020	1,000 lbs	224,364		224,364
7	BOD	254.6786	$/1,000 lbs	1,405	1,000 lbs	357,823		357,823
8	Customer Costs					13,800		13,800
9	Total Treatment					881,453	0	881,453
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			5,116,184	0.5824%	29,798		29,798
11	LTCP O&M			4,634,035	0.5824%	26,990		26,990
12	Total Annual Operating Expense					938,241		938,241
13	Total - Rounded					938,000		938,000

(a) Based on investment in sewers serving Abington.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

CUSTOMER COSTS FOR TOWNSHIP CUSTOMERS

Contract Customer	(1) No. of Customers Metered: Standardized	(2) No. of Customers Metered: Not Standardized	(3) Estimated Total No. of Samples Collected (c)	(4) Sampling Cost $	(5) Billing Cost (b) $	(6) Calibration & Certification: Number of Sites	(7) Calibration & Certification: Billing Cost (d) $
	(Ref. PN 13321.300; B-31)			Col. (3)*(a)			Col. (6)*(d)
Abington	2		8	800	6,500	1	6,500
Bensalem	10	2	104	10,400	6,500	5	32,500
Bucks County		1	32	3,200	6,500	1	6,500
Cheltenham	3		12	1,200	6,500	4	26,000
DELCORA		1	365	36,500	6,500		0
Lower Merion	5	2	84	8,400	6,500	6	39,000
Lower Moreland	3		12	1,200	6,500	2	13,000
Lower Southhampton		1	32	3,200	6,500	1	6,500
Springfield (Excld. W	3		12	1,200	6,500	3	19,500
Springfield (Wyndoor	3		12	1,200	6,500		0
Upper Darby	2		8	800	6,500	1	6,500
Total	31	7		68,100	71,500		156,000

(b) $80 (Ref. PN 16281.300; SOM-59) for FY1992. For FY 2019 Test Year, USE: 100
(b) $5000 (Ref. PN 16281.300; SOM-59) for FY1992. For FY 2021 Test Year, USE: 6,500
(c) Assume 8 samplings per connection per quarter for all non-standardized connections. Assume 1 sample per quarter per connection for all standardized connections. (Ref. PN 13321.300; B-31 & PN 16281.300; SOM-59)
(d) Assume a cost of calibration and quantification of $6,500.0 per site per JRM email of 12/28/00. 6,500

TABLE WH - 19

OPERATING EXPENSE ALLOCATED TO BENSALEM TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-36						
1	Sewer Maintenance (a)	1,110,000	x	3.80%		42,180	0	42,180
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton	Somallo-40		Units-2				
2	Volume	0.0900	$/Mcf	180,600	Mcf	16,254		16,254
3	Capacity	61.5385	$/Mcf/day	1,034	Mcf/day	63,631		63,631
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.4259	$/Mcf	180,600	Mcf	257,518		257,518
5	Capacity	74.1227	$/Mcf/day	1,034	Mcf/day	76,643		76,643
6	Suspended Solids	219.9646	$/1,000 lbs	2,022	1,000 lbs	444,768		444,768
7	BOD	254.6786	$/1,000 lbs	2,209	1,000 lbs	562,585		562,585
8	Customer Costs					49,400		49,400
9	Total Treatment					1,512,979	0	1,512,979
	LTCP O&M Costs	System Annual Cost		Allocation				
10	Amortization of SMIP/GARP Expenses (b)	5,116,184		0.0000%		0		0
11	LTCP O&M	4,634,035		0.0000%		0		0
9	Total					1,512,979	0	1,512,979
10	Total - Rounded					1,513,000	0	1,513,000

(a) Based on investment in sewers serving Bensalem.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

ALLOCATION OF SEWER MAINTENANCE O&M TO TOWNSHIPS

Develop a ratio of total collection system (sewer mains) O&M divided by total collection system (sewer mains) investment and multiply the ratio by each respective township allocated sewer mains investment.

	Somallo-39	
Total Collection System (Sewer Mains) O&M = $1,000	63,541	Excludes SMIP & GARP
Total Collection System (Sewer Mains) Investment =	Spltallo-5	
Mains (a) = $1,000	1,645,759	
FHL Interceptors = $1,000	3,634	
Total - $1,000	1,649,393	

(a) Includes Stormwater Investment.

Ratio =	3.85%
Use	3.80%

		Adjusted O&M Expense
1	Abbington	938,000
2	Bensalem	1,513,000
3	Bucks County	7,333,000
4	Cheltenham	2,654,000
5	DELCORA	9,380,000
6	Lower Merion	2,535,000
7	Lower Moreland	531,000
8	Lower Southampton	2,160,000
9	Springfield (less W)	1,358,000
10	Springfield	217,000
11	Upper Darby	3,056,000
		31,675,000

TABLE WH - 20

OPERATING EXPENSE ALLOCATED TO BUCKS COUNTY W&SA
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-37						
1	Sewer Maintenance (a)	1,566,000	x	3.80%		59,508	0	59,508
2	Direct to Bucks County					0		
	NE Treatment Plants:	Operating Expense Per Unit Somallo-40		Test Yr. No. of Units Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
3	Volume	0.0900	$/Mcf	1,035,100	Mcf	93,159		93,159
4	Capacity	61.5385	$/Mcf/day	6,556	Mcf/day	403,446		403,446
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
5	Volume	1.4259	$/Mcf	1,035,100	Mcf	1,475,949		1,475,949
6	Capacity	74.1227	$/Mcf/day	6,556	Mcf/day	485,948		485,948
7	Suspended Solids	219.9646	$/1,000 lbs	10,449	1,000 lbs	2,298,410		2,298,410
8	BOD	254.6786	$/1,000 lbs	9,819	1,000 lbs	2,500,689		2,500,689
9	Customer Costs					16,200		16,200
10	Total Treatment					7,333,309	0	7,333,309
	LTCP O&M Costs	System Annual Cost		Allocation				
11	Amortization of SMIP/GARP Expenses (b)	5,116,184		0.0000%		0		0
12	LTCP O&M	4,634,035		0.0000%		0		0
13	Total					7,333,309	0	7,333,309
14	Total - Rounded					7,333,000	0	7,333,000

(a) Based on investment in sewers serving Bucks County.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 21

OPERATING EXPENSE ALLOCATED TO CHELTENHAM TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-29						
1	Sewer Maintenance (a)	522,000	x	3.80%		19,836	0	19,836
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail and Cheltenham							
2	Volume	0.0900	$/Mcf	NA	Mcf	0	0	0
3	Capacity	61.5385	$/Mcf/day	NA	Mcf/day	0	0	0
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.4259	$/Mcf	443,000	Mcf	631,674		631,674
5	Capacity	74.1227	$/Mcf/day	2,803	Mcf/day	207,766		207,766
6	Suspended Solids	219.9646	$/1,000 lbs	3,458	1,000 lbs	760,638		760,638
7	BOD	254.6786	$/1,000 lbs	3,000	1,000 lbs	764,036		764,036
8	Customer Costs					33,700		33,700
9	Total Treatment					2,417,650	0	2,417,650
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			5,116,184	2.428005%	124,221		124,221
11	LTCP O&M			4,634,035	2.428005%	112,515		112,515
12	Total					2,654,386	0	2,654,386
13	Total - Rounded					2,654,000	0	2,654,000

(a) Based on investment in sewers serving Cheltenham.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 24

OPERATING EXPENSE ALLOCATED TO LOWER MORELAND TOWNSHIP

Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $ Spltallo-31		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:							
1	Sewer Maintenance (a)	705,000	x	3.80%		26,790	0	26,790
		Operating Expense Per Unit Somallo-40		Test Yr. No. of Units Units-2				
	NE Treatment Plants:							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
2	Volume	0.0900	$/Mcf	67,800	Mcf	6,102		6,102
3	Capacity	61.5385	$/Mcf/day	518	Mcf/day	31,877		31,877
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.4259	$/Mcf	67,800	Mcf	96,676		96,676
5	Capacity	74.1227	$/Mcf/day	518	Mcf/day	38,396		38,396
6	Suspended Solids	219.9646	$/1,000 lbs	673	1,000 lbs	148,036		148,036
7	BOD	254.6786	$/1,000 lbs	501	1,000 lbs	127,594		127,594
8	Customer Costs					20,700		20,700
9	Total Treatment					496,171	0	496,171
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			5,116,184	0.35883%	18,358		18,358
11	LTCP O&M			4,634,035	0.35883%	16,628		16,628
12	Total Annual Operating Expense					531,157	0	531,157
13	Total - Rounded					531,000	0	531,000

(a) Based on investment in sewers serving Lower Moreland.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 25

OPERATING EXPENSE ALLOCATED TO LOWER SOUTHAMPTON TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-32						
1	Sewer Maintenance (a)	10,220,000	x	3.80%		388,360	0	388,360
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
2	Volume	0.0900	$/Mcf	307,500	Mcf	27,675		27,675
3	Capacity	61.5385	$/Mcf/day	1,394	Mcf/day	85,785		85,785
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.4259	$/Mcf	307,500	Mcf	438,464		438,464
5	Capacity	74.1227	$/Mcf/day	1,394	Mcf/day	103,327		103,327
6	Suspended Solids	219.9646	$/1,000 lbs	2,467	1,000 lbs	542,653		542,653
7	BOD	254.6786	$/1,000 lbs	1,821	1,000 lbs	463,770		463,770
8	Customer Costs					16,200	0	16,200
9	Total Treatment					2,066,234	0	2,066,234
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			5,116,184	0.96317%	49,278		49,278
11	LTCP O&M			4,634,035	0.96317%	44,634		44,634
12	Total Annual Operating Expense					2,160,146	0	2,160,146
13	Total - Rounded					2,160,000	0	2,160,000

(a) Based on investment in sewers serving Lower Southampton.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 22

OPERATING EXPENSE ALLOCATED TO DELCORA
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $ Spltallo-38		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $	
	Sewer Maintenance	0	x	3.80%		0	0	0	
	SW Treatment Plants: Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby	Operating Expense Per Unit Somallo-40		Test Yr. No. of Units Units-2					Operating Expense Per Unit
1	Volume	1.5454	$/Mcf	1,200,000	Mcf	1,854,480		1,854,480	1.5454
2	Capacity	88.1899	$/Mcf/day	13,392	Mcf/day	1,181,039		1,181,039	88.1899
3	Suspended Solids	230.3566	$/1,000 lbs	13,404	1,000 lbs	3,087,700		3,087,700	230.3566
4	BOD	208.3118	$/1,000 lbs	11,007	1,000 lbs	2,292,888		2,292,888	208.3118
5	Customer Costs					43,000		43,000	
6	Total Treatment					8,459,107	0	8,459,107	
	LTCP O&M Costs			System Annual Cost	Allocation				
7	Amortization of SMIP/GARP Expenses (a)			5,116,184	9.44287%	483,115		483,115	
8	LTCP O&M			4,634,035	9.44287%	437,586		437,586	
9	Total Annual Operating Expense					9,379,808	0	9,379,808	
10	Total - Rounded					9,380,000	0	9,380,000	

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 26

OPERATING EXPENSE ALLOCATED TO SPRINGFIELD (EXCLUDING WYNDMOOR) TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-33						
1	Sewer Maintenance (a)	768,000	x	3.80%		29,184	0	29,184
		Operating Expense Per Unit		Test Yr. No. of Units				
	Central Schuylkill Pump Station	Somallo-40		Units-2				
	Retail and Springfield (excluding Wyndmoor)							
2	Volume	0.0158	$/Mcf	130,200	Mcf	2,057		2,057
3	Capacity	19.9005	$/Mcf/day	407	Mcf/day	8,100		8,100
	SW Treatment Plants:							
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
4	Volume	1.5454	$/Mcf	130,200	Mcf	201,211		201,211
5	Capacity	88.1899	$/Mcf/day	407	Mcf/day	35,893		35,893
6	Suspended Solids	230.3566	$/1,000 lbs	2,206	1,000 lbs	508,167		508,167
7	BOD	208.3118	$/1,000 lbs	2,253	1,000 lbs	469,326		469,326
8	Customer Costs					27,200		27,200
9	Total Treatment					1,281,138	0	1,281,138
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (a)			5,116,184	0.79320%	40,582		40,582
11	LTCP O&M			4,634,035	0.79320%	36,757		36,757
12	Total Annual Operating Expense					1,358,477	0	1,358,477
13	Total - Rounded					1,358,000	0	1,358,000

(a) Based on investment in sewers serving Springfield (excl. Wyndmoor).

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 23

OPERATING EXPENSE ALLOCATED TO LOWER MERION TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-30						
1	Sewer Maintenance (a)	1,808,000	x	3.80%		68,704	0	68,704
		Operating Expense Per Unit		Test Yr. No. of Units				
	Neill Drive Pump Station	Somallo-40		Units-2				
	Retail and Lower Merion							
2	Volume	0.1005	$/Mcf	14,700	Mcf	1,477		1,477
3	Capacity	436.4865	$/Mcf/day	115	Mcf/day	50,196		50,196
	SW Treatment Plants:							
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
4	Volume	1.5454	$/Mcf	374,900	Mcf	579,370		579,370
5	Capacity	88.1899	$/Mcf/day	2,788	Mcf/day	245,873		245,873
6	Suspended Solids	230.3566	$/1,000 lbs	3,772	1,000 lbs	868,905		868,905
7	BOD	208.3118	$/1,000 lbs	3,199	1,000 lbs	666,389		666,389
8	Customer Costs					53,900		53,900
9	Total Treatment					2,534,814	0	2,534,814
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (a)			5,116,184	0.0000%	0		0
11	LTCP O&M			4,634,035	0.0000%	0		0
12	Total Annual Operating Expense					2,534,814	0	2,534,814
13	Total - Rounded					2,535,000	0	2,535,000

(a) Based on investment in sewers serving Lower Merion.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 28

OPERATING EXPENSE ALLOCATED TO UPPER DARBY TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-39						
1	Sewer Maintenance (a)	723,000	x	3.80%		27,474	0	27,474
		Operating Expense Per Unit		Test Yr. No. of Units				
	SW Treatment Plants:	Somallo-40		Units-2				
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
2	Volume	1.5454	$/Mcf	506,600	Mcf	782,900		782,900
3	Capacity	88.1899	$/Mcf/day	3,094	Mcf/day	272,860		272,860
4	Suspended Solids	230.3566	$/1,000 lbs	4,873	1,000 lbs	1,122,528		1,122,528
5	BOD	208.3118	$/1,000 lbs	4,015	1,000 lbs	836,372		836,372
6	Customer Costs					13,800		13,800
7	Total Treatment					3,055,934	0	3,055,934
	LTCP O&M Costs			System Annual Cost	Allocation			
8	Amortization of SMIP/GARP Expenses (a)			5,116,184	0.00000%	0		0
9	LTCP O&M			4,634,035	0.00000%	0		0
10	Total Annual Operating Expense					3,055,934	0	3,055,934
11	Total - Rounded					3,056,000	0	3,056,000

(a) Based on investment in sewers serving Upper Darby.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 27

OPERATING EXPENSE ALLOCATED TO SPRINGFIELD (INCLUDING WYNDMOOR) TOWNSHIP
Test Year 2021

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-35						
1	Sewer Maintenance (a)	331,000	x	3.80%		12,578	0	12,578
		Operating Expense Per Unit		Test Yr. No. of Units				
	SE Treatment Plants:	Somallo-40		Units-2				
	Retail, Springfield (Wyndmoor)							
2	Volume	2.3064	$/Mcf	22,900	Mcf	52,817		52,817
3	Capacity	208.4546	$/Mcf/day	167	Mcf/day	34,812		34,812
4	Suspended Solids	344.8848	$/1,000 lbs	244	1,000 lbs	84,152		84,152
5	BOD	137.6667	$/1,000 lbs	181	1,000 lbs	24,918		24,918
6	Customer Costs					7,700		7,700
7	Total					216,977	0	216,977
8	Total - Rounded					217,000	0	217,000

(a) Based on investment in sewers serving Springfield (incl. Wyndmoor).

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

If changes are made to range SUMMARY, transfer changes to range SUMMARY in File RETAIL.

SUMMARY OF OPERATION AND MAINTENANCE EXPENSE
ALLOCATED TO CONTRACT CUSTOMERS

Line No.		Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southampton	DELCORA	Lower Merion	Springfield w/o Wyndmoor	Upper Darby	Springfield (Wyndmoor)	Total
		$	$	$	$	$	$	$	$	$	$	$	$
	COLLECTION SYSTEM	Somallo-41	Somallo-42	Somallo-44	Somallo-45	Somallo-46	Somallo-47	Somallo-48	Somallo-50	Somallo-49	Somallo-51	Somallo-52	
	Sewer Maintenance												
1	All Customers - Capacity (Includes SMIP/GARP and LTCP)	48,418	42,180	59,508	144,057	45,148	437,638	483,115	68,704	69,766	27,474	12,578	1,438,586
	Inlet Cleaning												
2	Retail - Storm Capacity												0
	Pumping Stations												
3	Total Volume								1,477	2,057			3,534
4	Total Capacity								50,196	8,100			58,296
5	Direct to Bucks County			0									0
6	LTCP O&M	26,990	0	0	112,515	16,628	44,634	437,586	0	36,757	0		675,110
7	Total Collection System	75,408	42,180	59,508	256,572	61,776	482,272	920,701	120,377	116,680	27,474	12,578	2,175,526
8	Total Coll. System Rounded to $1,000	75,000	42,000	60,000	257,000	62,000	482,000	921,000	120,000	117,000	27,000	13,000	2,176,000
	WATER POLLUTION CONTROL PLANTS												
	Northeast Plant:												
	Retail and Cheltenham												
9	Volume				0								0
10	Capacity				0								0
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton												
11	Volume	9,045	16,254	93,159		6,102	27,675						152,235
12	Capacity	51,938	63,631	403,446		31,877	85,785						636,677
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton												
13	Volume	143,303	257,518	1,475,949	631,674	96,676	438,464						3,043,584
14	Capacity	62,560	76,643	485,948	207,766	38,396	103,327						974,640
15	Suspended Solids	224,364	444,768	2,298,410	760,638	148,036	542,653						4,418,869
16	BOD	357,823	562,585	2,500,689	764,036	127,594	463,770						4,776,497
17	Total Northeast Plant	849,033	1,421,399	7,257,601	2,364,114	448,681	1,661,674	0	0	0	0	0	14,002,502

	Southwest Plant:												
	Retail												
18	Volume												
19	Capacity												
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby												
20	Volume							1,854,480	579,370	201,211	782,900		3,417,961
21	Capacity							1,181,039	245,873	35,893	272,860		1,735,665
22	Suspended Solids							3,087,700	868,905	508,167	1,122,528		5,587,300
23	BOD							2,292,888	666,389	469,326	836,372		4,264,975
24	Total Southwest Plant	0	0	0	0	0	0	8,416,107	2,360,537	1,214,597	3,014,660	0	15,005,901
	Southeast Plant:												
	Retail and Springfield (Wyndmoor)												
25	Volume											52,817	52,817
26	Capacity											34,812	34,812
27	Suspended Solids											84,152	84,152
28	BOD											24,918	24,918
29	Total Southeast Plant	0	0	0	0	0	0	0	0	0	0	196,699	196,699
30	Total Water Pollution Control Plants	849,033	1,421,399	7,257,601	2,364,114	448,681	1,661,674	8,416,107	2,360,537	1,214,597	3,014,660	196,699	29,205,102
31	Total WPCP Rounded to $1,000	849,000	1,421,000	7,258,000	2,364,000	449,000	1,662,000	8,416,000	2,361,000	1,215,000	3,015,000	197,000	29,207,000
32	CUSTOMER COSTS	13,800	49,400	16,200	33,700	20,700	16,200	43,000	53,900	27,200	13,800	7,700	295,600
33	Customer Costs Rounded to $1,000	14,000	49,000	16,000	34,000	21,000	16,000	43,000	54,000	27,000	14,000	8,000	296,000
34	Total Allocated O&M	938,241	1,512,979	7,333,309	2,654,386	531,157	2,160,146	9,379,808	2,534,814	1,358,477	3,055,934	216,977	31,676,228
35	Total Rounded From Somallo-44	938,000	1,513,000	7,333,000	2,654,000	531,000	2,160,000	9,380,000	2,535,000	1,358,000	3,056,000	217,000	31,675,000

SMIP/GARP

TABLE WW - 10

OPERATION AND MAINTENANCE EXPENSE ALLOCATED TO RETAIL SERVICE CUSTOMERS TEST YEAR 2021

Line No.		(1) Total Operation & Maintenance Expense $1,000	(2) O&M Expense Deductions: Less Interest Income $1,000	(3) O&M Expense Deductions: Less State and Federal Grants (a) $1,000	(4) Net Operation and Maintenance Expense $1,000 Somallo-39	(5) Less Operation and Maintenance Expense Allocated to Contract Service $1,000 Somallo-53 Somallo-41	(6) Operation and Maintenance Expense Allocated to Retail Service $1,000 (4)-(5)	(5) Less Retail Operation & Maintenance Expense Deductions: Other Operating Revenue $1,000 Prorate Somallo-55 on Col. (3)	(5) Net Operation and Maintenance Expense To Be Allocated To Retail Service $1,000 (6)-(7)	Breakdown of Wholesale Allocation: Total Operation & Maintenance Expense $1,000	Breakdown of Wholesale Allocation: O&M Expense Deductions: Less Interest Income $1,000	Breakdown of Wholesale Allocation: O&M Expense Deductions: Less State and Federal Grants (a) $1,000
	COLLECTION SYSTEM											
	Sewer Maintenance											
1	All Customers - Capacity	88,541	250	0	88,291	1,437	86,854	3,360	83,494	1,441	4	0
	Inlet Cleaning											
2	Retail - Storm Capacity	18,920	53	0	18,867		18,867	730	18,137	0	0	0
	Neill Drive Pumping Station											
	Retail and Lower Merion											
3	Total Volume	7	0	0	7	1	6	0	6	1	0	0
4	Total Capacity	162	0	0	162	50	112	4	108	50	0	0
	Central Schuylkill Pumping Station											
	Retail and Springfield (excl. Wyndmoor)											
5	Total Volume	43	0	0	43	2	41	2	39	2	0	0
6	Total Capacity	441	1	0	440	8	432	17	415	8	0	(0)
	All Other Pumping Stations											
	Retail											
7	Total Volume	2,794	8	0	2,786		2,786	108	2,678	0	0	0
8	Total Capacity	19,583	55	0	19,528		19,528	756	18,772	0	0	0
9	Direct to Bucks County	0	0	0	0	0	0	0	0			
	GSI Maintenanc (LTCP O&M)											
10	All Customers - Capacity	27,551	78	0	27,473	675	26,798	1,037	25,761	677	2	(0)
11	Total Collection Systems	158,042	445	0	157,597	2,173	155,424	6,014	149,410	2,179	6	0
	WATER POLLUTION CONTROL PLANTS											
	Northeast Plant:											
	Retail and Cheltenham											
12	Volume	0	0	0	0	0	0	0	0			
13	Capacity	0	0	0	0	0	0	0	0			
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton											
14	Volume	614	2	11	601	152	449	17	432	155	1	3
15	Capacity	2,622	7	47	2,568	637	1,931	75	1,856	650	2	12
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton											
16	Volume	13,147	37	238	12,872	3,044	9,828	380	9,448	3,109	9	56
17	Capacity	4,269	12	77	4,180	975	3,205	124	3,081	996	3	18
18	Suspended Solids	23,209	66	420	22,723	4,419	18,304	707	17,597	4,514	13	82
19	BOD	18,792	53	340	18,399	4,776	13,623	527	13,096	4,878	14	88
	Southwest Plant:											
	Retail											
20	Volume	57	0	1	56	0	56	2	54	0	0	0
21	Capacity	512	1	9	502	0	502	19	483	0	0	0

	Retail, DELCORA, Lower Merion, Springfield											
	(Excluding Wyndmoor), and Upper Darby											
22	Volume	13,093	37	237	12,819	3,418	9,401	364	9,037	3,491	10	63
23	Capacity	4,667	13	84	4,570	1,736	2,834	110	2,724	1,773	5	32
24	Suspended Solids	17,871	52	325	17,494	5,587	11,907	461	11,446	5,707	17	104
25	BOD	11,509	33	208	11,268	4,265	7,003	271	6,732	4,356	12	79
	Southeast Plant:											
	Retail and Springfield (Wyndmoor)											
26	Volume	9,197	26	167	9,004	53	8,951	346	8,605	54	0	1
27	Capacity	5,193	15	94	5,084	35	5,049	195	4,854	36	0	1
28	Suspended Solids	11,253	32	204	11,017	84	10,933	423	10,510	86	0	2
29	BOD	3,743	11	68	3,664	25	3,639	141	3,498	26	0	0
30	Total Water Pollution Control Plants	139,748	397	2,530	136,821	29,206	107,615	4,162	103,453	29,831	85	540
	CUSTOMER COSTS											
	All Customers											
31	Equivalent Bills	33,373	94	0	33,279	228	33,051	1,279	31,772	229	1	(0)
	Equivalent Meters											
32	Industrial Waste Unit	4,362	12	0	4,350	68	4,282	166	4,116	68	0	0
33	Other	5,574	16	0	5,558		5,558	215	5,343	0	0	0
34	Warranty Program (Retail Customers with ≤ 2" meters)	0	0	0	0		0	0	0			
35	Excess Strength Wastewater - Direct	2,148	6	0	2,142		2,142	83	2,059	0	0	0
36	Stormwater - Direct	500	1	0	499		499	19	480	0	0	0
37	Total Customer Costs	45,957	129	0	45,828	296	45,532	1,762	43,770	297	1	0
38	Total Operation and Maintenance Expense	343,746	971	2,530	340,245	31,675	308,570	11,938	296,632	32,307	92	540
					340,245	31,675	308,570	11,938	296,632			
									328,307			

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
MISCREV - Misc Revenue Adjustments	P.N. 135647.0100	February 10, 2020 5:48 p.m.			Somallo-55

	Prior to FY 2017 Not Included									Future Years Beyond Projection Period				
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	TY 2021
	$	$	$	$	$	$	$	$	$	$	$	$	$	
Sewer Liq. Encumb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Operating Revenue - Wholesale Related	0	0	3,452,878	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000	2,530,000
Other Operating Revenue - Total	0	0	15,082,410	26,720,904	14,467,628	14,425,312	14,377,270	14,329,960	14,283,018	14,070,241	14,045,613	14,021,117	13,996,624	14,467,628
Interest on Op Funds	0	0	1,811,000	973,000	971,000	1,005,000	982,000	1,022,000	946,000	947,000	947,000	951,000	984,000	971,000

SCOS19_21.XLS

RETCOS

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RETIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer classes. It summarizes the allocated cost of service for contract customers, and it summarizes the cost of providing stormwater treatment.

Range	Description	Page Number	Table
RETIndex	Index	Retcos-1	
WWUnits	Units Of Wastewater Service	Retcos-2	
TOTOM	Total Contract and Retail O&M	Retcos-3	
DEPR	Test Year Depreciation	Retcos-4	
COLLSYS	Allocation Of Costs Between Sanitary and Stormwater	Retcos-5	
CONTRTPLN	Depreciable Plant Allocable To Contract Customers	Retcos-6	TABLE WH - 1
RTLDPLNT	Determination Of Depreciable Plant Allocable To Retail Service	Retcos-7	
WWUCOS	Unit Costs Of Retail Wastewater Service	Retcos-8	TABLE WW - 11 AND TABLE WW - 12
ICROR	Inside City Rate Of Return	Retcos-9	
LUMPSUM	Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Costs	Retcos-10	
CTRCTCOS	Summary Of Allocated Cost Of Service for Contract Customers	Retcos-11	TABLE WH - 29
RTLCC	Allocation Of O&M Expense To Retail Service - Customer Costs	Retcos-12	
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RTLCCALLO	Allocation Of Capital Costs To Retail Service	Retcos-15	
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XXXXX	PAGE NOT IN USE	Retcos-18	
RTLCOLL	Allocation Of O&M Expense To Retail Service - Collection System	Retcos-19	
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XXXXX	PAGE NOT IN USE	Retcos-21	
RTLSINVEST	Retail Sewer Investment And Annual Costs Related To Sanitary Wastewater And Storm Water Functions	Retcos-22	
RTLPINVEST	Plant Investment Allocated To Retail Service Customers	Retcos-23	TABLE WW - 9
CONTINV	DELCORA Contributed Investment	Retcos-24	
SWCOS	Storm Water Cost Summary	Retcos-25	

This table is designed to calculate Water Treatment Plant Sludge for each year of the study period
Whenever revenue requirements are changed, the "Update Table" macro button will need to be invoked several times in order for the fiscal year sludge calculations to stabilize and remain unchanged. For example, if the test year is the second year of the study period, the "Update Table" macro button will need to be invoked at least four times until the sludge value for that test year stops changing. It is suggested that the "Update Table" macro button be invoked until all years stabilize.
NOTE: For the macro to operate properly, there must be positive beginning values for Water Treatment Plant Sludge below. If ERR is in the row below, the macro will not work.
Replace ERR with a reasonable value, and the macro should work. **The linked Financial Plan & WCOS model files must be opened to run the macro**
After running the macro, copy the Water Treatment Plant Sludge values to the Previous Iteration's Values line. Do the same with O&M values.

Update Table	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Test Year
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
O&M Portion of Line Below	9,997,752	9,866,141	11,098,069	11,740,827	12,123,085	12,761,744	13,294,927	14,153,392	14,813,273	15,392,425	16,320,357	16,893,739	17,558,704	17,967,574	#DIV/0!	11,098,069
Water Treatment Plant Sludg	13,340,911	13,232,272	14,732,296	15,573,551	16,266,621	16,997,323	17,918,603	19,480,638	20,834,417	21,756,770	23,634,914	24,620,609	25,954,386	26,827,508	#DIV/0!	
SW Allocation	41.6%	41.6%	41.3%	41.3%	41.4%	41.3%	41.5%	41.8%	42.1%	42.1%	42.4%	42.5%	42.7%	42.8%	#DIV/0!	41.3%

Table last updated: Monday, January 13, 2020 - 11:07:11 AM

Previous Allocations

O&M Portion of Line Below	9,997,752	9,866,141	11,098,069	11,740,827	12,123,085	12,761,744	13,294,788	14,153,392	14,813,273	15,392,259	16,320,357	16,893,739	17,558,704	17,967,574	#DIV/0!
Water Treatment Plant Sludg	13,340,911	13,232,272	14,732,296	15,573,551	16,266,621	16,997,323	17,918,748	19,480,638	20,834,417	21,756,940	23,634,914	24,620,609	25,954,386	26,827,508	#DIV/0!
SW Allocation	41.6%	41.6%	41.3%	41.3%	41.4%	41.3%	41.5%	41.8%	42.1%	42.1%	42.4%	42.5%	42.7%	42.8%	#DIV/0!

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
WWUnits - Units Of Wastewater Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-2

Customer Class	Test Year Mcf	Capacity Flow Rate: Collection System Mcf/day	Capacity Flow Rate: Pumping and Treatment Mcf/day	Strength: Suspended Solids 1,000 lbs	Strength: BOD 1,000 lbs	Equivalent Bills	Customer Equivalent Meters	Equivalent Service	Bills
	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6
Residential	2,799,394	30,679	11,506	45,417	48,911	5,058,102	440,825	421,273	5,040,408
Commercial	1,438,578	15,765	5,912	23,339	25,135	490,505	92,550	37,103	429,648
Industrial	64,293	705	264	1,043	1,123	15,198	4,031	1,112	12,240
Public Utilities	8,826	97	36	143	154	3,239	1,209	174	2,040
Senior Citizens	116,742	1,279	480	1,894	2,040	281,374	23,460	23,448	281,364
Wastewater Only	67,450	739	277	1,094	1,178	1,259	504	59	708
Groundwater	220,000	4,822	1,507	961	137	0	0	0	0
Surcharge	0	0	0	1,633	10,650	0	0	0	0
Housing Authority	149,342	1,637	614	2,423	2,609	72,030	8,462	5,708	68,844
Charities & Schools	148,439	1,627	610	2,408	2,594	40,212	14,813	1,845	24,612
Hospital/University	275,249	3,016	1,131	4,466	4,809	13,269	7,192	193	4,236
Hand Bill	417,677	4,577	1,716	6,776	7,298	8,486	4,718	98	2,604
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Water Treatment Plant Sludge	292,800	3,209	1,203	27,500	0	0	0	0	0
Fire Meters	7,600	83	31	123	133	1,824	498	122	1,344
Scheduled (Flat Rate)	11	0	0	0	0	36	3	3	36
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Subtotal Retail Sanitary	6,006,400	68,235	25,287	119,220	106,771	5,985,534	598,265	491,137	5,868,084
I/I	10,850,500	237,818	74,318	47,382	6,769				
Total Retail Service	16,856,900	306,053	99,605	166,602	113,540	5,985,534	598,265	491,137	5,868,084
Contract Service:	Units-13	Units-13	Units-13	Units-13	Units-13				
Sanitary	4,264,000	32,577	32,577	44,128	39,345				
I/I	105,100	420	420	459	66				
Total	4,369,100	32,997	32,997	44,587	39,411				
Total System	21,226,000	339,050	132,602	211,189	152,951				

(a) Adjusted to exclude 5% not entering sewers.

OPERATION AND MAINTENANCE EXPENSE ALLOCATED TO RETAIL SERVICE CUSTOMERS

Test Year 2021

Line No.		(1) Net Operation & Maintenance Expense $1,000 Somallo-54	(2) Operation and Maintenance Expense Allocated to Contract Service $1,000 Somallo-54	(3) Operation and Maintenance Expense Allocated to Retail Service $1,000 (1)-(2)	(4) Retail O&M Expense Deductions - Other Operating Revenue $1,000 Prorate on Col. (3) Somallo-54	(5) Net O&M Expense To Be Allocated To Retail Service $1,000 (3)-(4)
	COLLECTION SYSTEM					
	Sewer Maintenance					
1	All Customers - Capacity	88,291	1,437	86,854	3,360	83,494
	Inlet Cleaning					
2	Retail - Storm Capacity	18,867	0	18,867	730	18,137
	Neill Drive Pumping Station					
	Retail and Lower Merion					
3	Total Volume	7	1	6	0	6
4	Total Capacity	162	50	112	4	108
	Central Schuykill Pumping Station					
	Retail and Springfield (excl. Wyndmoor)					
5	Total Volume	43	2	41	2	39
6	Total Capacity	440	8	432	17	415
	All Other Pumping Stations					
	Retail					
7	Total Volume	2,786	0	2,786	108	2,678
8	Total Capacity	19,528	0	19,528	756	18,772
9	Direct to Bucks County	0	0	0	0	0
10	LTCP O&M	27,473	675	26,798	1,037	25,761
11	Total Collection Systems	157,597	2,173	155,424	6,014	149,410
	WATER POLLUTION CONTROL PLANTS					
	Northeast Plant:					
	Retail and Cheltenham					
12	Volume	0	0	0	0	0
13	Capacity	0	0	0	0	0
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton					
14	Volume	601	152	449	17	432
15	Capacity	2,568	637	1,931	75	1,856
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton					
16	Volume	12,872	3,044	9,828	380	9,448
17	Capacity	4,180	975	3,205	124	3,081
18	Suspended Solids	22,723	4,419	18,304	707	17,597
19	BOD	18,399	4,776	13,623	527	13,096

	Southwest Plant:							
	Retail							
20	Volume	56	0	56	2	54		
21	Capacity	502	0	502	19	483		
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
22	Volume	12,819	3,418	9,401	364	9,037		
23	Capacity	4,570	1,736	2,834	110	2,724		
24	Suspended Solids	17,494	5,587	11,907	461	11,446		
25	BOD	11,268	4,265	7,003	271	6,732		
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
26	Volume	9,004	53	8,951	346	8,605		
27	Capacity	5,084	35	5,049	195	4,854		
28	Suspended Solids	11,017	84	10,933	423	10,510		
29	BOD	3,664	25	3,639	141	3,498		
30	Total Water Pollution Control Plants	136,821	29,206	107,615	4,162	103,453		
	CUSTOMER COSTS							
	All Customers							
31	Equivalent Bills	33,279	228	33,051	1,279	31,772		
	Equivalent Meters							
32	Industrial Waste Unit	4,350	68	4,282	166	4,116		
33	Other	5,558	0	5,558	215	5,343		
34	Warranty Program (Retail Customers with ≤ 2" meters)	0	0	0	0	0		
35	Excess Strength Wastewater - Direct	2,142	0	2,142	83	2,059		
36	Stormwater - Direct	499	0	499	19	480		
37	Total Customer Costs	45,828	296	45,532	1,762	43,770		
					Somallo-54			
38	Total Operation and Maintenance Expense	340,245	31,675	308,570	11,938	296,632		
		340,245	31,675	308,570	11,938	296,632	296,632	0 CHECK

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
DEPR - Test Year Depreciation	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-4

TEST YEAR DEPRECIATION

Line No.	Cost Component	(1) Total Investment	(2) Less Contrib. Plant	(3) Less Land	(4) Depreciable Plant	(5) Annual Depreciation Rate	(6) Annual Depreciation	(7) Contrib. Plant	(8) Land
		$	$	$	$	$	$	$1,000	$1,000
		Spltallo-24	(7) * 1,000	(8) * 1,000	(1) - (2) - (3)		(4) * (5)	Spltallo-44	Spltallo-44
	Collection System								
1	Sewers-Capacity	1,649,393,000	5,781,333	1,816,000	1,641,795,667	2.0%	32,836,000	5,781	1,816
2	Pumping Stations Capacity	28,659,000	190,000		28,469,000	2.5%	712,000	190	0
3	LTCP Investment	132,401,000	0		132,401,000	2.0%	2,648,000	0	0
4	Total Collection System	1,810,453,000	5,971,333	1,816,000	1,802,665,667		36,196,000	5,971	1,816
	Water Pollution Control Plants								
	Northeast Plant								
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton								
5	Volume	64,809,000	8,817,167	237,000	55,754,833			8,817	237
6	Capacity	32,141,000	3,445,000	118,000	28,578,000			3,445	118
7	Suspended Solids	70,293,000	6,618,000	257,000	63,418,000			6,618	257
8	BOD	90,360,000	12,304,500	331,000	77,724,500			12,305	331
9	Total Northeast Plant	257,603,000	31,184,667	943,000	225,475,333	2.5%	5,637,000	31,185	943
	Southwest Plant								
	Retail, DELCORA, Lower Merion, Springfield (excl. Wyndmoor), & Upper Darby								
10	Volume	69,783,000	27,519,000	218,000	42,046,000			27,519	218
11	Capacity	43,445,000	7,287,000	136,000	36,022,000			7,287	136
12	Suspended Solids	56,363,000	13,212,000	176,000	42,975,000			13,212	176
13	BOD	49,947,000	21,296,000	156,000	28,495,000			21,296	156
14	Total Southwest Plant	219,538,000	69,314,000	686,000	149,538,000	2.5%	3,738,000	69,314	686
	Southeast Plant								
	Retail & Springfield (Wyndmoor)								
15	Volume	44,436,000		49,000	44,387,000			0	49
16	Capacity	49,635,000		55,000	49,580,000			0	55
17	Suspended Solids	23,729,000		26,000	23,703,000			0	26
18	BOD	23,584,000		26,000	23,558,000			0	26
19	Total Southeast Plant	141,384,000		156,000	141,228,000	2.5%	3,531,000	0	156
20	Total Allocated Treatment Plants	618,525,000	100,498,667	1,785,000	516,241,333	2.5%	12,906,000	100,499	1,785
21	Total Allocated System Investment	2,428,978,000	106,470,000	3,601,000	2,318,907,000		49,102,000	106,470	3,601

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
COLLSYS - Allocation Of Costs Between Sanitary and Stormwater	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-5

Allocation of Collection System Investment in Mains to Sanitary and Stormwater

The estimated split of Retail Sewer Investment to Sanitary and Stormwater is based on the estimated unit costs associated with Sanitary and Stormwater Sewer Construction Costs.

	Total	Sanitary	Stormwater
Retail Sewer Investment	100%	36%	64%
(including LTCP Investment)	Retcos-6		
	$1,744,515,000	$628,025,400	$1,116,489,600
	Retcos-4		
Less Land	$1,816,000		
Retail Depreciable Sewer Investment	$1,742,699,000	$627,371,600	$1,115,327,400

Allocation of O&M Expense to Sanitary and Stormwater

Retail Sewer Maintenance allocated to Sanitary and Stormwater based on ratio of dry weather and wet weather volume (40% to Sanitary and 60% to Stormwater).
Assign Inlet Cleaning O&M 100% to Stormwater.

	Total	Sanitary	Stormwater
Collection System	100%	40%	60%
	Retcos-3		
Retail Sewer Maintenance O&M - Capacity	$83,494,000	$33,397,600	50,096,400
	Retcos-3		
Inlet Cleaning O&M - Capacity	$18,137,000		18,137,000
	Retcos-3		
LTCP O&M	$25,761,000	10,304,400	15,456,600
Total Collection System	$127,392,000	$43,702,000	$83,690,000
Equivalent Bills - All Customers			
	This page	This page	This page
Customer O&M - Equivalent Bills	$31,771,816	$18,655,000	$13,116,816

Summary of Customer O&M Allocated Between Sanitary and Stormwater Utilities

Equivalent Bills - All Customers	Total $	Sanitary Equiv. Bills $ Somallo-38	Stormwater Equiv. Bills $ Somallo-38	
Water Revenue Bureau	18,208,000	10,688,000	7,520,000	
Joint Direct Expense				
CBIS	5,884,000	3,454,000	2,430,000	
Other Joint Direct Expense				Assigned to A&G (Not a direct customer cost)
Payment to Public Properties	0	0		
Meter Shop Class 200 - AMR	9,557	9,557		
Finance & Admin - Customer	0	0	0	
Customer Affairs - Customer	527,259	309,501	217,758	
Subtotal	24,628,816	14,461,058	10,167,758	
Total Including Allocated A&G and Deduction of Other Operating Revenue	Retcos-3			
Prorated on Subtotal Above	31,771,816	18,655,000	13,116,816	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CONTRTPLNT - Depreciable Plant Allocable To Contract Customers	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-6

AVERAGE TEST YEAR DEPRECIABLE PLANT ALLOCABLE TO CONTRACT CUSTOMERS

Line No.	Cost Component	(1) Total Investment $ (8) * 1,000	(2) Investment Allocated to Contract Service $ (9) * 1,000	(3) Investment to Be Allocated To Retail Service $ (1) - (2)	(4) Contract Customer Land excl. Contributed Plant $ (10) * 1,000	(5) Contract Cust. Depreciable Plant incl. Contributed Plant $ (2) - (4)	(6) Contributed Plant (incl. land) $ (11) * 1,000	(7) Contract Customer Depreciable Plant $ (5) - (6)	(8) Total Investment $1,000 Spltallo-45	(9) Investment Allocated to Contract Service $1,000 Spltallo-45	(10) Contract Customer Land excl. Contributed Plant $1,000 Spltallo-45	(11) Contributed Plant (incl. land) $1,000 Spltallo-45	(12) Investment Allocated to Contract Service $1,000 Spltallo-45
	Collection System												
1	Sewers-Capacity	1,649,393,000	17,991,000	1,631,402,000		17,991,000	5,781,333	12,209,667	1,649,393	17,991		5,781	12,210
2	Pumping Stations Capacity	28,659,000	252,000	28,407,000		252,000	190,000	62,000	28,659	252		190	62
3	LTCP Investment	132,401,000	19,288,000	113,113,000		19,288,000	0	19,288,000	132,401	19,288		0	19,288
4	Total Collection System	1,810,453,000	37,531,000	1,772,922,000		37,531,000	5,971,333	31,559,667	1,810,453	37,531	0	5,971	31,560
	Water Pollution Control Plants												
	Northeast Plant												1,167
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton												
5	Volume	64,809,000	18,049,000	46,760,000	14,700	18,034,300	8,854,167	9,180,133	64,809	18,049		8,854	18,049
6	Capacity	32,141,000	7,386,000	24,755,000	7,800	7,378,200	3,460,000	3,918,200	32,141	7,386		3,460	6,219
7	Suspended Solids	70,293,000	13,015,000	57,278,000	18,000	12,997,000	6,647,000	6,350,000	70,293	13,015		6,647	13,015
8	BOD	90,360,000	22,283,000	68,077,000	21,500	22,261,500	12,355,167	9,906,333	90,360	22,283		12,355	22,283
9	Total Northeast Plant	257,603,000	60,733,000	196,870,000	62,000	60,671,000	31,316,334	29,354,666	257,603	60,733	62	31,316	59,566
	Southwest Plant												
	Retail, DELCORA, Lower Merici eld (excl. Wyndmoor), & Upper Darby												
10	Volume	69,783,000	29,794,000	39,989,000	4,000	29,790,000	27,610,000	2,180,000	69,783	29,794		27,610	29,794
11	Capacity	43,445,000	7,689,000	35,756,000	3,500	7,685,500	7,311,000	374,500	43,445	7,689		7,311	7,689
12	Suspended Solids	56,363,000	15,905,000	40,458,000	4,000	15,901,000	13,256,000	2,645,000	56,363	15,905		13,256	15,905
13	BOD	49,947,000	24,488,000	25,459,000	2,500	24,485,500	21,367,000	3,118,500	49,947	24,488		21,367	24,488
14	Total Southwest Plant	219,538,000	77,876,000	141,662,000	14,000	77,862,000	69,544,000	8,318,000	219,538	77,876	14	69,544	77,876
	Southeast Plant												
	Retail & Springfield (Wyndmoor)												
15	Volume	44,436,000	404,000	44,032,000	1,000	403,000		403,000	44,436	404	1		404
16	Capacity	49,635,000	277,000	49,358,000	0	277,000		277,000	49,635	277			277
17	Suspended Solids	23,729,000	73,000	23,656,000	0	73,000		73,000	23,729	73			73
18	BOD	23,584,000	65,000	23,519,000	0	65,000		65,000	23,584	65			65
19	Total Southeast Plant	141,384,000	819,000	140,565,000	1,000	818,000		818,000	141,384	819	1	0	819
20	Total Allocated Treatment Plants	618,525,000	139,428,000	479,097,000	77,000	139,351,000	100,860,334	38,490,666	618,525	139,428	77	100,860	138,261
21	Total Allocated System Investment	2,428,978,000	176,959,000	2,252,019,000	77,000	176,882,000	106,831,667	70,050,333	2,428,978	176,959	77	106,832	169,821

Determination of Depreciable Plant Allocable to Retail Service

Line No.	Cost Component	(1) Total Depreciable Plant $ Retcos-4	(2) Depreciable Plant Allocable to Contract Cust. $ Spltallo-46	(3) Net Depreciable Plant Allocable to Retail $ (1) - (2)
	Collection System			
1	Sewers-Capacity	1,641,795,667	12,209,667	1,629,586,000
2	Pumping Stations Capacity	28,469,000	62,000	28,407,000
3	LTCP Investment	132,401,000	19,288,000	113,113,000
4	Total Collection System	1,802,665,667	31,559,667	1,771,106,000
	Water Pollution Control Plants			
	Northeast Plant			
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton			
5	Volume	55,754,833	9,179,833	46,575,000
6	Capacity	28,578,000	3,918,000	24,660,000
7	Suspended Solids	63,418,000	6,350,000	57,068,000
8	BOD	77,724,500	9,906,833	67,817,667
9	Total Northeast Plant	225,475,333	29,354,667	196,120,666
	Southwest Plant			
	Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), & Upper Darby			
10	Volume	42,046,000	2,180,000	39,866,000
11	Capacity	36,022,000	374,000	35,648,000
12	Suspended Solids	42,975,000	2,645,000	40,330,000
13	BOD	28,495,000	3,119,000	25,376,000
14	Total Southwest Plant	149,538,000	8,318,000	141,220,000
	Southeast Plant			
	Retail & Springfield (Wyndmoor)			
15	Volume	44,387,000	403,000	43,984,000
16	Capacity	49,580,000	277,000	49,303,000
17	Suspended Solids	23,703,000	73,000	23,630,000
18	BOD	23,558,000	65,000	23,493,000
19	Total Southeast Plant	141,228,000	818,000	140,410,000
20	Total Allocated Treatment Plants	516,241,333	38,490,667	477,750,666
21	Total Allocated System Investment	2,318,907,000	70,050,333	2,248,856,667

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
WWUCOS - Unit Costs Of Retail Wastewater Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-8

Inside City Rate of Return:	4.21%
Sewer Depr. Rate:	2.0%
Trtmt Plant Depr. Rate:	2.5%
Outside City Rate of Return	7.5%

TABLE WW - 11 AND TABLE WW - 12

UNIT COSTS OF RETAIL WASTEWATER SERVICE
Test Year 2021

Line No.		(1) Total	(2) Collection System: Pumping Station Volume	(3) Collection System: Pumping Station Capacity	(4) Collection System: Sanitary Sewers - Capacity	(5) Collection System: Storm Costs	(6) Water Pollution Control Plants: Volume	(7) Water Pollution Control Plants: Capacity	(8) Water Pollution Control Plants: Suspended Solids	(9) Water Pollution Control Plants: BOD	(10) Customer Costs: Meter Costs	(11) Customer Costs: Billing: Sanitary	(12) Customer Costs: Billing: Stormwater	(13) Customer Costs: Industrial Waste Unit: Retail Customers	(14) Customer Costs: Industrial Waste Unit: Direct Excess Strength Wastewater	(15) Stormwater
	Total Units of Service															
1	Units		Mcf	Mcf/day	Mcf/day		Mcf	Mcf/day	1,000 lbs.	1,000 lbs.	Equivalent Meters	Equivalent Bills		Equivalent Meters	$	
2	Quantity Retcos-2		16,856,900	99,605	306,053		16,856,900	99,605	166,602	113,540	598,265	5,985,534		598,265		
	Operation and Maintenance Expense		Retcos-3	Retcos-3	Retcos-5	Retcos-5	Retcos-3	Retcos-3	Retcos-3	Retcos-3	Retcos-3	Retcos-5	Retcos-5	Retcos-3	Retcos-3	
3	Total Expense - $	296,632,057	2,723,000	19,294,500	43,702,000	83,690,000	27,576,000	12,998,000	39,552,741	23,326,000	5,343,000	18,655,000	13,116,816	4,116,000	2,059,000	480,000
4	Unit Expense - $/unit	149,409,500	0.1615	193.7102	142.7923		1.6359	130.4955	237.4086	205.4430	8.9308	3.1167		6.8799		
	Capital Costs			Retcos-6	Retcos-5	Retcos-5 (b)	Retcos-6	Retcos-6	Retcos-6	Retcos-6						
5	Total Plant Investment - $	2,252,019,000		28,407,000	628,025,400	1,116,489,600	130,781,000	109,869,000	121,392,000	117,055,000						
6	Unit Plant Investment - $/unit			285.1965	2052.0152		7.7583	1103.0470	728.6347	1030.9583						
				Retcos-7	Retcos-5	Retcos-5	Retcos-5	Retcos-5	Retcos-5	Retcos-5						
7	Depreciable Plant Investment - $	2,248,856,666		28,407,000	627,371,600	1,115,327,400	130,425,000	109,611,000	121,028,000	116,686,667						
8	Unit Depreciable Plant Investment - $/unit			285.1965	2049.8789		7.7372	1100.4568	726.4499	1027.7142						
							0.0250	0.0250	0.0250	0.0250						
9	Depreciation Expense - $	47,507,900		710,200	12,547,400	22,306,500	3,260,600	2,740,300	3,025,700	2,917,200						
10	Unit Depreciation Expense - $/unit			7.1299	40.9976		0.1934	27.5114	18.1612	25.6929						
	Return on Investment															
11	Total Cost - $	94,875,400		1,196,800	26,458,100	47,036,600	5,509,700	4,628,700	5,114,100	4,931,400						
12	Unit Cost (a) - $/unit			12.0150	86.4493		0.3268	46.4702	30.6966	43.4332						
	Total Unit Capital Costs															
13	(Line 10 + Line 12) - $/unit			19.1449	127.4469		0.5202	73.9816	48.8578	69.1261						
	Total Unit Costs															
14	(Line 4 + Line 13) - $/unit		0.1615	212.8551	270.2392		2.1561	204.4771	286.2664	274.5691	8.9308	3.1167		6.8799		
	Total Retail Cost of Service	439,015,357	2,723,000	21,201,500	82,707,500	153,033,100	36,346,300	20,367,000	47,692,541	31,174,600	5,343,000	18,655,000	13,116,816	4,116,000	2,059,000	480,000

Check on Retail Return: (100)
(a) Retail rate of return = 4.2129 %.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
1CROR - Inside City Rate Of Return	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-9

INSIDE CITY RATE OF RETURN

Line No.		(1) Contract Customer Investment $	(2) Total System Investment $	(3) Percent Return %	(4) Return $	
	Total System Net of Federal Grants and Collection System Assessments	Retcos-6	Retcos-6			
1	Collection System		1,810,453,000			
2	WPC Plants		618,525,000			
3	Total System		2,428,978,000	4.294086%	104,302,415 (a)	
	Less Contract Customers					
4	Total Allocated Investment	176,959,000	176,959,000			0
5	Less Contributed Plant	106,831,667		Retcos-8	Retcos-11	
6	Net Investment for Return	70,127,333		7.50%	5,120,688	5,259,550
	Contract Customers Management Fee				Below 4,306,452	
7	Net to Retail Rate Base		2,252,019,000	4.212898%	94,875,275	

(a) Calculation of total return:

COS = O&M + Annual Depreciation + Return

				Retail $	Contract $	Total $	Totals from This Page $	Difference in Totals $
COS =	466,979,407	LINKS		Retcos-12, Retcos-13				
O&M =	317,209,220	LINKS		Retcos-19	Retcos-11			
WTP Sludge O&M =	11,098,069		O&M	296,632,057	31,675,000	328,307,057	328,307,289	(232)
WTP Sludge Capital =	3,634,227			Retcos-8	Retcos-11			
	Retcos-4		Depreciation	47,507,900	1,552,996	49,060,896	49,102,000	(41,104)
Annual Depr =	$49,102,000			Retcos-8	Retcos-11			
Return = COS-	$470,613,634	149,770,188	Return	94,875,400	5,120,688	99,996,088	104,302,415	125
O&M Net Revenue Req-	($317,209,220)	3,634,227			Rates-6 & Rates-7		‖	‖
Ann Depr	($49,102,000)	(49,102,000)	Mgmt Fee		4,306,452	4,306,452	‖	‖
					Rates-7		‖	‖
Return =	$104,302,415	104,302,415			‖	‖	‖	‖
	153,404,415				‖	‖	‖	‖
	153,404,415			439,015,357	42,655,136	481,670,493	481,711,703	(41,211)
	104,302,415							

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
LUMPSUM - Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Cost P.N. 135647.0100 | February 07, 2020 3:50 p.m. | Retcos-10

ANNUAL LUMP SUM COSTS FOR SEWER MAINTENANCE, CUSTOMER RELATED COSTS, AND CAPITAL COSTS FOR FACILITIES USED BY WHOLESALE CONTRACT CUSTOMERS

		(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)			(12)
		Allocated Investment		Depreciable Plant				Annual Lump Sum								
					Treatment				Depreciation Expense		Return on Investment		Total Annual			
Line		Collection	Treatment	Collection	and Pumping	Sewer	Customer		Collection	Treatment	Collection	Treatment	Lump Sum			
No.	Contract Customers	System	and Pumping	System	Investment Less Land	Maintenance Expense (c)	Related Costs	SMIP/GARP	System	and Pumping	System	and Pumping	Cost			Land
		$	$	$	$	$	$		$	$	$	$	$			$1,000
		Spltallo-40	Spltallo-40	(1)	(2)-(12)	Somallo-53	Somallo-53		(b)	(b)	(b)	(b)	(5)+...+(10) Rounded			Spltallo-42
1	Abington	1,261,000	4,392,000	1,261,000	4,376,000	75,000	14,000		25,220	109,400	94,575	329,400	648,000			16
2	Bensalem	1,110,000	7,816,000	1,110,000	7,787,000	42,000	49,000		(a)	(a)	(a)	(a)	91,000			29
3	Bucks County (d)	1,566,000	26,408,000	1,566,000	26,311,000	60,000	16,000		0	96,125	0	288,375	461,000	L. Merion		97
4	Cheltenham	3,737,000	10,913,000	3,737,000	10,874,000	257,000	34,000		74,740	271,850	280,275	818,475	1,736,000	Pumping		39
5	DELCORA (e)	12,502,000	44,749,000	12,502,000	44,609,000	921,000	43,000		248,580	91,850	932,175	275,250	2,512,000	Spltallo-40		140
6	Lower Merion	1,618,000	13,910,000	1,618,000	13,867,000	68,000	54,000		(a)	(a)	(a)	(a)	122,000	190,000		43
7	Lower Moreland	1,180,000	1,818,000	1,180,000	1,811,000	62,000	21,000		23,600	45,275	88,500	136,350	377,000	13,910,000		7
8	Lower Southampton (f)	11,495,000	9,386,000	11,495,000	9,352,000	482,000	16,000		191,583	194,833	718,438	586,625	2,189,000			34
9	Springfield (less Wyndmoor)	1,756,000	4,724,000	1,756,000	4,710,000	107,000	27,000		35,120	117,750	131,700	354,300	773,000	Springfield(less Wyndmoor)	62,000	14
10	Springfield (Wyndmoor)	331,000	819,000	331,000	818,000	13,000	8,000		6,620	20,450	24,825	61,425	134,000	Springfield(less Wyndmoor)	4,724,000	1
11	Upper Darby	723,000	14,745,000	723,000	14,699,000	27,000	14,000		(a)	(a)	(a)	(a)	41,000			46
12	Total	37,279,000	139,680,000	37,279,000	139,214,000	2,114,000	296,000	0	605,463	947,533	2,270,488	2,850,200	9,084,000			466

(a) It is assumed that Bensalem, Lower Merion, Lower Southampton and Upper Darby contributes their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.

(b) Collection System Annual Depreciation Rate: 2.0%
Trtmt & Pumping Plant Annual Depreciation Rate: 2.5%
Township Customers Rate of Return: 7.50%

(c) Excludes $0.0 Pumping Stations-Direct to Bucks County, $52,000.0 Pumping Stations-Lower Merion volume and capacity costs recovered through volume and capacity rates, and $10,000.0 Pumping Stations-Springfield (excl Wyndmoor) volume and capacity costs recovered through volume and capacity rates.

(d) Bucks County allocated rate base and depreciation based on assets in service after 6/30/2007.

(e) DELCORA allocated rate base and depreciation based on assets in service after 12/31/2010.

(f) Lower Southampton phased into Return and Depr over 18 years staring in FY 2007

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS

Test Year 2021

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Customer	Allocated Investment $ Retcos-10	Allocated Depreciable Investment $ Retcos-10	O&M Expense $ Somallo-53	SMIP/GARP Expense $	Depreciation Expense $ Retcos-10	Return on Investment $ Retcos-10	Allocated Cost of Service $	O&M Expense $ (3)	Lump Sum Costs $ Retcos-10
Abington	5,653,000	5,637,000	938,000		134,620	423,975	1,496,595	938,000	648,000
Bensalem	8,926,000	8,897,000	1,513,000		(a)	(a)	1,513,000	1,513,000	91,000
Bucks County	27,974,000	27,877,000	7,333,000		96,125	288,375	7,717,500	7,333,000	461,000
Cheltenham	14,650,000	14,611,000	2,654,000		346,590	1,098,750	4,099,340	2,654,000	1,736,000
DELCORA	57,251,000	57,111,000	9,380,000		340,430	1,207,425	10,927,855	9,380,000	2,512,000
Lower Merion	15,528,000	15,485,000	2,535,000		(a)	(a)	2,535,000	2,535,000	122,000
Lower Moreland	2,998,000	2,991,000	531,000		68,875	224,850	824,725	531,000	377,000
Lower Southampton	20,881,000	20,847,000	2,160,000		386,416	1,305,063	3,851,479	2,160,000	2,189,000
Springfield (less Wyndmoor)	6,480,000	6,466,000	1,358,000		152,870	486,000	1,996,870	1,358,000	773,000
Springfield (Wyndmoor)	1,150,000	1,149,000	217,000		27,070	86,250	330,320	217,000	134,000
Upper Darby	15,468,000	15,422,000	3,056,000		(a)	(a)	3,056,000	3,056,000	41,000
Total	176,959,000	176,493,000	31,675,000	0	1,552,996	5,120,688	38,348,684	31,675,000	9,084,000

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contribute their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLCC - Allocation Of O&M Expense To Retail Service - Customer Costs	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-12

ALLOCATION OF O&M EXPENSE TO RETAIL SERVICE - CUSTOMER COSTS

Line No.	Customer Class	(1) Meter Costs: Equivalent Meters (Retcos-2)	(2) Meter Costs: Cost $ (Retcos-8 x Col.(1))	(3) Sanitary Billing Costs: Equivalent Bills (Retcos-2)	(4) Sanitary Billing Costs: Cost $ (Retcos-8 x Col.(3))	(5) Stormwater Billing Costs: Equivalent Bills (Retcos-2)	(6) Stormwater Billing Costs: Cost $ (Retcos-8 x Col.(5))	(7) Industrial Waste Unit: Equivalent Meters (Retcos-2)	(8) Industrial Waste Unit: Retail Customers $ (Retcos-8 x Col.(7))	(9) Industrial Waste Unit: Direct $ (Retcos-8)	(10) Stormwater Direct: Equivalent Meters (Retcos-2)	(11) Stormwater Direct: Cost $	(12) Warranty Program: Equivalent Service (Retcos-2)	(13) Warranty Program: Cost $ (Retcos-8 x Col.(9))	(14) Total Retail Customer Cost O&M $
	Retail Service														
1	Residential	440,825	3,936,934	5,058,102	15,764,473			440,825	3,032,829				421,273	0	22,734,236
2	Commercial	92,550	826,546	490,505	1,528,757			92,550	636,735				37,103	0	2,992,038
3	Industrial	4,031	36,000	15,198	47,368			4,031	27,733				1,112	0	111,101
4	Public Utilities	1,209	10,797	3,239	10,095			1,209	8,318				174	0	29,210
5	Senior Citizens	23,460	209,517	281,374	876,958			23,460	161,402				23,448	0	1,247,877
6	Sewer Only	504	4,501	1,259	3,924			504	3,467				59	0	11,892
7	Groundwater	0	0	0	0			0	0				0	0	0
8	Surcharge	0	0	0	0			0	0	2,059,000			0	0	2,059,000
9	Housing Authority	8,462	75,572	72,030	224,496			8,462	58,218				5,708	0	358,286
10	Charities & Schools	14,813	132,292	40,212	125,329			14,813	101,912				1,845	0	359,533
11	Hospital/University	7,192	64,230	13,269	41,355			7,192	49,480				193	0	155,065
12	Hand Bill	4,718	42,136	8,486	26,448			4,718	32,459				98	0	101,043
13	xxxxxxxxxx		0	0	0			0	0				0	0	0
14	Water Treatment Plant Sludge	0	0	0	0			0	0				0	0	0
15	Private Fire Connections	498	4,448	1,824	5,685			498	3,426				122	0	13,559
16	Scheduled (Flat Rate)	3	27	36	112			3	21				3	0	160
17	xxxxxxxxxx	0	0	0	0			0	0				0	0	0
18	Subtotal	598,265	5,343,000	5,985,534	18,655,000	0	0	598,265	4,116,000	2,059,000	0	0	491,137	0	30,173,000
19	Infiltration and Inflow		0		0		0		0						0
20	Stormwater						13,116,816					480,000			13,596,816
21	Total Retail Service	598,265	5,343,000	5,985,534	18,655,000	0	13,116,816	598,265	4,116,000	2,059,000	0	480,000	491,137	0	43,769,816
22	Units Costs Retcos-8		$8.9308		$3.1167				$6.8799					$0.0000	
	Residential - Based on Unit Cost		3,936,920		15,764,587				3,032,832					0	
	Difference		14		(114)				(3)					0	
	Difference as a Percentage of Actual Allocation		0.00%		0.00%				0.00%						
	CHECK Units of Service	0		0				0					0		

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLPLNT - Allocation Of O&M Expense To Retail Service - Plant	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-13

ALLOCATION OF O & M EXPENSE TO RETAIL SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		WPC Treatment Plant Allocation of O&M								
Line No.	Customer Class	Annual Volume	Volume Cost	Capacity Units	Capacity Cost	SS Units	SS Cost	BOD Units	BOD Cost	Total Retail WPC Plant O & M
		Mcf	$	Mcf/day	$	1,000 lbs	$	1,000 lbs	$	$
		Retcos-2	Line 21 * Col.(1)	Retcos-2	Line 21 * Col.(3)	Retcos-2	Line 21 * Col.(5)	Retcos-2	Line 21 * Col.(7)	
	Retail Service									
1	Residential	2,799,394	4,579,528	11,506	1,501,481	45,417	10,782,386	48,911	10,048,423	26,911,818
2	Commercial	1,438,578	2,353,369	5,912	771,489	23,339	5,540,879	25,135	5,163,810	13,829,547
3	Industrial	64,293	105,178	264	34,451	1,043	247,617	1,123	230,712	617,958
4	Public Utilities	8,826	14,438	36	4,698	143	33,949	154	31,638	84,723
5	Senior Citizens	116,742	190,979	480	62,638	1,894	449,652	2,040	419,104	1,122,373
6	Sewer Only	67,450	110,341	277	36,147	1,094	259,725	1,178	242,012	648,225
7	Groundwater	220,000	359,898	1,507	196,657	961	228,150	137	28,146	812,851
8	Surcharge	0	0	0	0	1,633	387,688	10,650	2,187,968	2,575,656
9	Housing Authority	149,342	244,309	614	80,124	2,423	575,241	2,609	536,001	1,435,675
10	Charities & Schools	148,439	242,831	610	79,602	2,408	571,680	2,594	532,919	1,427,032
11	Hospital/University	275,249	450,279	1,131	147,590	4,466	1,060,267	4,809	987,975	2,646,111
12	Hand Bill	417,677	683,277	1,716	223,930	6,776	1,608,681	7,298	1,499,323	4,015,211
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	292,800	478,992	1,203	156,986	27,500	6,528,737	0	0	7,164,715
15	Private Fire Connections	7,600	12,433	31	4,045	123	29,201	133	27,324	73,003
16	Scheduled (Flat Rate)	11	17	0	0	0	0	0	0	17
17	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
18	Subtotal	6,006,400	9,825,869	25,287	3,299,838	119,220	28,303,853	106,771	21,935,355	63,364,915
19	Infiltration and Inflow	10,850,500	17,750,131	74,318	9,698,162	47,382	11,248,888	6,769	1,390,645	40,087,826
20	Total Retail Service	16,856,900	27,576,000	99,605	12,998,000	166,602	39,552,741	113,540	23,326,000	103,452,741
21	Units Costs Retcos-8		$1.6359		$130.4955		$237.4086		$205.4430	
	Infiltration and Inflow Allocation based on Unit Cost		17,750,333		9,698,165		11,248,894		1,390,644	
	Difference due to rounding		(202)		(3)		(7)		1	
	Difference as a Percentage of Actual Allocation		0.00%		0.00%		0.00%		0.00%	
	Units of Service Check	0		0		0		0		

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLII - Allocated Infiltration/Inflow Costs for Inside City Retail Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-14

(a) In the Water Commissioner's rate decision in the 1990 rate proceeding, it was directed that 20 percent of the total infiltration/inflow costs should be recovered through the service charge on an equivalent meter basis and 80 percent of the cost of infiltration/inflow was to be recovered from the volume charge. In accordance with the most recent rate proceeding decision issued in 1993, the rate design for the current study reflects a 30 percent recovery of infiltration/inflow costs through the service charge and 70 percent through the volume charge as a gradualistic move towards what is perceived to be more cost causative based charges. (Direct Testimony of J. Rowe McKinley and Exhibits JRM-1 and JRM-2, February 2001, pg 65.)

(b) Groundwater is wet weather related and should not receive an allocation of i/i

		(1)	(2)	(3)	(4)	(5)									
				Allocated Infiltration/Inflow COS			O&M Allocation Detail			Capital Cost Allocation Detail			Total Cost Allocation Detail		
Line No.	Customer Class			Operation & Maintenance	Capital Cost	Total	Sanitary Sewer	Stormwater	Total	Sanitary Sewer	Stormwater	Total	Sanitary Sewer	Stormwater	Total
				$	$	$	$	$	$	$	$	$	$	$	
	Allocation Basis														
	I/I - Sewer Capacity						100.0%	0.0%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	
	I/I - Pumping & Treatment						70.0%	30.0%	100.0%	70.0%	30.0%	100.0%	70.0%	30.0%	
	Total I/I Costs														
	I/I - Sewer Capacity			33,958,567	30,309,662	64,268,229	33,958,567	0	33,958,567	30,309,662	0	30,309,662	64,268,229	0	64,268,229
	I/I - Pumping & Treatment			56,236,943	15,350,093	71,587,036	39,365,860	16,871,083	56,236,943	10,745,065	4,605,028	15,350,093	50,110,925	21,476,111	71,587,036
	Total I/I Costs			90,195,510	45,659,755	135,855,265	73,324,427	16,871,083	90,195,510	41,054,727	4,605,028	45,659,755	114,379,154	21,476,111	135,855,265

		Allocated Sanitary Sewer Related Infiltration/Inflow COS					O&M Allocation Detail			Capital Cost Allocation Detail			Total Cost Allocation Detail		
Line No.	Customer Class	Volume	Equivalent Meters	Operation & Maintenance	Capital Cost	Total	Equivalent Meters	Volume	Total	Equivalent Meters	Volume	Total	Equivalent Meters	Volume	Total
		Mcf		$	$	$	$	$	$	$	$	$	$	$	$
	Sanitary Sewer I/I - Retail Service	(a)	(a)												
	I/I - Sewer Capacity	70.0%	30.0%				10,187,570	23,770,997	33,958,567	9,092,899	21,216,763	30,309,662	19,280,469	44,987,760	64,268,229
	I/I - Pumping & Treatment	100.0%	0.0%				0	39,365,860	39,365,860	0	10,745,065	10,745,065	0	50,110,925	50,110,925
	Total	83.1%	16.9%				10,187,570	63,136,857	73,324,427	9,092,899	31,961,828	41,054,727	19,280,469	95,098,685	114,379,154
		Retcos-2	Retcos-2				14%	86%		22%	78%		17%	83%	
1	Residential	2,799,394	440,825	38,051,484	22,162,768	60,214,252	7,506,600	30,544,884	38,051,484	6,700,003	15,462,765	22,162,768	14,206,603	46,007,649	60,214,252
2	Commercial	1,438,578	92,550	17,272,672	9,352,792	26,625,464	1,575,990	15,696,682	17,272,672	1,406,647	7,946,145	9,352,792	2,982,637	23,642,827	26,625,464
3	Industrial	64,293	4,031	770,164	416,398	1,186,562	68,642	701,522	770,164	61,266	355,132	416,398	129,908	1,056,654	1,186,562
4	Public Utilities	8,826	1,209	116,885	67,124	184,009	20,587	96,298	116,885	18,375	48,749	67,124	38,962	145,047	184,009
5	Senior Citizens	116,742	23,460	1,673,294	1,001,402	2,674,696	399,489	1,273,805	1,673,294	356,563	644,839	1,001,402	756,052	1,918,644	2,674,696
6	Sewer Only	67,450	504	744,546	380,228	1,124,774	8,582	735,964	744,546	7,660	372,568	380,228	16,242	1,108,532	1,124,774
7	Groundwater (b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surcharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Housing Authority	149,342	8,462	1,773,606	953,521	2,727,127	144,095	1,629,511	1,773,606	128,612	824,909	953,521	272,707	2,454,420	2,727,127
10	Charities & Schools	148,439	14,813	1,871,896	1,045,058	2,916,954	252,244	1,619,652	1,871,896	225,140	819,918	1,045,058	477,384	2,439,570	2,916,954
11	Hospital/University	275,249	7,192	3,125,777	1,629,677	4,755,454	122,469	3,003,308	3,125,777	109,310	1,520,367	1,629,677	231,779	4,523,675	4,755,454
12	Hand Bill	417,677	4,718	4,637,716	2,378,792	7,016,508	80,341	4,557,375	4,637,716	71,708	2,307,084	2,378,792	152,049	6,864,459	7,016,508
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	292,800	0	3,194,814	1,617,314	4,812,128	0	3,194,814	3,194,814	0	1,617,314	1,617,314	0	4,812,128	4,812,128
15	Private Fire Connections	7,600	498	91,406	49,548	140,954	8,480	82,926	91,406	7,569	41,979	49,548	16,049	124,905	140,954
16	Scheduled (Flat Rate)	11	3	167	105	272	51	116	167	46	59	105	97	175	272
17	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Total Retail	5,786,400	598,265	73,324,427	41,054,727	114,379,154	10,187,570	63,136,857	73,324,427	9,092,899	31,961,828	41,054,727	19,280,469	95,098,685	114,379,154
				Retcos-12	Retcos-15		0	0		0	0				
				Retcos-13											
				Retcos-19											

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLCCALLO - Allocation Of Capital Costs To Retail Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-15

ALLOCATION OF CAPITAL COSTS TO RETAIL SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
				Sewers				Water Pollution Control Plants								Total
		Pumping Stations		Sanitary		Storm		Volume		Capacity		Suspended Solids		BOD		Retail
Line No.	Customer Class	Capacity Units Mcf/day Retcos-2	Capital Costs $ Line 22 * x Col.(1)	Capacity Units Mcf/day Retcos-2	Capital Costs $ Line 22 * x Col.(3)		Capital Costs $ Retcos-8	Volume Units Mcf Retcos-2	Capital Costs $ Line 22 * x col.(7)	Capacity Units Mcf/day Retcos-2	Capital Costs $ Line 22 * x col.(9)	SS Units 1,000 lbs. Retcos-2	Capital Costs $ Line 22 * x col.(11)	BOD Units 1,000 lbs. Retcos-2	Capital Costs $ Line 22 * x col.(13)	Capital Costs $
	Retail Service															
1	Residential	11,506	220,281	30,679	3,909,943			2,799,394	1,456,245	11,506	851,232	45,417	2,218,975	48,911	3,381,027	12,037,703
2	Commercial	5,912	113,185	15,765	2,009,200			1,438,578	748,348	5,912	437,379	23,339	1,140,292	25,135	1,737,485	6,185,889
3	Industrial	264	5,054	705	89,850			64,293	33,445	264	19,531	1,043	50,959	1,123	77,629	276,468
4	Public Utilities	36	689	97	12,362			8,826	4,591	36	2,663	143	6,987	154	10,645	37,937
5	Senior Citizens	480	9,190	1,279	163,005			116,742	60,729	480	35,511	1,894	92,537	2,040	141,017	501,989
6	Sewer Only	277	5,303	739	94,183			67,450	35,087	277	20,493	1,094	53,450	1,178	81,431	289,947
7	Groundwater	1,507	28,851	4,822	614,549			220,000	114,444	1,507	111,490	961	46,952	137	9,470	925,756
8	Surcharge	0	0	0	0			0	0	0	0	1,633	79,785	10,650	736,193	815,978
9	Housing Authority	614	11,755	1,637	208,631			149,342	77,688	614	45,425	2,423	118,382	2,609	180,350	642,231
10	Charities & Schools	610	11,678	1,627	207,356			148,439	77,218	610	45,129	2,408	117,650	2,594	179,313	638,344
11	Hospital/University	1,131	21,653	3,016	384,380			275,249	143,184	1,131	83,673	4,466	218,199	4,809	332,427	1,183,516
12	Hand Bill	1,716	32,853	4,577	583,324			417,677	217,275	1,716	126,952	6,776	331,060	7,298	504,482	1,795,946
13	xxxxxxxxxx	0	0	0	0			0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	1,203	23,031	3,209	408,977			292,800	152,315	1,203	89,000	27,500	1,343,590	0	0	2,016,913
15	Private Fire Connections	31	593	83	10,578			7,600	3,954	31	2,293	123	6,010	133	9,194	32,622
16	Scheduled (Flat Rate)	0	0	0	0			11	6	0	0	0	0	0	0	6
17	xxxxxxxxxx	0	0	0	0			0	0	0	0	0	0	0	0	0
18	Subtotal	25,287	484,116	68,235	8,696,338	0	0	6,006,400	3,124,529	25,287	1,870,771	119,220	5,824,828	106,771	7,380,663	27,381,245
19	Infiltration and Inflow	74,318	1,422,884	237,818	30,309,662			10,850,500	5,645,471	74,318	5,498,229	47,382	2,315,172	6,769	468,337	45,659,755
20	Stormwater						69,343,000									69,343,000
21	Total Retail Service	99,605	1,907,000	306,053	39,006,000	0	69,343,000	16,856,900	8,770,000	99,605	7,369,000	166,602	8,140,000	113,540	7,849,000	142,384,000
22	Unit Costs Retcos-8		$19.1449		$127.4469				$0.5202		$73.9816		$48.8578		$69.1261	
	(a) Capital Cost Control Figures:															
	Infiltration and Inflow Allocation based on Unit Cost		1,422,811		30,309,167				5,644,430		5,498,165		2,314,980		467,915	
	Difference due to rounding		73		495				1,041		64		192		422	
	Difference as a Percentage of Actual Allocation		0.01%		0.00%				0.02%		0.00%		0.01%		0.09%	
	CHECK Units of Service	0		0				0		0		0		0		
	Total based on Unit Cost (Rounded to 100s)		1,906,900		39,005,500		376,169,000		8,769,000		7,368,900		8,139,800		7,848,600	449,207,700
	Calculated Unit Cost		19.1446		127.4469				0.5202		73.9812		48.8578		69.1263	
	Calculated I/I Unit Cost		19.1459		127.4490				0.5203		73.9825		48.8618		69.1885	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLCOS - Retail Cost Of Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-16

RETAIL TEST YEAR COST OF SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
		O&M						CAPITAL COSTS							
Line No.	Customer Class	Collection System $ Retcos-19	Treatment Plants $ Retcos-13	Customer Costs $ Retcos-12	Volume Allocated I/I O&M $ Retcos-14	Meter Allocated I/I O&M $ Retcos-14	O&M Total $	Capital Costs $ Retcos-15	Volume Allocated I/I Capital Cost $ Retcos-14	Meter Allocated I/I Capital Cost $ Retcos-14	Capital Cost Total $	Total Cost of Service $ (6) + (10)	Cost of Service Excluding I/I (1)+(2)+(3)+(7)	Allocated I/I (4)+(5)+(8)+(9)	
	Retail Service														
1	Residential	7,061,657	26,911,818	22,734,236	7,506,600	30,544,884	94,759,195	12,037,703	6,700,003	15,462,765	34,200,471	128,959,666	68,745,414	60,214,252	Retcos-20
2	Commercial	3,628,666	13,829,547	2,992,038	1,575,990	15,696,682	37,722,923	6,185,889	1,406,647	7,946,145	15,538,681	53,261,604	26,636,140	26,625,464	
3	Industrial	162,191	617,958	111,101	68,642	701,522	1,661,414	276,468	61,266	355,132	692,866	2,354,280	1,167,718	1,186,562	
4	Public Utilities	22,250	84,723	29,210	20,587	96,298	253,068	37,937	18,375	48,749	105,061	358,129	174,120	184,009	
5	Senior Citizens	294,466	1,122,373	1,247,877	399,489	1,273,805	4,338,010	501,989	356,563	644,839	1,503,391	5,841,401	3,166,705	2,674,696	
6	Sewer Only	170,075	648,225	11,892	8,582	735,964	1,574,738	289,947	7,660	372,568	670,175	2,244,913	1,120,139	1,124,774	
7	Groundwater	1,015,995	812,851	0	0	0	1,828,846	925,756	0	0	925,756	2,754,602	2,754,602	0	
8	Surcharge	0	2,575,656	2,059,000	0	0	4,634,656	815,978	0	0	815,978	5,450,634	5,450,634	0	
9	Housing Authority	376,808	1,435,675	358,286	144,095	1,629,511	3,944,375	642,231	128,612	824,909	1,595,752	5,540,127	2,813,000	2,727,127	
10	Charities & Schools	374,459	1,427,032	359,533	252,244	1,619,652	4,032,920	638,344	225,140	819,918	1,683,402	5,716,322	2,799,368	2,916,954	
11	Hospital/University	694,201	2,646,111	155,065	122,469	3,003,308	6,621,154	1,183,516	109,310	1,520,367	2,813,193	9,434,347	4,678,893	4,755,454	
12	Hand Bill	1,053,422	4,015,211	101,043	80,341	4,557,375	9,807,392	1,795,946	71,708	2,307,084	4,174,738	13,982,130	6,965,622	7,016,508	
12	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Water Treatment Plant Sludge	738,540	7,164,715	0	0	3,194,814	11,098,069	2,016,913	0	1,617,314	3,634,227	14,732,296	9,920,168	4,812,128	
14	Private Fire Connections	19,084	73,003	13,559	8,480	82,926	197,052	32,622	7,569	41,979	82,170	279,222	138,268	140,954	
15	Scheduled (Flat Rate)	2	17	160	51	116	346	6	46	59	111	457	185	272	
16	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Total Retail	15,611,816	63,364,915	30,173,000	10,187,570	63,136,857	182,474,158	27,381,245	9,092,899	31,961,828	68,435,972	250,910,130	136,530,976	114,379,154	
18	Less Water Treatment Plant Sludge											Test Cell			
19	Allocated to the Water System	(738,540)	(7,164,715)	0	0	(3,194,814)	(11,098,069)	(2,016,913)	0	(1,617,314)	(3,634,227)	(14,732,296)			
20	Net Retail Cost of Service	14,873,276	56,200,200	30,173,000	10,187,570	59,942,043	171,376,089	25,364,332	9,092,899	30,344,514	64,801,745	236,177,834			
											SUM CHECK (Line 17)	250,910,130			

WASTEWATER RETAIL COST OF SERVICE

Test Year 2021

Line No.	Customer Class	(1) Operation and Maintenance Expense $	(2) Capital Costs $	(3) Total Cost of Service $	
	Retail Service	Retcos-16	Retcos-16		
1	Residential	94,759,195	34,200,471	128,959,666	Retcos-20
2	Commercial	37,722,923	15,538,681	53,261,604	
3	Industrial	1,661,414	692,866	2,354,280	
4	Public Utilities	253,068	105,061	358,129	
5	Senior Citizens	4,338,010	1,503,391	5,841,401	
6	Sewer Only	1,574,738	670,175	2,244,913	
7	Groundwater	1,828,846	925,756	2,754,602	
8	Surcharge	4,634,656	815,978	5,450,634	
9	Housing Authority	3,944,375	1,595,752	5,540,127	
10	Charities & Schools	4,032,920	1,683,402	5,716,322	
11	Hospital/University	6,621,154	2,813,193	9,434,347	
12	Hand Bill	9,807,392	4,174,738	13,982,130	
13	xxxxxxxxxx	0	0	0	
14	Water Treatment Plant Sludge	11,098,069	3,634,227	14,732,296	
15	Private Fire Connections	197,052	82,170	279,222	
16	Scheduled (Flat Rate)	346	111	457	
17	xxxxxxxxxx	0	0	0	
18	Total Retail	182,474,158	68,435,972	250,910,130	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-18

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RTLCOLL - Allocation Of O&M Expense To Retail Service - Collection System	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-19

ALLOCATION OF O & M EXPENSE TO RETAIL SERVICE - COLLECTION SYSTEM

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Collection System								
		Pumping Stations				Sanitary Sewers		Storm Sewers		Total Retail
Line No.	Customer Class	Annual Volume	Volume Cost	Capacity Units	Capacity Cost	Capacity Units	Cost	Equivalent Meters	Cost	Collection System O & M
		Mcf	$	Mcf/day	$	Mcf/day	$		$	$
		Retcos-13	Line 21 * Col.(1)	Retcos-2	Line 21 * Col.(3)	Retcos-2	Line 21 * Col.(5)			
	Retail Service									
1	Residential	2,799,394	452,102	11,506	2,228,830	30,679	4,380,725			7,061,657
2	Commercial	1,438,578	232,330	5,912	1,145,215	15,765	2,251,121			3,628,666
3	Industrial	64,293	10,383	264	51,139	705	100,669			162,191
4	Public Utilities	8,826	1,425	36	6,974	97	13,851			22,250
5	Senior Citizens	116,742	18,854	480	92,981	1,279	182,631			294,466
6	Sewer Only	67,450	10,893	277	53,658	739	105,524			170,075
7	Groundwater	220,000	35,530	1,507	291,921	4,822	688,544			1,015,995
8	Surcharge	0	0	0	0	0	0			0
9	Housing Authority	149,342	24,119	614	118,938	1,637	233,751			376,808
10	Charities & Schools	148,439	23,973	610	118,163	1,627	232,323			374,459
11	Hospital/University	275,249	44,453	1,131	219,086	3,016	430,662			694,201
12	Hand Bill	417,677	67,455	1,716	332,407	4,577	653,560			1,053,422
12	xxxxxxxxxx	0	0	0	0	0	0			0
13	Water Treatment Plant Sludge	292,800	47,287	1,203	233,033	3,209	458,220			738,540
14	Private Fire Connections	7,600	1,227	31	6,005	83	11,852			19,084
15	Scheduled (Flat Rate)	11	2	0	0	0	0			2
16	xxxxxxxxxx	0	0	0	0	0	0			0
17	Subtotal	6,006,400	970,033	25,287	4,898,350	68,235	9,743,433	0	0	15,611,816
18	Infiltration and Inflow	10,850,500	1,752,967	74,318	14,396,150	237,818	33,958,567			50,107,684
19	Allocated to Stormwater								83,690,000	83,690,000
20	Total Retail	16,856,900	2,723,000	99,605	19,294,500	306,053	43,702,000	0	83,690,000	149,409,500
21	Units Costs Retcos-8		$0.1615		$193.7102		$142.7923			
			922,746		4,665,317		9,285,213			
	Infiltration and Inflow Allocation based on Unit Cost		1,752,356		14,396,155		33,958,579			50,107,090
	Difference due to rounding		(611)		5		12			(594)
	CHECK - Units of Service	0		0		0				

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
GSCOS - Residential Excluding Senior Citizens Cost Of Service	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-20

Lines 1 to 12 provide the development of Residential Cost of Service as presented on Line 1 of TABLE WW - 13

RESIDENTIAL EXCLUDING SENIOR CITIZENS COST OF SERVICE

Test Year 2021

Line No.		(1) Units of Service		(2) Unit Cost of Service $	(3) Total Cost of Service $	Column (3) Reference	
	Collection System	Retcos-2		Retcos-8			
	Pumping System						
1	Volume	2,799,394	Mcf	0.1615	452,102	Retcos-15	Retcos-19
2	Capacity	11,506	Mcf/day	212.8551	2,449,111	Retcos-15	Retcos-19
3	Sanitary Sewers - Capacity	30,679	Mcf/day	270.2392	8,290,668	Retcos-15	Retcos-19
	Water Pollution Control Plants						
4	Volume	2,799,394	Mcf	2.1561	6,035,773	Retcos-13	Retcos-15
5	Capacity	11,506	Mcf/day	204.4771	2,352,713	Retcos-13	Retcos-15
6	Suspended Solids	45,417	1,000 lbs	286.2664	13,001,361	Retcos-13	Retcos-15
7	BOD	48,911	1,000 lbs	274.5691	13,429,450	Retcos-13	Retcos-15
	Customer Costs						
8	Meter	440,825	Equiv. Meters	8.9308	3,936,934	Retcos-12	
9	Billing - Sanitary	5,058,102	Equiv. Bills	3.1167	15,764,473	Retcos-12	
10	Warranty Program	421,273	Equiv. Service	0.0000	0	Retcos-12	
11	Industrial Waste Unit	440,825	Equiv. Meters	6.8799	3,032,829	Retcos-12	
12	Subtotal				68,745,414		
	Infiltration Costs						
13	Equivalent Meters - Sanitary Sewer	440,825	Equiv. Meters	32.2273	14,206,603	Retcos-14	* 30%
14	Volume	2,799,394	Mcf	16.4349	46,007,649	Retcos-14	* 70%
15	Total Cost of Service				128,959,666		

Mcf - Thousand cubic feet
Mcf/day - Thousand cubic feet per day
lbs - pounds

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-21

RETAIL SEWER INVESTMENT AND ANNUAL COSTS
RELATED TO SANITARY WASTEWATER AND STORM WATER FUNCTIONS
Test Year 2021

Line No.		(1) Total $	(2) Sanitary Wastewater $	(3) Storm Water $	
		Retcos-5 & Retcos-6	Retcos-5	Retcos-5	
	Average Test Year Plant Investment:				
1	Sewers	1,744,515,000	628,025,400	1,116,489,600	Retcos-5
2	All Other	507,504,000	507,504,000		
3	Total	2,252,019,000	1,135,529,400	1,116,489,600	Retcos-6
	Average Test Year Operating Expense:	Retcos-5 & Retcos-16	Retcos-5	Retcos-5	
4	Sewer Maintenance	83,494,000	33,397,600	50,096,400	Retcos-5
5	Inlet Cleaning	18,137,000		18,137,000	Retcos-5
6	LTCP O&M	25,761,000	10,304,400	15,456,600	Retcos-5
7	Billing	31,771,816	18,655,000	13,116,816	Retcos-5
8	Stormwater Direct	480,000		480,000	Retcos-3
9	All Other	11,732,273	11,732,273		
10	Total	171,376,089	74,089,273	97,286,816	

TABLE WW - 9

TEST YEAR INVESTMENT IN THE WASTEWATER SYSTEM
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS

Test Year 2021

Line No.	Cost Component	(1) Total Direct Investment Incl. A&G $ Retcos-6	(2) Investment Allocated to Contract Service $ Retcos-6	(3) Investment Allocated To Retail Service $ (1)-(2)
	Collection System			
1	Sewers-Capacity	1,649,393,000	17,991,000	1,631,402,000
2	Pumping Stations Capacity	28,659,000	252,000	28,407,000
3	LTCP Investment	132,401,000	19,288,000	113,113,000
4	Total Collection System	1,810,453,000	37,531,000	1,772,922,000
	Water Pollution Control Plants			
	Northeast Plant			
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton			
5	Volume	64,809,000	18,049,000	46,760,000
6	Capacity	32,141,000	7,386,000	24,755,000
7	Suspended Solids	70,293,000	13,015,000	57,278,000
8	BOD	90,360,000	22,283,000	68,077,000
9	Total Northeast Plant	257,603,000	60,733,000	196,870,000
	Southwest Plant			
	Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), & Upper Darby			
10	Volume	69,783,000	29,794,000	39,989,000
11	Capacity	43,445,000	7,689,000	35,756,000
12	Suspended Solids	56,363,000	15,905,000	40,458,000
13	BOD	49,947,000	24,488,000	25,459,000
14	Total Southwest Plant	219,538,000	77,876,000	141,662,000
	Southeast Plant			
	Retail & Springfield (Wyndmoor)			
15	Volume	44,436,000	404,000	44,032,000
16	Capacity	49,635,000	277,000	49,358,000
17	Suspended Solids	23,729,000	73,000	23,656,000
18	BOD	23,584,000	65,000	23,519,000
19	Total Southeast Plant	141,384,000	819,000	140,565,000
20	Total Allocated Treatment Plants	618,525,000	139,428,000	479,097,000
21	Total Allocated System Investment	2,428,978,000	176,959,000	2,252,019,000

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
CONTINV - DELCORA Contributed Investment	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-24

	(1)	(2)	(3)	(4)	(5)
	Total Investment (4) * 1,000	Allocated Land (5) * 1,000	Depreciable Investment (1) - (2)	Total Investment Spltallo-43	Allocated Land Spltallo-43
Volume	16,394,000	56,000	16,338,000	16,394	56
Capacity	5,013,000	17,000	4,996,000	5,013	17
Suspended Solids	7,011,000	24,000	6,987,000	7,011	24
BOD	12,661,000	43,000	12,618,000	12,661	43
Total	41,079,000	140,000	40,939,000		

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SWCOS - Storm Water Cost Summary	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Retcos-25

Storm Water Cost Summary
Test Year 2021

	(1) Storm Costs $		(2) Infiltration/ Inflow $		(3) Total $
Capital Costs					
Collection System					
Sewers	69,343,000	Retcos-15	(a)		69,343,000
Pumping Stations			426,900	0.30*Retcos-15	426,900
Treatment			4,178,200	0.30*Retcos-15	4,178,200
Total Capital Costs	69,343,000		4,605,100		73,948,100
Operation & Maintenance Expense					
Collection System					
Sewers	50,096,400	Retcos-5	(a)		50,096,400
Pumping Stations			4,844,700	0.30*(Retcos-19)	4,844,700
Treatment			12,026,300	0.30*(Retcos-13)	12,026,300
Inlet Cleaning (Collection System)	18,137,000	Retcos-5			18,137,000
LTCP O&M	15,456,600	Retcos-5			15,456,600
Customer Costs	13,116,816	Retcos-12			13,116,816
Stormwater Direct	480,000				480,000
Total Operation & Maintenance Expense	97,286,816		16,871,000		114,157,816
Subtotal Excluding Customer Costs	153,513,000		21,476,100		174,989,100
Total Costs Including Customer Costs	166,629,816		21,476,100		188,105,916

Storm water costs include storm water billing costs, the storm water share of collection system costs, and the storm water share of treatment costs. The storm water share of collection system costs are assumed to be 64% (Retcos-5) of Collection System - Sewers O&M and depreciation and return related to 64% of the collection system investment. These amounts are shown in Column 1 along with storm water billing costs.

Storm water treatment costs are costs associated with treating infiltration/inflow that are to be recovered from customers on an equivalent meter basis. In this study 30% (Retcos-14) of the treatment costs for I/I are to be recovered from customers on this basis. Also in this study 30% of Collection System - Pumping Stations costs related to pumping I/I are recovered from customers on this same basis. These costs are shown in Column 2.

CROSS CHECK:

Collection System Stormwater COS		I/I Recovered in Service Charge (a)			Billing/Customer Costs Recovered in Service Charge			Total Stormwater COS
		Trtmt Plant Capital Costs - $	13,927,209	Retcos-15				
		Trtmt Plant O&M - $	40,087,826	Retcos-13	Customer Billing Costs	13,116,816		
		Pump. Sta. Capital Costs - $	1,422,884	Retcos-15	Stormwater Direct	480,000		
		Pump. Sta. O&M - $	16,149,117	Retcos-19				
		Total - $	71,587,036					
COS	$153,033,100	Total Allocated to Stormwater	$21,476,100	Retcos-14	Total	$13,596,816	Retcos-12	$188,106,016

(a) Only Treatment Plant and Pumping Stations related costs are considered here since sewer related collection system costs are directly allocated to Stormwater as reflected in the Collection System Stormwater COS of $153,033,100.

SCOS19_21.XLS

RATEDSN

The "Ratedsn" worksheet develops retail cost of service wastewater rates for treating a Mcf of wastewater.

Range	Description	Page Number	Table
RDSNIndex	Index	Ratedsn-1	
ICRTLCOS	Inside City Retail Service Unit Costs Of Service For Rate Design	Ratedsn-2	
CSTSERV	Total Retail Cost of Service	Ratedsn-3	
RTLUCOS	Retail Unit Costs of Service	Ratedsn-4	
RTLADJCOS	Adjusted Retail Unit Costs	Ratedsn-5	TABLE WW - 15
DSCUSTCOS	Discount Customer COS Recovered by Other Retail Customers	Ratedsn-6	
ADJSUR	Adjusted COS Rates for Surcharge Customers	Ratedsn-7	
AVGCOST	Average Cost for Each Mcf of Water Billed - Adjusted COS Basis	Ratedsn-8	TABLE WW - 17
TYCOS	Test Year COS Adjusted to Recover Discounted COS from All Classes	Ratedsn-9	TABLE WW - 14 [Columns (4) and (8)]

Allocated Infiltration/Inflow COS	$114,379,154	Retcos-14			
Retail Equivalent Meters	598,265	Retcos-14			
Sewer Return factor	0.95			Sewer Return factor for Wholesale and Groundwater	1.00
Sen. Cit., 6 cent, N charities discount	25.00%	File: WCOS19_21_ver3_rates.xls - Retcos-4			
Housing Authority discount	5.00%	File: WCOS19_21_ver3_rates.xls - Retcos-4			
Total Test Year COS	466,979,407				
Water Treatment Plant Sludge	14,732,296	Retcos-16			
Contract Customers COS	$38,348,684	Retcos-11			
Cont Cust TY Receipts Under Exist. Rates	38,981,674		Financial Plan		
Domestic SS strength (ppm)	260	Units-9		Groundwater SS strength (ppm)	70
Domestic BOD strength (ppm)	280	Units-9		Groundwater BOD strength (ppm)	10
TY Surcharge SS units - 1,000 lbs	1,633	Units-9			
TY Surcharge BOD units - 1,000 lbs	10,650	Units-9			

Line No.	Customer Class	Total Cost of Service $ Retcos-16
	Retail Service	
1	Residential	128,959,666
2	Commercial	53,261,604
3	Industrial	2,354,280
4	Public Utilities	358,129
5	Senior Citizens	5,841,401
6	Sewer Only	2,244,913
7	Groundwater	2,754,602
8	Surcharge	5,450,634
9	Housing Authority	5,540,127
10	Charities & Schools	5,716,322
11	Hospital/University	9,434,347
12	Hand Bill	13,982,130
13	xxxxxxxxxx	0
14	Water Treatment Plant Sludge	14,732,296
15	Private Fire Connections	279,222
16	Scheduled (Flat Rate)	457
17	xxxxxxxxxx	0
18	Total Retail	250,910,130

File: SCOS19_21_ver3_rates.x Philadelphia Water Department (PWD) P.N. 135647.0100 CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2021 Budget Yr 2019 Ver. 1a
RTLUCOS - Retail Unit Costs of Service February 07, 2020 3:50 p.m. Ratedsn-4

Line No.		(1) Collection System: Pumping Station Volume Retcos-8	(2) Pumping Station Capacity Retcos-8	(3) Sanitary Sewers - Capacity Retcos-8	(4) Storm Costs Retcos-8	(5) Water Pollution Control Plants: Volume Retcos-8	(6) Capacity Retcos-8	(7) Suspended Solids Retcos-8	(8) BOD Retcos-8	(9) Customer Costs: Meter Costs Retcos-8	(10) Billing: Sanitary Retcos-8	(11) Billing: Stormwater Retcos-8	(12) Industrial Waste Unit: Retail Customers Retcos-8	(13) Industrial Waste Unit: Direct Excess Strength Wastewater Retcos-8	(14) Stormwater Incentive Retcos-8	Warranty Program Retcos-8	
	O&M Expense																
1	Total Expense - $	2,723,000	19,294,500	43,702,000	83,690,000	27,576,000	12,998,000	39,552,741	23,326,000	5,343,000	18,655,000	13,116,816	4,116,000	2,059,000	480,000	0	
2	Unit Expense - $/unit	0.1615	193.7102	142.7923		1.6359	130.4955	237.4086	205.4430	8.9308	3.1167		6.8799	#N/A		0.0000	
	Capital Expense																
	Total Expense - $	0	1,907,000	39,005,500	69,343,100	8,770,300	7,369,000	8,139,800	7,848,600	0	0	0	0	0	0	0	
3	Total Unit Capital Costs		19.1449	127.4469		0.5202	73.9816	48.8578	69.1261	0.0000	0.0000		0.0000	#N/A		0.0000	
4	Total Unit Costs	0.1615	212.8551	270.2392		2.1561	204.4771	286.2664	274.5691	8.9308	3.1167		6.8799	#N/A		0.0000	
	Total Expense	2,723,000	21,201,500	82,707,500	153,033,100	36,346,300	20,367,000	47,692,541	31,174,600	5,343,000	18,655,000	13,116,816	4,116,000	2,059,000	480,000	0	439,015,357

Rate Design - Retail COS Unit Costs Adjusted to Subsidize Discount Customers and to Reflect Conversion to Billing Units from Wastewater Units

TABLE WW - 15

INSIDE CITY RETAIL SERVICE UNIT COSTS OF SERVICE FOR RATE DESIGN

Test Year 2021

Line No.	Cost Component	(1) Units	(2) Annual Unadjusted Unit Cost $/unit Ratedsn-4	(3) COS Deficit Recovery Factor Ratedsn-6	(4) Billing Units Conversion Factor Ratedsn-2	(5) Total Adjustment Factor (3)*(4)	(6) Annual Adjusted Unit Cost $/unit (2)*(5)		Monthly Adjusted Unit Cost $/unit (6) / 12
	Collection System								
	Pumping Station								
1	Volume	Mcf	0.1615	1.0240	0.95	0.9728	0.1571	/Mcf	
2	Capacity	Mcf/day	212.8551	1.0240	0.95	0.9728	207.0654	Mcf/day	$17.2555
3	Sanitary Sewers - Capacity	Mcf/day	270.2392	1.0240	0.95	0.9728	262.8887	Mcf/day	$21.9074
	WPC Plants								
4	Volume	Mcf	2.1561	1.0240	0.95	0.9728	2.0975	/Mcf	
5	Capacity	Mcf/day	204.4771	1.0240	0.95	0.9728	198.9153	Mcf/day	$16.5763
6	Suspended Solids	1,000 lbs	286.2664	1.0240	1.00	1.0240	293.1368	/1,000 lbs	
7	BOD	1,000 lbs	274.5691	1.0240	1.00	1.0240	281.1588	/1,000 lbs	
	Customer Costs								
8	Meter Costs	Eq. Meters	8.9308	1.0240	1.00	1.0240	9.1451	/year	$0.7621
	Billing Costs								
9	Sanitary	Eq. Bills	3.1167	1.0240	1.00	1.0240	3.1915	/monthly bill	
10	Industrial Waste Unit - Retail	Eq. Meters	6.8799	1.0240	1.00	1.0240	7.0450	/year	$0.5871
11	Warranty Program	Eq. Service	0.0000	1.0240	1.00	1.0240	0.0000	/year	$0.0000
12	I/I - Customer Related - Sanitary (a)	Eq. Meters	32.2273	1.0240	1.00	1.0240	33.0008	/year	$2.7501
13	Infiltration/Inflow - Volume Related (a)	Volume	16.4349	1.0240	0.95	0.9728	15.9879	/Mcf	

(a)	Allocated Infiltration/Inflow COS	$114,379,154	Ratedsn-2
	% Allocated I/I to Retail Equiv. Mtrs.	16.9%	Retcos-14
	Allocated I/I to Retail Equiv. Mtrs.	$19,280,469	
	Retail Equivalent Meters	598,265	Ratedsn-2
	$/Eq Meter/year	$32.2273	$/Mcf
	Total Retail I/I COS	$114,379,154	Retcos-14
	% Alloc. I/I to Retail Vol.	83.1%	Retcos-14
	Alloc. I/I to Retail Vol.	$95,098,685	
	Retail Sanitary TY Volume - Mcf	5,786,400	Units-13
	I/I Cost	$16.4349	$/Mcf

Test Year COS for Senior Citizens, "6 Cent" and "N" Charities to be Recovered from All Other Retail and Development of COS Deficit Recovery Factor
Universities, Colleges, Hospitals, Charities, Board of Education and Senior Citizens are billed at 75% of regular rates.

	(1)	(2)	(3)
	Allocated COS Ratedsn-3	Discount (a) (1) * Ratedsn-2	Adjusted COS (1)-(2)
Test Year Allocated COS			
Housing Authority	$5,540,127	$277,006	$5,263,121
Senior Citizens	5,841,401	1,460,350	4,381,051
Charities & Schools	5,716,322	1,429,081	4,287,241
Hospital/University	9,434,347	2,358,587	7,075,760
Total Discount Customers	$26,532,197	$5,525,024	$21,007,173

Approx COS to be recovered from these classes = $21,007,173

Approximate portion of Discount Customers COS to be recovered by other retail:

$26,532,197 - $21,007,173 = $5,525,024

Percent increase in Allocated COS of all retail:

$$\frac{\text{Above } \$5{,}525{,}024}{[\ \text{Ratedsn-2 } \$250{,}910{,}130 - \$14{,}732{,}296 - \text{Above } \$5{,}525{,}024\ ]} * 100 = 2.3955\%$$

Total System COS; WTP Sludge; Discount Customers amount of COS not recovered from them (approx.)

(a) Senior Citizens, "6 Cent" and "N" charities receive a 25 percent discount and the Housing Authority receives a 5 percent discount.

Adjusted COS Rates for Surcharge Customers

		Suspended Solids		BOD	
Excess Strength Wastewater					
Unadjusted Unit Cost	Ratedsn-4	$286.2664	/1,000 lbs	$274.5691	/1,000 lbs
Times adder for COS deficit recovery (a)		0.9728		0.9728	
Times adder for Excess Strength Direct (b)		1.6071		1.6071	
Adjusted Unit Charge - Excess Strength		$447.5451	/1,000 lbs	$429.2577	/1,000 lbs
	USE	$0.448	/lb SS	$0.429	/lb BOD
	===	======		======	
Units of Service		1,633	1,000 lbs	10,650	1,000 lbs

(a) Ratedsn-5, Line 6 times Sewer Return factor from Ratedsn-2.

(b) Industrial Waste Unit - Direct

			Ratedsn-4				
Excess Strength Wastewater			$2,059,000				
---	---	=	---	---	---	=	60.7082%
Total Surcharge Class COS			$5,450,634	-	$2,059,000		
			Ratedsn-9				

TABLE WW - 17

DEVELOPMENT OF COST OF SERVICE VOLUME CHARGE PER MCF OF NORMAL STRENGTH SANITARY WASTEWATER

Line No.	Cost Component	Units	(1) Adjusted Unit Cost $/unit Ratedsn-5	(2) Number of Units	(3) Total Cost $ (2)*(3)
	Collection System				
	Pumping Stations				
1	Volume	Mcf	0.1571	1.0000	0.1571
2	Capacity	Mcf/day/mo.	17.2555	0.0493 (a)	0.8507
3	Sanitary Sewers: Capacity	Mcf/day/mo.	21.9074	0.1316 (b)	2.8830
	Water Pollution Control Plants				
4	Volume	Mcf	2.0975	1.0000	2.0975
5	Capacity	Mcf/day/mo.	16.5763	0.0493 (a)	0.8172
6	Suspended Solids	1,000 lbs	293.1368	0.0162 (c)	4.7488
7	BOD	1,000 lbs	281.1588	0.0175 (d)	4.9203
8	Total Cost per Mcf				16.4746
					Ratedsn-5
9	Infiltration/Inflow Cost	Mcf	15.9879	1.0000	15.9879
10	Total Cost + Infiltration/Inflow per Mcf				32.4625
11	Total Cost per Mcf - Rounded				32.46

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) (1.0 Mcf * 1 month/30.4 days) * 1.5 = 0.0493 Mcf/day/mo
(b) (1.0 Mcf * 1 month/30.4 days) * 4.0 = 0.1316 Mcf/day/mo
(c) (1.0 Mcf * Units-9 260 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0162 1,000 lbs
(d) (1.0 Mcf * Units-9 280 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0175 1,000 lbs

TABLE XXXX

DEVELOPMENT OF COST OF SERVICE VOLUME CHARGE PER MCF OF GROUNDWATER STRENGTH SANITARY WASTEWATER

Line No.	Cost Component	Units	(1) Adjusted Unit Cost $/unit Ratedsn-5	(2) Number of Units	(3) Total Cost $ (2)*(3)
	Collection System				
	Pumping Stations				
1	Volume	Mcf	0.1615	1.0000	0.1615
2	Capacity	Mcf/day/mo.	17.7379	0.0822 (a)	1.4581
3	Sanitary Sewers: Capacity	Mcf/day/mo.	22.5199	0.2632 (b)	5.9272
	Water Pollution Control Plants				
4	Volume	Mcf	2.1561	1.0000	2.1561
5	Capacity	Mcf/day/mo.	17.0398	0.0822 (a)	1.4007
6	Suspended Solids	1,000 lbs	286.2664	0.0044 (c)	1.2596
7	BOD	1,000 lbs	274.5691	0.0006 (d)	0.1647
8	Total Cost per Mcf				12.5279
9	Infiltration/Inflow Cost				
10	Total Cost + Infiltration/Inflow per Mcf				12.5279
11	Total Cost per Mcf - Rounded				12.53

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) (1.0 Mcf * 1 month/30.4 days) * 2.5 = 0.0822 Mcf/day/mo
(b) (1.0 Mcf * 1 month/30.4 days) * 8.0 = 0.2632 Mcf/day/mo
(c) (1.0 Mcf * Units-9 70 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0044 1,000 lbs
(d) (1.0 Mcf * Units-9 10 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0006 1,000 lbs

ADDITIONAL COST OF SERVICE TO BE RECOVERED

Line No.	Customer Class	(1) Total Cost of Service $ Ratedsn-3	(2) Adjustment Factor		(3) Adjusted COS $
	Retail Service				
1	Residential	128,959,666	1.0240	(a)	132,047,817
2	Commercial	53,261,604	1.0240		54,537,219
3	Industrial	2,354,280	1.0240		2,410,665
4	Public Utilities	358,129	1.0240		366,706
5	Senior Citizens	5,841,401	0.7680	(b)	4,486,196
6	Sewer Only	2,244,913	1.0240	(a)	2,298,679
7	Groundwater	2,754,602	1.0240	(a)	2,820,575
8	Surcharge	5,450,634	1.0240	(c)	5,581,449
9	Housing Authority	5,540,127	0.9728	(b)	5,389,436
10	Charities & Schools	5,716,322	0.7680	(b)	4,390,135
11	Hospital/University	9,434,347	0.7680	(b)	7,245,578
12	Hand Bill	13,982,130	1.0240	(a)	14,317,002
13	xxxxxxxxxx	0	1.0240	(a)	0
14	Water Treatment Plant Sludge	14,732,296	1.0000	(d)	14,732,296
15	Private Fire Connections	279,222	1.0240	(a)	285,909
16	Scheduled (Flat Rate)	457	1.0240	(a)	468
17	xxxxxxxxxx	0	1.0240	(a)	0
18	Total Retail	250,910,130			250,910,130
	Wholesale Contract Customers	Ratedsn-2 & Retcos-9			Ratedsn-2 & Retcos-9
19	Allocations	38,348,684			38,348,684
20	Management Fee	4,306,452			4,306,452
21	Total Contract Customers	42,655,136			42,655,136
22	Total COS	293,565,266			293,565,266
				Difference	0
				% Difference	0.00%

(a) Percent increase in Allocated COS of all retail is 1.02395 Ratedsn-6
(b) Senior Citizens and charities pay only 25% of general service rates and the Housing Authority pays 5% of general service rates.
(c) Surcharge 1.0240 x 1.0000 1.0240
(d) Water Treatment Plant Sludge does not share in the recovery of unrecovered costs of service from other classes.

Line No.	Customer Class	(1) Initial Allocated Cost of Service $	(2) Deficit to Be Recovered From Retail Classes $	(3) (1) $	(4) Line 4 Below Prorated on (3) $
		Above	Above		
1	Senior Citizens	5,841,401	1,355,205	5,841,401	1,216,000
2	Charities	15,150,669	3,514,956	15,150,669	3,155,000
3	Housing Authority	5,540,127	150,691	5,540,127	1,154,000
					Ratedsn-6
4	Total	26,532,197	5,020,852	26,532,197	5,525,024 <=== Initial estimate of Discount Customers COS recovered by other retai

SCOS19_21.XLS

RATES

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
RATESIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Rates-1

The "Rates" worksheet develops contract service lump sum charges and unit costs.

Range	Description	Page Number	Table
RATESIndex	Index	Rates-1	
WHLCOST	Wholesale Lump Sum Costs - Maintenance, Customer & Capital Costs	Rates-2	
WHLALLO	Summary of Allocated Costs for Wholesale Customers	Rates-3	
IIRATE	Contract Service Rate Design Adjustment to Recover I/I Costs	Rates-4	
WHLCHARG	Summary Of Charges For Wholesale Contract Customers	Rates-5	TABLE WH - 30
CTRCTREV1	Contract Service Revenues - Page 1	Rates-6	
CTRCTREV2	Contract Service Revenues - Page 2	Rates-7	
PLANTOM	Unit Net O&M Costs by Plant	Rates-8	

ANNUAL LUMP SUM COSTS FOR SEWER MAINTENANCE, CUSTOMER REATED COSTS, AND CAPITAL COSTS FOR FACILITIES USED BY WHOLESALE CONTRACT CUSTOMERS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
								Annual Lump Sum Costs				
		Allocated Investment		Depreciable Plant				Depreciation	Expense (b)	Return on Investment		
Line No.	Contract Customers	Collection System	Treatment and Pumping	Collection System	Treatment and Pumping Investment	Sewer Maintenance Expense (c)	Customer Related Costs	Collection System	Treatment and Pumping	Collection System	Treatment and Pumping	Total Annual Lump Sum Cost
		$	$	$	$	$	$	$	$	$	$	$
		Retcos-10	Retcos-10	Retcos-10	Retcos-10 (b)	Retcos-10	Retcos-10					(5)+...+(10)
1	Abington	1,261,000	4,392,000	1,261,000	4,376,000	75,000	14,000	25,200	109,400	94,600	329,400	647,600
2	Bensalem	1,110,000	7,816,000	1,110,000	7,787,000	42,000	49,000	(a)	(a)	(a)	(a)	91,000
3	Bucks County	1,566,000	26,408,000	1,566,000	26,311,000	60,000	16,000	0	96,100	0	288,400	460,500
4	Cheltenham	3,737,000	10,913,000	3,737,000	10,874,000	257,000	34,000	74,700	271,900	280,300	818,500	1,736,400
5	DELCORA	12,502,000	44,749,000	12,502,000	44,609,000	921,000	43,000	248,600	91,900	932,200	275,300	2,512,000
6	Lower Merion	1,618,000	13,910,000	1,618,000	13,867,000	68,000	54,000	(a)	(a)	(a)	(a)	122,000
7	Lower Moreland	1,180,000	1,818,000	1,180,000	1,811,000	62,000	21,000	23,600	45,300	88,500	136,400	376,800
8	Lower Southampton	11,495,000	9,386,000	11,495,000	9,352,000	482,000	16,000	191,600	194,800	718,400	586,600	2,189,400
9	Springfield (less Wyndmoor)	1,756,000	4,724,000	1,756,000	4,710,000	107,000	27,000	35,100	117,800	131,700	354,300	772,900
10	Springfield (Wyndmoor)	331,000	819,000	331,000	818,000	13,000	8,000	6,600	20,500	24,800	61,400	134,300
11	Upper Darby	723,000	14,745,000	723,000	14,699,000	27,000	14,000	(a)	(a)	(a)	(a)	41,000
12	Total	37,279,000	139,680,000	37,279,000	139,214,000	2,114,000	296,000	605,400	947,700	2,270,500	2,850,300	9,083,900

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contributes its entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment. DELCORA, Bucks County, and Lower Southampton are pior contribution customers which have been converted to depreciation and return customers.

(b) Collection System Annual Depreciation Rate: 2.00%
Trtmt & Pumping Plant Annual Depreciation Rate: 2.50%
Township Customers Rate of Return: 7.50%

(c) Excludes $0.0 Pumping Stations-Direct to Bucks County, $52,000.0 Pumping Stations-Lower Merion volume and capacity costs recovered through volume and capacity rates, and $10,000.0 Pumping Stations-Springfield (excl Wyndmoor) volume and capacity costs recovered through volume and capacity rates.

Ref: Retcos-11

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS
Test Year 2021

Customer	Allocated Investment $	Allocated Depreciation Investment $	O&M Expense $	Depreciation Expense $	Return on Investment $	Allocated Cost of Service $ Rounded
Abington	5,653,000	5,637,000	938,000	134,620	423,975	1,497,000
Bensalem	8,926,000	8,897,000	1,513,000	(a)	(a)	1,513,000
Bucks County	27,974,000	27,877,000	7,333,000	96,125	288,375	7,718,000
Cheltenham	14,650,000	14,611,000	2,654,000	346,590	1,098,750	4,099,000
DELCORA	57,251,000	57,111,000	9,380,000	340,430	1,207,425	10,928,000
Lower Merion	15,528,000	15,485,000	2,535,000	(a)	(a)	2,535,000
Lower Moreland	2,998,000	2,991,000	531,000	68,875	224,850	825,000
Lower Southampton	20,881,000	20,847,000	2,160,000	386,416	1,305,063	3,851,000
Springfield (less Wyndmoor)	6,480,000	6,466,000	1,358,000	152,870	486,000	1,997,000
Springfield (Wyndmoor)	1,150,000	1,149,000	217,000	27,070	86,250	330,000
Upper Darby	15,468,000	15,422,000	3,056,000	(a)	(a)	3,056,000
Total	176,959,000	176,493,000	31,675,000	1,552,996	5,120,688	38,349,000

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contribute their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.

File: SCOS19_21_ver3_rates.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTF Test Year 2021 Budget Yr 2019 Ver. 1a
IIRATE - Contract Service Rate Design Adjustment to Recover I/I Costs P.N. 135647.0100 February 07, 2020 3:50 p.m. Rates-4

Ref: Rates-8

RATE DESIGN ADJUSTMENT TO UNIT O&M EXPENSE EXPENSE IN ORDER TO RECOVER COSTS ASSOCIATED WITH I/I WHEN RATES ARE APPLIED

CONTRACT ADJUSTMENTS CURRENTLY NOT IN USE

These calculations can be used to determine the "CONTRACT ADUSTMENT" required to achieve the target (or adopted rates).

Line No.	Contract Customer	Unit Costs Volume $/Mcf Rates-8	Capacity $/Mcf/day Rates-8	Suspended Solids $/1,000 lbs Rates-8	BOD $/1,000 lbs Rates-8		Target/Adopted Unit Costs Volume $/Mcf	Capacity $/Mcf/day	Suspended Solids $/1,000 lbs	BOD $/1,000 lbs
	Abington, Bensalem, Bucks County, Lower Moreland and Lower Southampton						CURRENTLY NOT IN USE			
1	Northeast WP CP - Preliminary Trtmt.	0.0931	62.8755							
2	Northeast WP CP - Other	1.4746	75.7354	223.3896	255.2775					
3	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
4	Total	1.5677	138.6109	223.3896	255.2775	Target	#N/A	#N/A	#N/A	#N/A
	Cheltenham									
5	Northeast WP CP	0.0000	0.0000							
6	Northeast WP CP - Other	1.4746	75.7354	223.3896	255.2775					
7	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
8	Total	1.4746	75.7354	223.3896	255.2775	Target	#N/A	#N/A	#N/A	#N/A
	DELCORA									
9	Southwest WP CP	1.5454	88.1899	230.3566	208.3118					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	1.5454	88.1899	230.3566	208.3118	Target	#N/A	#N/A	#N/A	#N/A
	Lower Merion									
10	Southwest WP CP	1.5987	90.1978	233.5419	208.7528	Target	#N/A	#N/A	#N/A	#N/A
11	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
12	Neill Drive Pumping Station	0.1047	446.0866							
13	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
14	Total (a)	1.7034	536.2844	233.5419	208.7528	Target	#N/A	#N/A	#N/A	#N/A
	Springfield (less Wyndmoor)									
15	Southwest WP CP	1.5987	90.1978	233.5419	208.7528					
16	Central Schuylkill Pumping Station	0.0161	20.4018							
17	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
18	Total (b)	1.6148	110.5996	233.5419	208.7528	Target	#N/A	#N/A	#N/A	#N/A
	Upper Darby									
19	Southwest WP CP	1.5987	90.1978	233.5419	208.7528					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	1.5987	90.1978	233.5419	208.7528	Target	#N/A	#N/A	#N/A	#N/A
	Springfield (Wyndmoor)									
20	Southeast WP CP	2.4008	208.4546	350.6329	138.4315					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	2.4008	208.4546	350.6329	138.4315	Target	#N/A	#N/A	#N/A	#N/A

(a) $1.5987 and $90.1978 rates are applied to all Lower Merion volume and capacity whereas $0.1047 and $446.0866 are applied to only to volume and capacity units related to flow through the City Line Avenue and Presidential Drive connection.
(b) $1.6148 and $110.5996 are applicable to all Springfield (less Wyndmoor) volume and capacity units.

A lag factor is applied to all wholesale customer rates equal 1.0000
Months in effective test year: 12.00
Months to collect COS: 12.00
BUT, DELCORA is for 12.00 months, or an adjustment factor of 1.0000

TABLE 0

SUMMARY OF TEST YEAR CHARGES FOR WHOLESALE CONTRACT CUSTOMERS

Test Year 2021

			(1)	(2)	(3)	(4)	(5)
				Unit Costs			
Line No.	Contract Customers		Annual Lump Sum Cost $ Rates-2	Volume $/ Mcf Rates-4	Capacity (a) $/cfs Rates-4	Suspended Solids $/1,000 lbs Rates-4	BOD $/1,000 lbs Rates-4
1	Abington	NE	647,600	1.5677	11,976	223.39	255.28
2	Bensalem	NE	91,000	1.5677	11,976	223.39	255.28
3	Bucks County (b)	NE	460,500	1.5677	11,976	223.39	255.28
4	Cheltenham	NE	1,736,400	1.4746	6,544	223.39	255.28
5	DELCORA	SW	2,512,000	1.5454	7,620	230.36	208.31
6	Lower Merion (c) (d)	SW	122,000	1.5987	7,793	233.54	208.75
7	Lower Moreland	NE	376,800	1.5677	11,976	223.39	255.28
8	Lower Southampton	NE	2,189,400	1.5677	11,976	223.39	255.28
9	Springfield (less Wyndmoor)	SW	772,900	1.6148	9,556	233.54	208.75
10	Springfield (Wyndmoor)	SE	134,300	2.4008	18,010	350.63	138.43
11	Upper Darby	SW	41,000	1.5987	7,793	233.54	208.75
12	Total		9,083,900				

(a) Annual Cost.
(b) Charges for recovery of costs associated with odor control of Bucks County wastewater are in addition to the charges shown herein.
(c) For flow through City Line Avenue and Presidential Drive connection, an additional cost of $0.1047 per Mcf is applicable for costs related to the Neill Drive Pump Station.
(d) For contract capacity at the City Line Avenue and Presidential Drive connection, an additional charge of $446.09 per Mcf/day ($38,541.9 per cfs) is applicable to costs related to Neill Drive Pump Station.
(e) All costs inflated 0.0% due to new rates being in place 12.0 months of an effective 12 month test year.

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
CTRCTREV1 - Contract Service Revenues - Page 1 | P.N. 135647.0100 | February 10, 2020 2:17 p.m. | Rates-6
Reference: LINKS

COMPARISON OF CONTRACT SERVICE REVENUES UNDER EXISTING AND ADJUSTED RATES
Test Year 2021

	(1)	(2)	(3)	(4)	(5)	(6)				
		Existing Rates		Adjusted Rates			Column (5) Charges Before Management Fee	Allocated Cost of Service from Rates-2	Calculated Revenues Less COS	
	Units of Service	Unit Charge $/unit	Revenue $	Unit Charge $/unit	Revenue $	Revenue Difference $			Amount $	Percent of COS %
Abington			(1) * (2)	Rates-5	(1) * (4)	(5) - (3)		Rates-2		
O&M Charges										
Volume (Mcf)	96,000	1.7600	168,960	1.5677	150,499	(18,461)				
Capacity (cfs)	9.5420	12,634	120,554	11,976	114,275	(6,279)				
Suspended Solids (1,000 lbs)	1,000	216.49	216,490	223.39	223,390	6,900				
BOD (1,000 lbs)	1,400	250.73	351,022	255.28	357,392	6,370				
Subtotal			857,026		845,556	(11,470)				
Lump Sum Charge		587,000	587,000	647,600	647,600	60,600	1,493,156	1,497,000	(3,844)	-0.26%
Management Fee		12.00%	173,283	12%	179,179	5,896				
Total Service Charge			1,617,309		1,672,335	55,026				
Bensalem										
O&M Charges										
Volume (Mcf)	175,000	1.7600	308,000	1.5677	274,348	(33,652)				
Capacity (cfs)	11.7400	12,634	148,323	11,976	140,598	(7,725)				
Suspended Solids (1,000 lbs)	2,000	216.49	432,980	223.39	446,780	13,800				
BOD (1,000 lbs)	2,200	250.73	551,606	255.28	561,616	10,010				
Subtotal			1,440,909		1,423,342	(17,567)				
Lump Sum Charge		92,000	92,000	91,000	91,000	(1,000)	1,514,342	1,513,000	1,342	0.09%
Management Fee		10.00%	153,291	10%	151,434	(1,857)				
Total Service Charge			1,686,200		1,665,776	(20,424)				
Bucks County										
O&M Charges										
Volume (Mcf)	1,000,000	1.7600	1,760,000	1.5677	1,567,700	(192,300)				
Capacity (cfs)	74.2600	12,634	938,201	11,976	889,338	(48,863)				
Suspended Solids (1,000 lbs)	10,300	216.49	2,229,847	223.39	2,300,917	71,070				
BOD (1,000 lbs)	9,800	250.73	2,457,154	255.28	2,501,744	44,590				
Subtotal			7,385,202		7,259,699	(125,503)				
Lump Sum Charge (a)		396,000	396,000	460,500	460,500	64,500	7,720,199	7,718,000	2,199	0.03%
Management Fee		10.00%	778,120	10%	772,020	(6,100)				
Total Service Charge			8,559,322		8,492,219	(67,103)				
Cheltenham										
O&M Charges										
Volume (Mcf)	428,000	1.6500	706,200	1.4746	631,129	(75,071)				
Capacity (cfs)	31.7500	6,828	216,789	6,544	207,772	(9,017)				
Suspended Solids (1,000 lbs)	3,400	216.49	736,066	223.39	759,526	23,460				
BOD (1,000 lbs)	3,000	250.73	752,190	255.28	765,840	13,650				
Subtotal			2,411,245		2,364,267	(46,978)				
Lump Sum Charge		1,490,000	1,490,000	1,736,400	1,736,400	246,400	4,100,667	4,099,000	1,667	0.04%
Management Fee		12.00%	468,149	12%	492,080	23,931				
Total Service Charge			4,369,394		4,592,747	223,353				

Lower Moreland

O&M Charges										
Volume (Mcf)	65,000	1.7600	114,400	1.5677	101,901	(12,499)				
Capacity (cfs)	5.8800	12,634	74,288	11,976	70,419	(3,869)				
Suspended Solids (1,000 lbs)	660	216.49	142,883	223.39	147,437	4,554				
BOD (1,000 lbs)	500	250.73	125,365	255.28	127,640	2,275				
Subtotal			456,936		447,397	(9,539)				
Lump Sum Charge		335,000	335,000	376,800	376,800	41,800	824,197	825,000	(803)	-0.10%
Management Fee		12.00%	95,032	12%	98,904	3,872				
Total Service Charge			886,968		923,101	36,133				

(a) See footnote (a) on sheet Rates-7.

COMPARISON OF CONTRACT SERVICE REVENUES UNDER EXISTING AND ADJUSTED RATES
Test Year 2021

	(1)	(2)	(3)	(4)	(5)	(6)				
		Existing Rates		Adjusted Rates						
	Units of Service	Unit Charge $/unit	Revenue $ (1) * (2)	Unit Charge $/unit Rates-5	Revenue $ (1) * (4)	Revenue Difference $ (5) - (3)				
Lower Southampton										
O&M Charges										
Volume (Mcf)	300,000	1.7600	528,000	1.5677	470,310	(57,690)				
Capacity (cfs)	15.7900	12,634	199,491	11,976	189,101	(10,390)				
Suspended Solids (1,000 lbs)	2,440	216.49	528,236	223.39	545,072	16,836				
BOD (1,000 lbs)	1,820	250.73	456,329	255.28	464,610	8,281				
Subtotal			1,712,056		1,669,093	(42,963)				
Lump Sum Charge		2,003,000	2,003,000	2,189,400	2,189,400	186,400	3,858,493	3,851,000	7,493	0.19%
Management Fee		12.00%	445,807	12%	463,019	17,212				
Total Service Charge			4,160,863		4,321,512	160,649				
DELCORA										
O&M Charges										
Volume (Mcf)	1,200,000	1.5600	1,872,000	1.5454	1,854,480	(17,520)				
Capacity (cfs)	155.0000	7,247	1,123,285	7,620	1,181,100	57,815				
Suspended Solids (1,000 lbs)	13,400	187.52	2,512,768	230.36	3,086,824	574,056				
BOD (1,000 lbs)	11,000	187.67	2,064,370	208.31	2,291,410	227,040				
Subtotal			7,572,423		8,413,814	841,391				
Lump Sum Charge		1,177,000	1,177,000	2,512,000	2,512,000	1,335,000	10,925,814	10,928,000	(2,186)	-0.02%
Management Fee		12.00%	1,049,931	12%	1,311,098	261,167				
Total Service Charge			9,799,354		12,236,912	2,437,558				
Lower Merion										
O&M Charges										
Volume (Mcf) (b)	360,000	1.6100	579,600	1.5987	577,071	(2,529)				
Capacity (cfs) (c)	31.5700	7,412	233,997	7,793	297,325	63,328				
Suspended Solids (1,000 lbs)	3,700	191.52	708,624	233.54	864,105	155,481				
BOD (1,000 lbs)	3,200	188.78	604,096	208.75	668,009	63,913				
Subtotal			2,126,317		2,406,510	280,193				
Lump Sum Charge		124,000	124,000	122,000	122,000	(2,000)	2,528,510	2,535,000	(6,490)	-0.26%
Management Fee		10.00%	225,032	10%	252,851	27,819				
Total Service Charge			2,475,349		2,781,361	306,012				
Springfield (excl. Wyndmoor)										
O&M Charges										
Volume (Mcf)	128,000	1.8700	239,360	1.6148	206,694	(32,666)				
Capacity (cfs)	4.6000	9,050	41,630	9,556	43,958	2,328				
Suspended Solids (1,000 lbs)	2,200	191.52	421,344	233.54	513,788	92,444				
BOD (1,000 lbs)	2,250	188.78	424,755	208.75	469,688	44,933				
Subtotal			1,127,089		1,234,128	107,039				
Lump Sum Charge		694,000	694,000	772,900	772,900	78,900	2,007,028	1,997,000	10,028	0.50%
Management Fee		12.00%	218,531	12%	240,843	22,312				
Total Service Charge			2,039,620		2,247,871	208,251				

Upper Darby										
O&M Charges										
Volume (Mcf)	490,000	1.6100	788,900	1.5987	783,363	(5,537)				
Capacity (cfs)	35.0000	7,412	259,420	7,793	272,755	13,335				
Suspended Solids (1,000 lbs)	4,800	191.52	919,296	233.54	1,120,992	201,696				
BOD (1,000 lbs)	4,000	188.78	755,120	208.75	835,000	79,880				
Subtotal			2,722,736		3,012,110	289,374				
Lump Sum Charge		42,000	42,000	41,000	41,000	(1,000)	3,053,110	3,056,000	(2,890)	-0.09%
Management Fee		10.00%	276,474	10%	305,311	28,837				
Total Service Charge			3,041,210		3,358,421	317,211				
Springfield (Wyndmoor)										
O&M Charges										
Volume (Mcf)	22,000	2.3000	50,600	2.4008	52,818	2,218				
Capacity (cfs)	1.9300	16,108	31,088	18,010	34,759	3,671				
Suspended Solids (1,000 lbs)	240	283.03	67,927	350.63	84,151	16,224				
BOD (1,000 lbs)	180	124.39	22,390	138.43	24,917	2,527				
Subtotal			172,005		196,645	24,640				
Lump Sum Charge		137,000	137,000	134,300	134,300	(2,700)	330,945	330,000	945	0.29%
Management Fee		12.00%	37,081	12%	39,713	2,632				
Total Service Charge			346,086		370,658	24,572				
Total Contract Service Revenue			38,981,675		42,662,913	3,681,238				
					divided by (1+12%) management fee (except Cheltenham)					
		Whlsl COS=	38,349,000	minus	2,612,835	35,736,165	93.2%			

(a) The PWD recovers the direct costs for sodium hypochlorite for odor control of Bucks County wastewater directly from Bucks County based on actual expenses incurred. Therefore, remove this cost from the lump sum charge and note on the schedule of contract customer charges that those costs are recovered directly from Bucks County.
(b) The volume charge revenue includes charges for flows through the City Line and Presidential Drive connection.
(c) The capacity charge revenue includes charges for flows through the City Line and Presidential Drive connection.

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
PLANTOM - Unit Net O&M Costs by Plant **P.N. 135647.0100** **February 07, 2020 3:50 p.m.** **Rates-8**

Ref: Somallo-40

Line No.		(1) Total Net Operating Expense $1,000	(2) Projected Test Year Units of Service		(3) Unit Operating Expense $/unit	(4) Contract Customer Total Volume Units Incl. I/I Mcf	(5) Contract Customer Total Volume Units Excl. I/I Mcf	(6) Adjusted Unit Operating Expense $/unit ((3)*(4)) / (5)
	PUMPING STATIONS							
	Neill Drive Pumping Station							
	Retail and Lower Merion							
1	Total Volume	7	69,650	Mcf	0.1005	374,900	360,000	0.1047
2	Total Capacity	162	370	Mcf/day	436.4865	2,788	2,728	446.0866
	Central Schuykill Pumping Station							
	Retail and Springfield (excl. Wyndmoor)							
3	Total Volume	43	2,715,700	Mcf	0.0158	130,200	128,000	0.0161
4	Total Capacity	440	22,110	Mcf/day	19.9005	407	397	20.4018
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail and Cheltenham							
5	Volume	0	NA	Mcf	0.0000	443,000	428,000	0.0000
6	Capacity	0	NA	Mcf/day	0.0000	2,803	2,743	0.0000
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
7	Volume	601	6,680,000	Mcf	0.0900	1,691,500	1,636,000	0.0931
8	Capacity	2,568	41,730	Mcf/day	61.5385	10,346	10,126	62.8755
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
9	Volume	12,872	9,027,000	Mcf	1.4259	2,134,500	2,064,000	1.4746
10	Capacity	4,180	56,393	Mcf/day	74.1227	13,149	12,869	75.7354
11	Suspended Solids	22,723	103,303	1,000 lbs	219.9646	20,089	19,781	223.3896
12	BOD	18,399	72,244	1,000 lbs	254.6786	18,755	18,711	255.2775
	Southwest Plant:							
	Retail							
13	Volume	56	NA	Mcf	0.0000	NA	NA	
14	Capacity	502	NA	Mcf/day	0.0000	NA	NA	
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
15	Volume	12,819	8,295,000	Mcf	1.5454	1,011,700	978,000	1.5987
16	Capacity	4,570	51,820	Mcf/day	88.1899	6,289	6,149	90.1978
17	Suspended Solids	17,494	75,942	1,000 lbs	230.3566	10,851	10,703	233.5419
18	BOD	11,268	54,092	1,000 lbs	208.3118	9,467	9,447	208.7528
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
19	Volume	9,004	3,904,000	Mcf	2.3064	22,900	22,000	2.4008
20	Capacity	5,084	24,389	Mcf/day	208.4546	167	167	208.4546
21	Suspended Solids	11,017	31,944	1,000 lbs	344.8848	244	240	350.6329
22	BOD	3,664	26,615	1,000 lbs	137.6667	181	180	138.4315

SCOS19_21.XLS

SERVCHG

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
SERVIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Servchg-1

The "Servchg" worksheet develops the cost of service monthly service charge for 5/8 inch meters.

Range	Description	Page Number	Table
SERVIndex	Index	Servchg-1	
SRVCHG	Service Charge Design	Servchg-2	
ADJRTLCOS	Adjusted Retail COS Unit Costs	Servchg-3	
ADJCOSSUM	Summary of Adjusted COS Service Charges	Servchg-4	TABLE WW - 16
EQMBR	Equivalent Meter & Bill Ratios	Servchg-5	

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
SRVCHG - Service Charge Design **P.N. 135647.0100** **February 07, 2020 3:50 p.m.** **Servchg-2**

		Customer Costs												
	Collection System Stormwater Costs	Meter Costs	Billing Costs Sanitary	Billing Costs Stormwater	Industrial Waste Costs	Stormwater Infiltration/ Inflow Costs	Sanitary Infiltration/ Inflow Costs	Stormwater Direct Programs	Warranty Costs	Total Cost	Reference	Sanitary	Stormwater	Total
Units	Eq. Meters	Eq. Meters	Eq. Bills	Bills	Eq. Meters	Eq. Meters	Eq. Meters	Eq. Meters	Eq. Service					
5/8 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		Servchg-3			
Units		1.0	1.0		1.0		1.0		1.0		Servchg-3			
Total Cost - $		0.7621	3.1915		0.5871		2.7501		0.0000	7.2908		7.2908	0.0000	7.2908
3/4 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		1.5	1.00		1.5		1.5		1.0		Servchg-3			
Total Cost - $		1.1432	3.1915		0.8807		4.1252		0.0000	9.3406		9.3406	0.0000	9.3406
1 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		2.5	1.1		2.5		2.5		1.1		Servchg-3			
Total Cost - $		1.9053	3.5107		1.4678		6.8753		0.0000	13.7591		13.7591	0.0000	13.7591
1-1/4 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		3.8	1.2		3.8		3.8		1.2		Servchg-3			
Total Cost - $		2.8960	3.8298		2.2310		10.4504		0.0000	19.4072		19.4072	0.0000	19.4072
1-1/2 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		5.0	1.2		5.0		5.0		1.2		Servchg-3			
Total Cost - $		3.8105	3.8298		2.9355		13.7505		0.0000	24.3263		24.3263	0.0000	24.3263
2 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		8.0	1.5		8.0		8.0		2.1		Servchg-3			
Total Cost - $		6.0968	4.7873		4.6968		22.0008		0.0000	37.5817		37.5817	0.0000	37.5817
3 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		15.0	2.0		15.0		15.0		0.0		Servchg-3			
Total Cost - $		11.4315	6.3830		8.8065		41.2515		0.0000	67.8725		67.8725	0.0000	67.8725
4 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		25.0	4.0		25.0		25.0		0.0		Servchg-3			
Total Cost - $		19.0525	12.7660		14.6775		68.7525		0.0000	115.2485		115.2485	0.0000	115.2485
6 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		50.0	7.0		50.0		50.0		0.0		Servchg-3			
Total Cost - $		38.1050	22.3405		29.3550		137.5050		0.0000	227.3055		227.3055	0.0000	227.3055
8 Inch Meter														
Unit Costs - $/unit		0.7621	3.1915		0.5871		2.7501		0.0000		above			
Units		80.0	10.0		80.0		80.0		0.0		Servchg-3			
Total Cost - $		60.9680	31.9150		46.9680		220.0080		0.0000	359.8590		359.8590	0.0000	359.8590

10 Inch Meter										
Unit Costs - $/unit	0.7621	3.1915	0.5871	2.7501	0.0000		above			
Units	115.0	15.0	115.0	115.0	0.0		Servchg-3			
Total Cost - $	87.6415	47.8725	67.5165	316.2615	0.0000	519.2920		519.2920	0.0000	519.2920
12 Inch Meter										
Unit Costs - $/unit	0.7621	3.1915	0.5871	2.7501	0.0000		above			
Units	215.0	20.0	215.0	215.0	0.0		Servchg-3			
Total Cost - $	163.8515	63.8300	126.2265	591.2715	0.0000	945.1795		945.1795	0.0000	945.1795
14 Inch Meter										
Unit Costs - $/unit	0.7621	3.1915	0.5871	2.7501	0.0000		above			
Units	225.0	23.0	225.0	225.0	0.0		Servchg-3			
Total Cost - $	171.4725	73.4045	132.0975	618.7725	0.0000	995.7470		995.7470	0.0000	995.7470

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
ADJRTLCOS - Adjusted Retail COS Unit Costs	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Servchg-3

Rate Design - Retail COS Unit Costs Adjusted to Subsidize Discount
Customers and to Reflect Conversion to Billing Units from Wastewater Units

Line No.	Cost Component	(1) Units	(2) Adjusted Unit Cost $/unit				
	Collection System		Ratedsn-5			Ratedsn-5	
	Pumping Station						
1	Volume	Mcf	0.1571	/Mcf			
2	Capacity	Mcf/day	207.0654	/year	=	$17.2555	/month
3	Sanitary Sewers	Mcf/day	262.8887	/year	=	$21.9074	/month
4	Storm Costs Related to Equivalent Meters						
	WPC Plants						
5	Volume	Mcf	2.0975	/Mcf			
6	Capacity	Mcf/day	198.9153	/year	=	$16.5763	/month
7	Suspended Solids	1,000 lbs	293.1368	/1,000 lbs			
8	BOD	1,000 lbs	281.1588	/1,000 lbs			
	Customer Costs						
9	Meter Costs	Eq Meters	9.1451	/year	=	$0.7621	/month
	Billing Costs						
10	Sanitary	Eq Bills	3.1915	/monthly bill			
11	Industrial Waste Unit - Retail	Eq Meters	7.0450	/year	=	$0.5871	/month
12	Warranty Program	Eq Service	0.0000	/year	=	$0.0000	/month
13	Infiltration/Inflow - Sanitary	Eq Meters	33.0008	/year	=	$2.7501	/month

Test Year Equivalent Bills and Equivalent Meters Factors

		5/8" Meter	3/4" Meter	1" Meter	1-1/4" Meter	1-1/2" Meter	2" Meter	3" Meter	4" Meter	6" Meter	8" Meter	10" Meter	12" Meter	14" Meter
Equivalent Bills Factors	Units-11	1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
Equivalent Meters Factors	Units-12	1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
Equivalent Service Factors	Units-12	1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	45.0
Equivalent Bills Factors - Parcel Basec		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Meter Size inches	Calculated Service Charge $ Servchg-2	Rounded Service Charge $	Lag Factor @ 104.39% $ LagRate-14
5/8	7.29	7.29	7.61
3/4	9.34	9.34	9.75
1	13.76	13.76	14.36
1-1/4	19.41	19.41	20.26
1-1/2	24.33	24.33	25.40
2	37.58	37.58	39.23
3	67.87	67.87	70.85
4	115.25	115.25	120.31
6	227.31	227.31	237.29
8	359.86	359.86	375.66
10	519.29	519.29	542.09
12	945.18	945.18	986.67
14	995.75	995.75	1,039.46

TABLE WW - 16

DEVELOPMENT OF COST OF SERVICE MONTHLY SERVICE CHARGE FOR CUSTOMERS WITH 5/8-INCH METERS

Test Year 2021

Line No.	Cost Component	(1) Units	(2) Unit Costs $/Unit Servchg-2	(3) Number of Units Servchg-2	(4) Total Cost $ (2) * (3)
	Customer Costs				
1	Meter Costs	Eq. Meter	0.7621	1.0	0.7621
2	Billing Costs	Eq. Bills	3.1915	1.0	3.1915
3	Industrial Waste Unit	Eq. Meter	0.5871	1.0	0.5871
	Warranty Program	Eq. Service	0.0000	1.0	0.0000
4	I/I Costs - Sanitary Costs	Eq. Meter	2.7501	1.0	2.7501
5	Total Service Charge				7.2908
6	Total Service Charge - Rounded				7.29

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
EQMBR - Equivalent Meter & Bill Ratios	P.N. 135647.0100	February 07, 2020 3:50 p.m.					Servchg-5

TABLE 19

EQUIVALENT METER AND BILL RATIOS

Meter Size inches	Equiv. Meter and Capacity Ratio Servchg-3	Equivalent Bill Ratio Servchg-3	Equiv. Meter and Service Ratio Servchg-3
5/8	1.0	1.0	1.0
3/4	1.0	1.5	1.0
1	1.1	2.5	1.1
1-1/4	1.2	3.8	1.2
1-1/2	1.2	5.0	1.2
2	1.5	8.0	2.1
3	2.0	15.0	10.0
4	4.0	25.0	12.0
6	7.0	50.0	15.0
8	10.0	80.0	19.0
10	15.0	115.0	25.0
12	20.0	215.0	28.0
14	23.0	225.0	45.0

SCOS19_21.XLS

LAGRATE

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
LAGIndex - Index	P.N. 135647.0100	February 07, 2020 3:50 p.m.					LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Sewer System rates for the test year and two following years.

Range	Description	Page Number	Table
LAGIndex	Index	LagRate-1	
COSRates	Existing and COS Rates	LagRate-2	
BILLCONS	Projected Accounts, Bills and Consumptio	LagRate-3	
PBILLERates	Projected Gross Billings Under Existing Rate	LagRate-4	
BILLMETER	Historical Accounts by Meter Size & Billed Volum	LagRate-5	
BILLMETER	FY 2021 Bills by Meter Size & Billed Volum	LagRate-6	
EBILLS	Historical Billings Under Existing Rate	LagRate-7	
BILLTABFT	FY 2021 Bill Tab Adjustment Factor	LagRate-7a	
EUNITCHRG	Unit Charges Under Existing Rates	LagRate-8	
PBILLS	Billings Under COS Rates	LagRate-9	
PUNITCHRG	Unit Charges Under COS Rates	LagRate-10	
PBILLPRates	Projected Billings Under COS Rates	LagRate-11	
PBILLSUM	Summary of Projected Billings Under COS Rate	LagRate-12	
RECPTS	Calculation of Receipts (Under Proposed Rates) Reflecting La	LagRate-13	
TYRECPTS	Test Year Receipts with Lag	LagRate-14	
ADJCOS	Modified COS Rates to Account for Lag	LagRate-15	
CTRCTUnits	Contract Service Customers Billing Unit	LagRate-16	
WHLCHRGS	Summary of Existing Charges for Wholesale Contract Customer	LagRate-17	TABLE WH - 30
PRATES	Proposed Contract Rates and Percent Incr. Over Existing Rate	LagRate-18	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part	LagRate-19	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part	LagRate-19a	
COSCLASS	COS & Adjusted COS by Class	LagRate-20	TABLE WW - 14 [Columns (4) to (8)
CTRCTACOS	Contract Customers Allocated Cost of Service	LagRate-21	
EREVCOM	Comparison of Revenue Under Existing Rates to CO	LagRate-22	
CTRCTREVC	Comparison of Contract Revenues Under Existing Rates and Adjusted Rate	LagRate-23	
TYCSTSERV	Test Year Cost of Service	LagRate-24	
PRATESGS	Proposed Wastewater Rates for General Service	LagRate-25	
TYPBILLS	Typical Bills for Water and Wastewate	LagRate-26	
XXXXXX	PAGE NOT IN USE	LagRate-27	
XXXXXX	PAGE NOT IN USE	LagRate-28	
XXXXXX	PAGE NOT IN USE	LagRate-29	
XXXXXX	PAGE NOT IN USE	LagRate-30	
PHRATESTA	Four Years of Phased Rates (No trending)	LagRate-31	
PHASE1BILL	Transition Phase 1 Typical Bill	LagRate-32	
PHASE2BILL	Transition Phase 2 Typical Bill	LagRate-33	
PHASE3BILL	Transition Phase 3 Typical Bill	LagRate-34	
CHRGCMP1	Comparison 1 of Typical Bills	LagRate-35	
CHRGCMP2	Comparison 2 of Typical Bills	LagRate-36	Table C-4
PROPRCPTS	Page 1 of FY 2021 Proposed Receipts Calcs	LagRate-37	
PROPRCPTS	Page 2 of FY 2021 Proposed Receipts Calcs	LagRate-38	
XXXXXX	PAGE NOT IN USE	LagRate-39	
SSERVCHGS	2021 Components of Sewer Service Charges	LagRate-40	
XXXXXX	PAGE NOT IN USE	LagRate-41	
XXXXXX	PAGE NOT IN USE	LagRate-42	
SSERVCHGS	Summary of Components of Regular Sewer Service Charge	LagRate-43	
SSERVCHGS	Summary of Components of Discount Sewer Service Charge	LagRate-44	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
COSRates - Existing and COS Rates	P.N. 135647.0100	February 07, 2020 3:February 07, 2020 3:50 p.m.			LagRate-2

Reference:
OPTION 0 COS

TEST YEAR COS RATES
TEST YEAR 2021
(Prior to Application of Lag Factor Adjustment)

Meter Size inches	Meter Code	General Service Service Charge $/Bill Servchg-4	Discount Service Charge (a) $/Bill Ratedsn-2
15.11	5/8	R	7.29	5.47
37.91	3/4	Z	9.34	7.01
61.18	1	Q	13.76	10.32
89.77	1-1/4	Y	19.41	14.56
118.37	1-1/2	P	24.33	18.25
188.19	2	X	37.58	28.19
350.10	3	O	67.87	50.90
585.83	4	W	115.25	86.44
1,166.66	6	N	227.31	170.48
1,862.86	8	V	359.86	269.90
2,679.42	10	E	519.29	389.47
4,977.74	12	T	945.18	708.89
5,217.47	14	H	995.75	746.81

Monthly Water Usage	Charge Per Mcf Ratedsn-8	Charge Per Mcf calc here
General Service Volume Charge	32.46	24.35
Groundwater Volume Charge	12.53	

Wastewater Surcharge	Charge $/lb Ratedsn-7
BOD in excess of 250 mg/l	0.429
SS in excess of 350 mg/l	0.448

(a) Universities, Colleges, Hospitals, Charities, Board of Education and Senior Citizens are billed at 75% of regular rate

EXISTING RATES

TEST YEAR (TY) FY 2021 Effective September 1, 2019

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref: Financial Planning Mode	Discount Service Charge (a) $/Bill
5/8	R	7.01	5.26
3/4	Z	8.93	6.70
1	Q	13.07	9.80
1-1/4	Y	18.37	13.78
1-1/2	P	22.97	17.23
2	X	35.42	26.57
3	O	63.82	47.87
4	W	108.49	81.37
6	N	213.81	160.36
8	V	338.27	253.70
10	E	488.25	366.19
12	T	887.22	665.42
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	31.25
Discount Volume Charge (a)	23.44
Groundwater Volume Charge	13.86

Wastewater Surcharge	Charge $/lb
BOD in excess of 250 mg/l	0.397
SS in excess of 350 mg/l	0.388

TY - 1 FY 2020 Effective September 1, 2019

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref: Financial Planning Mode	Discount Service Charge (a) $/Bill
5/8	R	7.01	5.26
3/4	Z	8.93	6.70
1	Q	13.07	9.80
1-1/4	Y	18.37	13.78
1-1/2	P	22.97	17.23
2	X	35.42	26.57
3	O	63.82	47.87
4	W	108.49	81.37
6	N	213.81	160.36
8	V	338.27	253.70
10	E	488.25	366.19
12	T	887.22	665.42
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	31.25
Discount Volume Charge (a)	23.44
Groundwater Volume Charge	13.86

Wastewater Surcharge	Charge $/lb
BOD in excess of 250 mg/l	0.397
SS in excess of 350 mg/l	0.388

TY - 2 FY 2019 Effective September 1, 2018

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref: Financial Planning Mode	Discount Service Charge (a) $/Bill
5/8	R	7.04	5.28
3/4	Z	8.95	6.71
1	Q	13.06	9.80
1-1/4	Y	18.33	13.75
1-1/2	P	22.89	17.17
2	X	35.25	26.44
3	O	63.46	47.60
4	W	107.93	80.95
6	N	212.60	159.45
8	V	336.27	252.20
10	E	485.42	364.07
12	T	881.42	661.07
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	30.82
Discount Volume Charge (a)	23.12
Groundwater Volume Charge	13.76

File: SCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
BILLCONS - Projected Accounts, Bills and Consumption	**P.N. 135647.0100**	**February 07, 2020 3:: February 07, 2020 3:50 p.m.**					**LagRate-3**

References: Financial Planning Model (Custome
Water & Sewer and Water Only Data No Longer Require

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PBILLERates - Projected Gross Billings Under Existing Rates	P.N. 135647.0100	February 07, 2020 3:!February 07, 2020 3:50 p.m.					LagRate-4

Reference Financial Planning Model - Custome

PROJECTED WASTEWATER BILLINGS UNDER EXISTING RATES

W&S Accounts	2017 Volume Mcf	2018 Volume Mcf	2019 Volume Mcf	2020 Volume Mcf	2021 Volume Mcf	2022 Volume Mcf	2023 Volume Mcf	2024 Volume Mcf	2025 Volume Mcf	2026 Volume Mcf	Test Year 2021
Residential (excluding Senior Citizens	3,120,665	3,087,124	3,002,598	3,000,530	2,946,777	2,897,160	2,847,542	2,797,924	2,748,306	2,702,823	2,946,777
Commercial	1,493,608	1,536,667	1,498,398	1,520,202	1,514,292	1,508,383	1,502,754	1,497,126	1,491,779	1,486,432	1,514,292
Industrial	85,608	78,633	97,029	67,806	67,677	67,554	67,431	67,312	67,194	67,076	67,677
Public Utilitie	13,541	9,621	8,927	9,304	9,290	9,276	9,263	9,249	9,236	9,223	9,290
Senior Citizens	119,477	123,432	129,887	125,467	122,887	120,541	118,195	115,849	113,503	111,157	122,887
Housing Authority	158,209	158,037	157,280	157,202	157,202	157,202	157,202	157,202	157,202	157,202	157,202
Charities & Schools	176,768	160,970	156,747	156,251	156,251	156,251	156,251	156,251	156,251	156,251	156,251
Hospital/University	301,443	252,634	286,421	289,736	289,736	289,736	289,736	289,736	289,736	289,736	289,736
Hand Billed	444,600	395,072	418,857	439,660	439,660	439,660	439,660	439,660	439,660	439,660	439,660
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	6,326	7,533	8,387	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
Scheduled (Flat Rate)	14	13	13	11	11	11	11	11	11	11	11
yyyyyyyyy	0	0	0	0	0	0	0	0	0	0	0
Sewer Only	101,781	75,697	66,411	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000
Ground Water	206,137	209,117	231,240	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
Total	6,228,174	6,094,551	6,062,195	6,065,170	6,002,784	5,944,773	5,887,044	5,829,320	5,771,878	5,718,571	6,002,784

W&S Accounts	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	
Residential (excluding Senior Citizens	131,469,552	138,477,985	130,350,019	129,866,835	128,431,787	126,881,230	125,330,672	123,780,115	122,229,557	120,808,213	128,431,787
Commercial	50,705,772	55,393,198	52,485,247	53,183,148	53,135,539	52,950,857	52,774,970	52,599,082	52,431,989	52,264,896	53,135,539
Industrial	2,820,654	2,771,490	3,255,061	2,346,373	2,348,534	2,344,679	2,340,824	2,337,130	2,333,436	2,329,741	2,348,534
Public Utilitie	468,838	372,584	343,160	355,752	356,191	355,751	355,335	354,919	354,502	354,109	356,191
Senior Citizens	4,170,809	4,530,378	4,534,724	4,413,041	4,359,934	4,304,949	4,249,965	4,194,981	4,139,996	4,085,012	4,359,934
Housing Authority	5,161,092	5,466,380	5,245,646	5,240,042	5,253,228	5,253,228	5,253,228	5,253,228	5,253,228	5,253,228	5,253,228
Charities & Schools	4,652,193	4,498,831	4,260,897	4,256,905	4,267,808	4,267,808	4,267,808	4,267,808	4,267,808	4,267,808	4,267,808
Hospital/University	7,185,526	6,359,468	6,970,989	7,052,825	7,072,544	7,072,544	7,072,544	7,072,544	7,072,544	7,072,544	7,072,544
Hand Bill	13,765,013	13,018,759	13,291,607	13,943,208	13,982,812	13,982,812	13,982,812	13,982,812	13,982,812	13,982,812	13,982,812
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	192,596	243,925	261,362	249,283	250,000	250,000	250,000	250,000	250,000	250,000	250,000
Scheduled (Flat Rate)	758	783	645	601	602	602	602	602	602	602	602
yyyyyyyyy	0	0	0	0	0	0	0	0	0	0	0
Sewer Only	3,122,813	2,476,970	2,094,962	2,238,205	2,244,583	2,244,583	2,244,583	2,244,583	2,244,583	2,244,583	2,244,583
Ground Water Charges	2,326,680	2,489,361	3,093,702	3,044,617	3,049,200	3,049,200	3,049,200	3,049,200	3,049,200	3,049,200	3,049,200
Total	226,042,297	236,100,111	226,188,023	226,190,835	224,752,762	222,958,244	221,172,543	219,387,003	217,610,258	215,962,748	224,752,762

	TY-2 2019	TY-1 2020	TY 2021
Test Year 2021 Total Billing	226,188,023	226,190,835	$224,752,762

Test Year 2021 Total Volume Charge	$218,914,370
Test Year 2021 Total less yyyyyyyyyy Fire Volume Charg	$218,495,011
Test Year 2021 yyyyyyyyyy & Fire Volume Charg	$419,359
Test Year 2021 Total Service Charge	$5,838,392
Test Year 2021 Total less yyyyyyyyyy Service Charg	$5,838,392
Test Year 2021 yyyyyyyyyy Service Charge	$0

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
BILLMETER - Historical Accounts by Meter Size & Billed Volume **P.N. 135647.0100** **February 07, 2020 3:February 07, 2020 3:50 p.m.** **LagRate-5**

Reference: Financial Planning Model (Btab
Customer - Wastewater Billed Volume Year 2018

Meter Size inches	Meter Code	Residential Annual Number of Accounts	Residential Annual Consumption Mcf	Commercial Annual Number of Accounts	Commercial Annual Consumption Mcf	Industrial Annual Number of Accounts	Industrial Annual Consumption Mcf	Public Utilities Annual Number of Accounts	Public Utilities Annual Consumption Mcf	Senior Citizens Annual Number of Accounts	Senior Citizens Annual Consumption Mcf	Housing Authority Annual Number of Accounts	Housing Authority Annual Consumption Mcf	Charity and Schools Annual Number of Accounts	Charity and Schools Annual Consumption Mcf	Hospital/University Annual Number of Accounts	Hospital/University Annual Consumption Mcf
5/8	R	412,223		28,031		511		74		23,442		5,518		988		28	
3/4	Z	64		11		0		0		0		0		0		0	
1	Q	6,109		3,094		238		30		4		23		247		28	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	828		1,330		81		12		1		90		121		10	
2	X	606		1,934		115		25		0		27		209		58	
3	O	141		762		53		16		0		38		201		91	
4	W	47		444		13		6		0		24		256		80	
6	N	12		144		8		5		0		13		27		46	
8	V	3		37		1		2		0		5		2		10	
10	E	1		17		0		0		0		0		0		1	
12	T	0		0		0		0		0		0		0		0	
14	H		LagRate-4								LagRate-4		LagRate-4		LagRate-4		LagRate-4
		420,034	3,087,124	35,804	1,536,667	1,020	78,633	170	9,621	23,447	123,432	5,737	158,037	2,051	160,970	353	252,634

Meter Size inches	Meter Code	Hand Bill Annual Number of Accounts	Hand Bill Annual Consumption Mcf	xxxxxxxxxx Annual Number of Accounts	xxxxxxxxxx Annual Consumption Mcf	Fire Meters Annual Number of Accounts	Fire Meters Annual Consumption Mcf	Scheduled (Flat Rate) Annual Number of Accounts	Scheduled (Flat Rate) Annual Consumption Mcf	yyyyyyyyyy Annual Number of Accounts	yyyyyyyyyy Annual Consumption Mcf	Sewer Only Customers: Sewer Only Sewer Only Accounts	Sewer Only Consumption Mcf	Ground Water Sewer Only Accounts	Ground Water Consumption Mcf	Total Sewer Only Accounts	Total Consumption Mcf
5/8	R	9		0		64		3		0		41				41	
3/4	Z	0		0		0		0		0		1				1	
1	Q	9		0		18		0		0		2		Volume Charge Only		2	
1-1/4	Y	0		0		0		0		0		0				0	
1-1/2	P	10		0		9		0		0		0				0	
2	X	32		0		13		0		0		7				7	
3	O	63		0		1		0		0		2				2	
4	W	63		0		5		0		0		3				3	
6	N	23		0		2		0		0		2				2	
8	V	6		0		0		0		0		1				1	
10	E	2		0		0		0		0		1				1	
12	T	0		0		0		0		0		0				0	
14	H				LagRate-4		LagRate-4				LagRate-4		LagRate-4			0	
		217	395,072	0	0	112	7,533	3	13	0	0	59	75,697	0	209,117	59	284,814

NOTE: Excludes Water Only Customers and Wastewater Only Customer

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
BILLMETER1 - FY 2021 Bills by Meter Size & Billed Volume | P.N. 135647.0100 | February 07, 2020 3:!February 07, 2020 3:50 p.m. | LagRate-6

Meter Size inches	Meter Code	Residential Annual Number of Bills	Residential Annual Consumption Mcf	Commercial Annual Number of Bills	Commercial Annual Consumption Mcf	Industrial Annual Number of Bills	Industrial Annual Consumption Mcf	Public Utilities Annual Number of Bills	Public Utilities Annual Consumption Mcf	Senior Citizens Annual Number of Bills	Senior Citizens Annual Consumption Mcf	Housing Authority Annual Number of Bills	Housing Authority Annual Consumption Mcf	Charity and Schools Annual Number of Bills	Charity and Schools Annual Consumption Mcf	"6 Cent" Charities Annual Number of Bills	"6 Cent" Charities Annual Consumption Mcf
5/8	R	4,946,676		336,372		6,132		888		281,303		66,212		11,861		333	
3/4	Z	768		132		0		0		0		0		0		0	
1	Q	73,308		37,128		2,856		360		49		274		2,962		333	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	9,936		15,960		972		144		12		1,084		1,458		125	
2	X	7,272		23,208		1,380		300		0		322		2,511		694	
3	O	1,692		9,144		636		192		0		453		2,407		1,097	
4	W	564		5,328		156		72		0		286		3,066		958	
6	N	144		1,728		96		60		0		155		324		556	
8	V	36		444		12		24		0		60		23		125	
10	E	12		204		0		0		0		0		0		14	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		LagRate-11	LagRate-4	LagRate-11		LagRate-11		LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11	LagRate-4
		5,040,408	2,946,777	429,648	1,514,292	12,240	67,677	2,040	9,290	281,364	122,887	68,844	157,202	24,612	156,251	4,236	289,736

Meter Size inches	Meter Code	Hand Bill Annual Number of Bills	Hand Bill Annual Consumption Mcf	xxxxxxxxxx Annual Number of Bills	xxxxxxxxxx Annual Consumption Mcf	Fire Meters Annual Number of Bills	Fire Meters Annual Consumption Mcf	Scheduled (Flat Rate) Annual Number of Bills	Scheduled (Flat Rate) Annual Consumption Mcf	yyyyyyyyyy Annual Number of Bills	yyyyyyyyyy Annual Consumption Mcf	Sewer Only Customers: Sewer Only Annual Number of Bills	Sewer Only Annual Consumption Mcf	Sewer Only Customers: Ground Water Annual Number of Bills	Ground Water Annual Consumption Mcf	Sewer Only Customers: Total Annual Number of Bills	Total Annual Consumption Mcf
5/8	R	107		0		768		36		0		494		0		494	
3/4	Z	0		0		0		0		0		11		0		11	
1	Q	107		0		218		0		0		22		0		22	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	119		0		102		0		0		0		0		0	
2	X	380		0		154		0		0		79		0		79	
3	O	761		0		13		0		0		22		0		22	
4	W	761		0		64		0		0		34		0		34	
6	N	273		0		26		0		0		22		0		22	
8	V	71		0		0		0		0		11		0		11	
10	E	24		0		0		0		0		11		0		11	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11			
		2,604	439,660	0	0	1,344	8,000	36	11	0	0	708	71,000	0	220,000	708	291,000

NOTE: Excludes Water Only Customers and Wastewater Only Customer

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
EBILLS - Historical Billings Under Existing Rate	P.N. 135647.0100	February 07, 2020 3:February 07, 2020 3:50 p.m.					LagRate-7

This page is using billing data and sewer only data from Financial Planning Model - Customer worksh

Meter Size inches	Meter Code	Residential Service Charge Billings $ LagRate-5 x	Residential Volume Charge Billings $ LagRate-2	Commercial Service Charge Billings $ LagRate-5 x LagRate-2	Commercial Volume Charge Billings $ LagRate-2	Industrial Service Charge Billings $ LagRate-5 x LagRate-2	Industrial Volume Charge Billings $ LagRate-2	Public Utilities Service Charge Billings $ LagRate-5 x LagRate-2	Public Utilities Volume Charge Billings $ LagRate-2	Senior Citizens (b) Service Charge Billings $ LagRate-5 x LagRate-2	Senior Citizens (b) Volume Charge Billings $ LagRate-2	Housing Authority (b) Service Charge Billings $ LagRate-5 x LagRate-2	Housing Authority (b) Volume Charge Billings $ LagRate-2	"N" Charities (b) Service Charge Billings $ LagRate-5 x LagRate-2	"N" Charities (b) Volume Charge Billings $ LagRate-2	"6 Cent" Charities (b) Service Charge Billings $ LagRate-5 x LagRate-2	"6 Cent" Charities (b) Volume Charge Billings $ LagRate-2
5/8	R	2,889,683		196,497		3,582		519		123,304		36,745		5,199		146	
3/4	Z	572		98		0		0		0		0		0		0	
1	Q	79,845		40,439		3,111		392		40		283		2,419		272	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	19,019		30,550		1,861		276		18		1,971		2,093		179	
2	X	21,465		68,502		4,073		886		0		902		5,560		1,538	
3	O	8,999		48,631		3,382		1,021		0		2,286		9,601		4,377	
4	W	5,099		48,170		1,410		651		0		2,455		20,793		6,498	
6	N	2,566		30,789		1,710		1,069		0		2,620		4,330		7,424	
8	V	1,015		12,516		338		677		0		1,595		489		2,643	
10	E	488		8,300		0		0		0		0		0		424	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		3,028,749	96,472,622	484,492	48,020,856	19,468	2,457,291	5,490	300,644	123,362	2,893,246	48,857	4,691,732	50,484	3,773,137	23,501	5,921,729

Meter Size inches	Meter Code	Hand Bill Service Charge Billings $ LagRate-5 x LagRate-2	Hand Bill Volume Charge Billings $ LagRate-2	xxxxxxxxxx Service Charge Billings $ LagRate-5 x LagRate-2	xxxxxxxxxx Volume Charge Billings $ LagRate-2	Fire Meters (b) Service Charge Billings $ LagRate-5 x LagRate-2	Fire Meters (b) Volume Charge Billings $ LagRate-2	Scheduled (Flat Rate) (b) Service Charge Billings $ LagRate-5 x LagRate-2	Scheduled (Flat Rate) (b) Volume Charge Billings $ LagRate-2	yyyyyyyyyy Service Charge Billings $ LagRate-5 x LagRate-2	yyyyyyyyyy Volume Charge Billings $ LagRate-2	Sewer Only: Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only: Sewer Only Volume Charge Billings $ LagRate-2	Sewer Only: Ground Water Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only: Ground Water Volume Charge Billings $ LagRate-2	Sewer Only: Total Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only: Total Sewer Only Volume Charge Billings $ LagRate-2
5/8	R	63		0		449		21		0							
3/4	Z	0		0		0		0		0							
1	Q	117		0		237		0		0		Volume		Volume		Volume	
1-1/4	Y	0		0		0		0		0		charge only		charge only		charge only	
1-1/2	P	228		0		196		0		0							
2	X	1,123		0		453		0		0							
3	O	4,047		0		68		0		0							
4	W	6,880		0		579		0		0							
6	N	4,873		0		456		0		0							
8	V	2,011		0		0		0		0							
10	E	968		0		0		0		0							
12	T	0		0		0		0		0							
14	H	0		0		0		0		0							
		20,308	12,346,006	0	0	2,438	235,409	21	413	0	0	0	2,365,538	0	2,898,359	0	8,900,438

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
BILLTABFTRS - FY 2021 Bill Tab Adjustment Factors	P.N. 135647.0100	February 07, 2020 3:! February 07, 2020 3:50 p.m.					LagRate-7a

This page is using 2020 projected billing data times existing rates

Meter Size inches	Meter Code	Residential Service Charge Billings $	Residential Volume Charge Billings $	Commercial Service Charge Billings $	Commercial Volume Charge Billings $	Industrial Service Charge Billings $	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $	"6 Cent" Charities (b) Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	34,676,199		2,357,968		42,985		6,225		1,479,653		440,940		62,386		1,753	
3/4	Z	6,858		1,179		0		0		0		0		0		0	
1	Q	958,136		485,263		37,328		4,705		480		3,401		29,030		3,267	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	228,230		366,601		22,327		3,308		211		23,648		25,121		2,154	
2	X	257,574		822,027		48,880		10,626		0		10,819		66,716		18,451	
3	O	107,983		583,570		40,590		12,253		0		27,436		115,214		52,523	
4	W	61,188		578,035		16,924		7,811		0		29,457		249,511		77,978	
6	N	30,789		369,464		20,526		12,829		0		31,445		51,956		89,087	
8	V	12,178		150,192		4,059		8,118		0		19,135		5,871		31,712	
10	E	5,859		99,603		0		0		0		0		0		5,086	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		36,344,994	92,086,793	5,813,901	47,321,638	233,619	2,114,916	65,876	290,315	1,480,344	2,880,463	586,281	4,666,947	605,805	3,662,530	282,009	6,791,401

Meter Size inches	Meter Code	Hand Bill Service Charge Billings $	Hand Bill Volume Charge Billings $	xxxxxxxxxx Service Charge Billings $	xxxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyyy Service Charge Billings $	yyyyyyyyyy Volume Charge Billings $	Sewer Only: Sewer Only Service Charge Billings $	Sewer Only: Sewer Only Volume Charge Billings $	Sewer Only: Ground Water Service Charge Billings $	Sewer Only: Ground Water Volume Charge Billings $	Sewer Only: Total Sewer Only Service Charge Billings $	Sewer Only: Total Sewer Only Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	750		0				252		0							
3/4	Z	0		0				0		0							
1	Q	1,399		0		Volume		0		0		Volume		Volume		Volume	
1-1/4	Y	0		0		charge only		0		0		charge only		charge only		charge only	
1-1/2	P	2,731		0				0		0							
2	X	13,477		0				0		0							
3	O	48,566		0				0		0							
4	W	82,559		0				0		0							
6	N	58,473		0				0		0							
8	V	24,133		0				0		0							
10	E	11,611		0				0		0							
12	T	0		0				0		0							
14	H	0		0				0		0							
		243,699	13,739,367	0	0	0	250,000	252	350	0	0	0	2,218,750	0	3,049,200	0	9,093,750

Recap of FY 2018 Billings		
Service Charges	LagRate-7	
Total	$3,277,412	2.6%
Total less yyyyyyyyyy	$3,277,412	2.6%
yyyyyyyyyy	$0	0.0%
Volume Charge		
Total	$122,888,726	97.4%
Total less yyyyyyyyyy & Fi	$122,653,316	97.2%
yyyyyyyyyy & Fin	$235,409	0.2%

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only

Bill Tab Correction Factors Based on Billings Under Existing Rates

	(1) FY 2021 Calculated Billings Amount $ Above	(2) Unit Billings $/Mcf (1) / LagRate-6	(3) FY 2021 Projected Billings from Fin Pla Amount $ LagRate-4	(4) Unit Billings $/Mcf (3) / LagRate-4	(5) Bill Tab Adjustment Factors (4)/(2)
Residential (excluding Senior Citizens	128,431,787	43.5838	128,431,787	43.5838	100.00%
Commercial	53,135,539	35.0894	53,135,539	35.0894	100.00%
Industrial	2,348,534	34.7019	2,348,534	34.7019	100.00%
Public Utilities	356,191	38.3410	356,191	38.3410	100.00%
Senior Citizens	4,360,807	35.4864	4,359,934	35.4793	99.98%
Housing Authority	5,253,228	33.4170	5,253,228	33.4170	100.00%
Charity and Schools	4,268,335	27.3171	4,267,808	27.3137	99.99%
Hospitals & Universities	7,073,409	24.4133	7,072,544	24.4103	99.99%
Charities Weighted Average		25.5061		25.5030	99.99%
Hand Bill	13,983,066	31.8043	13,982,812	31.8037	100.00%
xxxxxxxxxx	0	0.0000	0	0.0000	0.00%
Fire Meters	250,000	31.2500	250,000	31.2500	100.00%
Scheduled (Flat Rate)	602	53.8023	602	53.8023	100.00%
yyyyyyyyyy	0	0.0000	0	0.0000	0.00%
Sewer Only	2,218,750	31.2500	2,244,583	31.6138	101.16%
Ground Water Charges	3,049,200	13.8600	3,049,200	13.8600	100.00%
Total	224,729,449		224,752,762		100.01%

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
EUNITCHRGS - Unit Charges Under Existing Rates **P.N. 135647.0100** **February 10, 2020 8:; February 10, 2020 8:27 p.m.** **LagRate-8**

References:
A. LagRate-5
B. LagRate-6
C. LagRate-7

	Unit Volume Charge $/Mcf Ref. C / Ref. A	Unit Service Charge $/Bill Ref. C / Ref. A	Total Unit Charge $/Mcf Ref. C / Ref. A	Bill Tab Adjustment Factors	Billed Volume Mcf LagRate-3	FY 2021 Test Year "Water and Sewe Volume Charge Billings $	Bills LagRate-3	Service Charge Billings $	Total Billings $	Consumption Percent W&S of W&S and Water Only %	Water and Sewer Billings (Excluding Water Only) Percent W&S of W&S and W Only No. of Bills FY 2021 Test Year %	Volume Charge Billings $	Service Charge Billings $	Total Billings $	FY 2021 Test Year W&S Billings Divided by W&S and W Only Billings %
Residential (Excluding Senior Citizens)	31.2500	7.2107	32.2310	100.00%	2,946,777	92,086,793	5,040,408	36,344,870	128,431,663	100.00%	100.00%	92,086,793	36,344,870	128,431,663	100.00%
Commercial	31.2500	13.5318	31.5650	100.00%	1,514,292	47,321,638	429,648	5,813,911	53,135,549	100.00%	100.00%	47,321,638	5,813,911	53,135,549	100.00%
Industrial	31.2500	19.0865	31.4980	100.00%	67,677	2,114,916	12,240	233,619	2,348,534	100.00%	100.00%	2,114,916	233,619	2,348,534	100.00%
Public Utilities	31.2500	32.2919	31.8210	100.00%	9,290	290,315	2,040	65,875	356,190	100.00%	100.00%	290,315	65,875	356,190	100.00%
Senior Citizens	23.4400	5.2613	24.4390	99.98%	122,887	2,879,887	281,364	1,480,044	4,359,931	100.00%	100.00%	2,879,887	1,480,044	4,359,931	100.00%
Housing Authority	29.6875	8.5161	29.9970	100.00%	157,202	4,666,947	68,844	586,282	5,253,229	100.00%	100.00%	4,666,947	586,282	5,253,229	100.00%
Charities & Schools ("N" Charities)	23.4400	24.6142	23.7540	99.99%	156,251	3,662,078	24,612	605,730	4,267,808	100.00%	100.00%	3,662,078	605,730	4,267,808	100.00%
Hospitals & Universities ("6 Cent" Charities)	23.4400	66.5743	23.5330	99.99%	289,736	6,790,569	4,236	281,974	7,072,544	100.00%	100.00%	6,790,569	281,974	7,072,544	100.00%
Hand Bill	31.2500	93.5865	31.3010	100.00%	439,660	13,739,117	2,604	243,695	13,982,812	100.00%	100.00%	13,739,117	243,695	13,982,812	100.00%
xxxxxxxxxx	0.0000	0.0000	0.0000	0.00%	0	0	0	0	0	100.00%	100.00%	0	0	0	NA
Fire Meters	31.2500	21.7665	31.5740	100.00%	8,000	250,000	1,344	29,254	279,254	100.00%	100.00%	250,000	29,254	279,254	100.00%
Scheduled (Flat Rate)	31.2500	7.0100	32.8430	100.00%	11	350	36	252	602	100.00%	100.00%	350	252	602	100.00%
yyyyyyyyy	0.0000	0.0000	0.0000	0.00%	0	0	0	0	0	100.00%	100.00%	0	0	0	NA
Sewer Only - Ref. B	31.2500	0.0000	31.2500	101.16%	71,000	2,244,583	708	0	2,244,583	100.00%	100.00%	2,244,583	0	2,244,583	100.00%
Ground Water - Ref. B	13.8600	0.0000	13.8600	100.00%	220,000	3,049,200	60	0	3,049,200	100.00%	100.00%	3,049,200	0	3,049,200	100.00%
Total					5,782,784	176,047,192	5,868,084	45,685,507	221,732,699			176,047,192	45,685,507	221,732,699	100.00%
Total less yyyyyyyyy								45,685,507				176,047,192	45,685,507	221,732,699	
Total less yyyyyyyyyy and Fir						175,797,192						175,797,192	45,656,253	221,453,445	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PBILLS - Billings Under COS Rates	P.N. 135647.0100	February 07, 2020 3:!February 07, 2020 3:50 p.m.					LagRate-9

This page uses FY 2021 billing data times COS rates
Volume charges do not reflect billing dela

Meter Size inches	Meter Code	Residential Service Charge Billings $	Residential Volume Charge Billings $	Commercial Service Charge Billings $	Commercial Volume Charge Billings $	Industrial Service Charge Billings $	Industrial Volume Charge Billings $	Public Utilitie Service Charge Billings $	Public Utilitie Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b Service Charge Billings $	Housing Authority (b Volume Charge Billings $	"N" Charities (b) Service Charge Billings $	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $	"6 Cent" Charities (b) Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	36,061,268		2,452,152		44,702		6,474		1,538,726		458,552		64,877		1,823	
3/4	Z	7,173		1,233		0		0		0		0		0		0	
1	Q	1,008,718		510,881		39,299		4,954		505		3,580		30,570		3,440	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	241,743		388,307		23,649		3,504		223		25,048		26,608		2,281	
2	X	273,282		872,157		51,860		11,274		0		11,479		70,784		19,576	
3	O	114,836		620,603		43,165		13,031		0		29,178		122,507		55,847	
4	W	65,001		614,052		17,979		8,298		0		31,292		265,057		82,836	
6	N	32,733		392,792		21,822		13,639		0		33,431		55,235		94,709	
8	V	12,955		159,778		4,318		8,637		0		20,356		6,246		33,737	
10	E	6,231		105,935		0		0		0		0		0		5,409	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		37,823,940	95,652,394	6,117,889	49,153,932	246,794	2,196,805	69,809	301,556	1,539,455	2,992,290	612,917	4,847,651	641,884	3,804,719	299,658	7,055,060

Meter Size inches	Meter Code	Hand Bill Service Charge Billings $	Hand Bill Volume Charge Billings $	xxxxxxxxxx Service Charge Billings $	xxxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyyy Service Charge Billings $	yyyyyyyyyy Volume Charge Billings $	Sewer Only Service Charge Billings $	Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $	Sewer Only Ground Water Volume Charge Billings $	Total Sewer Only Service Charge Billings $	Total Sewer Only Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	780		0				262		0							
3/4	Z	0		0				0		0							
1	Q	780		0				0		0							
1-1/4	Y	0		0				0		0							
1-1/2	P	867		0		Volume		0		0		Volume		Volume		Volume	
2	X	2,774		0		charge only		0		0		charge only		charge only		charge only	
3	O	5,548		0				0		0							
4	W	5,548		0				0		0							
6	N	1,994		0				0		0							
8	V	520		0				0		0							
10	E	173		0				0		0							
12	T	0		0				0		0							
14	H	0		0				0		0							
		18,983	14,271,355	0	0	0	259,680	262	363	0	0	0	2,304,660	0	2,756,600	0	5,061,260

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PUNITCHRGS - Unit Charges Under COS Rates	P.N. 135647.0100	February 07, 2020 3:: February 07, 2020 3:50 p.m.					LagRate-10

References: A. LagRate-6
B. LagRate-9

	FY 2021 Billing Data Applied to COS Rates			FY 2021 Units Billings Under Existing Rates	Percent Change
	Unit Volume Charge $/Mcf Ref. B / Ref. A	Unit Service Charge $/Bill Ref. B / Ref. A	Total Unit Charge $/Mcf Ref. B / Ref. A	$/Mcf LagRate-7a	
Residential (Excluding Senior Citizens) (a	32.4600	7.5041	45.2960	43.5838	3.93%
Commercial	32.4600	14.2393	36.5000	35.0894	4.02%
Industrial	32.4600	20.1629	36.1070	34.7019	4.05%
Public Utilities	32.4600	34.2201	39.9740	38.3410	4.26%
Senior Citizens (a)	24.3500	5.4714	36.8770	35.4864	3.92%
Housing Authority (a	30.8370	8.9030	34.7360	33.4170	3.95%
Charities & Schools (a)	24.3500	26.0801	28.4580	27.3171	4.18%
Hospitals & University (a	24.3500	70.7408	25.3840	24.4133	3.98%
Hand Bill	32.4600	7.2900	32.5030	31.8043	2.20%
xxxxxxxxxx	0.0000	0.0000	0.0000	0.0000	0.00%
Fire Meters (a)	32.4600	0.0000	32.4600	31.2500	3.87%
Scheduled (Flat Rate) (a)	32.4600	7.2900	55.9130	53.8023	3.92%
yyyyyyyyyy	0.0000	0.0000	0.0000	0.0000	0.00%
Sewer Only - Ref. B	32.4600	0.0000	32.4600	31.2500	3.87%
Ground Water - Ref. B	12.5300	0.0000	12.5300	13.8600	-9.60%

(a) Excludes Water Only and Wastewater Only; i.e., includes W&S

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
PBILLPRates - Projected Billings Under COS Rates **P.N. 135647.0100** **February 07, 2020 3:!February 07, 2020 3:50 p.m.** **LagRate-11**

References: A. Volume multiplied by Unit Volume Charge (LagRate-10
B. Bills multiplied by Unit Service Charge (LagRate-10
C. Volume multiplied by Total Unit Charge (LagRate-10

		Residential	Commercial	Industrial	Public Utilities	Senior Citizens	Housing Authority	Charities & Schools	Hospitals & Universities	Hand Bill	xxxxxxxxxx	Fire Meters	Scheduled (Flat Rate)	yyyyyyyyyy	Sewer Only	Groundwater	Total
Unit Volume Charge - $/Mcf	LagRate-10	32.4600	32.4600	32.4600	32.4600	24.3500	30.8370	24.3500	24.3500	32.4600	0.0000	32.4600	32.4600	0.0000	32.4600	12.5300	
Unit Service Charge - $/Mcf	LagRate-10	7.5041	14.2393	20.1629	34.2201	5.4714	8.9030	26.0801	70.7408	7.2900	0.0000	0.0000	7.2900	0.0000	0.0000	0	
Total Unit Charge - $/Mcf	LagRate-10	45.2960	36.5000	36.1070	39.9740	36.8770	34.7360	28.4580	25.3840	33	0.0000	32.4600	55.9130	0.0000	32.4600	12.5300	
2019																	
W&S Billed Volume - Mcf	LagRate-4	3,002,598	1,498,398	97,029	8,927	129,887	157,280	156,747	286,421	418,857	0	8,387	13	0	66,411	231,240	6,062,195
Volume Charge Billings - $	Ref. A	97,464,321	48,637,996	3,149,565	289,783	3,162,741	4,850,056	3,816,789	6,974,342	13,596,085	0	272,252	406	0	2,155,711	2,897,437	187,267,484
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		135,288,047	54,755,883	3,396,358	359,592	4,702,196	5,462,974	4,458,673	7,274,000	13,615,068	0	272,252	668	0	2,155,711	2,897,437	234,638,859
Alternate Total Billings - $	Ref. C	136,005,665	54,691,523	3,503,430	356,864	4,789,832	5,463,292	4,460,706	7,270,501	13,614,096	0	272,252	699	0	2,155,711	2,897,437	235,482,008
2020																	
W&S Billed Volume - Mcf	LagRate-4	3,000,530	1,520,202	67,806	9,304	125,467	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	6,065,170
Volume Charge Billings - $	Ref. A	97,397,205	49,345,764	2,200,976	302,012	3,055,128	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	187,601,174
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		135,220,931	55,463,651	2,447,770	371,821	4,594,583	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	234,972,550
Alternate Total Billings - $	Ref. C	135,912,009	55,487,381	2,448,264	371,924	4,626,856	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	235,720,089
2021																	
W&S Billed Volume - Mcf	LagRate-4	2,946,777	1,514,292	67,677	9,290	122,887	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	6,002,784
Volume Charge Billings - $	Ref. A	95,652,394	49,153,932	2,196,805	301,556	2,992,290	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	185,597,065
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		133,476,120	55,271,818	2,443,599	371,365	4,531,745	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	232,968,441
Alternate Total Billings - $	Ref. C	133,477,229	55,271,673	2,443,624	371,362	4,531,691	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	232,969,234
2022																	
W&S Billed Volume - Mcf	LagRate-4	2,897,160	1,508,383	67,554	9,276	120,541	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	5,944,773
Volume Charge Billings - $	Ref. A	94,041,799	48,962,099	2,192,801	301,100	2,935,165	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	183,733,051
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		131,865,525	55,079,986	2,439,595	370,909	4,474,620	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	231,104,427
Alternate Total Billings - $	Ref. C	131,229,739	55,055,965	2,439,170	370,800	4,445,178	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	230,414,506
2023																	
W&S Billed Volume - Mcf	LagRate-4	2,847,542	1,502,754	67,431	9,263	118,195	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	5,887,044
Volume Charge Billings - $	Ref. A	92,431,204	48,779,401	2,188,797	300,667	2,878,040	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	181,878,197
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		130,254,930	54,897,288	2,435,591	370,476	4,417,495	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	229,249,572
Alternate Total Billings - $	Ref. C	128,982,249	54,850,528	2,434,716	370,267	4,358,664	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	227,870,080
2024																	
W&S Billed Volume - Mcf	LagRate-4	2,797,924	1,497,126	67,312	9,249	115,849	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	5,829,320
Volume Charge Billings - $	Ref. A	90,820,609	48,596,703	2,184,959	300,235	2,820,915	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	180,023,509
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		128,644,334	54,714,590	2,431,753	370,044	4,360,370	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	227,394,884
Alternate Total Billings - $	Ref. C	126,734,760	54,645,091	2,430,447	369,735	4,272,151	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	7,141,200	229,710,439
2025																	
W&S Billed Volume - Mcf	LagRate-4	2,748,306	1,491,779	67,194	9,236	113,503	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	5,771,878
Volume Charge Billings - $	Ref. A	89,210,014	48,423,140	2,181,122	299,803	2,763,790	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	178,177,956
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		127,033,739	54,541,027	2,427,916	369,612	4,303,245	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	225,549,331
Alternate Total Billings - $	Ref. C	124,487,270	54,449,927	2,426,179	369,202	4,185,638	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	222,791,870
2026																	
W&S Billed Volume - Mcf	LagRate-4	2,702,823	1,486,432	67,076	9,223	111,157	157,202	156,251	289,736	439,660	0	8,000	11	0	71,000	220,000	5,718,571
Volume Charge Billings - $	Ref. A	87,733,635	48,249,577	2,177,284	299,394	2,706,665	4,847,651	3,804,719	7,055,060	14,271,355	0	259,680	363	0	2,304,660	2,756,600	176,466,643
Bills W&S		5,040,408	429,648	12,240	2,040	281,364	68,844	24,612	4,236	2,604	0	1,344	36	0	708	60	5,868,144
Service Charge Billings - $	Ref. B	37,823,726	6,117,887	246,794	69,809	1,539,455	612,918	641,883	299,658	18,983	0	0	262	0	0	0	47,371,376
Total Billings - $		125,557,361	54,367,464	2,424,078	369,203	4,246,120	5,460,569	4,446,602	7,354,718	14,290,338	0	259,680	626	0	2,304,660	2,756,600	223,838,019
Alternate Total Billings - $	Ref. C	122,427,071	54,254,762	2,421,910	368,699	4,099,124	5,460,583	4,446,599	7,354,646	14,290,261	0	259,680	626	0	2,304,660	2,756,600	220,445,221

(a) Included with General Service

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
PBILLSUM - Summary of Projected Billings Under COS Rates | P.N. 135647.0100 | February 07, 2020 3:!February 07, 2020 3:50 p.m. | LagRate-12
Reference: LagRate-11

Service Charge Billings

	Projected Billing Under COS Rates **Before** Adjusting for Bill Tab Correction Factors								Bill Tab Correction Factors LagRate-7a	Projected Billing Under COS Rates **After** Adjusting for Bill Tab Correction Factors								Test Year
	2019	2020	2021	2022	2023	2024	2025	2026		2019	2020	2021	2022	2023	2024	2025	2026	2021
Residential	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	100.00%	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726	37,823,726
Commercial	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	100.00%	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887	6,117,887
Industrial	246,794	246,794	246,794	246,794	246,794	246,794	246,794	246,794	100.00%	246,794	246,794	246,794	246,794	246,794	246,794	246,794	246,794	246,794
Public Utilities	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	100.00%	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809
Senior Citizens	1,539,455	1,539,455	1,539,455	1,539,455	1,539,455	1,539,455	1,539,455	1,539,455	99.98%	1,539,147	1,539,147	1,539,147	1,539,147	1,539,147	1,539,147	1,539,147	1,539,147	1,539,147
Subtotal	45,797,670	45,797,670	45,797,670	45,797,670	45,797,670	45,797,670	45,797,670	45,797,670		45,797,362	45,797,362	45,797,362	45,797,362	45,797,362	45,797,362	45,797,362	45,797,362	45,797,362
Housing Authority	612,918	612,918	612,918	612,918	612,918	612,918	612,918	612,918	100.00%	612,918	612,918	612,918	612,918	612,918	612,918	612,918	612,918	612,918
Charities & Schools	641,883	641,883	641,883	641,883	641,883	641,883	641,883	641,883	99.99%	641,804	641,804	641,804	641,804	641,804	641,804	641,804	641,804	641,804
Hospitals & Universities	299,658	299,658	299,658	299,658	299,658	299,658	299,658	299,658	99.99%	299,621	299,621	299,621	299,621	299,621	299,621	299,621	299,621	299,621
Hand Bill	18,983	18,983	18,983	18,983	18,983	18,983	18,983	18,983	100.00%	18,983	18,983	18,983	18,983	18,983	18,983	18,983	18,983	18,983
xxxxxxxxxx	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Fire Meters	0	0	0	0	0	0	0	0	100.00%	0	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	262	262	262	262	262	262	262	262	100.00%	262	262	262	262	262	262	262	262	262
yyyyyyyyyy	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Sewer Only	0	0	0	0	0	0	0	0	101.16%	0	0	0	0	0	0	0	0	0
Groundwater	0	0	0	0	0	0	0	0	100.00%	0	0	0	0	0	0	0	0	0
Total	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376		47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951
Total Less Fire & yyyyyyyyyy	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376	47,371,376		47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951	47,370,951

Volume Charge Billings

	2019	2020	2021	2022	2023	2024	2025	2026		2019	2020	2021	2022	2023	2024	2025	2026	Test Year 2021
Residential	97,464,321	97,397,205	95,652,394	94,041,799	92,431,204	90,820,609	89,210,014	87,733,635	100.00%	97,464,321	97,397,205	95,652,394	94,041,799	92,431,204	90,820,609	89,210,014	87,733,635	95,652,394
Commercial	48,637,996	49,345,764	49,153,932	48,962,099	48,779,401	48,596,703	48,423,140	48,249,577	100.00%	48,637,996	49,345,764	49,153,932	48,962,099	48,779,401	48,596,703	48,423,140	48,249,577	49,153,932
Industrial	3,149,565	2,200,976	2,196,805	2,192,801	2,188,797	2,184,959	2,181,122	2,177,284	100.00%	3,149,565	2,200,976	2,196,805	2,192,801	2,188,797	2,184,959	2,181,122	2,177,284	2,196,805
Public Utilities	289,783	302,012	301,556	301,100	300,667	300,235	299,803	299,394	100.00%	289,783	302,012	301,556	301,100	300,667	300,235	299,803	299,394	301,556
Senior Citizens	3,162,741	3,055,128	2,992,290	2,935,165	2,878,040	2,820,915	2,763,790	2,706,665	99.98%	3,162,108	3,054,516	2,991,691	2,934,577	2,877,464	2,820,350	2,763,236	2,706,123	2,991,691
Subtotal	152,704,406	152,301,086	150,296,977	148,432,963	146,578,109	144,723,421	142,877,868	141,166,555		152,703,773	152,300,475	150,296,378	148,432,376	146,577,533	144,722,856	142,877,315	141,166,013	150,296,378
Housing Authority	4,850,056	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	100.00%	4,850,056	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651	4,847,651
Charities & Schools	3,816,789	3,804,719	3,804,719	3,804,719	3,804,719	3,804,719	3,804,719	3,804,719	99.99%	3,816,318	3,804,249	3,804,249	3,804,249	3,804,249	3,804,249	3,804,249	3,804,249	3,804,249
Hospitals & Universities	6,974,342	7,055,060	7,055,060	7,055,060	7,055,060	7,055,060	7,055,060	7,055,060	99.99%	6,973,488	7,054,196	7,054,196	7,054,196	7,054,196	7,054,196	7,054,196	7,054,196	7,054,196
Hand Bill	13,596,085	14,271,355	14,271,355	14,271,355	14,271,355	14,271,355	14,271,355	14,271,355	100.00%	13,595,838	14,271,096	14,271,096	14,271,096	14,271,096	14,271,096	14,271,096	14,271,096	14,271,096
xxxxxxxxxx	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Fire Meters	272,252	259,680	259,680	259,680	259,680	259,680	259,680	259,680	100.00%	272,252	259,680	259,680	259,680	259,680	259,680	259,680	259,680	259,680
Scheduled (Flat Rate)	406	363	363	363	363	363	363	363	100.00%	406	363	363	363	363	363	363	363	363
yyyyyyyyyy	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Sewer Only	2,155,711	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	101.16%	2,180,810	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493
Groundwater	2,897,437	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	100.00%	2,897,437	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600
Total	187,267,484	187,601,174	185,597,065	183,733,051	181,878,197	180,023,509	178,177,956	176,466,643		187,290,377	187,625,803	185,621,706	183,757,704	181,902,861	180,048,184	178,202,643	176,491,342	185,621,706
Total Less Fire & yyyyyyyyyy	186,995,232	187,341,494	185,337,385	183,473,371	181,618,517	179,763,829	177,918,276	176,206,963		187,018,126	187,366,123	185,362,026	183,498,024	181,643,181	179,788,504	177,942,963	176,231,662	185,362,026

Total Service Charge and Volume Charge Billings

	2019	2020	2021	2022	2023	2024	2025	2026	2019	2020	2021	2022	2023	2024	2025	2026	Test Year 2021
Residential	135,288,047	135,220,931	133,476,120	131,865,525	130,254,930	128,644,334	127,033,739	125,557,361	135,288,047	135,220,931	133,476,120	131,865,525	130,254,930	128,644,334	127,033,739	125,557,361	133,476,120
Commercial	54,755,883	55,463,651	55,271,818	55,079,986	54,897,288	54,714,590	54,541,027	54,367,464	54,755,883	55,463,651	55,271,818	55,079,986	54,897,288	54,714,590	54,541,027	54,367,464	55,271,818
Industrial	3,396,358	2,447,770	2,443,599	2,439,595	2,435,591	2,431,753	2,427,916	2,424,078	3,396,358	2,447,770	2,443,599	2,439,595	2,435,591	2,431,753	2,427,916	2,424,078	2,443,599
Public Utilities	359,592	371,821	371,365	370,909	370,476	370,044	369,612	369,203	359,592	371,821	371,365	370,909	370,476	370,044	369,612	369,203	371,365
Senior Citizens	4,702,196	4,594,583	4,531,745	4,474,620	4,417,495	4,360,370	4,303,245	4,246,120	4,701,255	4,593,663	4,530,838	4,473,724	4,416,611	4,359,497	4,302,383	4,245,270	4,530,838
Subtotal	198,502,077	198,098,757	196,094,647	194,230,634	192,375,779	190,521,091	188,675,538	186,964,226	198,501,135	198,097,837	196,093,740	194,229,738	192,374,895	190,520,218	188,674,677	186,963,376	196,093,740
Housing Authority	5,462,974	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,462,974	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569	5,460,569
Charities & Schools	4,458,673	4,446,602	4,446,602	4,446,602	4,446,602	4,446,602	4,446,602	4,446,602	4,458,122	4,446,053	4,446,053	4,446,053	4,446,053	4,446,053	4,446,053	4,446,053	4,446,053
Hospitals & Universities	7,274,000	7,354,718	7,354,718	7,354,718	7,354,718	7,354,718	7,354,718	7,354,718	7,273,109	7,353,818	7,353,818	7,353,818	7,353,818	7,353,818	7,353,818	7,353,818	7,353,818
Hand Bill	13,615,068	14,290,338	14,290,338	14,290,338	14,290,338	14,290,338	14,290,338	14,290,338	13,614,821	14,290,078	14,290,078	14,290,078	14,290,078	14,290,078	14,290,078	14,290,078	14,290,078
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	272,252	259,680	259,680	259,680	259,680	259,680	259,680	259,680	272,252	259,680	259,680	259,680	259,680	259,680	259,680	259,680	259,680
Scheduled (Flat Rate)	668	626	626	626	626	626	626	626	668	626	626	626	626	626	626	626	626
yyyyyyyyyy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sewer Only	2,155,711	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	2,304,660	2,180,810	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493	2,331,493
Groundwater	2,897,437	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,897,437	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600	2,756,600
Total	234,638,859	234,972,550	232,968,441	231,104,427	229,249,572	227,394,884	225,549,331	223,838,019	234,661,328	234,996,754	232,992,657	231,128,655	229,273,812	227,419,135	225,573,594	223,862,293	232,992,657
									100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	
Total Less Fire & yyyyyyyyyy	234,366,608	234,712,870	232,708,761	230,844,747	228,989,892	227,135,204	225,289,651	223,578,339	234,389,077	234,737,074	232,732,977	230,868,975	229,014,132	227,159,455	225,313,914	223,602,613	
									100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	
								Financial Planning Mode	226,188,023	226,190,835	224,752,762	222,958,244	221,172,543	219,387,003	217,610,258	215,962,748	
								Total divided by above lin	103.75%	103.89%	103.67%	103.66%	103.66%	103.66%	103.66%	103.66%	

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
RECPTS - Calculation of Receipts (Under Proposed Rates) Reflecting Lag	P.N. 135647.0100	February 07, 2020 3:February 07, 2020 3:50 p.m.			LagRate-13

	Proposed Increase	Months Effective	Cumulative Increase 2019 - 2026	Cumulative Increase 2022 - 2026											
REF: Financial Planning Mod															
2019	0.00%	10	100.00%												
2020	0.00%	10	100.00%						197,049,000			SW	187,009,000		
2021	6.64%	12	106.64%												
2022	6.63%	10	113.71%	106.63%								Prior SS	24,581,000		
2023	4.23%	10	118.51%	111.14%								Surcharge	4,796,000		
2024	4.07%	10	123.34%	115.67%					242,223,000			SS	209,959,000	21,170,000	4,602,000	235,731,000
2025	3.90%	10	128.15%	120.18%									86.7%	8.7%	1.9%
2026	10.02%	10	140.99%	132.22%											

Gross Billing Adjustment Factor: 0.0%

No Billing Adjustment Factor Used in Financial Planning Model at this tim

Line No.		(1) Number of months at Existing Rate	(2) Number of months at Proposed Rate	(3) Billings (a) LagRate-8 LagRate-11 LagRate-12	(4) Cumulative Percent Increase (b)	(5) FY 2021 COS Rate Adjustment LagRate-14	(6) FY 2022 COS Rate Adjustment LagRate-14	(7) FY 2023 COS Rate Adjustment LagRate-14	(8) FY 2024 COS Rate Adjustment LagRate-14	(9) Adjusted Billings (c) $	(10) Receipts Factor (d) FY 2021 %	(11) FY 2022 %	(12) FY 2023 %	(13) FY 2024 %	(14) Receipts FY 2021 $ (6) x (7)	(15) FY 2022 $	(16) FY 2023 $	(17) FY 2024 $
	SANITARY SEWER CHARGES SERVICE CHARGE																	
	All classes less yyyyyyyyy																	
	Existing Rates																	
1	FY 2021	0.0		45,685,507	100.00%					0	86.68	8.74	1.90		0	0	0	
	Adjusted COS Rates Effective July 1, 2020																	
2	FY 2021		12.0	47,370,951	100.00%	104.39%				49,451,000	86.68	8.74	1.90		42,864,000	4,322,000	940,000	
3	FY 2022		10.0	47,370,951	106.63%	104.39%	105.15%			46,204,000		86.68	8.74	1.90		40,050,000	4,038,000	878,000
4	FY 2023		10.0	47,370,951	111.14%	104.39%	105.15%	#N/A		#N/A			86.68	8.74			#N/A	#N/A
5	FY 2024		10.0	47,370,951	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				86.68				#N/A
	yyyyyyyyyy																	
	Existing Rates																	
6	FY 2021	0.0		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2020																	
7	FY 2021		12.0	0	100.00%	104.39%				0	100.00	0.00	0.00		0			
8	FY 2022		10.0	0	106.63%	104.39%	105.15%			0		100.00	0.00	0.00		0		
9	FY 2023		10.0	0	111.14%	104.39%	105.15%	#N/A		#N/A			100.00	0.00			#N/A	
10	FY 2024		10.0	0	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				100.00				#N/A

	VOLUME CHARGE																	
	All classes less yyyyyyyyy																	
	Existing Rates																	
11	FY 2021	0.5		176,047,192	100.00%					7,335,000	86.68	8.74	1.90		6,358,000	641,000	139,000	
	Adjusted COS Rates Effective July 1, 2020									(j)								
12	FY 2021		11.50	185,362,026	100.00%	104.39%				185,437,000	86.68	8.74	1.90		160,737,000	16,207,000	3,523,000	
13	FY 2022	2.5	9.50	183,498,024	106.63%	104.39%	105.15%			209,937,000		86.68	8.74	1.90		181,973,000	18,348,000	3,989,000
14	FY 2023	2.5	9.50	181,643,181	111.14%	104.39%	105.15%	#N/A		#N/A			86.68	8.74			#N/A	#N/A
15	FY 2024	2.5	9.50	179,788,504	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				86.68				#N/A
	yyyyyyyyy																	
	Existing Rates																	
16	FY 2021	0.5		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2020									(j)								
17	FY 2021		11.50	0	100.00%	104.39%				0	100.00	0.00	0.00		0			
18	FY 2022	2.5	9.50	0	106.63%	104.39%	105.15%			0		100.00	0.00	0.00		0		
19	FY 2023	2.5	9.50	0	111.14%	104.39%	105.15%	#N/A		#N/A			100.00	0.00			#N/A	
20	FY 2024	2.5	9.50	0	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				100.00				#N/A
	SURCHARGE RATES																	
	Existing Rates																	
21	FY 2021	0.0		4,862,000	100.00%					0	86.68	8.74	1.90		0	0	0	
	Adjusted COS Rates Effective July 1, 2020																	
22	FY 2021 (g)		12.0	5,300,434	100.00%	104.39%				5,533,000	86.68	8.74	1.90		4,796,000	484,000	105,000	
23	FY 2022		10.0	5,300,434	106.63%	104.39%	105.15%			5,170,000		86.68	8.74	1.90		4,481,000	452,000	98,000
24	FY 2023		10.0	5,300,434	111.14%	104.39%	105.15%	#N/A		#N/A			86.68	8.74			#N/A	#N/A
25	FY 2024		10.0	5,300,434	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				86.68				#N/A
				(k)						(i)								
26	FY 2019 Billings (h)			230,887,000	100.00%					230,887,000	1.90				4,387,000			
27	FY 2020 Billings (h)			231,050,000	100.00%					231,050,000	8.74	1.90			20,194,000	4,390,000		
	STORMWATER CHARGES BILLING & COLLECTION CHARGE																	
	Non SW Only																	
	Existing Rates																	
28	FY 2021	0.0		10,868,374	100.00%					0	86.68	8.74	1.90		0	0	0	
	Adjusted COS Rates Effective July 1, 2020									(j)								
29	FY 2021		12.0	11,682,758	100.00%	104.39%				12,196,000	86.68	8.74	1.90		10,571,000	1,066,000	232,000	
30	FY 2022	2.0	10.0	11,682,650	106.63%	104.39%	105.15%			13,427,000		86.68	8.74	1.90		11,639,000	1,174,000	255,000
31	FY 2023	2.0	10.0	11,682,541	111.14%	104.39%	105.15%	#N/A		#N/A			86.68	8.74			#N/A	#N/A
32	FY 2024	2.0	10.0	11,682,433	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				86.68				#N/A
	SW Only																	
	Existing Rates																	
33	FY 2021	0.0		1,178,493	100.00%					0	63.19	7.88	6.57		0	0	0	
	Adjusted COS Rates Effective July 1, 2020									(j)								
34	FY 2021		12.0	1,266,799	100.00%	104.39%				1,322,000	63.19	7.88	6.57		835,000	104,000	87,000	
35	FY 2022	2.0	10.0	1,265,861	106.63%	104.39%	105.15%			1,455,000		63.19	7.88	6.57		919,000	115,000	96,000
36	FY 2023	2.0	10.0	1,264,924	111.14%	104.39%	105.15%	#N/A		#N/A			63.19	7.88			#N/A	#N/A
37	FY 2024	2.0	10.0	1,263,986	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				63.19				#N/A
	xxxxxxxxxx																	
	Existing Rates																	
38	FY 2021	0.0		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2020									(j)								
39	FY 2021		12.0	0	100.00%	104.39%				0	100.00	0.00	0.00		0			
40	FY 2022	2.0	10.0	0	106.63%	104.39%	105.15%			0		100.00	0.00	0.00		0		
41	FY 2023	2.0	10.0	0	111.14%	104.39%	105.15%	#N/A		#N/A			100.00	0.00			#N/A	
42	FY 2024	2.0	10.0	0	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				100.00				#N/A

PARCEL AREA CHARGE

	Non SW Only																		
	Existing Rates																		
43	FY 2021	0.5		157,952,009	100.00%					6,581,000	86.68	8.74	1.90		5,704,000	575,000	125,000		
	Adjusted COS Rates Effective July 1, 2020									(j)									
44	FY 2021		11.50	161,064,283	100.00%	104.39%				161,129,000	86.68	8.74	1.90		139,667,000	14,083,000	3,061,000		
45	FY 2022	2.5	9.50	160,233,970	106.63%	104.39%	105.15%			183,321,000		86.68	8.74	1.90		158,903,000	16,022,000	3,483,000	
46	FY 2023	2.5	9.50	159,092,859	111.14%	104.39%	105.15%	#N/A		#N/A			86.68	8.74			#N/A	#N/A	
47	FY 2024	2.5	9.50	157,996,056	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				86.68				#N/A	
	SW Only																		
	Existing Rates																		
48	FY 2021	0.5		15,476,776	100.00%					645,000	63.19	7.88	6.57		408,000	51,000	42,000		
	Adjusted COS Rates Effective July 1, 2020									(j)									
49	FY 2021		11.50	15,169,996	100.00%	104.39%				15,176,000	63.19	7.88	6.57		9,590,000	1,196,000	997,000		
50	FY 2022	2.5	9.50	15,002,848	106.63%	104.39%	105.15%			17,164,000		63.19	7.88	6.57		10,846,000	1,353,000	1,128,000	
51	FY 2023	2.5	9.50	14,771,190	111.14%	104.39%	105.15%	#N/A		#N/A			63.19	7.88			#N/A	#N/A	
52	FY 2024	2.5	9.50	14,541,975	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				63.19				#N/A	
	xxxxxxxxxx																		
	Existing Rates																		
53	FY 2021	0.5		0	100.00%					0	100.00	0.00	0.00		0				
	Adjusted COS Rates Effective July 1, 2020									(j)									
54	FY 2021		11.50	0	100.00%	104.39%				0	100.00	0.00	0.00		0				
55	FY 2022	2.5	9.50	0	106.63%	104.39%	105.15%			0		100.00	0.00	0.00		0			
56	FY 2023	2.5	9.50	0	111.14%	104.39%	105.15%	#N/A		#N/A			100.00	0.00			#N/A		
57	FY 2024	2.5	9.50	0	115.67%	104.39%	105.15%	#N/A	0.00%	#N/A				100.00				#N/A	
										(i)									
58	FY 2019 Billings - Non SW Only			164,693,424	100.00%					164,693,424	1.90				3,129,000				
59	FY 2020 Billings - Non SW Only			168,296,946	100.00%					168,296,946	8.74	1.90			14,709,000	3,198,000			
60	FY 2019 Billings - SW Only			16,447,926	100.00%					16,447,926	6.57				1,081,000				
61	FY 2020 Billings - SW Only			16,685,671	100.00%					16,685,671	7.88	6.57			1,315,000	1,096,000			
62	Total Receipts														426,345,000	456,224,000	#N/A	#N/A	
															FY 2021	FY 2022	FY 2023	FY 2024	
													Required Receipts		426,319,645	446,822,021	#N/A		0

(a) Billings under Adjusted COS Rates reflect an adjustment of 0.00%

(b) Adjusted billings under existing rates should reflect proposed increases in effect prior to the test year. Adjusted billings under COS rates should reflect proposed increases after the test ye

(c) Adjusted service charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustm
Test year adjusted volume charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment. For each year after the test year, the adjusted volume charge bi
rates time the previous year's billings times the previous year's cumulative percent increase plus the number of months at COS rates times billings times the cumulative percent increase times the COS rate adjustr
Adjusted billings for FY 2019 and FY 2020 are equal to the billings times the cumulative percent increase times the 0.00% billings adjustme

(d) Receipts Factor from Financial Planning Mode

(e) Not used.

(f) Not used.

(g)

	New Rate	Pounds	Billings
BOD	0.4290	10,650,000	4,568,850
SS	0.4480	1,633,000	731,584
		Total	5,300,434

(h) Adjusted Total Less yyyyyyyyy

(i) Column (3) times (1- BILLADJ) or (1-0.00000)

(j) FY 2022 Adjusted Billings include 9.5 months at FY 2022 rates and 2.5 months at FY 2021 rates; FY 2023 Adjusted Billings include 9.5 months at FY 2023 rates and 2.5 months at FY 2022 rates; and FY 2024 Adjusted Billings include 9.5 months at FY 2024 rates and 2.5 months at FY 2023

(k)

FY 2019 Billings	226,188,023	plus	4,698,732	230,887,000
FY 2020 Billings	226,190,835	plus	4,859,000	231,050,000

File: SCOS19_21_ver3_rates.xls TYRECPTS - Test Year Receipts with Lag	Philadelphia Water Department (PWD) P.N. 135647.0100	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE February 07, 2020 3:February 07, 2020 3:50 p.m.	Test Year 2021	Budget Yr 2019	Ver. 1a LagRate-14

	Percent Increase in Rates Required:		(0.000122)	(0.050906)	#N/A		#N/A	
			0.999878	0.949094	#N/A		#N/A	
	Adjustment Factors ==>	**USE:**	1.043900 (a)	1.051500 (a)	#N/A (a)		(a)	
Reference:			FY 2021 $	FY 2022 $	FY 2023 $		FY 2024 $	
LagRate-13	Total Receipts		426,345,000	456,224,000	#N/A		#N/A	
	Requirements:							
	COS		466,979,407	489,603,783	508,797,113			
	Less Wholesale Customers (Including Mgmt Fee							
LagRate-19	Under Old Rates		LagRate-19a			LagRate-13		
	Under New Rates		(42,663,000)	(44,785,000)	#N/A	* 4.2282%		
	Plus_ CAP		2,003,238	2,003,238	#N/A			
	Total Requirements		426,319,645	446,822,021	#N/A		0	
	Revenue Surplus/(Deficiency		25,355	9,401,979	#N/A		#N/A	
	Total Increasable Receipts		208,397,000	184,694,231	#N/A		#N/A	
	ADJUSTMENT FACTOR REQUIRED		-0.0122% 0.01%	-5.0906%	#N/A		#N/A	
			Test Year FY 2021 Receipts of Test Year FY 2021 Billings $	Test Year FY 2022 Receipts of Test Year FY 2022 Billings $	Test Year FY 2023 Receipts of Test Year FY 2023 Billings $		Test Year FY 2024 Receipts of Test Year FY 2024 Billings $	
	General Customers							
LagRate-13	Service Charge		42,864,000	40,050,000	#N/A		#N/A	
LagRate-13	Volume Charge		167,095,000	181,973,000	#N/A		#N/A	
	Total General Customers		209,959,000	222,023,000	#N/A		#N/A	
	yyyyyyyyyy							
LagRate-13	Service Charge		0	0	#N/A		#N/A	
LagRate-13	Volume Charge		0	0	#N/A		#N/A	
	Total yyyyyyyyyy		0	0	#N/A		#N/A	
LagRate-13	Surcharge		4,796,000	4,481,000	#N/A		#N/A	
	Total		214,755,000	226,504,000	#N/A		#N/A	

(a) This factor is determined by trial and error until the ADJUSTMENT FACTOR REQUIRED below becomes zero. Keep multiplyi
this factor by the factor in the highlighted cell above until the ADJUSTMENT FACTOR REQUIRED is as close to zero as possibl

(1)	(2)	(3)	(4)	(5)				
Meter Size inches	Meter Code	Lag Factor % LagRate-14	General Service Service Charge $/Bill LagRate-2 x Col. (3)	Discount Service Charge (a) $/Bill Col. (4) x (1-25%)	Existing Rates	Existing Rates		
5/8	R	104.4%	7.61	5.71	7.01	5.26	108.56%	108.56%
3/4	Z	104.4%	9.75	7.31	8.93	6.70	109.18%	109.10%
1	Q	104.4%	14.36	10.77	13.07	9.80	109.87%	109.90%
1-1/4	Y	104.4%	20.26	15.20	18.37	13.78	110.29%	110.30%
1-1/2	P	104.4%	25.40	19.05	22.97	17.23	110.58%	110.56%
2	X	104.4%	39.23	29.42	35.42	26.57	110.76%	110.73%
3	O	104.4%	70.85	53.14	63.82	47.87	111.02%	111.01%
4	W	104.4%	120.31	90.23	108.49	81.37	110.90%	110.89%
6	N	104.4%	237.29	177.97	213.81	160.36	110.98%	110.98%
8	V	104.4%	375.66	281.75	338.27	253.70	111.05%	111.06%
10	E	104.4%	542.09	406.57	488.25	366.19	111.03%	111.03%
12	T	104.4%	986.67	740.00	887.22	665.42	111.21%	111.21%
14	H	104.4%	1,039.46	779.60	0.00	0.00	0.00%	0.00%

Monthly Water Usage		Charge Per Mcf LagRate-2 x Col. (3)	Col. (4) x (1-25%)			
General Service Volume Cha	104.4%	33.88	25.41		31.25	108.42%
				discount vol charge	23.44	108.40%

Wastewater Surcharge		Charge $/lb LagRate-2 x Col. (3)		
BOD in excess of 250 mg/l	104.4%	0.448	0.397	112.85%
SS in excess of 350 mg/l	104.4%	0.468	0.388	120.62%

(a) Discount rate applies to Senior Citizens and Charities

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
CTRCTUnits - Contract Service Customers Billing Unit **P.N. 135647.0100** **February 07, 2020 3:February 07, 2020 3:50 p.m.** **LagRate-16**
Reference: Financial Planning Model - Custome

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Abington										
Volume (Mcf)	98,164	96,000	96,000	96,000	96,000	96,000	96,000	96,000	96,000	96,000
Capacity (cfs)	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420
SS (1,000 lbs.)	979	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BOD (1,000 lbs.)	1,423	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
Bensalem										
Volume (Mcf)	178,629	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Capacity (cfs)	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400
SS (1,000 lbs.)	1,666	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
BOD (1,000 lbs.)	1,640	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
Bucks County										
Volume (Mcf)	1,123,541	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
Capacity (cfs)	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600
SS (1,000 lbs.)	9,441	10,300	10,300	10,300	10,300	10,300	10,300	10,300	10,300	10,300
BOD (1,000 lbs.)	9,377	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800
Cheltenham										
Volume (Mcf)	464,162	428,000	428,000	428,000	428,000	428,000	428,000	428,000	428,000	428,000
Capacity (cfs)	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500
SS (1,000 lbs.)	2,985	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400
BOD (1,000 lbs.)	2,597	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Lower Moreland										
Volume (Mcf)	70,412	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
Capacity (cfs)	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800
SS (1,000 lbs.)	706	660	660	660	660	660	660	660	660	660
BOD (1,000 lbs.)	529	500	500	500	500	500	500	500	500	500
Lower Southampton										
Volume (Mcf)	346,766	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Capacity (cfs)	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900
SS (1,000 lbs.)	2,464	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440
BOD (1,000 lbs.)	1,805	1,820	1,820	1,820	1,820	1,820	1,820	1,820	1,820	1,820
DELCORA										
Volume (Mcf)	1,360,421	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Capacity (cfs)	155.0000	155.0000	155.0000	155.0000	155.0000	155.0000	155.0000	155.0000	155.0000	155.0000
SS (1,000 lbs.)	14,044	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400
BOD (1,000 lbs.)	11,103	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000
Lower Merion										
Volume (Mcf)	384,414	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
Capacity (cfs)	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700
SS (1,000 lbs.)	3,992	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700
BOD (1,000 lbs.)	3,439	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
Springfield (ex. Wyndmoor)										
Volume (Mcf)	122,367	128,000	128,000	128,000	128,000	128,000	128,000	128,000	128,000	128,000
Capacity (cfs)	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000
SS (1,000 lbs.)	2,506	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
BOD (1,000 lbs.)	2,441	2,250	2,250	2,250	2,250	2,250	2,250	2,250	2,250	2,250
Upper Darby										
Volume (Mcf)	554,451	490,000	490,000	490,000	490,000	490,000	490,000	490,000	490,000	490,000
Capacity (cfs)	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000
SS (1,000 lbs.)	5,396	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800
BOD (1,000 lbs.)	4,601	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Springfield (Wyndmoor)										
Volume (Mcf)	23,317	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000
Capacity (cfs)	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300
SS (1,000 lbs.)	245	240	240	240	240	240	240	240	240	240
BOD (1,000 lbs.)	187	180	180	180	180	180	180	180	180	180

	2,019
Abington	
Volume ($/Mcf)	1.7634
Capacity ($/cfs)	12,694
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($)	589,167
Management Fee (%)	12
Bensalem	
Volume ($/Mcf)	1.7634
Capacity ($/cfs)	12,694
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($)	92,667
Management Fee (%)	10
Bucks County	
Volume ($/Mcf)	1.7634
Capacity ($/cfs)	12,694
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($	425,667
Management Fee (%)	10
Cheltenham	
Volume ($/Mcf)	1.6548
Capacity ($/cfs)	6,866
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($)	1,490,833
Management Fee (%)	12
Lower Moreland	
Volume ($/Mcf)	1.7634
Capacity ($/cfs)	12,694
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($	331,167
Management Fee (%)	12
Lower Southampton	
Volume ($/Mcf)	1.7634
Capacity ($/cfs)	12,694
SS ($/1,000 lbs.)	219.10
BOD ($/1,000 lbs.)	249.99
Annual Lump Sum ($	1,881,667
Management Fee (%)	12
DELCORA	
Volume ($/Mcf)	1.5497
Capacity ($/cfs)	7,165
SS ($/1,000 lbs.)	194.09
BOD ($/1,000 lbs.)	186.50
Annual Lump Sum ($	1,129,500
Management Fee (%)	12
Lower Merion	
Volume ($/Mcf)	1.6076
Capacity ($/cfs)	7,328
SS ($/1,000 lbs.)	198.22
BOD ($/1,000 lbs.)	187.59
Annual Lump Sum ($	125,500
Management Fee (%)	10
Springfield (ex. Wyndmoor)	
Volume ($/Mcf)	1.8529
Capacity ($/cfs)	9,609
SS ($/1,000 lbs.)	198.22
BOD ($/1,000 lbs.)	187.59
Annual Lump Sum ($	695,500
Management Fee (%)	12
Upper Darby	
Volume ($/Mcf)	1.6076
Capacity ($/cfs)	7,328
SS ($/1,000 lbs.)	198.22
BOD ($/1,000 lbs.)	187.59
Annual Lump Sum ($	42,667
Management Fee (%)	10
Springfield (Wyndmoor)	
Volume ($/Mcf)	2.2871
Capacity ($/cfs)	15,942
SS ($/1,000 lbs.)	293.65
BOD ($/1,000 lbs.)	123.40
Annual Lump Sum ($	138,667
Management Fee (%)	12

RATE DESIGN ADJUSTMENT TO UNIT O&M EXPENSE IN ORDER TO RECOVER COSTS ASSOCIATED WITH I/I WHEN RATES ARE APPLIED

Line No.	Contract Customer	Volume $/Mcf Somallo-40	Unit Costs Capacity $/Mcf/day Somallo-40	Suspended Solids $/1,000 lbs Somallo-40	Bod $/1,000 lbs Somallo-40
	Abington,Bensalem, Bucks County				
	Lower Moreland, and Lower Southamptor				
	Northeast WPCP - Preliminary Treatmen	0.0931	62.8755		
	Northeast WPCP - Other	1.4746	75.7354	223.3896	255.2775
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.5677	138.6109	223.3896	255.2775
	Cheltenham				
	Northeast WPCP	0.0000	0.0000		
	Northeast WPCP - Other	1.4746	75.7354	223.3896	255.2775
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.4746	75.7354	223.3896	255.2775
	DELCORA				
	Southwest WPCP	1.5454	88.1899	230.3566	208.3118
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.5454	88.1899	230.3566	208.3118
	Lower Merion				
	Southwest WPCP	1.5987	90.1978	233.5419	208.7528
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Neill Drive Pumping Statio	0.1047	446.0866		
	CONTRACT ADJUSTMENT	0.0000	0.0000		
	Total	1.7034	536.2844	233.5419	208.7528
	Springfield (less Wyndmoor				
	Southwest WPCP	1.5987	90.1978	233.5419	208.7528
	Central Schuylkill Pumping Statio	0.0161	20.4018		
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.6148	110.5996	233.5419	208.7528
	Upper Darby				
	Southwest WPCP	1.5987	90.1978	233.5419	208.7528
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.5987	90.1978	233.5419	208.7528
	Springfield (Wyndmoor				
	Southeast WPCP	2.4008	208.4546	350.6329	138.4315
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	2.4008	208.4546	350.6329	138.4315

A lag factor is applied to all wholesale customer rates equal to 1.0000
Months in effective test year 12
Months to collect COS: 12
BUT, DELCORA is for 12 months, or an adjustment factor of 1.0000

SUMMARY OF CHARGES FOR WHOLESALE CONTRACT CUSTOMERS EXCLUDING MANAGEMENT FEES

	(1)	(2)	(3)	(4)	(5)
		Unit Costs			
Contract Customers	Annual Lump Sum Cost $ Retcos-10	Volume $/Mcf Above	Capacity (a) $/cfs Above	Suspended Solids $/1,000 lbs Above	BOD $/1,000 lbs Above
Abington	648,000	1.5677	11,976	223.3896	255.2775
Bensalem	91,000	1.5677	11976	223.3896	255.2775
Bucks County (b)	461,000	1.5677	11976	223.3896	255.2775
Cheltenham	1,736,000	1.4746	6,544	223.3896	255.2775
Lower Moreland	377,000	1.5677	11976	223.3896	255.2775
Lower Southampton	2,189,000	1.5677	11976	223.3896	255.2775
DELCORA (e)	2,512,000	1.5454	7,620	230.3566	208.3118
Lower Merion (c)(d)	122,000	1.5987	7,793	233.5419	208.7528
Springfield (less Wyndmoor	773,000	1.6148	9,556	233.5419	208.7528
Upper Darby	41,000	1.5987	7,793	233.5419	208.7528
Springfield (Wyndmoor	134,000	2.4008	18,010	350.6329	138.4315
Total	9,084,000				

(a) Annual Cost
(b) Charges for recovery of costs associated with odor control of Bucks County W&SA wastewate are in addition to the charges shown herein
(c) For flow through City Line Avenue and Presidential Drive connection, an additional co of $0.1047 per Mcf is applicable for costs related to the Neill Drive Pump Station
(d) For contract capacity at the City Line Avenue and Presidential Drive connection, an addition charge of $446.09 per Mcf/day ($38,541.9 per cfs) is applicable to costs related to Neill Drive Pump Statior
(e) DELCORA Unit Costs from Somallo-48 and reflect recovery and strength.

SUMMARY OF EXISTING CHARGES FOR WHOLESALE CONTRACT CUSTOMERS (EXCLUDING MANAGEMENT FEES)

	(1)	(2)	(3)	(4)	(5)
		Unit Costs			
Contract Customers	Annual Lump Sum Cost $ LagRate-16	Volume $/Mcf LagRate-16	Capacity (e) $/cfs LagRate-16	Suspended Solids $/1,000 lbs LagRate-16	BOD $/1,000 lbs LagRate-16
Abington	589,167	1.7634	12,694	219.0959	249.9890
Bensalem	92,667	1.7634	12,694	219.0959	249.9890
Bucks County	425,667	1.7634	12,694	219.0959	249.9890
Cheltenham	1,490,833	1.6548	6,866	219.0959	249.9890
Lower Moreland	331,167	1.7634	12,694	219.0959	249.9890
Lower Southampton	1,881,667	1.7634	12,694	219.0959	249.9890
DELCORA	1,129,500	1.5497	7,165	194.0919	186.4979
Lower Merion (g)(h)	125,500	1.6076	7,328	198.2198	187.5946
Springfield (less Wyndmoor	695,500	1.8529	9,609	198.2198	187.5946
Upper Darby	42,667	1.6076	7,328	198.2198	187.5946
Springfield	138,667	2.2871	15,942	293.6469	123.4025
Total	6,943,002				

(e) Annual Cost
(f) DELCORA Unit Costs reflect recovery of lump sum costs in the unit charges for volume, capacit and strength.
(g) For flow through City Line Avenue and Presidential Drive connection, an additional co of $0.5952 per Mcf is applicable for costs related to the Neill Drive Pump Station
(h) For contract capacity at the City Line Avenue and Presidential Drive connection, an addition charge of $49.72 per Mcf/day ($4,296 per cfs) is applicable to costs related to Neill Drive Pump Statior

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
PRATES - Proposed Contract Rates and Percent Incr. Over Existing Rates **P.N. 135647.0100** **February 07, 2020 3:February 07, 2020 3:50 p.m.** **LagRate-18**

	Reference	Abingtor	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southampton	DELCORA	Lower Merion	Springfield (ex. Wyndmoor)	Upper Darby	Springfield (Wyndmoor)
New Rates												
Volume ($/Mcf)	LagRate-17	1.5677	1.5677	1.5677	1.4746	1.5677	1.5677	1.5454	1.5987	1.6148	1.5987	2.4008
Percent Incr. Over Old Rat	LagRate-16	88.90%	88.90%	88.90%	89.11%	88.90%	88.90%	99.72%	99.45%	87.15%	99.45%	104.97%
Capacity ($/cfs)	LagRate-17	11,976	11,976	11,976	6,544	11,976	11,976	7,620	7,793	9,556	7,793	18,010
Percent Incr. Over Old Rat	LagRate-16	94.34%	94.34%	94.34%	95.31%	94.34%	94.34%	106.35%	106.35%	99.45%	106.35%	112.97%
SS ($/1,000 lbs.)	LagRate-17	223.39	223.39	223.39	223.39	223.39	223.39	230.36	233.54	233.54	233.54	350.63
Percent Incr. Over Old Rat	LagRate-16	101.96%	101.96%	101.96%	101.96%	101.96%	101.96%	118.68%	117.82%	117.82%	117.82%	119.41%
BOD ($/1,000 lbs.)	LagRate-17	255.28	255.28	255.28	255.28	255.28	255.28	208.31	208.75	208.75	208.75	138.43
Percent Incr. Over Old Rat	LagRate-16	102.12%	102.12%	102.12%	102.12%	102.12%	102.12%	111.70%	111.28%	111.28%	111.28%	112.18%
Annual Lump Sum ($	LagRate-17	648,000	91,000	461,000	1,736,000	377,000	2,189,000	2,512,000	122,000	773,000	41,000	134,000
Percent Incr. Over Old Rat	LagRate-16	109.99%	98.20%	108.30%	116.44%	113.84%	116.33%	222.40%	97.21%	111.14%	96.09%	96.63%
Management Fee (%)		12	10	10	12	12	12	12	10	12	10	12

File: SCOS19_21_ver3_rates.xls | **Philadelphia Water Department (PWD)** | **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** | **Test Year** | **2021** | **Budget Yr** | **2019** | **Ver. 1a**
CTRCTANAL1 - Cntrct Serv. Proposed Rates Receipts Analysis - Part 1 | **P.N. 135647.0100** | **February 07, 2020 3:!February 07, 2020 3:50 p.m.** | **LagRate-19**

Reference:

B. Billing Units (LagRate-16) x Percent Increase over existing rates (LagRate-1

Contract Customers	FY 2017 $ Ref. B	FY 2018 $ Ref. B	FY 2019 $ Ref. B	FY 2020 $ Ref. B	FY 2021 $ Ref. B	FY 2022 $ Ref. B	FY 2023 $ Ref. B	FY 2024 $ Ref. B	FY 2025 $ Ref. B	FY 2026 $ Ref. B	Test Year $	FY 2021 Test Year Receipts Under Existing Rates $
	Receipts											
Camden - Ref. A				Tempory wastewater service to Camden ceased in January 199							0	
Abington												
Volume	0	0	0	150,499	150,499	150,499	150,499	150,499	150,499	150,499	150,499	
Capacity	0	0	0	114,275	114,275	114,275	114,275	114,275	114,275	114,275	114,275	
SS	0	0	0	223,390	223,390	223,390	223,390	223,390	223,390	223,390	223,390	
BOD	0	0	0	357,389	357,389	357,389	357,389	357,389	357,389	357,389	357,389	
Annual Lump Sum	0	0	0	648,000	648,000	648,000	648,000	648,000	648,000	648,000	648,000	
Management Fee	0	0	0	179,226	179,226	179,226	179,226	179,226	179,226	179,226	179,226	
Subtotal	1,614,469	1,326,888	1,628,053	1,672,779	1,672,779	1,672,779	1,672,779	1,672,779	1,672,779	1,672,779	1,672,779	1,617,309
Bensalem												
Volume	0	0	0	274,348	274,348	274,348	274,348	274,348	274,348	274,348	274,348	
Capacity	0	0	0	140,598	140,598	140,598	140,598	140,598	140,598	140,598	140,598	
SS	0	0	0	446,779	446,779	446,779	446,779	446,779	446,779	446,779	446,779	
BOD	0	0	0	561,611	561,611	561,611	561,611	561,611	561,611	561,611	561,611	
Annual Lump Sum		0	0	91,000	91,000	91,000	91,000	91,000	91,000	91,000	91,000	
Management Fee	0	0	0	151,434	151,434	151,434	151,434	151,434	151,434	151,434	151,434	
Subtotal	1,925,423	1,944,698	1,464,718	1,665,770	1,665,770	1,665,770	1,665,770	1,665,770	1,665,770	1,665,770	1,665,770	1,686,200
Bucks County												
Volume	0	0	0	1,567,700	1,567,700	1,567,700	1,567,700	1,567,700	1,567,700	1,567,700	1,567,700	
Capacity	0	0	0	889,338	889,338	889,338	889,338	889,338	889,338	889,338	889,338	
SS	0	0	0	2,300,913	2,300,913	2,300,913	2,300,913	2,300,913	2,300,913	2,300,913	2,300,913	
BOD	0	0	0	2,501,720	2,501,720	2,501,720	2,501,720	2,501,720	2,501,720	2,501,720	2,501,720	
Annual Lump Sum (a	0	0	0	461,000	461,000	461,000	461,000	461,000	461,000	461,000	461,000	
Management Fee	0	0	0	772,067	772,067	772,067	772,067	772,067	772,067	772,067	772,067	
Subtotal	7,940,300	9,368,448	8,538,313	8,492,738	8,492,738	8,492,738	8,492,738	8,492,738	8,492,738	8,492,738	8,492,738	8,559,322
Cheltenham												
Volume	0	0	0	631,129	631,129	631,129	631,129	631,129	631,129	631,129	631,129	
Capacity	0	0	0	207,772	207,772	207,772	207,772	207,772	207,772	207,772	207,772	
SS	0	0	0	759,525	759,525	759,525	759,525	759,525	759,525	759,525	759,525	
BOD	0	0	0	765,833	765,833	765,833	765,833	765,833	765,833	765,833	765,833	
Annual Lump Sum	0	0	0	1,736,000	1,736,000	1,736,000	1,736,000	1,736,000	1,736,000	1,736,000	1,736,000	
Management Fee	0	0	0	492,031	492,031	492,031	492,031	492,031	492,031	492,031	492,031	
Subtotal	3,712,261	4,056,591	4,233,906	4,592,290	4,592,290	4,592,290	4,592,290	4,592,290	4,592,290	4,592,290	4,592,290	4,369,394
Lower Moreland												
Volume	0	0	0	101,901	101,901	101,901	101,901	101,901	101,901	101,901	101,901	
Capacity	0	0	0	70,419	70,419	70,419	70,419	70,419	70,419	70,419	70,419	
SS	0	0	0	147,437	147,437	147,437	147,437	147,437	147,437	147,437	147,437	
BOD	0	0	0	127,639	127,639	127,639	127,639	127,639	127,639	127,639	127,639	
Annual Lump Sum	0	0	0	377,000	377,000	377,000	377,000	377,000	377,000	377,000	377,000	
Management Fee	0	0	0	98,928	98,928	98,928	98,928	98,928	98,928	98,928	98,928	
Subtotal	785,757	890,109	915,049	923,324	923,324	923,324	923,324	923,324	923,324	923,324	923,324	886,969
Lower Southampton												
Volume	0	0	0	470,310	470,310	470,310	470,310	470,310	470,310	470,310	470,310	
Capacity	0	0	0	189,101	189,101	189,101	189,101	189,101	189,101	189,101	189,101	
SS	0	0	0	545,071	545,071	545,071	545,071	545,071	545,071	545,071	545,071	
BOD	0	0	0	464,605	464,605	464,605	464,605	464,605	464,605	464,605	464,605	
Annual Lump Sum	0	0	0	2,189,000	2,189,000	2,189,000	2,189,000	2,189,000	2,189,000	2,189,000	2,189,000	
Management Fee	0	0	0	462,970	462,970	462,970	462,970	462,970	462,970	462,970	462,970	
Subtotal	3,540,324	3,763,178	4,126,818	4,321,057	4,321,057	4,321,057	4,321,057	4,321,057	4,321,057	4,321,057	4,321,057	4,160,862

(a) See footnote at bottom of LagRate-19a.

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year** **2021** **Budget Yr** **2019** **Ver. 1a**
CTRCTANAL2 - Cntrct Serv. Proposed Rates Receipts Analysis - Part 2 **P.N. 135647.0100** **February 07, 2020 3:February 07, 2020 3:50 p.m.** **LagRate-19a**

Reference:

B. Billing Units (LagRate-16) x Percent Increase over existing rates (LagRate-18), except FY 2017 through FY 2019 are under existing rate

Contract Customers	Receipts FY 2017 $ Ref. B	FY 2018 $ Ref. B	FY 2019 $ Ref. B	FY 2020 $ Ref. B	FY 2021 $ Ref. B	FY 2022 $ Ref. B	FY 2023 $ Ref. B	FY 2024 $ Ref. B	FY 2025 $ Ref. B	FY 2026 $ Ref. B	FY 2021 Test Year $		FY 2021 Test Year Receipts Under Existing Rates $	
DELCORA														
Volume	0	0	0	1,854,480	1,854,480	1,854,480	1,854,480	1,854,480	1,854,480	1,854,480	1,854,480			
Capacity	0	0	0	1,181,100	1,181,100	1,181,100	1,181,100	1,181,100	1,181,100	1,181,100	1,181,100			
SS	0	0	0	3,086,778	3,086,778	3,086,778	3,086,778	3,086,778	3,086,778	3,086,778	3,086,778			
BOD	0	0	0	2,291,430	2,291,430	2,291,430	2,291,430	2,291,430	2,291,430	2,291,430	2,291,430			
Annual Lump Sum	0	0	0	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000			
Management Fee	0	0	0	1,311,095	1,311,095	1,311,095	1,311,095	1,311,095	1,311,095	1,311,095	1,311,095			
Subtotal	8,274,572	8,839,578	10,242,194	12,236,883	12,236,883	12,236,883	12,236,883	12,236,883	12,236,883	12,236,883	12,236,883		9,799,354	
Lower Merion														
Volume (c)	0	0	0	577,071	577,071	577,071	577,071	577,071	577,071	577,071	577,071			
Capacity (c)	0	0	0	297,325	297,325	297,325	297,325	297,325	297,325	297,325	297,325			
SS	0	0	0	864,105	864,105	864,105	864,105	864,105	864,105	864,105	864,105			
BOD	0	0	0	668,009	668,009	668,009	668,009	668,009	668,009	668,009	668,009			
Annual Lump Sum	0	0	0	122,000	122,000	122,000	122,000	122,000	122,000	122,000	122,000			
Management Fee	0	0	0	252,851	252,851	252,851	252,851	252,851	252,851	252,851	252,851			
Subtotal	2,225,241	2,359,459	2,652,461	2,781,361	2,781,361	2,781,361	2,781,361	2,781,361	2,781,361	2,781,361	2,781,361		2,475,349	
Springfield (less Wyndmoor														
Volume	0	0	0	206,694	206,694	206,694	206,694	206,694	206,694	206,694	206,694			
Capacity	0	0	0	43,958	43,958	43,958	43,958	43,958	43,958	43,958	43,958			
SS	0	0	0	513,792	513,792	513,792	513,792	513,792	513,792	513,792	513,792			
BOD	0	0	0	469,694	469,694	469,694	469,694	469,694	469,694	469,694	469,694			
Annual Lump Sum	0	0	0	773,000	773,000	773,000	773,000	773,000	773,000	773,000	773,000			
Management Fee	0	0	0	240,857	240,857	240,857	240,857	240,857	240,857	240,857	240,857			
Subtotal	1,864,095	1,975,879	2,151,469	2,247,995	2,247,995	2,247,995	2,247,995	2,247,995	2,247,995	2,247,995	2,247,995		2,039,620	
Upper Darby														
Volume	0	0	0	783,363	783,363	783,363	783,363	783,363	783,363	783,363	783,363			
Capacity	0	0	0	272,755	272,755	272,755	272,755	272,755	272,755	272,755	272,755			
SS	0	0	0	1,121,001	1,121,001	1,121,001	1,121,001	1,121,001	1,121,001	1,121,001	1,121,001			
BOD	0	0	0	835,011	835,011	835,011	835,011	835,011	835,011	835,011	835,011			
Annual Lump Sum	0	0	0	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000			
Management Fee	0	0	0	305,313	305,313	305,313	305,313	305,313	305,313	305,313	305,313			
Subtotal	2,442,757	2,559,240	3,435,465	3,358,443	3,358,443	3,358,443	3,358,443	3,358,443	3,358,443	3,358,443	3,358,443		3,041,210	
Springfield (Wyndmoor														
Volume	0	0	0	52,818	52,818	52,818	52,818	52,818	52,818	52,818	52,818			
Capacity	0	0	0	34,759	34,759	34,759	34,759	34,759	34,759	34,759	34,759			
SS	0	0	0	84,152	84,152	84,152	84,152	84,152	84,152	84,152	84,152			
BOD	0	0	0	24,918	24,918	24,918	24,918	24,918	24,918	24,918	24,918			
Annual Lump Sum	0	0	0	134,000	134,000	134,000	134,000	134,000	134,000	134,000	134,000			
Management Fee	0	0	0	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678			
Subtotal	326,765	343,636	355,891	370,325	370,325	370,325	370,325	370,325	370,325	370,325	370,325		346,087	
Total	34,651,963	37,427,704	39,744,336	42,662,965	42,662,965	42,662,965	42,662,965	42,662,965	42,662,965	42,662,965	42,662,965		38,981,674	3,681,291
CHECK	34,651,963	37,427,704	39,744,336									CHECK	38,981,674	

(a) Includes Direct charges to Bucks County for odor control of $0.0 per year
(b) DELCORA Unit Costs reflect recovery of lump sum costs in the unit charges for volume, capacity, and strengt
(c) Includes charges for flow through the City Line Avenue and Presidential Drive connectic

File: SCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
COSCLASS - COS & Adjusted COS by Class **P.N. 135647.0100** **February 07, 2020 3:!February 07, 2020 3:50 p.m.** **LagRate-20**

Line No.	Customer Class	(1) Allocated Cost of Service (a) $ Retcos-17	(2) Discounted COS $	(3) Cost of Service With Discount $ (1) or (2)	(4) Discounts $ (1) - (3)	(5) Recovery of Discounts $	(6) Adjusted Cost of Service $ (3) + (5)	(7) Percent Change ((6) - (1)) / (1)
1	Residential Excluding Senior Citizen	128,959,666		128,959,666	0	3,089,081	132,048,747	2.40%
2	Commercial	53,261,604		53,261,604		1,275,821	54,537,425	2.40%
3	Industrial	2,354,280		2,354,280		56,394	2,410,674	2.40%
4	Public Utilities	358,129		358,129		8,579	366,708	2.40%
5	Senior Citizens	5,841,401	4,381,051	4,381,051	1,460,350	104,943	4,485,994	-23.20%
6	Sewer Only	2,244,913		2,244,913		53,774	2,298,687	2.40%
7	Groundwater	2,754,602		2,754,602		65,983	2,820,585	2.40%
8	Surcharge	5,450,634		5,450,634		130,564	5,581,198	2.40%
9	Housing Authority	5,540,127	5,263,121	5,263,121	277,006	126,072	5,389,193	-2.72%
10	Charities and Schools	5,716,322	4,287,242	4,287,242	1,429,081	102,696	4,389,937	-23.20%
11	Hospitals and Universities	9,434,347	7,075,760	7,075,760	2,358,587	169,492	7,245,252	-23.20%
12	Hand Bill	13,982,130		13,982,130		334,926	14,317,056	2.40%
13	xxxxxxxxxx	0		0		0	0	0.00%
14	Water Treatment Plant Sludge	14,732,296		14,732,296			14,732,296	0.00%
15	Private Fire Connections	279,222		279,222		6,688	285,910	2.40%
16	Scheduled (Flat Rate)	457		457		11	468	2.40%
17	yyyyyyyyyy	0		0	0	0	0	0.00%
18	Total Retail Service	250,910,130	21,007,173	245,385,106	5,525,024	5,525,024	250,910,130	0.00%
19								
20	Contract Service	42,655,136		42,655,136	0		42,655,136	0.00%
21	Total System	293,565,266	21,007,173	288,040,242	5,525,024	5,525,024	293,565,266	0.00%

(a) Includes allocation of I/

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS
Test Year 2021

	(1) Allocated Investment $	(2) Allocated Depreciable Investment $	(3) O&M Expense $	(4) Depreciation Expense (b) $	(5) Return on Investment (c) $	(6) Management Fee $	(7) Allocated Cost of Service $	FY 2021 Test Year Receipts Under Proposed Rates $	Difference $	
	Retcos-11	Retcos-11	Retcos-11	Retcos-11	Retcos-11	Rates-7				
Abington	5,653,000	5,637,000	938,000	134,620	423,975	179,179	1,675,774	1,672,779	2,995	
Bensalem	8,926,000	8,897,000	1,513,000	(a)	(a)	151,434	1,664,434	1,665,770	(1,336)	
Bucks County	27,974,000	27,877,000	7,333,000	96,125	288,375	772,020	8,489,520	8,492,738	(3,218)	Direct Chemical Costs
Cheltenham	14,650,000	14,611,000	2,654,000	346,590	1,098,750	492,080	4,591,420	4,592,290	(870)	
DELCORA	57,251,000	57,111,000	9,380,000	340,430	1,207,425	1,311,098	12,238,953	12,236,883	2,070	
Lower Merion	15,528,000	15,485,000	2,535,000	(a)	(a)	252,851	2,787,851	2,781,361	6,490	
Lower Moreland	2,998,000	2,991,000	531,000	68,875	224,850	98,904	923,629	923,324	305	
Lower Southampton	20,881,000	20,847,000	2,160,000	386,416	1,305,063	463,019	4,314,498	4,321,057	(6,559)	
Springfield (excl. Wyndmoor	6,480,000	6,466,000	1,358,000	152,870	486,000	240,843	2,237,713	2,247,995	(10,282)	
Springfield (Wyndmoor	1,150,000	1,149,000	217,000	27,070	86,250	39,713	370,033	370,325	(292)	
Upper Darby	15,468,000	15,422,000	3,056,000	(a)	(a)	305,311	3,361,311	3,358,443	2,868	
Total	176,959,000	176,493,000	31,675,000	1,552,996	5,120,688	4,306,452	42,655,136	42,662,965	(7,829)	

(a) It is assumed that Bensalem, Bucks County, DELCORA, Lower Merion, Lower Southampton, and Upper Darby contribute the entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investme
(b) Treatment Plant depreciation rate = 2.50%
(c) Outside City rate of return = 7.50%

COMPARISON OF TEST YEAR COSTS OF SERVICE AND ADJUSTED COST OF SERVICE WITH REVENUES UNDER EXISTING RATES TEST YEAR 2021

Line No.	Customer Class	(1) Revenue Under Existing Rates (a) $	(2) Allocated Cost of Service $ Retcos-17	(3) Adjusted Cost of Service $ LagRate-20	(4) Indicated Increase (Decrease) Required % (3)/(1)-1
1	Residential Excluding Senior Citizen	125,151,685	128,959,666	132,048,747	5.5
2	Commercial	51,703,312	53,261,604	54,537,425	5.5
3	Industrial	2,302,629	2,354,280	2,410,674	4.7
4	Public Utilities	346,359	358,129	366,708	5.9
5	Senior Citizens	4,251,050	5,841,401	4,485,994	5.5
6	Housing Authority	5,111,145	5,540,127	5,389,193	5.4
7	Charities and Schools	4,152,347	5,716,322	4,389,937	5.7
8	Hospitals and Universities	6,879,346	9,434,347	7,245,252	5.3
9	Hand Bill	13,591,478	13,982,130	14,317,056	5.3
10	xxxxxxxxxx	0	0	0	0.0
11	Fire Meters	243,453	279,222	285,910	17.4
12	Scheduled (Flat Rate)	587	457	468	(20.2)
13	yyyyyyyyyy	0	0	0	0.0
14	Sewer Only	2,181,028	2,244,913	2,298,687	5.4
15	Groundwater	2,967,926	2,754,602	2,820,585	(5.0)
16	Surcharge	4,862,000	5,450,634	5,581,198	14.8
17	Total Retail Service	223,744,345	236,177,834	236,177,834	5.6
18	Contract Service	38,981,674	42,655,136	42,655,136	9.4
19	Total System	262,726,019	278,832,970	278,832,970	6.1

(a) Test Year Revenues under existing rates

Receipts Factor (RECPTS)		1.90	8.74	86.68	
		Billings Under Existing Rate			
		2019 Billings LagRate-4	2020 Billings LagRate-4	2021 Billings LagRate-4	**Receipts**
Residential (excluding Senior Citizens		130,350,019	129,866,835	128,431,787	125,151,685
Commercial		52,485,247	53,183,148	53,135,539	51,703,312
Industrial		3,255,061	2,346,373	2,348,534	2,302,629
Public Utilities		343,160	355,752	356,191	346,359
Senior Citizens		4,534,724	4,413,041	4,359,934	4,251,050
Housing Authority		5,245,646	5,240,042	5,253,228	5,111,145
"N" Charities		4,260,897	4,256,905	4,267,808	4,152,347
"6 Cent" Charities		6,970,989	7,052,825	7,072,544	6,879,346
Hand Bill		13,291,607	13,943,208	13,982,812	13,591,478
xxxxxxxxxx		0	0	0	0
Fire Meters		261,362	249,283	250,000	243,453
Scheduled (Flat Rate)		645	601	602	587
yyyyyyyyyy		0	0	0	0 <=== **No lag is applied to City billings.**
Sewer Only		2,094,962	2,238,205	2,244,583	2,181,028
Ground Water Charges		3,093,702	3,044,617	3,049,200	2,967,926
Townships (LagRate-19a)		37,427,704	39,744,336	38,981,674	38,981,674
Total (excluding Surcharge)		263,615,727	265,935,171	263,734,436	257,864,019
Surcharge (above)				224,752,762	4,862,000
Total					262,726,019
Total Per Cash Flow					437,910,089 Not including stormwater revenu
Cash Flow Total Less This Page Total					175,184,070
Percent Error of Cash Flow Total					40.0%

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
CTRCTREVCOM - Comparison of Contract Revenues Under Existing Rates and Adjusted Rate	P.N. 135647.0100	February 07, 2020 3:50 p.m.			LagRate-23

COMPARISON OF CONTRACT SERVICE REVENUE UNDER EXISTING AND ADJUSTED RATES TEST YEAR 2021

	(1)	(2)	(3)	(4)	(5)	(6)
		Existing Rates		Adjusted Rates		
	Units of Service	Unit Charge $/unit	Revenue $	Unit Charge $/unit	Revenue $	Revenue Difference $
	Rates-6	LagRate-16	(1) x (2)	LagRate-17	(1) x (4)	(5) - (3)
Abington						
O&M Charges						
Volume (Mcf)	96,000	1.7634	169,286	1.5677	150,499	(18,787)
Capacity (cfs)	9.5420	12,694	121,126	11,976	114,275	(6,851)
Suspended Solids (1,000 lbs)	1,000	219.10	219,096	223.39	223,390	4,294
BOD (1,000 lbs)	1,400	249.99	349,985	255.28	357,389	7,404
Subtotal			859,493		845,553	(13,940)
Lump Sum Charge		589,167	589,167	648,000	648,000	58,833
Management Fee		12%	173,839	12%	179,226	5,387
Total Service Charge			1,622,499		1,672,779	50,280
Bensalem						
O&M Charges						
Volume (Mcf)	175,000	1.7634	308,595	1.5677	274,348	(34,247)
Capacity (cfs)	11.7400	12,694	149,028	11,976	140,598	(8,430)
Suspended Solids (1,000 lbs)	2,000	219.10	438,192	223.39	446,779	8,587
BOD (1,000 lbs)	2,200	249.99	549,976	255.28	561,611	11,635
Subtotal			1,445,791		1,423,336	(22,455)
Lump Sum Charge		92,667	92,667	91,000	91,000	(1,667)
Management Fee		10%	153,846	10%	151,434	(2,412)
Total Service Charge			1,692,304		1,665,770	(26,534)
Bucks County						
O&M Charges						
Volume (Mcf)	1,000,000	1.7634	1,763,400	1.5677	1,567,700	(195,700)
Capacity (cfs)	74.2600	12,694	942,656	11,976	889,338	(53,318)
Suspended Solids (1,000 lbs)	10,300	219.10	2,256,688	223.39	2,300,913	44,225
BOD (1,000 lbs)	9,800	249.99	2,449,892	255.28	2,501,720	51,828
Subtotal			7,412,636		7,259,671	(152,965)
Lump Sum Charge (a)		425,667	425,667	461,000	461,000	35,333
Management Fee		10%	783,830	10%	772,067	(11,763)
Total Service Charge			8,622,133		8,492,738	(129,395)
Cheltenham						
O&M Charges						
Volume (Mcf)	428,000	1.6548	708,254	1.4746	631,129	(77,125)
Capacity (cfs)	31.7500	6,866	217,996	6,544	207,772	(10,224)
Suspended Solids (1,000 lbs)	3,400	219.10	744,926	223.39	759,525	14,599
BOD (1,000 lbs)	3,000	249.99	749,967	255.28	765,833	15,866
Subtotal			2,421,143		2,364,259	(56,884)
Lump Sum Charge		1,490,833	1,490,833	1,736,000	1,736,000	245,167
Management Fee		12%	469,437	12%	492,031	22,594
Total Service Charge			4,381,413		4,592,290	210,877
Lower Moreland						
O&M Charges						
Volume (Mcf)	65,000	1.7634	114,621	1.5677	101,901	(12,720)
Capacity (cfs)	5.8800	12,694	74,641	11,976	70,419	(4,222)
Suspended Solids (1,000 lbs)	660	219.10	144,603	223.39	147,437	2,834
BOD (1,000 lbs)	500	249.99	124,995	255.28	127,639	2,644
Subtotal			458,860		447,396	(11,464)
Lump Sum Charge		331,167	331,167	377,000	377,000	45,833
Management Fee		12%	94,803	12%	98,928	4,125
Total Service Charge			884,830		923,324	38,494
Lower Southampton						
O&M Charges						
Volume (Mcf)	300,000	1.7634	529,020	1.5677	470,310	(58,710)
Capacity (cfs)	15.7900	12,694	200,438	11,976	189,101	(11,337)
Suspended Solids (1,000 lbs)	2,440	219.10	534,594	223.39	545,071	10,477
BOD (1,000 lbs)	1,820	249.99	454,980	255.28	464,605	9,625
Subtotal			1,719,032		1,669,087	(49,945)
Lump Sum Charge		1,881,667	1,881,667	2,189,000	2,189,000	307,333
Management Fee		12%	432,084	12%	462,970	30,886
Total Service Charge			4,032,783		4,321,057	288,274

(a) Includes charges for recovery of costs associated with odor control of Bucks County wastewater
(b) Includes charges for flow through the City Line Avenue and Presidential Drive connectio

	(7)	(8)	(9)	(10)	(11)	(12)
		Existing Rates		Adjusted Rates		
	Units of Service	Unit Charge $/unit	Revenue $	Unit Charge $/unit	Revenue $	Revenue Difference $
	Ref. A	LagRate-16	(7) x (8)	LagRate-17	(7) x (10)	(11) - (9)
DELCORA						
O&M Charges						
Volume (Mcf)	1,200,000	1.5497	1,859,640	1.5454	1,854,480	(5,160)
Capacity (cfs)	155.0000	7,165	1,110,575	7,620	1,181,100	70,525
Suspended Solids (1,000 lbs)	13,400	194.09	2,600,831	230.36	3,086,778	485,947
BOD (1,000 lbs)	11,000	186.50	2,051,477	208.31	2,291,430	239,953
Subtotal			7,622,523		8,413,788	791,265
Lump Sum Charge		1,129,500	1,129,500	0	0	(1,129,500)
Management Fee		12%	1,050,243	12%	1,009,655	(40,588)
Total Service Charge			9,802,266		9,423,443	(378,823)
Lower Merion						
O&M Charges						
Volume (Mcf) (b)	360,000	1.6076	578,736	1.5987	577,071	(1,665)
Capacity (cfs) (b)	31.5700	7,328	231,345	7,793	297,325	65,980
Suspended Solids (1,000 lbs)	3,700	198.22	733,413	233.54	864,105	130,692
BOD (1,000 lbs)	3,200	187.59	600,303	208.75	668,009	67,706
Subtotal			2,143,797		2,406,510	262,713
Lump Sum Charge		125,500	125,500	122,000	122,000	(3,500)
Management Fee		10%	226,930	10%	252,851	25,921
Total Service Charge			2,496,227		2,781,361	285,134
Springfield (less Wyndmoor						
O&M Charges						
Volume (Mcf)	128,000	1.8529	237,171	1.6148	206,694	(30,477)
Capacity (cfs)	4.6000	9,609	44,201	9,556	43,958	(243)
Suspended Solids (1,000 lbs)	2,200	198.22	436,084	233.54	513,792	77,708
BOD (1,000 lbs)	2,250	187.59	422,088	208.75	469,694	47,606
Subtotal			1,139,544		1,234,138	94,594
Lump Sum Charge		695,500	695,500	773,000	773,000	77,500
Management Fee		12%	220,205	12%	240,857	20,652
Total Service Charge			2,055,249		2,247,995	192,746
Upper Darby						
O&M Charges						
Volume (Mcf)	490,000	1.6076	787,724	1.5987	783,363	(4,361)
Capacity (cfs)	35.0000	7,328	256,480	7,793	272,755	16,275
Suspended Solids (1,000 lbs)	4,800	198.22	951,455	233.54	1,121,001	169,546
BOD (1,000 lbs)	4,000	187.59	750,378	208.75	835,011	84,633
Subtotal			2,746,037		3,012,130	266,093
Lump Sum Charge		42,667	42,667	41,000	41,000	(1,667)
Management Fee		10%	278,870	10%	305,313	26,443
Total Service Charge			3,067,574		3,358,443	290,869
Springfield (Wyndmoor						
O&M Charges						
Volume (Mcf)	22,000	2.2871	50,316	2.4008	52,818	2,502
Capacity (cfs)	1.9300	15,942	30,768	18,010	34,759	3,991
Suspended Solids (1,000 lbs)	240	293.65	70,475	350.63	84,152	13,677
BOD (1,000 lbs)	180	123.40	22,212	138.43	24,918	2,706
Subtotal			173,771		196,647	22,876
Lump Sum Charge		138,667	138,667	134,000	134,000	(4,667)
Management Fee		12%	37,493	12%	39,678	2,185
Total Service Charge			349,931		370,325	20,394
Total Contract Service Revenue			39,007,209		39,849,525	842,316

Reference: Retcos-17
LagRate-21

WASTEWATER SYSTEM
COST OF SERVICE
TEST YEAR 2021

Line No.	Customer Class	(1) Operation and Maintenance Expense (a) $	(2) Capital Cost (a) $	(3) Total Cost of Service $
1	Residential Excluding Senior Citizen	94,759,195	34,200,471	128,959,666
2	Commercial	37,722,923	15,538,681	53,261,604
3	Industrial	1,661,414	692,866	2,354,280
4	Public Utilities	253,068	105,061	358,129
5	Senior Citizens	4,338,010	1,503,391	5,841,401
6	Housing Authority	3,944,375	1,595,752	5,540,127
7	Charities and Schools	4,032,920	1,683,402	5,716,322
8	Hospitals & Universities	6,621,154	2,813,193	9,434,347
9	Hand Billed	9,807,392	4,174,738	13,982,130
10	xxxxxxxxxx	0	0	0
11	Private Fire Connections	197,052	82,170	279,222
12	Scheduled (Flat Rate)	346	111	457
13	yyyyyyyyyy	0	0	0
14	Sewer Only	1,574,738	670,175	2,244,913
15	Groundwater	1,828,846	925,756	2,754,602
16	Surcharge	4,634,656	815,978	5,450,634
17	Total Retail Service	171,376,089	64,801,745	236,177,834
18				
19	Contract Service	31,675,000	10,980,136	42,655,136
20	Total System	203,051,089	75,781,881	278,832,970

(a) Total cost of service excludes costs associated with water treatment

Water Treatment Plant Sludge	11,098,069	3,634,227	14,732,296
Cost of Service to be Derived from Rates	214,149,158	79,416,108	293,565,266

PROPOSED WASTEWATER RATES FOR GENERAL SERVICE

Service Charge

Meter Size inches	Monthly Charge $
5/8	7.61
3/4	9.75
1	14.36
1 1/4	20.26
1 1/2	25.40
2	39.23
3	70.85
4	120.31
6	237.29
8	375.66
10	542.09
12	986.67

Quantity Charge

Monthly Water Usage	Charge Per Mcf $
All billable water usag	33.88
Groundwater Charge	13.08

Surcharge Rates

BOD ($/lb in excess of 250 mg/l	0.448
SS ($/lb in excess of 350 mg/l	0.468

Mcf - thousand cubic fee
mg/l - milligrams per lite

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
TYPBILLS - Typical Bills for Water and Wastewater	P.N. 135647.0100	February 07, 2020 3:!February 07, 2020 3:50 p.m.					LagRate-26

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)			
		Existing Charge				Proposed Charge							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
5/8	0.0	5.21	7.01	15.80	28.02	5.08	7.61	17.79	30.48	8.8	-2.50%	8.56%	12.61%
5/8	0.2	14.17	13.26	15.80	43.23	14.79	14.39	17.79	46.97	8.7	4.40%	8.49%	12.61%
5/8	0.3	18.65	16.39	15.80	50.84	19.65	17.77	17.79	55.22	8.6	5.37%	8.48%	12.61%
5/8	0.4	23.13	19.51	15.80	58.44	24.51	21.16	17.79	63.46	8.6	5.96%	8.47%	12.61%
5/8	0.5	27.61	22.64	15.80	66.05	29.37	24.55	17.79	71.71	8.6	6.36%	8.46%	12.61%
5/8	0.6	32.09	25.76	15.80	73.65	34.22	27.94	17.79	79.95	8.6	6.64%	8.45%	12.61%
5/8	0.7	36.57	28.89	15.80	81.26	39.08	31.33	17.79	88.20	8.5	6.86%	8.45%	12.61%
5/8	0.8	41.05	32.01	15.80	88.86	43.94	34.71	17.79	96.44	8.5	7.03%	8.45%	12.61%
5/8	1.7	81.37	60.14	15.80	157.31	87.65	65.21	17.79	170.65	8.5	7.72%	8.43%	12.61%
5/8	2.7	121.80	91.39	15.80	228.99	132.09	99.09	17.79	248.97	8.7	8.45%	8.43%	12.61%
5/8	3.3	144.94	110.14	15.80	270.87	157.69	119.41	17.79	294.90	8.9	8.80%	8.43%	12.61%

Meter Size inches	FY 2021 Existing $/Bill	FY 2021 Proposed $/Bill	
	File: WCOS19_21_ver3_ra	VCOS19_21_ver3_rates.xls	
	LagRate-2	LagRate-13	
5/8	5.21	5.08	97.5%
3/4	5.55	5.40	97.3%
1	6.70	6.47	96.6%
1-1/4	8.05	7.74	96.1%
1-1/2	8.88	8.51	95.8%
2	12.32	11.73	95.2%
3	19.44	18.37	94.5%
4	35.39	33.60	94.9%
6	66.29	62.74	94.6%
8	100.66	95.03	94.4%
10	147.50	139.39	94.5%
12	239.52	224.76	93.8%

Monthly Water Usage	$/Mcf	$/Mcf	
First 2 Mcf	44.80	48.57	108.4%
Next 98 Mcf	38.56	42.67	110.7%
Next 1,900 Mcf	29.88	33.07	110.7%
Over 2,000 Mcf	29.06	32.17	110.7%

File: SCOS19_21_ver3_rates.xls XXXXXX - PAGE NOT IN USE	Philadelphia Water Department (PWD) P.N. 135647.0100	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE February 07, 2020 3:: February 07, 2020 3:50 p.m.	Test Year	2021	Budget Yr	2019	Ver. 1a LagRate-27

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File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
PHRATESTABLE - Four Years of Phased Rates (No trending) | P.N. 135647.0100 | February 07, 2020 3:February 07, 2020 3:50 p.m. | LagRate-31

Sewer Rates

(1) Meter Size inches	(2) Meter Code	(3) 2021 General Service Service Charge $/Bill LagRate-30	(4) 2021 Discount Service Charge (a) $/Bill Col. (3) x (1-25%)	(5) 2022 General Service Service Charge $/Bill LagRate-30	(6) 2022 Discount Service Charge (a) $/Bill Col. (5) x (1-25%)	(7) 2023 General Service Service Charge $/Bill LagRate-30	(8) 2023 Discount Service Charge (a) $/Bill Col. (7) x (1-25%)	(9) 2024 General Service Service Charge $/Bill LagRate-30	(10) 2024 Discount Service Charge (a) $/Bill Col. (9) x (1-25%)
5/8	R	7.61	5.71	8.15	6.11	#N/A	#N/A	#N/A	#N/A
3/4	Z	9.75	7.31	10.44	7.83	#N/A	#N/A	#N/A	#N/A
1	Q	14.36	10.77	15.39	11.54	#N/A	#N/A	#N/A	#N/A
1-1/4	Y	20.26	15.20	21.72	16.29	#N/A	#N/A	#N/A	#N/A
1-1/2	P	25.40	19.05	27.23	20.42	#N/A	#N/A	#N/A	#N/A
2	X	39.23	29.42	42.08	31.56	#N/A	#N/A	#N/A	#N/A
3	O	70.85	53.14	76.01	57.01	#N/A	#N/A	#N/A	#N/A
4	W	120.31	90.23	129.06	96.80	#N/A	#N/A	#N/A	#N/A
6	N	237.29	177.97	254.58	190.94	#N/A	#N/A	#N/A	#N/A
8	V	375.66	281.75	403.06	302.30	#N/A	#N/A	#N/A	#N/A
10	E	542.09	406.57	581.62	436.22	#N/A	#N/A	#N/A	#N/A
12	T	986.67	740.00	1,058.80	794.10	#N/A	#N/A	#N/A	#N/A
14	H	0.00	0.00	0.00	0.00	0.00	0.00	#N/A	#N/A
Monthly Water Usage		Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf
General Service Quantity Charge		33.88	25.41	36.50	27.38	#N/A	#N/A	#N/A	#N/A

Wastewater Surcharge	Charge $/lb	Charge $/lb	Charge $/lb	Charge $/lb
BOD in excess of 250 mg/l	0.448	0.478	#N/A	#N/A
SS in excess of 350 mg/l	0.468	0.501	#N/A	#N/A
Monthly Stormwater Charge				
SWMS Charge	15.81	17.03	0.00	#N/A
Billing & Collectior	1.99	2.12	0.00	#N/A

(a) Discount rate applies to Senior Citizens and Charities

Water Rates

Meter Size inches	FY 2021 Existing $/Bill	FY 2021 Proposed $/Bill	FY 2021 Existing $/Bill	FY 2022 Proposed $/Bill atb increase = 6.63%	FY 2021 Existing $/Bill	FY 2023 Proposed $/Bill atb increase = 4.23%	FY 2021 Existing $/Bill	FY 2024 Proposed $/Bill atb increase = 4.07%
5/8	5.21	5.08	5.21	0.00	5.21	#N/A	5.21	#N/A
3/4	5.55	5.40	5.55	0.00	5.55	#N/A	5.55	#N/A
1	6.70	6.47	6.70	0.00	6.70	#N/A	6.70	#N/A
1-1/4	8.05	7.74	8.05	0.00	8.05	#N/A	8.05	#N/A
1-1/2	8.88	8.51	8.88	0.00	8.88	#N/A	8.88	#N/A
2	12.32	11.73	12.32	0.00	12.32	#N/A	12.32	#N/A
3	19.44	18.37	19.44	Philadelphia Water D	19.44	#N/A	19.44	#N/A
4	35.39	33.60	35.39	P.N. 135647.0100	35.39	#N/A	35.39	#N/A
6	66.29	62.74	66.29	0.00	66.29	#N/A	66.29	#N/A
8	100.66	95.03	100.66	0.00	100.66	#N/A	100.66	#N/A
10	147.50	139.39	147.50	0.00	147.50	#N/A	147.50	#N/A
12	239.52	224.76	239.52	0.00	239.52	#N/A	239.52	#N/A
14	0.00	0.00	0.00	0.00	0.00	#N/A	0.00	#N/A
Monthly Water Usage	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf
First 2 Mcf	44.80	48.57	44.80	0.00	44.80	#N/A	44.80	#N/A
Next 98 Mcf	38.56	42.67	38.56	1.02	38.56	#N/A	38.56	#N/A
Next 1,900 Mcf	29.88	33.07	29.88	1.02	29.88	#N/A	29.88	#N/A
Over 2,000 Mcf	29.06	32.17	29.06	1.02	29.06	#N/A	29.06	#N/A

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)			
		Existing Charge				2021 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	5.21	7.01	15.80	28.02	5.08	7.61	17.80	30.49	8.8	-2.50%	8.56%	12.65%
5/8	0.2	14.17	13.26	15.80	43.23	14.79	14.39	17.80	46.98	8.7	4.40%	8.49%	12.65%
5/8	0.3	18.65	16.39	15.80	50.84	19.65	17.77	17.80	55.23	8.6	5.37%	8.48%	12.65%
5/8	0.4	23.13	19.51	15.80	58.44	24.51	21.16	17.80	63.47	8.6	5.96%	8.47%	12.65%
5/8	0.5	27.61	22.64	15.80	66.05	29.37	24.55	17.80	71.72	8.6	6.36%	8.46%	12.65%
5/8	0.6	32.09	25.76	15.80	73.65	34.22	27.94	17.80	79.96	8.6	6.64%	8.45%	12.65%
5/8	0.7	36.57	28.89	15.80	81.26	39.08	31.33	17.80	88.21	8.6	6.86%	8.45%	12.65%
5/8	0.8	41.05	32.01	15.80	88.86	43.94	34.71	17.80	96.45	8.5	7.03%	8.45%	12.65%
5/8	1.7	81.37	60.14	15.80	157.31	87.65	65.21	17.80	170.66	8.5	7.72%	8.43%	12.65%
5/8	2.7	121.80	91.39	15.80	228.99	132.09	99.09	17.80	248.98	8.7	8.45%	8.43%	12.65%
5/8	3.3	144.94	110.14	15.80	270.87	157.69	119.41	17.80	294.91	8.9	8.80%	8.43%	12.65%

Comparison of Typical Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)		(5)	(6)	(7)		(8)	(9)			
		Existing Charge				2022 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	5.21	7.01	15.80	28.02	0.00	8.15	19.15	27.30	(2.6)	-100.00%	16.26%	21.20%
5/8	0.2	14.17	13.26	15.80	43.23	0.00	15.45	19.15	34.60	(20.0)	-100.00%	16.52%	21.20%
5/8	0.3	18.65	16.39	15.80	50.84	0.00	19.10	19.15	38.25	(24.8)	-100.00%	16.57%	21.20%
5/8	0.4	23.13	19.51	15.80	58.44	0.00	22.75	19.15	41.90	(28.3)	-100.00%	16.61%	21.20%
5/8	0.5	27.61	22.64	15.80	66.05	0.00	26.40	19.15	45.55	(31.0)	-100.00%	16.63%	21.20%
5/8	0.6	32.09	25.76	15.80	73.65	0.00	30.05	19.15	49.20	(33.2)	-100.00%	16.65%	21.20%
5/8	0.7	36.57	28.89	15.80	81.26	0.00	33.70	19.15	52.85	(35.0)	-100.00%	16.67%	21.20%
5/8	0.8	41.05	32.01	15.80	88.86	0.00	37.35	19.15	56.50	(36.4)	-100.00%	16.68%	21.20%
5/8	1.7	81.37	60.14	15.80	157.31	0.00	70.20	19.15	89.35	(43.2)	-100.00%	16.74%	21.20%
5/8	2.7	121.80	91.39	15.80	228.99	0.72	106.70	19.15	126.57	(44.7)	-99.41%	16.76%	21.20%
5/8	3.3	144.94	110.14	15.80	270.87	1.33	128.60	19.15	149.08	(45.0)	-99.08%	16.77%	21.20%

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
		Existing Charge				2023 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	5.21	7.01	15.80	28.02	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.2	14.17	13.26	15.80	43.23	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.3	18.65	16.39	15.80	50.84	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.4	23.13	19.51	15.80	58.44	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.5	27.61	22.64	15.80	66.05	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.6	32.09	25.76	15.80	73.65	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.7	36.57	28.89	15.80	81.26	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.8	41.05	32.01	15.80	88.86	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	1.7	81.37	60.14	15.80	157.31	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	2.7	121.80	91.39	15.80	228.99	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	3.3	144.94	110.14	15.80	270.87	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%

Comparison of Typical Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
		Existing Charge				2024 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	5.21	7.01	15.80	28.02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.2	14.17	13.26	15.80	43.23	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.3	18.65	16.39	15.80	50.84	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.4	23.13	19.51	15.80	58.44	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.5	27.61	22.64	15.80	66.05	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.6	32.09	25.76	15.80	73.65	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.7	36.57	28.89	15.80	81.26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.8	41.05	32.01	15.80	88.86	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	1.7	81.37	60.14	15.80	157.31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	2.7	121.80	91.39	15.80	228.99	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	3.3	144.94	110.14	15.80	270.87	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Comparison of Typical Residential Combined Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			FY 2021		FY 2022		FY 2023		FY 2024	
Meter Size Inches	Monthly Use Mcf	Existing Rates $	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %
	LagRate-26	LagRate-32	LagRate-32		LagRate-33		LagRate-34		LagRate-34	
5/8	0.0	28.02	30.49	8.8	27.30	(2.6)	#N/A	#N/A	#N/A	#N/A
5/8	0.2	43.23	46.98	8.7	34.60	(20.0)	#N/A	#N/A	#N/A	#N/A
5/8	0.3	50.84	55.23	8.6	38.25	(24.8)	#N/A	#N/A	#N/A	#N/A
5/8	0.4	58.44	63.47	8.6	41.90	(28.3)	#N/A	#N/A	#N/A	#N/A
5/8	0.5	66.05	71.72	8.6	45.55	(31.0)	#N/A	#N/A	#N/A	#N/A
5/8	0.6	73.65	79.96	8.6	49.20	(33.2)	#N/A	#N/A	#N/A	#N/A
5/8	0.7	81.26	88.21	8.6	52.85	(35.0)	#N/A	#N/A	#N/A	#N/A
5/8	0.8	88.86	96.45	8.5	56.50	(36.4)	#N/A	#N/A	#N/A	#N/A
5/8	1.7	157.31	170.66	8.5	89.35	(43.2)	#N/A	#N/A	#N/A	#N/A
5/8	2.7	228.99	248.98	8.7	126.57	(44.7)	#N/A	#N/A	#N/A	#N/A
5/8	3.3	270.87	294.91	8.9	149.08	(45.0)	#N/A	#N/A	#N/A	#N/A

Table C-4

Comparison of Typical Combined Water and Wastewater Bills Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			FY 2021		FY 2022		FY 2023		FY 2024	
Meter Size Inches	Monthly Use Mcf LagRate-26	Existing Rates $ LagRate-32	Proposed Rates $ LagRate-32	Percent of Existing %	Proposed Rates $ LagRate-33	Percent of Proposed FY 2021 %	Proposed Rates $ LagRate-34	Percent of Proposed of FY 2022 %	Proposed Rates $ LagRate-34	Percent of Proposed of FY 2023 %
5/8	0.0	28.02	30.49	8.8	27.30	(10.5)	#N/A	#N/A	#N/A	#N/A
5/8	0.2	43.23	46.98	8.7	34.60	(26.4)	#N/A	#N/A	#N/A	#N/A
5/8	0.3	50.84	55.23	8.6	38.25	(30.7)	#N/A	#N/A	#N/A	#N/A
5/8	0.4	58.44	63.47	8.6	41.90	(34.0)	#N/A	#N/A	#N/A	#N/A
5/8	0.5	66.05	71.72	8.6	45.55	(36.5)	#N/A	#N/A	#N/A	#N/A
5/8	0.6	73.65	79.96	8.6	49.20	(38.5)	#N/A	#N/A	#N/A	#N/A
5/8	0.7	81.26	88.21	8.5	52.85	(40.1)	#N/A	#N/A	#N/A	#N/A
5/8	0.8	88.86	96.45	8.5	56.50	(41.4)	#N/A	#N/A	#N/A	#N/A
5/8	1.7	157.31	170.66	8.5	89.35	(47.6)	#N/A	#N/A	#N/A	#N/A
5/8	2.7	228.99	248.98	8.7	126.57	(49.2)	#N/A	#N/A	#N/A	#N/A
5/8	2.7	270.87	294.91	8.9	149.08	(49.4)	#N/A	#N/A	0.00	#N/A

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PROPRCPTS1 - Page 1 of FY 2021 Proposed Receipts Calcs	P.N. 135647.0100	February 07, 2020 3:: February 07, 2020 3:50 p.m.					LagRate-37

This page uses FY 2020 billing data times COS rates

Meter Size inches	Meter Code	Residential (a)(b) Service Charge Billings $	Residential (a)(b) Volume Charge Billings $	Commercial Service Charge Billings $	Commercial Volume Charge Billings $	Industrial Service Charge Billings $	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $	"6 Cent" Charities (b) Volume Charge Billings $	
		LagRate-6 x rates								LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		
5/8	R	37,644,204		2,559,791		46,665		6,758		1,606,239		478,681		67,723		1,903		5/8
3/4	Z	7,488		1,287		0		0		0		0		0		0		3/4
1	Q	1,052,703		533,158		41,012		5,170		527		3,737		31,903		3,590		1
1-1/4	Y	0		0		0		0		0		0		0		0		1-1/4
1-1/2	P	252,374		405,384		24,689		3,658		233		26,149		27,774		2,381		1-1/2
2	X	285,281		910,450		54,137		11,769		0		11,983		73,872		20,430		2
3	O	119,878		647,852		45,061		13,603		0		30,459		127,898		58,305		3
4	W	67,855		641,012		18,768		8,662		0		32,666		276,679		86,468		4
6	N	34,170		410,037		22,780		14,237		0		34,899		57,661		98,870		6
8	V	13,524		166,793		4,508		9,016		0		21,250		6,520		35,218		8
10	E	6,505		110,586		0		0		0		0		0		5,647		10
12	T	0		0		0		0		0		0		0		0		12
14	H	0		0		0		0		0		0		0		0		14
		39,483,982	99,836,818	6,386,350	51,304,227	257,620	2,292,907	72,873	314,748	1,607,000	3,122,550	639,823	5,059,717	670,032	3,970,345	312,812	7,362,180	

Meter Size inches	Meter Code	Hand Bill Service Charge Billings $	Hand Bill Volume Charge Billings $	xxxxxxxxxx Service Charge Billings $	xxxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyyy Service Charge Billings $	yyyyyyyyyy Volume Charge Billings $	Sewer Only Service Charge Billings $	Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $	Sewer Only Ground Water Volume Charge Billings $	Total Sewer Only Service Charge Billings $	Total Sewer Only Volume Charge Billings $	Quantity Groundwater
				LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		
5/8	R	814		0		5,844		274		0								
3/4	Z	0		0		0		0		0								
1	Q	1,537		0		3,125		0		0								BOD
1-1/4	Y	0		0		0		0		0								SS
1-1/2	P	3,020		0		2,601		0		0		Volume				Volume		
2	X	14,927		0		6,026		0		0		charge only				charge only		
3	O	53,916		0		907		0		0								
4	W	91,554		0		7,700		0		0								
6	N	64,894		0		6,075		0		0								
8	V	26,801		0		0		0		0								
10	E	12,891		0		0		0		0								
12	T	0		0		0		0		0								
14	H	0		0		0		0		0								
		270,354	14,895,672	0	0	32,277	271,040	274	379	0	0	0	2,405,480	0	2,877,600	0	5,283,080	

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
						LagRate-13			1/2 Mo Vol Chrg @ Exst Rates		Prior Year Receipts				
	Service Charge	Volume Charge	Total	Bill Tab Factors	100% of (1) * (4)	11.5/12 of (2) * (4)	Total Billings	FY 2021 Receipts of FY 2021 Billings	Basis of Proration	Proration	Basis of Proration	Proration	FY 2021 Receipts	FY 2021 Adjusted COS	Percent Receipts of Adjusted COS
	$	$	$		$	$	$	$	$	$	$	$	$	$	%
	LagRate-37	LagRate-37		LagRate-12				86.7% * (7)	LagRate-7		LagRate-7a		(8)+(10)+(12)	LagRate-22	
Residential Excl. Sen. Cit	39,483,982	99,836,818	139,320,800	100.00%	39,483,982	95,676,951	135,160,932	117,157,496	96,472,622	3,363,215	128,431,787	13,749,037	134,269,747	132,048,747	103.5%
Commercial	6,386,350	51,304,227	57,690,577	100.00%	6,386,350	49,166,551	55,552,901	48,153,255	48,020,856	1,674,096	53,135,539	5,688,331	55,515,682	54,537,425	107.5%
Industrial	257,620	2,292,907	2,550,527	100.00%	257,620	2,197,369	2,454,989	2,127,984	2,457,291	85,666	2,348,534	251,418	2,465,068	2,410,674	102.3%
Public Utilities	72,873	314,748	387,621	100.00%	72,873	301,633	374,506	324,622	300,644	10,481	356,191	38,131	373,234	366,708	64038.8%
Senior Citizens	1,607,000	3,122,550	4,729,550	99.98%	1,606,678	2,991,845	4,598,523	3,985,999	2,893,246	100,864	4,359,934	466,745	4,553,608	4,485,994	270.7%
Housing Authority	639,823	5,059,717	5,699,540	100.00%	639,823	4,848,896	5,488,719	4,757,621	4,691,732	163,562	5,253,228	562,375	5,483,559	5,389,193	154.0%
Charities & Schools	670,032	3,970,345	4,640,377	99.99%	669,950	3,804,444	4,474,394	3,878,404	3,773,137	131,539	4,267,808	456,883	4,466,826	4,389,937	5562.1%
Hospitals & Universities	312,812	7,362,180	7,674,991	99.99%	312,773	7,054,551	7,367,324	6,385,996	5,921,729	206,442	7,072,544	757,139	7,349,577	7,245,252	3337.5%
Hand Billed	270,354	14,895,672	15,166,026	99.99%	270,321	14,273,272	14,543,593	12,606,386	12,346,006	430,405	13,982,812	1,496,905	14,533,696	14,317,056	138.1%
xxxxxxxxxx	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	
Fire Meters	32,277	271,040	303,317	100.00%	32,277	259,747	292,024	253,126	235,409	8,207	250,000	26,763	288,096	285,910	83940.6%
Scheduled	274	379	653	100.00%	274	363	637	552	413	14	602	64	631	468	134.9%
yyyyyyyyyy	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	
Sewer Only	0	2,405,480	2,405,480	101.16%	0	2,332,092	2,332,092	2,021,457	2,365,538	82,467	2,244,583	240,290	2,344,214	2,298,687	102.0%
Groundwater	0	2,877,600	2,877,600	100.00%	0	2,757,700	2,757,700	2,390,374	2,898,359	101,042	3,049,200	326,427	2,817,843	2,820,585	99.9%
Subtotal	49,733,396	193,713,662	243,447,059		49,732,920	185,665,412	235,398,333	204,043,275	182,376,981	6,358,000	224,752,762	24,060,507	234,461,782	230,596,636	101.7%
Surcharge (COS)	5,450,634	0	5,450,634	100.0%	5,450,634		5,450,634	4,724,610		LagRate-22==>	4,862,000	520,493	5,245,102	5,581,198	94.0%
Total	55,184,030	193,713,662	248,897,693		55,183,554	185,665,412	240,848,967	208,767,884			229,614,762	24,581,000	239,706,884	236,177,834	101.5%

		Receipts
Current Yr Receipts:		$
86.68% of Subtotal less yyyyyyyyyy		204,043,275
Plus 100% of yyyyyyyyyy		0
Plus 86.68% of Surcharge		4,724,610
Plus 1/2 Mo Vol @ Existing Rates	LagRate-13	6,358,000
Prior Yr Receipts:		
1st Prior Year	LagRate-13	20,194,000
2nd Prior Year	LagRate-13	4,387,000
Total Receipts		239,706,884
	vs LagRate-24==>	236,177,834
		101.5%
	difference	(3,529,050)

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:\February 07, 2020 3:50 p.m.					LagRate-39

File: SCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
SSERVCHGS - 2021 Components of Sewer Service Charges | P.N. 135647.0100 | February 07, 2020 3:! February 07, 2020 3:50 p.m. | LagRate-40

		Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Stormwater Direct Equiv. Meters	Total Cost $	Reference	Rounding Factor	IA/GA Stormwater	Other Stormwater	Sanitary
5/8 Inch Mete	2021 COS Service Charge	0.0000	0.7621	3.1915		0.5871		2.7501		7.2908	Servchg-2				
	Lag + Rounding Factor	1.0422	1.0422	1.0422		1.0422		1.0422		1.0422	LagRate-14	(0.0017)			
	2021 Adjusted COS Service Charge	0.0000	0.7943	3.3262		0.6119		2.8662		7.5986					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	0.7943	3.3262		0.6119		2.8662		7.5986					
	Total Service Charge Rounded	0.00	0.79	3.33		0.61		2.87		7.61	LagRate-31	(0.01)	0.00	0.00	7.60
	Times (100%-25%) Charities Discoun	0.00	0.59	2.50		0.46		2.15		5.71	LagRate-31				
3/4 Inch Mete	2021 COS Service Charge	0.0000	1.1432	3.1915		0.8807		4.1252		9.3406	Servchg-2				
	Lag + Rounding Factor	1.0443	1.0443	1.0443		1.0443		1.0443		1.0443	LagRate-14	0.0004			
	2021 Adjusted COS Service Charge	0.0000	1.1938	3.3329		0.9197		4.3079		9.7543					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	1.1938	3.3329		0.9197		4.3079		9.7543					
	Total Service Charge Rounded	0.00	1.19	3.33		0.92		4.31		9.75	LagRate-31	0.00	0.00	0.00	9.75
	Times (100%-25%) Charities Discoun	0.00	0.89	2.50		0.69		3.23		7.31	LagRate-31				
1 Inch Meter:	2021 COS Service Charge	0.0000	1.9053	3.5107		1.4678		6.8753		13.7591	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	1.9889	3.6648		1.5322		7.1771		14.3630					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	1.9889	3.6648		1.5322		7.1771		14.3630					
	Total Service Charge Rounded	0.00	1.99	3.66		1.53		7.18		14.36	LagRate-31	0.00	0.00	0.00	14.36
	Times (100%-25%) Charities Discoun	0.00	1.49	2.75		1.15		5.39		10.77	LagRate-31				
1-1/4 Inch Me	2021 COS Service Charge	0.0000	2.8960	3.8298		2.2310		10.4504		19.4072	Servchg-2				
	Lag + Rounding Factor	1.0441	1.0441	1.0441		1.0441		1.0441		1.0441	LagRate-14	0.0002			
	2021 Adjusted COS Service Charge	0.0000	3.0237	3.9987		2.3294		10.9113		20.2631					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	3.0237	3.9987		2.3294		10.9113		20.2631					
	Total Service Charge Rounded	0.00	3.02	4.00		2.33		10.91		20.26	LagRate-31	0.00	0.00	0.00	20.26
	Times (100%-25%) Charities Discoun	0.00	2.27	3.00		1.75		8.18		15.20	LagRate-31				
1-1/2 Inch Me	2021 COS Service Charge	0.0000	3.8105	3.8298		2.9355		13.7505		24.3263	Servchg-2				
	Lag + Rounding Factor	1.0443	1.0443	1.0443		1.0443		1.0443		1.0443	LagRate-14	0.0004			
	2021 Adjusted COS Service Charge	0.0000	3.9792	3.9994		3.0655		14.3594		25.4035					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	3.9792	3.9994		3.0655		14.3594		25.4035					
	Total Service Charge Rounded	0.00	3.98	4.00		3.07		14.36		25.40	LagRate-31	0.01	0.00	0.00	25.41
	Times (100%-25%) Charities Discoun	0.00	2.99	3.00		2.30		10.77		19.05	LagRate-31				
2 Inch Meter:	2021 COS Service Charge	0.0000	6.0968	4.7873		4.6968		22.0008		37.5817	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	6.3644	4.9975		4.9030		22.9666		39.2315					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	6.3644	4.9975		4.9030		22.9666		39.2315					
	Total Service Charge Rounded	0.00	6.36	5.00		4.90		22.97		39.23	LagRate-31	0.00	0.00	0.00	39.23
	Times (100%-25%) Charities Discoun	0.00	4.77	3.75		3.68		17.23		29.42	LagRate-31				
3 Inch Meter:	2021 COS Service Charge	0.0000	11.4315	6.3830		8.8065		41.2515		67.8725	Servchg-2				
	Lag + Rounding Factor	1.0438	1.0438	1.0438		1.0438		1.0438		1.0438	LagRate-14	(0.0001)			
	2021 Adjusted COS Service Charge	0.0000	11.9319	6.6624		9.1920		43.0571		70.8434					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	11.9319	6.6624		9.1920		43.0571		70.8434					
	Total Service Charge Rounded	0.00	11.93	6.66		9.19		43.06		70.85	LagRate-31	(0.01)	0.00	0.00	70.84
	Times (100%-25%) Charities Discoun	0.00	8.95	5.00		6.89		32.30		53.14	LagRate-31				
4 Inch Meter:	2021 COS Service Charge	0.0000	19.0525	12.7660		14.6775		68.7525		115.2485	Servchg-2				
	Lag + Rounding Factor	1.0440	1.0440	1.0440		1.0440		1.0440		1.0440	LagRate-14	0.0001			
	2021 Adjusted COS Service Charge	0.0000	19.8908	13.3277		15.3233		71.7776		120.3194					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	19.8908	13.3277		15.3233		71.7776		120.3194					
	Total Service Charge Rounded	0.00	19.89	13.33		15.32		71.78		120.31	LagRate-31	0.01	0.00	0.00	120.32
	Times (100%-25%) Charities Discoun	0.00	14.92	10.00		11.49		53.84		90.23	LagRate-31				
6 Inch Meter:	2021 COS Service Charge	0.0000	38.1050	22.3405		29.3550		137.5050		227.3055	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	39.7786	23.3217		30.6443		143.5442		237.2888					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	39.7786	23.3217		30.6443		143.5442		237.2888					
	Total Service Charge Rounded	0.00	39.78	23.32		30.64		143.54		237.29	LagRate-31	(0.01)	0.00	0.00	237.28
	Times (100%-25%) Charities Discoun	0.00	29.84	17.49		22.98		107.66		177.97	LagRate-31				
8 Inch Meter:	2021 COS Service Charge	0.0000	60.9680	31.9150		46.9680		220.0080		359.8590	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	63.6447	33.3162		49.0300		229.6670		375.6579					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	63.6447	33.3162		49.0300		229.6670		375.6579					
	Total Service Charge Rounded	0.00	63.64	33.32		49.03		229.67		375.66	LagRate-31	0.00	0.00	0.00	375.66
	Times (100%-25%) Charities Discoun	0.00	47.73	24.99		36.77		172.25		281.75	LagRate-31				
10 Inch Meter	2021 COS Service Charge	0.0000	87.6415	47.8725		67.5165		316.2615		519.2920	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	91.4898	49.9746		70.4811		330.1485		542.0940					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	91.4898	49.9746		70.4811		330.1485		542.0940					
	Total Service Charge Rounded	0.00	91.49	49.97		70.48		330.15		542.09	LagRate-31	0.00	0.00	0.00	542.09
	Times (100%-25%) Charities Discoun	0.00	68.62	37.48		52.86		247.61		406.57	LagRate-31				
12 Inch Meter	2021 COS Service Charge	0.0000	163.8515	63.8300		126.2265		591.2715		945.1795	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	171.0446	66.6321		131.7678		617.2283		986.6728					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	171.0446	66.6321		131.7678		617.2283		986.6728					
	Total Service Charge Rounded	0.00	171.04	66.63		131.77		617.23		986.67	LagRate-31	0.00	0.00	0.00	986.67
	Times (100%-25%) Charities Discoun	0.00	128.28	49.97		98.83		462.92		740.00	LagRate-31				
14 Inch Meter	2021 COS Service Charge	0.0000	171.4725	73.4045		132.0975		618.7725		995.7470	Servchg-2				
	Lag + Rounding Factor	1.0439	1.0439	1.0439		1.0439		1.0439		1.0439	LagRate-14	0.0000			
	2021 Adjusted COS Service Charge	0.0000	179.0001	76.6270		137.8966		645.9366		1,039.4603					
	Proration of Transition Rate Adjustmen	N/A						N/A		N/A					
	Total Service Charge	0.0000	179.0001	76.6270		137.8966		645.9366		1,039.4603					
	Total Service Charge Rounded	0.00	179.00	76.63		137.90		645.94		0.00	LagRate-31		0.00	0.00	1,039.47
	Times (100%-25%) Charities Discoun	0.00	134.25	57.47		103.43		484.46		0.00	LagRate-31				

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:\February 07, 2020 3:50 p.m.					LagRate-41

File: SCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
XXXXXX - PAGE NOT IN USE	P.N. 135647.0100	February 07, 2020 3:\February 07, 2020 3:50 p.m.					LagRate-42

Rate Components of Regular Sewer Service Charges

	Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Equiv. Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Warranty Costs Equiv. Service	Total Cost $	Reference	IA/GA Stormwater	Billing & Collecting Stormwater	Sanitary Sewer
FY 2021 Service Charges			**Regular Sewer Service Charges Detail**										
5/8 Inch Meter:		0.7900	3.3300		0.6100		2.8700	0.0000	7.6000	LagRate-40			7.6000
3/4 Inch Meter:		1.1900	3.3300		0.9200		4.3100	0.0000	9.7500	LagRate-40			9.7500
1 Inch Meter:		1.9900	3.6600		1.5300		7.1800	0.0000	14.3600	LagRate-40			14.3600
1-1/4 Inch Meter:		3.0200	4.0000		2.3300		10.9100	0.0000	20.2600	LagRate-40			20.2600
1-1/2 Inch Meter:		3.9800	4.0000		3.0700		14.3600	0.0000	25.4100	LagRate-40			25.4100
2 Inch Meter:		6.3600	5.0000		4.9000		22.9700	0.0000	39.2300	LagRate-40			39.2300
3 Inch Meter:		11.9300	6.6600		9.1900		43.0600	0.0000	70.8400	LagRate-40			70.8400
4 Inch Meter:		19.8900	13.3300		15.3200		71.7800	0.0000	120.3200	LagRate-40			120.3200
6 Inch Meter:		39.7800	23.3200		30.6400		143.5400	0.0000	237.2800	LagRate-40			237.2800
8 Inch Meter:		63.6400	33.3200		49.0300		229.6700	0.0000	375.6600	LagRate-40			375.6600
10 Inch Meter:		91.4900	49.9700		70.4800		330.1500	0.0000	542.0900	LagRate-40			542.0900
12 Inch Meter:		171.0400	66.6300		131.7700		617.2300	0.0000	986.6700	LagRate-40			986.6700

Rate Components of Discount Sewer Service Charges

	Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Equiv. Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Warranty Costs Equiv. Service	Total Cost $	Reference	IA/GA Stormwater	Billing & Collecting Stormwater	Wastewater
FY 2021 Service Charges			**Discount Sewer Service Charges Detail**										
5/8 Inch Meter:		0.59	2.50		0.46		2.15	0.00	5.70	LagRate-40			5.70
3/4 Inch Meter:		0.89	2.50		0.69		3.23	0.00	7.31	LagRate-40			7.31
1 Inch Meter:		1.49	2.75		1.15		5.39	0.00	10.78	LagRate-40			10.78
1-1/4 Inch Meter:		2.27	3.00		1.75		8.18	0.00	15.20	LagRate-40			15.20
1-1/2 Inch Meter:		2.99	3.00		2.30		10.77	0.00	19.06	LagRate-40			19.06
2 Inch Meter:		4.77	3.75		3.68		17.23	0.00	29.43	LagRate-40			29.43
3 Inch Meter:		8.95	5.00		6.89		32.30	0.00	53.14	LagRate-40			53.14
4 Inch Meter:		14.92	10.00		11.49		53.84	0.00	90.25	LagRate-40			90.25
6 Inch Meter:		29.84	17.49		22.98		107.66	0.00	177.97	LagRate-40			177.97
8 Inch Meter:		47.73	24.99		36.77		172.25	0.00	281.74	LagRate-40			281.74
10 Inch Meter:		68.62	37.48		52.86		247.61	0.00	406.57	LagRate-40			406.57
12 Inch Meter:		128.28	49.97		98.83		462.92	0.00	740.00	LagRate-40			740.00

SCOS19_21.XLS

SWLAGRATE

The "SW LagRate" worksheet calculated projected billings and revenues under proposed stormwater rates.

Range	Page Number	Description
	SW LagRate - 1	PROJECTED BILLABLE PARCELS
	SW LagRate - 2	PROJECTED BILLABLE ACCOUNTS
	SW LagRate - 3	PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft)
	SW LagRate - 4	PROJECTED BILLABLE GROSS AREA (1000 sq ft)
	SW LagRate - 5	PROJECTED BILLINGS UNDER COS RATES
	SW LagRate - 6	PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR)
	SW LagRate - 7	PROJECTED BILLINGS UNDER PROPOSED RATES
	SW LagRate - 8	STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2021

PROJECTED BILLABLE PARCELS **SW LagRate - 1**

	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	428,118	428,118	428,117	428,117	428,117	428,116	428,116
SW Only	6,477	6,477	6,477	6,477	6,477	6,477	6,477
Discount Non-PHA							
Water & Sewer	23,552	23,552	23,552	23,552	23,552	23,552	23,552
SW Only	28	28	28	28	28	28	28
Discount PHA							
Water & Sewer	3,999	3,999	3,999	3,999	3,999	3,999	3,999
SW Only	206	206	206	206	206	206	206
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	462,380	462,380	462,379	462,379	462,379	462,378	462,378
Non-Residential							
Non-Discount							
Water & Sewer	33,119	33,118	33,117	33,116	33,115	33,114	33,113
SW Only	36,410	36,388	36,367	36,345	36,324	36,302	36,280
Discount Non-PHA							
Water & Sewer	1,592	1,589	1,586	1,583	1,579	1,576	1,573
SW Only	260	249	238	227	216	205	194
Discount PHA							
Water & Sewer	230	230	230	230	230	230	230
SW Only	1,948	1,946	1,944	1,942	1,940	1,938	1,937
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	73,559	73,520	73,482	73,443	73,404	73,366	73,327

Condominiums							
Non-Discount							
Water & Sewer	2,039	2,039	2,039	2,039	2,039	2,039	2,039
SW Only	41	41	41	41	41	41	41
Discount Non-PHA							
Water & Sewer	41	41	41	41	41	41	41
SW Only	1	1	1	1	1	1	1
Discount PHA							
Water & Sewer	1	1	1	1	1	1	1
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	2,123	2,123	2,123	2,123	2,123	2,123	2,123
Total Billable Parcels	538,062	538,023	537,984	537,945	537,906	537,867	537,828

PROJECTED BILLABLE ACCOUNTS **SW LagRate - 2**

	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	429,696	429,696	429,695	429,695	429,695	429,694	429,694
SW Only	6,481	6,481	6,481	6,481	6,481	6,481	6,481
Discount Non-PHA							
Water & Sewer	23,608	23,608	23,608	23,608	23,608	23,608	23,608
SW Only	28	28	28	28	28	28	28
Discount PHA							
Water & Sewer	4,153	4,153	4,153	4,153	4,153	4,153	4,153
SW Only	206	206	206	206	206	206	206
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	464,172	464,172	464,171	464,171	464,171	464,170	464,170
Non-Residential							
Non-Discount							
Water & Sewer	39,272	39,271	39,270	39,269	39,268	39,267	39,266
SW Only	35,522	35,500	35,479	35,457	35,436	35,414	35,392
Discount Non-PHA							
Water & Sewer	2,283	2,280	2,277	2,274	2,270	2,267	2,264
SW Only	260	249	238	227	216	205	194
Discount PHA							
Water & Sewer	1,251	1,251	1,251	1,251	1,251	1,251	1,251
SW Only	1,980	1,978	1,976	1,974	1,972	1,970	1,969
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	80,568	80,529	80,491	80,452	80,413	80,375	80,336

Condominiums							
Non-Discount							
Water & Sewer	4,450	4,450	4,450	4,450	4,450	4,450	4,450
SW Only	51	51	51	51	51	51	51
Discount Non-PHA							
Water & Sewer	466	466	466	466	466	466	466
SW Only	1	1	1	1	1	1	1
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	1	1	1	1	1	1	1
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	4,969	4,969	4,969	4,969	4,969	4,969	4,969
Total Billable Parcels	549,709	549,670	549,631	549,592	549,553	549,514	549,475

PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft) **SW LagRate - 3**

	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	517,054	517,053	513,741	513,740	513,740	513,739	513,739
SW Only	6,145	6,145	7,772	7,772	7,772	7,772	7,772
Discount Non-PHA							
Water & Sewer	26,706	26,706	28,262	28,262	28,262	28,262	28,262
SW Only	53	53	34	34	34	34	34
Discount PHA							
Water & Sewer	3,435	3,435	4,799	4,799	4,799	4,799	4,799
SW Only	142	142	247	247	247	247	247
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	553,534	553,534	554,855	554,854	554,854	554,853	554,853
Non-Residential							
Non-Discount							
Water & Sewer	445,931	439,713	440,051	435,586	429,122	422,955	416,871
SW Only	76,438	75,437	75,395	74,634	73,457	72,295	71,149
Discount Non-PHA							
Water & Sewer	75,504	75,091	75,838	75,524	75,038	74,559	74,085
SW Only	3,297	3,283	3,316	3,304	3,288	3,271	3,255
Discount PHA							
Water & Sewer	6,688	6,688	7,123	7,123	7,123	7,123	7,123
SW Only	1,368	1,367	1,402	1,401	1,399	1,398	1,396
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	609,227	601,578	603,125	597,572	589,427	581,601	573,880

Condominiums							
Non-Discount							
Water & Sewer	19,141	18,869	18,875	18,669	18,349	18,033	17,722
SW Only	628	628	631	631	631	631	631
Discount Non-PHA							
Water & Sewer	541	524	507	494	474	454	434
SW Only	21	21	21	21	21	21	21
Discount PHA							
Water & Sewer	6	6	6	6	6	6	6
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	20,337	20,048	20,040	19,821	19,481	19,145	18,814
Total Impervious Area	1,183,098	1,175,160	1,178,020	1,172,247	1,163,761	1,155,599	1,147,546

PROJECTED BILLABLE GROSS AREA (1000 sq ft) **SW LagRate - 4**

	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	912,220	912,217	903,324	903,322	903,319	903,317	903,314
SW Only	14,065	14,065	13,666	13,666	13,666	13,666	13,666
Discount Non-PHA							
Water & Sewer	43,405	43,405	49,695	49,695	49,695	49,695	49,695
SW Only	153	153	59	59	59	59	59
Discount PHA							
Water & Sewer	4,588	4,588	8,438	8,438	8,438	8,438	8,438
SW Only	222	222	435	435	435	435	435
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	974,653	974,650	975,617	975,615	975,612	975,610	975,607
Non-Residential							
Non-Discount							
Water & Sewer	733,782	720,204	704,986	693,875	681,152	668,785	656,489
SW Only	233,011	228,314	222,897	218,882	214,158	209,460	204,789
Discount Non-PHA							
Water & Sewer	124,228	122,416	120,353	118,779	116,958	115,146	113,343
SW Only	5,294	5,218	5,137	5,067	4,992	4,917	4,842
Discount PHA							
Water & Sewer	12,961	12,961	12,961	12,961	12,961	12,961	12,961
SW Only	3,925	3,915	3,905	3,895	3,886	3,876	3,866
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	1,113,201	1,093,029	1,070,239	1,053,460	1,034,106	1,015,144	996,289

Condominiums							
Non-Discount							
Water & Sewer	26,299	25,934	25,512	25,203	24,836	24,472	24,109
SW Only	969	969	969	969	969	969	969
Discount Non-PHA							
Water & Sewer	1,269	1,245	1,218	1,198	1,174	1,150	1,127
SW Only	25	25	25	25	25	25	25
Discount PHA							
Water & Sewer	9	9	9	9	9	9	9
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	28,571	28,183	27,733	27,404	27,013	26,625	26,239
Total Gross Area	2,116,425	2,095,862	2,073,590	2,056,478	2,036,731	2,017,379	1,998,136

Residential Billing & Collection charge	$	1.90	Adjusted for Discount Recovery Factor
Non Residential Billing & Collection charge	$	2.47	

Residential GA/IA charge	$15.14	Area (sq ft)	1,000
Non Residential IA charge ($/500 sq ft)	$5.156		500
Non Residential GA charge ($/500 sq ft)	$0.733	No. of Bills	12

Senior Citizen Discount applied to category "Residential Discount Non-PHA"	25.00%
Charities, Hospitals, Schools Discount applied to "Non-Residential Discount Non-PHA"	25.00%
PHA Discount applied to categories "Residential and Non Residential Discount PHA"	5.00%

PROJECTED BILLINGS UNDER COS RATES **SW LagRate - 5**

Stormwater Billings (Billing & Collection)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	9,797,069	9,797,061	9,797,053	9,797,045	9,797,037	9,797,029	9,797,021
SW Only	147,767	147,767	147,767	147,767	147,767	147,767	147,767
Discount Non-PHA							
Water & Sewer	403,697	403,697	403,697	403,697	403,697	403,697	403,697
SW Only	479	479	479	479	479	479	479
Discount PHA							
Water & Sewer	89,954	89,954	89,954	89,954	89,954	89,954	89,954
SW Only	4,462	4,462	4,462	4,462	4,462	4,462	4,462
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	10,443,427	10,443,419	10,443,411	10,443,403	10,443,395	10,443,387	10,443,380
Non-Residential							
Non-Discount							
Water & Sewer	1,164,022	1,163,991	1,163,960	1,163,929	1,163,898	1,163,867	1,163,836
SW Only	1,052,872	1,052,232	1,051,592	1,050,952	1,050,312	1,049,673	1,049,033
Discount Non-PHA							
Water & Sewer	50,751	50,681	50,612	50,542	50,472	50,403	50,333
SW Only	5,780	5,536	5,292	5,048	4,804	4,561	4,317
Discount PHA							
Water & Sewer	35,226	35,226	35,226	35,226	35,226	35,226	35,226
SW Only	55,753	55,699	55,645	55,591	55,537	55,483	55,429
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	2,364,404	2,363,365	2,362,327	2,361,289	2,360,250	2,359,212	2,358,174

Condominiums							
Non-Discount							
Water & Sewer	131,898	131,898	131,898	131,898	131,898	131,898	131,898
SW Only	1,512	1,512	1,512	1,512	1,512	1,512	1,512
Discount Non-PHA							
Water & Sewer	10,359	10,359	10,359	10,359	10,359	10,359	10,359
SW Only	22	22	22	22	22	22	22
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	28	28	28	28	28	28	28
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	143,819	143,819	143,819	143,819	143,819	143,819	143,819
Subtotal Billing & Collection Stormwater Charges	12,951,650	12,950,604	12,949,557	12,948,511	12,947,465	12,946,419	12,945,372
W&S	11,682,976	11,682,867	11,682,758	11,682,650	11,682,541	11,682,433	11,682,324
SW Only	1,268,674	1,267,737	1,266,799	1,265,861	1,264,924	1,263,986	1,263,048
xxxxxxxxxx	0	0	0	0	0	0	0
Total	12,951,650	12,950,604	12,949,557	12,948,511	12,947,465	12,946,419	12,945,372

Stormwater Billings (GA/IA)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	77,780,478	77,780,415	77,780,352	77,780,288	77,780,225	77,780,162	77,780,099
SW Only	1,176,741	1,176,741	1,176,741	1,176,741	1,176,741	1,176,741	1,176,741
Discount Non-PHA							
Water & Sewer	3,209,196	3,209,196	3,209,196	3,209,196	3,209,196	3,209,196	3,209,196
SW Only	3,815	3,815	3,815	3,815	3,815	3,815	3,815
Discount PHA							
Water & Sewer	690,211	690,211	690,211	690,211	690,211	690,211	690,211
SW Only	35,555	35,555	35,555	35,555	35,555	35,555	35,555
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	82,895,997	82,895,933	82,895,870	82,895,807	82,895,744	82,895,680	82,895,617
Non-Residential							
Non-Discount							
Water & Sewer	68,089,995	67,081,664	66,855,755	66,107,738	65,084,093	64,103,425	63,134,242
SW Only	13,557,848	13,351,326	13,250,841	13,086,079	12,857,303	12,630,951	12,406,971
Discount Non-PHA							
Water & Sewer	8,646,490	8,584,244	8,626,269	8,576,433	8,507,284	8,438,867	8,371,165
SW Only	375,862	373,507	375,556	373,519	370,986	368,471	365,975
Discount PHA							
Water & Sewer	1,002,853	1,002,853	1,053,984	1,053,984	1,053,984	1,053,984	1,053,984
SW Only	226,432	226,083	230,120	229,772	229,423	229,075	228,726
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	91,899,481	90,619,677	90,392,525	89,427,523	88,103,073	86,824,772	85,561,064

Condominiums							
Non-Discount							
Water & Sewer	2,831,206	2,791,168	2,784,469	2,753,556	2,707,510	2,662,036	2,617,123
SW Only	94,784	94,784	95,124	95,124	95,124	95,124	95,124
Discount Non-PHA							
Water & Sewer	66,969	65,049	63,167	61,684	59,476	57,295	55,141
SW Only	2,242	2,242	2,242	2,242	2,242	2,242	2,242
Discount PHA							
Water & Sewer	880	880	880	880	880	880	880
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	2,996,082	2,954,123	2,945,884	2,913,487	2,865,233	2,817,578	2,770,512
SubTotal GA/IA Stormwater Billings	177,791,559	176,469,733	176,234,279	175,236,818	173,864,049	172,538,031	171,227,192
W&S	162,318,279	161,205,680	161,064,283	160,233,970	159,092,859	157,996,056	156,912,042
SW Only	15,473,280	15,264,053	15,169,996	15,002,848	14,771,190	14,541,975	14,315,151
xxxxxxxxxx	0	0	0	0	0	0	0
Total	177,791,559	176,469,733	176,234,279	175,236,818	173,864,049	172,538,031	171,227,192

SUM OF STORMWATER BILLING & COLLECTION AND GA/IA CHARGE UNDER COS RATES

Stormwater Billings (Billing & Collection & GA/IA)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	87,577,547	87,577,476	87,577,405	87,577,333	87,577,262	87,577,191	87,577,120
SW Only	1,324,508	1,324,508	1,324,508	1,324,508	1,324,508	1,324,508	1,324,508
Discount Non-PHA							
Water & Sewer	3,612,892	3,612,892	3,612,892	3,612,892	3,612,892	3,612,892	3,612,892
SW Only	4,294	4,294	4,294	4,294	4,294	4,294	4,294
Discount PHA							
Water & Sewer	780,165	780,165	780,165	780,165	780,165	780,165	780,165
SW Only	40,017	40,017	40,017	40,017	40,017	40,017	40,017
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	93,339,424	93,339,353	93,339,281	93,339,210	93,339,139	93,339,068	93,338,997
Non-Residential							
Non-Discount							
Water & Sewer	69,254,017	68,245,655	68,019,715	67,271,667	66,247,991	65,267,292	64,298,079
SW Only	14,610,720	14,403,558	14,302,434	14,137,031	13,907,616	13,680,623	13,456,004
Discount Non-PHA							
Water & Sewer	8,697,241	8,634,926	8,676,881	8,626,975	8,557,757	8,489,270	8,421,498
SW Only	381,642	379,043	380,849	378,567	375,790	373,032	370,292
Discount PHA							
Water & Sewer	1,038,079	1,038,079	1,089,209	1,089,209	1,089,209	1,089,209	1,089,209
SW Only	282,184	281,782	285,765	285,363	284,960	284,558	284,155
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	94,263,884	92,983,042	92,754,852	91,788,812	90,463,323	89,183,984	87,919,237

Condominiums							
Non-Discount							
Water & Sewer	2,963,104	2,923,066	2,916,367	2,885,454	2,839,408	2,793,934	2,749,021
SW Only	96,295	96,295	96,636	96,636	96,636	96,636	96,636
Discount Non-PHA							
Water & Sewer	77,329	75,408	73,527	72,043	69,835	67,654	65,501
SW Only	2,265	2,265	2,265	2,265	2,265	2,265	2,265
Discount PHA							
Water & Sewer	880	880	880	880	880	880	880
SW Only	28	28	28	28	28	28	28
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,139,901	3,097,942	3,089,703	3,057,307	3,009,052	2,961,398	2,914,331
Total Stormwater Billings	190,743,209	189,420,337	189,183,837	188,185,329	186,811,514	185,484,450	184,172,565

	2019	2020	2021	2022	2023	2024	2025
Billing & Collection Stormwater Charges							
Water & Sewer	11,682,976	11,682,867	11,682,758	11,682,650	11,682,541	11,682,433	11,682,324
SW Only	1,268,674	1,267,737	1,266,799	1,265,861	1,264,924	1,263,986	1,263,048
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection Charges	12,951,650	12,950,604	12,949,557	12,948,511	12,947,465	12,946,419	12,945,372
Parcel Area Stormwater Charges							
Water & Sewer	162,318,279	161,205,680	161,064,283	160,233,970	159,092,859	157,996,056	156,912,042
SW Only	15,473,280	15,264,053	15,169,996	15,002,848	14,771,190	14,541,975	14,315,151
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Parcel Based Charges	177,791,559	176,469,733	176,234,279	175,236,818	173,864,049	172,538,031	171,227,192

PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR) **SW LagRate - 6**

Residential Billing & Collection charge	$	1.99	Adjusted for Discount Recovery & Lag Factor
Non Residential Billing & Collection charge	$	2.58	

Residential GA/IA charge	$15.81
Non Residential IA charge ($/500 sq ft)	$5.383
Non Residential GA charge ($/500 sq ft)	$0.765

Note Rounded the Non Residential IA/GA charge to 3 decimal places as shown in the PWD Regulations

PROJECTED BILLINGS UNDER PROPOSED RATES **SW LagRate - 7**

Stormwater Billings (Billing & Collection)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	10,261,140	10,261,132	10,261,124	10,261,116	10,261,107	10,261,099	10,261,091
SW Only	154,766	154,766	154,766	154,766	154,766	154,766	154,766
Discount Non-PHA							
Water & Sewer	422,819	422,819	422,819	422,819	422,819	422,819	422,819
SW Only	501	501	501	501	501	501	501
Discount PHA							
Water & Sewer	94,215	94,215	94,215	94,215	94,215	94,215	94,215
SW Only	4,673	4,673	4,673	4,673	4,673	4,673	4,673
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	10,938,116	10,938,107	10,938,099	10,938,091	10,938,083	10,938,074	10,938,066
Non-Residential							
Non-Discount							
Water & Sewer	1,215,861	1,215,829	1,215,796	1,215,764	1,215,732	1,215,699	1,215,667
SW Only	1,099,761	1,099,093	1,098,424	1,097,756	1,097,088	1,096,419	1,095,751
Discount Non-PHA							
Water & Sewer	53,011	52,938	52,866	52,793	52,720	52,647	52,575
SW Only	6,037	5,783	5,528	5,273	5,018	4,764	4,509
Discount PHA							
Water & Sewer	36,794	36,794	36,794	36,794	36,794	36,794	36,794
SW Only	58,236	58,179	58,123	58,067	58,010	57,954	57,898
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Non Residential	2,469,701	2,468,616	2,467,532	2,466,447	2,465,363	2,464,278	2,463,194

Condominiums							
Non-Discount							
Water & Sewer	137,772	137,772	137,772	137,772	137,772	137,772	137,772
SW Only	1,579	1,579	1,579	1,579	1,579	1,579	1,579
Discount Non-PHA							
Water & Sewer	10,821	10,821	10,821	10,821	10,821	10,821	10,821
SW Only	23	23	23	23	23	23	23
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	29	29	29	29	29	29	29
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Condominium	150,224	150,224	150,224	150,224	150,224	150,224	150,224
SubTotal Billing & Collection SW Charges (proposed)	13,558,041	13,556,948	13,555,855	13,554,762	13,553,669	13,552,577	13,551,484
W&S	12,232,434	12,232,321	12,232,207	12,232,094	12,231,980	12,231,867	12,231,753
SW Only	1,325,607	1,324,627	1,323,648	1,322,668	1,321,689	1,320,710	1,319,730
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection (Proposed Rates)	13,558,041	13,556,948	13,555,855	13,554,762	13,553,669	13,552,577	13,551,484

Stormwater Billings (GA/IA) (Proposed Rates)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	81,222,547	81,222,481	81,222,415	81,222,349	81,222,283	81,222,217	81,222,151
SW Only	1,228,816	1,228,816	1,228,816	1,228,816	1,228,816	1,228,816	1,228,816
Discount Non-PHA							
Water & Sewer	3,351,214	3,351,214	3,351,214	3,351,214	3,351,214	3,351,214	3,351,214
SW Only	3,984	3,984	3,984	3,984	3,984	3,984	3,984
Discount PHA							
Water & Sewer	720,756	720,756	720,756	720,756	720,756	720,756	720,756
SW Only	37,128	37,128	37,128	37,128	37,128	37,128	37,128
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	86,564,446	86,564,380	86,564,313	86,564,247	86,564,181	86,564,115	86,564,049
Non-Residential							
Non-Discount							
Water & Sewer	71,082,972	70,030,336	69,794,581	69,013,703	67,945,074	66,921,311	65,909,539
SW Only	14,153,234	13,937,650	13,832,776	13,660,786	13,421,969	13,185,682	12,951,872
Discount Non-PHA							
Water & Sewer	9,026,557	8,961,579	9,005,464	8,953,442	8,881,258	8,809,837	8,739,164
SW Only	392,384	389,926	392,066	389,939	387,295	384,670	382,064
Discount PHA							
Water & Sewer	1,046,925	1,046,925	1,100,307	1,100,307	1,100,307	1,100,307	1,100,307
SW Only	236,376	236,012	240,228	239,864	239,500	239,136	238,772
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Non Residential	95,938,449	94,602,429	94,365,421	93,358,040	91,975,402	90,640,943	89,321,717

Condominiums							
Non-Discount							
Water & Sewer	2,955,682	2,913,884	2,906,893	2,874,621	2,826,550	2,779,077	2,732,189
SW Only	98,950	98,950	99,306	99,306	99,306	99,306	99,306
Discount Non-PHA							
Water & Sewer	69,912	67,907	65,943	64,394	62,089	59,812	57,564
SW Only	2,341	2,341	2,341	2,341	2,341	2,341	2,341
Discount PHA							
Water & Sewer	919	919	919	919	919	919	919
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,127,804	3,084,001	3,075,402	3,041,581	2,991,205	2,941,455	2,892,318
SubTotal GA/IA Stormwater Billings	185,630,699	184,250,809	184,005,136	182,963,869	181,530,788	180,146,513	178,778,085
W&S	169,477,484	168,316,001	168,168,491	167,301,705	166,110,449	164,965,449	163,833,801
SW Only	16,153,215	15,934,808	15,836,645	15,662,164	15,420,339	15,181,063	14,944,284
xxxxxxxxxx	0	0	0	0	0	0	0
Total	185,630,699	184,250,809	184,005,136	182,963,869	181,530,788	180,146,513	178,778,085

SUM OF STORMWATER BILLING & COLLECTION AND GA/IA CHARGE UNDER PROPOSED RATES

Stormwater Billings (Billing & Collection & GA/IA)	2019	2020	2021	2022	2023	2024	2025
Residential							
Non-Discount							
Water & Sewer	91,483,687	91,483,613	91,483,539	91,483,464	91,483,390	91,483,316	91,483,241
SW Only	1,383,583	1,383,583	1,383,583	1,383,583	1,383,583	1,383,583	1,383,583
Discount Non-PHA							
Water & Sewer	3,774,033	3,774,033	3,774,033	3,774,033	3,774,033	3,774,033	3,774,033
SW Only	4,486	4,486	4,486	4,486	4,486	4,486	4,486
Discount PHA							
Water & Sewer	814,971	814,971	814,971	814,971	814,971	814,971	814,971
SW Only	41,802	41,802	41,802	41,802	41,802	41,802	41,802
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	97,502,561	97,502,487	97,502,413	97,502,338	97,502,264	97,502,189	97,502,115
Non-Residential							
Non-Discount							
Water & Sewer	72,298,833	71,246,165	71,010,377	70,229,467	69,160,806	68,137,011	67,125,206
SW Only	15,252,995	15,036,742	14,931,201	14,758,542	14,519,057	14,282,101	14,047,622
Discount Non-PHA							
Water & Sewer	9,079,568	9,014,518	9,058,330	9,006,235	8,933,978	8,862,485	8,791,738
SW Only	398,422	395,708	397,594	395,212	392,313	389,433	386,573
Discount PHA							
Water & Sewer	1,083,720	1,083,720	1,137,101	1,137,101	1,137,101	1,137,101	1,137,101
SW Only	294,612	294,192	298,351	297,931	297,510	297,090	296,670
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	98,408,150	97,071,045	96,832,953	95,824,488	94,440,765	93,105,221	91,784,911

Condominiums							
Non-Discount							
Water & Sewer	3,093,454	3,051,656	3,044,665	3,012,393	2,964,322	2,916,849	2,869,961
SW Only	100,529	100,529	100,885	100,885	100,885	100,885	100,885
Discount Non-PHA							
Water & Sewer	80,732	78,727	76,763	75,214	72,909	70,633	68,384
SW Only	2,364	2,364	2,364	2,364	2,364	2,364	2,364
Discount PHA							
Water & Sewer	919	919	919	919	919	919	919
SW Only	29	29	29	29	29	29	29
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,278,028	3,234,225	3,225,626	3,191,805	3,141,429	3,091,679	3,042,543
Total Stormwater Billings	199,188,740	197,807,757	197,560,992	196,518,631	195,084,457	193,699,089	192,329,569
	2019	2020	2021	2022	2023	2024	2025

Billing & Collection Stormwater Charges							
Water & Sewer	12,232,434	12,232,321	12,232,207	12,232,094	12,231,980	12,231,867	12,231,753
SW Only	1,325,607	1,324,627	1,323,648	1,322,668	1,321,689	1,320,710	1,319,730
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection Charges	13,558,041	13,556,948	13,555,855	13,554,762	13,553,669	13,552,577	13,551,484

Parcel Area Stormwater Charges

Water & Sewer	169,477,484	168,316,001	168,168,491	167,301,705	166,110,449	164,965,449	163,833,801
SW Only	16,153,215	15,934,808	15,836,645	15,662,164	15,420,339	15,181,063	14,944,284
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Parcel Based Charges	185,630,699	184,250,809	184,005,136	182,963,869	181,530,788	180,146,513	178,778,085

STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2021

SW LagRate - 8

Collection Factors	TY-2 2019	TY-1 2020	TY 2021	
Water, Sewer	1.90%	8.74%	86.68%	1,000
SW Only	6.57%	7.88%	63.19%	
xxxxxxxxxx			100.0%	

	TY-2 2019	TY-1 2020	TY 2021	Total Revenue
Residential				
Non-Discount				
Water & Sewer	1,498,187	7,071,732	79,297,931	87,867,851
SW Only	78,348	96,428	874,286	1,049,061
Discount Non-PHA				
Water & Sewer	61,805	291,734	3,271,332	3,624,871
SW Only	254	313	2,834	3,401
Discount PHA				
Water & Sewer	13,351	62,999	706,417	782,767
SW Only	2,367	2,913	26,414	31,695
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	1,654,311	7,526,120	84,179,215	93,359,646
Non-Residential				
Non-Discount				
Water & Sewer	1,313,454	6,142,009	61,551,795	69,007,258
SW Only	950	1,154,056	9,435,026	10,590,031
Discount Non-PHA				
Water & Sewer	164,975	777,999	7,851,761	8,794,735
SW Only	25,036	30,773	251,239	307,049
Discount PHA				
Water & Sewer	19,645	93,105	985,639	1,098,389
SW Only	18,346	22,342	188,528	229,216
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	1,542,407	8,220,284	80,263,987	90,026,678

Condominiums				
Non-Discount				
Water & Sewer	56,283	262,811	2,639,116	2,958,210
SW Only	6,320	7,819	63,749	77,889
Discount Non-PHA				
Water & Sewer	1,458	6,683	66,538	74,679
SW Only	149	184	1,494	1,827
Discount PHA				
Water & Sewer	17	79	797	893
SW Only	2	2	19	22
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	64,229	277,580	2,771,713	3,113,521
Total Stormwater Revenues	**3,260,947**	**16,023,984**	**167,214,915**	**186,499,845**

WCOS19_21.XLS

INDEX

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTF**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
UntIndx - Index	**P.N. 401641.0100**	**February 07, 2020 11:56 a.m.**					**Units-1**

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UntIndx	Index	Units-1	
EUOS	Estimated Units of Service for Retail Water Customers	Units-2	TABLE W-11
EWB	Equivalent Water Bills	Units-3	TABLE W-12
EWM	Equivalent Water Meters	Units-4	TABLE W-12

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PlntInd - Index	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-1

Fixed Asset Listing as of date: 6/30/2019

The "Plant" worksheet contains water plant data for the water treatment plants. It was developed using the Fixed Asset Listing as of 6/30/2019.

Whenever this worksheet is updated to reflect a new or more current fixed asset listing (FAL), all that is required is to input new data in Plant-2 through Plant-5. Depot totals from the FAL is all that is required. for the Water System.

Range	Description	Page Number	Table
PlntInd	Index	Plant-1	
OC1	Page 1 of OC and Net OC as of 6/30/2019	Plant-2	
OC2	Page 2 of OC and Net OC as of 6/30/2019	Plant-3	
OC3	Page 3 of OC and Net OC as of 6/30/2019	Plant-4	
OC4	Page 4 of OC and Net OC as of 6/30/2019	Plant-5	
WPI1	Page 1 of Water Plant Investment at 6/30/2019	Plant-6	
WPI2	Page 2 of Water Plant Investment at 6/30/2019	Plant-7	
WPIS	Water Plant Investment	Plant-8	
LCA	Calculation of Load Control Allocation	Plant-9	
APBC	Collection System Allocation and Wholesale Rate of Return	Plant-10	
xxxxx	NOT IN USE	Plant-11	
CPA	Plant Allocations	Plant-12	
FPA	Factors for Allocation of Plant Investment to Wholesal	Plant-13	
ADE	Annual Depreciation Expense	Plant-14	
PFS	Plant File Summary for Wpltallo	Plant-15	
PSWCPLANT	Aqua PA Plant, Depr, and Return	Plant-16	

The "Wpltallo" worksheet allocates water treatment plant investment and annual depreciation to cost functions.

Range	Description	Page Number	Table
WpltInd	Index	Wpltallo-1	
API	Allocation of Plant Investment	Wpltallo-2	TABLE W-8
ALLOCFAC1	Allocation Factors - Page 1	Wpltallo-3	
ALLOCFAC2	Allocation Factors - Page 2	Wpltallo-4	
ALLDEP	Allocation of Depreciation Expense	Wpltallo-5	TABLE W-9

The "Womallo" worksheet allocates Water System operation and maintenance expense to functional cost components.

Range	Description	Page Number	Table
WomaInd	Index	Womallo-1	
TYOME	Test Year O&M Expense	Womallo-2	
OMFAC	O&M by Facility	Womallo-3	
AOMF1	Adjusted O&M by Facility - Page 1	Womallo-4	
AOMF2	Adjusted O&M by Facility - Page 2	Womallo-5	
LDCNTRL	Load Control O&M Expense	Womallo-6	
DISTSYS	Distribution System O&M Expense	Womallo-7	
XXXXX	PAGE NOT IN USE	Womallo-8	
ADMIN	Allocation of Administrative Costs	Womallo-9	
MSMM	Machine Shop & Materials Mgmt O&M	Womallo-10	
DIROM	Allocation of Direct to O&M Facility	Womallo-11	
ADHR	Administrative & Human Resources O&M	Womallo-12	
xxxxx	NOT IN USE	Womallo-13	
ATOM	Allocation of Total O&M Expense	Womallo-14	
xxxxx	NOT IN USE	Womallo-15	
OMALLO	Allocation of O&M Expense - Table	Womallo-16	TABLE W-10
ATACC	Allocated Treatment & Conveyance Costs	Womallo-17	
PSWCOMAL	Aqua PA Allocated O&M	Womallo-18	

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2021	Budget Yr 2019	Ver. 1a
RetcInd - Index	P.N. 401641.0100	February 07, 2020 2:42 p.m.		Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It also develops wholesale cost of service water rates for Bucks County and Aqua PA.

Range	Description	Page Number	Table
RetcInd	Index	Retcos-1	
UCOS	Unit Cost of Service	Retcos-2	TABLE W-14
ACOS	Allocated Cost of Service to Customer Types	Retcos-3	TABLE W-15
ADJCOS	Adjusted Cost of Service to Customer Types	Retcos-4	TABLE W-16
BCPC	Bucks County Proposed Charges	Retcos-5	
PSWCRate	Aqua PA Proposed Rates	Retcos-6	TABLE W-13A

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
RatesInd - Index	**(PWD) P.N. 401641.0100**	**February 07, 2020 2:42 p.m.**				**Rates-1**

The "Rates" worksheet develops retail cost of service rates before recognizing billing lag and rate implementation refinements.

Range	Description	Page Number	Table
RatesInd	Index	Rates-1	
ADJC	Adjusted COS by Class	Rates-2	
COSR	COS Rates	Rates-3	
BILLCOS	Billings Under COS Rates	Rates-4	

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year	2021	Budget Yr	2019	Ver. 1a
LagInd - Index	P.N. 401641.0100	February 10, 2020 9:50 p.m.				LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Water System rates for the test year and two following years.

Range	Description	Page Number	Table
LagInd	Index	LagRate-1	
RATES	Existing and COS Rates	LagRate-2	
PBAC	Projected Bills, Accounts, and Consumption	LagRate-3	
PWR	Projected Water Receipts	LagRate-4	
BER	Test Year Billings Under Existing Rates	LagRate-5	
BPR	Projected Billings Under Proposed Rates	LagRate-6	
SBPR	Summary of Projected Billings Under Proposed Rates	LagRate-7	
RWL	Calculation of Receipts with Lag	LagRate-8	
TYRWL	Test Year Retail Receipts with Lag	LagRate-9	
COSWL	Inflated COS Rates to Account for Lag	LagRate-10	
REVCOMP	Comparison of Revenue Under Exist. Rates to COS	LagRate-11	TABLE W-17
CPRATES	Water & Wastewater Proposed Rates	LagRate-12	
WPRATES	Water Proposed Rates	LagRate-13	TABLE W-18 and TABLE W-19
BTAB	BillTab Billing Percentages	LagRate-14	
WSERVCHG	Components of Water Service Charges	LagRate-15	
WSERVCHG	Summary of Components Water Service Charges	LagRate-16	

WCOS19_21.XLS

UNITS

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTF**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
UntIndx - Index	**P.N. 401641.0100**	**February 07, 2020 11:56 a.m.**					**Units-1**

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UntIndx	Index	Units-1	
EUOS	Estimated Units of Service for Retail Water Customers	Units-2	TABLE W-11
EWB	Equivalent Water Bills	Units-3	TABLE W-12
EWM	Equivalent Water Meters	Units-4	TABLE W-12

References: Financial Planning Model - Customer

TABLE W-11

ESTIMATED UNITS OF SERVICE FOR RETAIL WATER CUSTOMERS
TEST YEAR 2021

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
				Maximum Day Extra Capacity			Maximum Hour Extra Capacity			Customer Cost			Percent
Line No.	Customer Class	Total Test Year Water Use Mcf Ref. A	Average Daily Water Use Mcf/day (1) / 365	Capacity Factor %	Total Capacity Mcf/day (2) x (3) /100	Extra Capacity (a) Mcf/day (4) - (2)	Capacity Factor %	Total Capacity Mcf/day (2) x (6) / 100	Extra Capacity (b) Mcf/day (7) - (4)	Equiv. Meters Units-4	Equiv. Bills Units-3	Equiv. Services Units-4	Distribution of General Service
1	Residential	2,958,300	8,100	200	16,200	8,100	360	29,160	12,960	457,953	5,103,438	424,082	89.98%
2	Senior Citizens	123,000	340	200	680	340	360	1,220	540	23,496	281,649	23,472	
3	Commercial (c)	1,574,500	4,310	180	7,760	3,450	265	11,420	3,660	125,374	546,434	37,570	9.63%
4	Industrial	125,500	340	160	540	200	200	680	140	5,942	18,371	1,131	0.32%
5	Public Utilities	9,300	30	160	50	20	200	60	10	1,335	3,450	177	0.06%
6	Total General Service (c)	4,790,600	13,120	192	25,230	12,110	324	42,540	17,310	614,100	5,953,342	486,431	100.00%
7	Housing Authority	157,300	430	190	820	390	313	1,340	520	10,199	75,555	5,922	
	Charities & Schools												
8	Charities & Schools	157,200	430	180	770	340	270	1,160	390	19,084	47,449	1,881	
9	Hospital/University	289,800	790	180	1,420	630	233	1,840	420	9,970	17,848	186	
10	Charities and Schools	447,000	1,220	180	2,190	970	246	3,000	810	29,054	65,297	2,067	
11	Hand Billed	449,400	1,230	180	2,210	980	270	3,320	1,110	6,071	10	0	
12	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	
13	Scheduled (Flat Rate)	0	0	200	0	0	360	0	0	3	36	3	
14	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	
	Fire Protection												
15	Public		0		980	980		2,550	1,570				
16	Private	13,900	40		170	130		380	210	3,817	340,436	0	
17	Total Retail Customers	5,858,200	16,040	197	31,600	15,560	331	53,130	21,530	663,244	6,434,676	494,424	

(a) Capacity in excess of average daily use.
(b) Capacity in excess of maximum day.
(c) Includes City and City Leased properties.

Mcf - thousand cubic feet

Line No.	Customer Class	Total Test Year Water Use Mcf	Average Daily Water Use Mcf/day	Capacity Factor %	Total Capacity Mcf/day	Capacity Factor %	Total Capacity Mcf/day	
1	Retail Demand Excluding Fire Protection	5,844,300	16,000	190	30,450	314	50,200	
2	Wholesale (Aqua PA)	64,000	175	241	421	687	1,203	Womallo-17
3	PWD Facilities	300,000	822	160	1,315	200	1,644	
4	Subtotal Metered Demand	6,208,300	16,997		32,186		53,047	
5	Estimated Non-Revenue Water based on % of System Metered Demand		12,207	100	12,207	100	12,207	
6	Estimated Total System Non-Coincidental Demand		29,204	152	44,393	223	65,254	
7	System Coincidental Demand Peaking Factor			140	Wpltallo-3	190	Wpltallo-4	
8	Diversity Factor			1.09		1.18		
	Estimated System Loses	41.8%						

Reflects FY 2018 and FY 2017 two year average (Water Audit Data - Series 2019B Bond OS).

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTF Test Year 2021 Budget Yr 2019** **Ver. 1a**
EWB - Equivalent Water Bills **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Units-3**

References: Financial Plan Model - Customer-1 and Assumptions-41

Line No.	Customer Class	Total Number of Bills	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
	Equivalent Bill Factor		1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
	GENERAL SERVICE														
	Residential (excluding Senior Citizens)														
1	Bills	5,068,404	4,961,784	780	75,636	0	10,392	14,640	1,932	1,404	1,332	444	48	12	
2	Equivalent Bills	5,103,438	4,961,784	780	83,200	0	12,470	21,960	3,864	5,616	9,324	4,440	720	240	
	Senior Citizens														
3	Bills	281,628	281,520	0	72	0	12	24	0	0	0	0	0	0	
4	Equivalent Bills	281,649	281,520	0	79	0	14	36	0	0	0	0	0	0	
	Commercial														
5	Bills	440,964	337,704	132	37,560	0	16,272	24,840	9,384	7,692	5,160	1,776	360	84	
6	Equivalent Bills	546,434	337,704	132	41,316	0	19,526	37,260	18,768	30,768	36,120	17,760	5,400	1,680	
	Industrial														
7	Bills	12,768	6,168	0	2,880	0	984	1,452	648	228	264	108	36	0	
8	Equivalent Bills	18,371	6,168	0	3,168	0	1,181	2,178	1,296	912	1,848	1,080	540	0	
	Public Utilities														
9	Bills	2,076	888	0	372	0	144	312	192	72	60	24	12	0	
10	Equivalent Bills	3,450	888	0	409	0	173	468	384	288	420	240	180	0	
	Total Gen'l Service Bills Incl SC														
10	Bills	5,805,840	5,588,064	912	116,520	0	27,804	41,268	12,156	9,396	6,816	2,352	456	96	
11	Equivalent Bills	5,953,342	5,588,064	912	128,172	0	33,364	61,902	24,312	37,584	47,712	23,520	6,840	1,920	
	ALL OTHER THAN GENERAL SERVICE														
	Housing Authority														
12	Bills	70,524	65,532	0	1,092	0	1,512	1,200	456	360	288	84	0	0	
13	Equivalent Bills	75,555	65,532	0	1,201	0	1,814	1,800	912	1,440	2,016	840	0	0	
	Charities & Schools														
	Charities & Schools														
14	Bills	25,956	11,844	0	3,108	0	1,512	2,616	2,532	3,264	864	192	24	0	
15	Equivalent Bills	47,449	11,844	0	3,419	0	1,814	3,924	5,064	13,056	6,048	1,920	360	0	
	Hospital/University														
16	Bills	4,872	372	0	337	0	132	638	1,059	1,155	926	205	48	0	
17	Equivalent Bills	17,848	372	0	371	0	158	957	2,118	4,620	6,482	2,050	720	0	
	Hand Billed														
18	Bills	2,892	120	0	96	0	120	384	780	780	420	156	36	0	
19	Equivalent Bills	10,666	120	0	106	0	144	576	1,560	3,120	2,940	1,560	540	0	
	xxxxxxxxxx														
20	Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Scheduled (Flat Rate)														
22	Bills	36	36	0	0	0	0	0	0	0	0	0	0	0	
23	Equivalent Bills	36	36	0	0	0	0	0	0	0	0	0	0	0	
	xxxxxxxxxx														
24	Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Private Fire Connections & Fire Meters														
26	Bills	110,076	541	260	18,921	0	2,797	20,708	1,173	7,990	11,698	3,949	508	94	
27	Equivalent Bills	340,436	2,164	1,040	75,684	0	11,188	82,832	4,692	31,960	81,886	39,490	7,620	1,880	
			Equivalent Bills - 4" and less based on 4" ratio (consistent with basis of the private fire charges)												
	Total														
28	Bills	6,020,196	5,666,509	1,172	140,074	0	33,877	66,814	18,156	22,945	21,012	6,938	1,072	190	
29	Equivalent Bills	6,445,332	5,668,132	1,952	208,953	0	48,482	151,991	38,658	91,780	147,084	69,380	16,080	3,800	

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTF Test Year 2021 Budget Yr 2019** **Ver. 1a**
EWM - Equivalent Water Meters **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Units-4**

References: Units-3

Line No.		Total Number of Meters	5/8	3/4	1	1 1/4	1 1/2	2	3	4	6	8	10	12	14
	Equivalent Meter Factor (Capacity)		1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
	Equivalent Meter Factor (Service)		1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	
	GENERAL SERVICE														
	Residential (excluding Senior Citizens)														
1	Meters	422,367	413,482	65	6,303	0	866	1,220	161	117	111	37	4	1	
2	Equivalent Meters	457,953	413,482	98	15,758	0	4,330	9,760	2,415	2,925	5,550	2,960	460	215	
3	Equivalent Service	424,082	413,482	65	6,933	0	1,039	2,562	0	0	0	0	0	0	0
	Senior Citizens														
4	Meters	23,469	23,460	0	6	0	1	2	0	0	0	0	0	0	
5	Equivalent Meters	23,496	23,460	0	15	0	5	16	0	0	0	0	0	0	
6	Equivalent Service	23,472	23,460	0	7	0	1	4	0	0	0	0	0	0	0
	Commercial														
7	Meters	36,747	28,142	11	3,130	0	1,356	2,070	782	641	430	148	30	7	
8	Equivalent Meters	125,374	28,142	17	7,825	0	6,780	16,560	11,730	16,025	21,500	11,840	3,450	1,505	
9	Equivalent Service	37,570	28,142	11	3,443	0	1,627	4,347	0	0	0	0	0	0	0
	Industrial														
10	Meters	1,064	514	0	240	0	82	121	54	19	22	9	3	0	
11	Equivalent Meters	5,942	514	0	600	0	410	968	810	475	1,100	720	345	0	
12	Equivalent Service	1,131	514	0	264	0	98	254	0	0	0	0	0	0	0
	Public Utilities														
13	Meters	173	74	0	31	0	12	26	16	6	5	2	1	0	
14	Equivalent Meters	1,335	74	0	78	0	60	208	240	150	250	160	115	0	
15	Equivalent Service	177	74	0	34	0	14	55	0	0	0	0	0	0	0
	Total Gen'l Service Mtrs. Incl SC														
16	Meters	483,820	465,672	76	9,710	0	2,317	3,439	1,013	783	568	196	38	8	
17	Equivalent Meters	614,100	465,672	115	24,276	0	11,585	27,512	15,195	19,575	28,400	15,680	4,370	1,720	
18	Equivalent Service	486,431	465,672	76	10,681	0	2,780	7,222	0	0	0	0	0	0	
	ALL OTHER THAN GENERAL SERVICE														
	Housing Authority														
19	Meters	5,877	5,461	0	91	0	126	100	38	30	24	7	0	0	
20	Equivalent Meters	10,199	5,461	0	228	0	630	800	570	750	1,200	560	0	0	
21	Equivalent Service	5,922	5,461	0	100	0	151	210	0	0	0	0	0	0	0
	Charities & Schools														
	Charities & Schools														
22	Meters	2,163	987	0	259	0	126	218	211	272	72	16	2	0	
23	Equivalent Meters	19,084	987	0	648	0	630	1,744	3,165	6,800	3,600	1,280	230	0	
24	Equivalent Service	1,881	987	0	285	0	151	458	0	0	0	0	0	0	0
	Hospital/University														
25	Meters	405	31	0	28	0	11	53	88	96	77	17	4	0	
26	Equivalent Meters	9,970	31	0	70	0	55	424	1,320	2,400	3,850	1,360	460	0	
27	Equivalent Service	186	31	0	31	0	13	111	0	0	0	0	0	0	0
	Hand Billed														
24	Meters	241	10	0	8	0	10	32	65	65	35	13	3	0	
25	Equivalent Meters	6,071	10	0	20	0	50	256	975	1,625	1,750	1,040	345	0	
26	Equivalent Service	98	10	0	9	0	12	67	0	0	0	0	0	0	0
	xxxxxxxxxx														
28	Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Scheduled (Flat Rate)														
31	Meters	3	3	0	0	0	0	0	0	0	0	0	0	0	
32	Equivalent Meters	3	3	0	0	0	0	0	0	0	0	0	0	0	
33	Equivalent Service	3	3	0	0	0	0	0	0	0	0	0	0	0	0

	xxxxxxxxxx														
34	Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Private Fire Connections														
37	Meters	5,721	45	22	1,577	0	233	1,726	98	666	975	329	42	8	
38	Equivalent Meters (5/8")	190,795	1,125	550	39,425	0	5,825	43,150	2,450	16,650	48,750	26,320	4,830	1,720	
39	Equivalent Meters (6")	3,817	23	11	789	0	117	863	49	333	975	526	97	34	
			Equivalent Meters - 4" and less based on 4" meter ratio (consistent with basis of the private fire charges)												
	Total														
40	Meters	498,230	472,209	98	11,673	0	2,823	5,568	1,513	1,912	1,751	578	89	16	
41	Equivalent Meters (5/8")	850,222	473,289	665	64,667	0	18,775	73,886	23,675	47,800	87,550	46,240	10,235	3,440	

WCOS19_21.XLS

PLANT

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PlntInd - Index	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-1

Fixed Asset Listing as of date: 6/30/2019

The "Plant" worksheet contains water plant data for the water treatment plants. It was developed using the Fixed Asset Listing as of 6/30/2019.

Whenever this worksheet is updated to reflect a new or more current fixed asset listing (FAL), all that is required is to input new data in Plant-2 through Plant-5. Depot totals from the FAL is all that is required. for the Water System.

Range	Description	Page Number	Table
PlntInd	Index	Plant-1	
OC1	Page 1 of OC and Net OC as of 6/30/2019	Plant-2	
OC2	Page 2 of OC and Net OC as of 6/30/2019	Plant-3	
OC3	Page 3 of OC and Net OC as of 6/30/2019	Plant-4	
OC4	Page 4 of OC and Net OC as of 6/30/2019	Plant-5	
WPI1	Page 1 of Water Plant Investment at 6/30/2019	Plant-6	
WPI2	Page 2 of Water Plant Investment at 6/30/2019	Plant-7	
WPIS	Water Plant Investment	Plant-8	
LCA	Calculation of Load Control Allocation	Plant-9	
APBC	Collection System Allocation and Wholesale Rate of Return	Plant-10	
xxxxx	NOT IN USE	Plant-11	
CPA	Plant Allocations	Plant-12	
FPA	Factors for Allocation of Plant Investment to Wholesal	Plant-13	
ADE	Annual Depreciation Expense	Plant-14	
PFS	Plant File Summary for Wpltallo	Plant-15	
PSWCPLANT	Aqua PA Plant, Depr, and Return	Plant-16	

Assets data from Fixed Asset Listing. See Summary data input on PLANT worksheet - Sewer Model.

Location (Depot)		Net Original Cost $
SOURCE OF SUPPLY PLANT		
39	Struc. & Imprvmts-Fairmount Water Works	
39	Equip.-Fairmount Water Works	
	Total Fairmount Water Works	5,290,983
	Total Source of Supply Plant	5,290,983
RAW WATER PUMPING PLANT		
1	Struc. & Imprvmts-Belmont RWPS	
1	Equip.-Belmont RWPS	
1	Struc. & Imprvmts-Belmont RWPS, 36RW-Main	
	Total Belmont RWPS	5,177,464
6	Struc. & Imprvmts-Queen Lane RWPS	
6	Equip.-Queen Lane RWPS	
6	Struc. & Imprvmts-Queen Lane RWPS, Mains	
	Total Queen Lane RWPS	11,097,359
17	Struc. & Imprvmts-Torresdale RWPS	
17	Equip.-Torresdale RWPS	
17	Struc. & Imprvmts-Torresdale RWPS, Mains	
	Total Torresdale RWPS	5,063,798
	Total Raw Water Pumping Plant	21,338,621

The values on this page were extracted from the Fixed Asset Listing for 6/30/2019. They do not include any consideration of CWIP at 6/30/2019 or any capital program additions after 6/30/2019. Detail showing structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asset printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depot number are shown below.

Location (Depot)		Net Original Cost $
TREATED WATER PUMPING PLANT		
26	Struc. & Imprvmts-East Park FWPS	
26	Equip.-East Park FWPS	
26	Struc. & Imprvmts-East Park FWPS, Mains	
	Total East Park FWPS	1,803,475
22	Struc. & Imprvmts-Foxchase FWPS	
22	Equip.-Foxchase FWPS	
22	Struc. & Imprvmts-Foxchase FWPS, Mains	
	Total Foxchase FWPS	5,873,963
23	Struc. & Imprvmts-Oak Lane FWPS	
23	Equip.-Oak Lane FWPS	
	Total Oak Lane FWPS	4,212,951
11	Struc. & Imprvmts-Roxborough HS FWPS	
11	Equip.-Roxborough HS FWPS	
	Total Roxborough HS FWPS	3,410,949
30	Struc. & Imprvmts-West Oak Lane FWPS	
30	Equip.-West Oak Lane FWPS	
	Total West Oak Lane FWPS	589,951
18	Struc. & Imprvmts-Torresdale FWPS	
18	Equip.-Torresdale FWPS	
18	Struc. & Imprvmts-Torresdale FWPS, Mains	
	Total Torresdale FWPS	11,777,661
19	Struc. & Imprvmts-Torresdale HS FWPS	
19	Equip.-Torresdale HS FWPS	
	Total Torresdale HS FWPS	4,629,288
25	Struc. & Imprvmts-Lardner's Point FWPS	
25	Equip.-Lardner's Point FWPS	
25	Struc. & Imprvmts-Lardner's Point FWPS, Mains	
	Total Lardner's Point FWPS	3,550,621
2	Struc. & Imprvmts-Belmont FWPS	
2	Equip.-Belmont FWPS	
	Total Belmont FWPS	15,633,646
7	Struc. & Imprvmts-Queen Lane HS FWPS	
7	Equip.-Queen Lane HS FWPS	
	Total Queen Lane HS FWPS	24,109,126
5	Struc. & Imprvmts-HS to Roxborough Expressway	
5	Equip.-HS to Roxborough Expressway	
	Total HS to Roxborough Expressway	0
	Total Treated Water Pumping Plant	75,591,631

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
OC3 - Page 3 of OC and Net OC as of 6/30/2019	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-4

The values on this page were extracted from the Fixed Asset Listing for 6/30/2019. They do not include any consideration of CWIP at 6/30/2019 or any capital program additions after 6/30/2019. Detail showing structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asset printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depot number are shown below.

Location (Depot)		Net Original Cost $	
HIGH PRESSURE FIRE PUMPING PLANT			**High Pressure Fire System was decommissioned.**
28	Struc. & Imprvmts-Race Street HP PS		
28	Equip.-Race Street HP PS		
28	Struc. & Imprvmts-Race Street HP PS, Mains		
	Total Race Street HP PS	0	
29	Struc. & Imprvmts-Fairhill HP PS		
29	Equip.-Fairhill HP PS		
	Total Fairhill HP PS	0	
	Total High Pressure Fire Pumping Plant	0	
WATER PURIFICATION AND TREATMENT PLANT			
3	Struc. & Imprvmts-Belmont Filters		
3	Equip.-Belmont Filters		
	Total Belmont Filters	99,897,434	
13	Struc. & Imprvmts-Lower Roxborough Filters		
13	Equip.-Lower Roxborough Filters		
	Total Lower Roxborough Filters	57,752	
12	Struc. & Imprvmts-Upper Roxborough Filters		
12	Equip.-Upper Roxborough Filters		
	Total Upper Roxborough Filters	4,587,878	
8	Struc. & Imprvmts-Queen Lane Filters		
8	Equip.-Queen Lane Filters		
8	Struc. & Imprvmts-Queen Lane Filters, Mains		
	Total Queen Land Filters	97,661,699	
20	Struc. & Imprvmts-Baxter Filters		
20	Equip.-Baxter Filters		
	Total Baxter Filters	147,794,941	
	Total Water Purification and Treatment Plant	349,999,705	
TRANSMISSION & DISTRIBUTION PLANT			
1,000	Struc. & Imprvmts-Mains	874,216,781	
24	Struc. & Imprvmts-Oak Lane Reservoir		
24	Equip.-Oak Lane Reservoir		
	Total Oak Lane Reservoir	8,277,367	
27	Struc. & Imprvmts-East Park Reservoir		
27	Equip.-East Park Reservoir		
	Total East Park Reservoir	4,241,489	
80	Struc. & Imprvmts-Somerton Tanks		
80	Equip.-Somerton Tanks		
	Total Somerton Tanks	4,211,694	
	Total Transmission & Distribution Plant	890,947,331	

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
OC4 - Page 4 of OC and Net OC as of 6/30/2019	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-5

The values on this page were extracted from the Fixed Asset Listing for 6/30/2019. They do not include any consideration of CWIP at 6/30/2019 or any capital program additions after 6/30/2019. Detail showing structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asset printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depot number are shown below.

Location (Depot)	Description	Net Original Cost $				
ADMINISTRATIVE & GENERAL PLANT						
0	Undetermined Location					
	Total Undetermined Location (a)	33,535,735				
31	Struc. & Imprvmts-Load Control Center					
31	Equip.-Load Control Center					
	Total Load Control Center	4,349,283				
32	Struc. & Imprvmts-Distribution					
32	Equip.-Distribution					
	Total Distribution	27,641,345				
33	Struc. & Imprvmts-Automotive Garage					
33	Equip.-Automotive Garage					
	Total Automotive Garage	5,178,258				
34	Struc. & Imprvmts-ARA Towers					
34	Equip.-ARA Towers					
	Total ARA Towers	8,041,927				
35	Struc. & Imprvmts-Design					
35	Equip.-Design					
	Total Design Related	324,194				
36	Struc. & Imprvmts-Testing Laboratory					
36	Equip.-Testing Laboratory					
	Total Testing Laboratory	0				
40	Struc. & Imprvmts-Meter Shop					
40	Equip.-Meter Shop					
	Total Meter Shop	2,000,199				
45	Struc. & Imprvmts-Building Maintenance					
45	Equip.-Building Maintenance					
	Total Building Maintenance	5,820,916				
47	Struc. & Imprvmts-Central Stores					
47	Equip.-Central Stores					
	Total Central Stores	392,415				
49	Struc. & Imprvmts-IBM Unit 29th & Cambia					
49	Equip.-IBM Unit 29th & Cambia					
	Total IBM Unit 29th & Cambil	529,038				
42	Struc. & Imprvmts-Auto Repair Facility					
42	Equip.-Auto Repair Facility					
	Total Auto Repair Facility	960,935				
43	Struc. & Imprvmts-Centralized Laboratory					
43	Equip.-Centralized Laboratory					
	Total Centralized Laboratory	20,018,584				
44	Struc. & Imprvmts-Repair Shop					
44	Equip.-Repair Shop					
	Total Repair Shop	491,938				
	Total Administrative & General Plant	108,960,573	Excludes Depot 35			
Total Water and Administrative & General Plant		1,452,453,039	Comparable total from SCOS file	1,452,453,039	Difference =	0
				0		

(a) Consists of other costs that cannot be assigned to other depots, such as fringe benefits, gas mains, general engineering, etc.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
WPI1 - Page 1 of Water Plant Investment at 6/30/2019	P.N. 401641.0100	February 07, 2020 11:56 a.m.			Plant-6

Reference: Fixed Asset Listing

Line No.	Description	(1) Depot No.	(2) Land	(3) Not Used	(4) Not Used	(5) Total Building & Related	(6) Total
		$	$	$	$	$	$ (2) + (5)
	Source of Supply:						
1	Fairmount Water Works (a)	39	150,000			5,290,983	5,440,983
2	Manayunk Canal	81	50,000				50,000
3	Subtotal		200,000			5,290,983	5,490,983
	Raw Water						
4	Belmont	1	12,200			5,177,464	5,189,664
5	Queen Lane	6	19,239			11,097,359	11,116,598
6	Torresdale	17				5,063,798	5,063,798
7	Torresdale Intake Conduit						0
8	Torresdale Raw Water Basin						0
9							
10	Subtotal		31,439			21,338,621	21,370,060
	Treated Water						
11	East Park	26	3,000			1,803,475	1,806,475
12	Foxchase	22	5,000			5,873,963	5,878,963
13	Oak Lane	23				4,212,951	4,212,951
14	Roxborough High Service	11				3,410,949	3,410,949
15	West Oak Lane	30	16,614			589,951	606,565
16	Torresdale Low Service (BOX 1)	18				8,847,070	8,847,070
17	Torresdale High Service (BOX 1)	19				7,559,880	7,559,880
18	Lardner's Point	25	45,000			3,550,621	3,595,621
19	Belmont High Service	2				15,633,646	15,633,646
20	Queen Lane High Service	7				24,109,126	24,109,126
21	Roxborough Exp. High Service	5				0	0
22	Chestnut Hill	14	1,000				1,000
23	Subtotal		70,614			75,591,631	75,662,245
	High Pressure Fire						
24	Race Street	28	0			0	0 **High Pressure Fire System was decommissioned.**
25	Fairhill	29	0			0	0 **High Pressure Fire System was decommissioned.**
26	Subtotal		0			0	0
	Purification & Treatment						
27	Belmont Filters	3	273,443			99,897,434	100,170,877
28	Lower Roxborough Filters	13	2,500			57,752	60,252
29	Upper Roxborough Filters	12	63,000			4,587,878	4,650,878
30	Queen Lane Filters	8	677,180			97,661,699	98,338,879
31	Torresdale Filters/Baxter Filters	20	309,000			147,794,941	148,103,941
32	Belmont Control Center	48					0
33	Subtotal		1,325,123			349,999,705	351,324,828

BOX 1-Split of Total Torresdale Low & High Service Depots Investment to Low & High Service

Depot 19 only includes investment for the Torresdale high service F.W.P.S. reservoir. It is assumed the pumping & related investment associated with Depot 19 is included in Depot 18 (Torresdale F.W.P.S.) investment. Because the description of investment in Depot 18 is not sufficient to determine which investment is associated with high and low service, prorate the investment in Depot 18 between Torresdale high service and low service on the basis of the pump capacities of each.

	Investment		Pump Capacities	
	$		mgd	
Depot 18 (Low Service)	11,777,661	Plant-3	160	Plant-9
Depot 19 (High Service)	4,629,288	Plant-3	53	Plant-9
Total	16,406,950		213	

Proration of Depot 18 investment to low and high service:

Low Service	$11,777,661*(160/213)= $	8,847,070
High Service	$11,777,661*(53/213)= $	2,930,591

Total Torresdale Investment Split Between Low and High Service:

	Depot 18	Depot 19	Total
	$	$	$
Low Service	8,847,070		8,847,070
High Service	2,930,591	4,629,288	7,559,880
Total	11,777,661	4,629,288	16,406,950

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
WPI2 - Page 2 of Water Plant Investment at 6/30/2019 | P.N. 401641.0100 | February 07, 2020 11:56 a.m. | Plant-7

Reference: Fixed Asset Listing

Line No.	Description	(1) Depot No. $	(2) Land $	(3) Not Used $	(4) Not Used $	(5) Total Building & Related $	(6) Total $ (2) + (5)
	Transmission & Distribution - Mains						
34	Mains-Total					873,779,539	873,779,539
	Transmission & Distribution - Other						
35	Oak Lane Reservoir	24	64,776			8,277,367	8,342,143
36	East Park Reservoir	27	100,000			4,241,489	4,341,489
37	Somerton Tanks	80	17,000			4,211,694	4,228,694
38	Deepwell Transfer (b)					7,655	7,655
39	Roxborough Tanks (b)					0	0
40	Filtered Water Storage (b)					39,587	39,587
41	George Hill Reservoir (b)					390,000	390,000
42	Meters (c)					25,887,942	25,887,942
43	Hydrants					9,200,000	9,200,000
44	Subtotal		181,776			52,255,734	52,437,510
	Administration & General (BOX 2)						
45	Undetermined Location	0				16,767,868	16,767,868
46	Load Control Center	31				4,349,283	4,349,283
47	Distribution	32	65,470			27,641,345	27,706,815
48	Logan Street Garage	33	25,800			2,226,651	2,252,451
49	MSB 11th Floor ARA Towers	34				4,020,963	4,020,963
50	Design Branch	35				181,549	181,549
51	Testing Laboratory	36				0	0
52	Research & Development	37				0	0
53	Survey & Construction	38				0	0
54	Meter Shop	40				1,000,099	1,000,099
55	Customer Service	41				0	0
56	Centralized Laboratory	43				10,009,292	10,009,292
57	Plant Maintenance/Repair Shop	44				186,936	186,936
58	Building Maintenance	45				5,529,870	5,529,870
59	Central Stores	47				196,207	196,207
60	IBM Unit	49				264,519	264,519
61	N.E. Corner Fox and Roberts	42	113,355			365,155	478,510
62	Subtotal		204,625			72,739,737	72,944,362
63	TOTAL		2,013,577			1,450,995,950	1,453,009,527

Notes:
(a) Land valued at $ 150,000 From previous study (no change in value of Land Assets per CAFR)
(b) Currently included in Depot 0 - Water T&D Other (1/19/2008). Roxborough Tanks retired
(c) Meters and radios assets obtained from Meters and other improvements.xls file provided by PWD.

BOX 2 - SPLIT OF A&G PLANT BETWEEN WATER AND SEWER

		(1) Land $ Ref: Prior Study	(2) Total Building & Related $ Ref. B	(3) Percent Water $ WG-1.3	(4) Water Allocated Land $ (1)*(3)	(5) Water - Total Building & Related $ (2)*(3)	(6) Sewer - Total Building & Related $ (1)+(2)-(4)-(5)
Admin. & General							
Undetermined Location	0		33,535,735	50.00%	0	16,767,868	16,767,867
Load Control Cntr	31		4,349,283	100.00%	0	4,349,283	0
Distribution	32	65,470	27,641,345	100.00%	65,470	27,641,345	(0)
Logan Street Garage	33	60,000	5,178,258	43.00%	25,800	2,226,651	2,985,807
MSB 11th Fl ARA Twr (6)	34		8,041,927	50.00%	0	4,020,963	4,020,964
Design Branch	35		324,194	56.00%	0	181,549	142,645
Testing Laboratory	36		0	38.00%	0	0	0
Research & Development	37			38.00%	0	0	0
Survey & Construction	38			56.00%	0	0	0
Meter Shop	40		2,000,199	50.00%	0	1,000,099	1,000,100
Customer Service	41			50.00%	0	0	0
Centralized Laboratory	43		20,018,584	50.00%	0	10,009,292	10,009,292
Plant Maint/Repair Shop	44		491,938	38.00%	0	186,936	305,002
Building Maintenance	45		5,820,916	95.00%	0	5,529,870	291,046
Central Stores	47		392,415	50.00%	0	196,207	196,208
IBM Unit	49		529,038	50.00%	0	264,519	264,519
N.E. Corner Fox & Rbrts	42	298,303	960,935	38.00%	113,355	365,155	780,728
		423,773	109,284,767		204,625	72,739,737	36,764,178
TOTAL A&G ($423,773 + $109,284,767)				109,708,540			
TOTAL A&G ALLOCATED TO WATER				72,944,362			
TOTAL A&G ALLOCATED TO SEWER ($109,708,540 - $72,944,362)				36,764,178			

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
WPIS - Water Plant Investment	P.N. 401641.0100	February 07, 2020 11:56 a.m.			Plant-8

Reference:

Line No.	Description	(1) Land $ Plant-6	(2) Buildings, Improvements & Equipment $ Plant-6	(3) Total Plant Investment @6/30/2019 $ (1)+(2)	(4) Allocated Load Control $ Plant-9	(5) Estimated Capitalized Interest $	(6) Plant Additions $	(7) Total Plant @6/30/2019 $
	Source of Supply:							
1	Fairmount Water Works (a)	150,000	5,290,983	5,440,983				5,440,983
2	Manayunk Canal (a)	50,000	0	50,000				50,000
3	Total	200,000	5,290,983	5,490,983				5,490,983
	Power & Pumping:							
	Raw Water							
4	Belmont	12,200	5,177,464	5,189,664				5,189,664
5	Queen Lane	19,239	11,097,359	11,116,598				11,116,598
6	Torresdale	0	5,063,798	5,063,798				5,063,798
7	Torresdale Intake Conduit	0	0	0				0
8	Torresdale Raw Water Basin	0	0	0				0
9	Total	31,439	21,338,621	21,370,060				21,370,060
	Treated Water							
10	East Park	3,000	1,803,475	1,806,475	169,417			1,975,892
11	Foxchase	5,000	5,873,963	5,878,963	53,536			5,932,499
12	Oak Lane	0	4,212,951	4,212,951	118,592			4,331,543
13	Roxborough High Service	0	3,410,949	3,410,949	101,650			3,512,599
14	West Oak Lane	16,614	589,951	606,565	59,296			665,861
15	Torresdale Low Service	0	8,847,070	8,847,070	542,136			9,389,206
16	Torresdale High Service	0	7,559,880	7,559,880	179,582			7,739,462
17	Lardner's Point	45,000	3,550,621	3,595,621	677,670			4,273,291
18	Belmont High Service	0	15,633,646	15,633,646	106,733			15,740,379
19	Queen Lane High Service	0	24,109,126	24,109,126	81,320			24,190,446
20	Roxborough Exp. High Service	0	0	0	84,709			84,709
21	Chestnut Hill	1,000	0	1,000				1,000
22	Total	70,614	75,591,631	75,662,245	2,174,642			77,836,887
	High Pressure Fire							
23	Race Street	0	0	0				0
24	Fairhill	0	0	0				0
25	Total	0	0	0				0
	Purification & Treatment							
26	Belmont Filters	273,443	99,897,434	100,170,877				100,170,877
27	Lower Roxborough Filters	2,500	57,752	60,252				60,252
28	Upper Roxborough Filters	63,000	4,587,878	4,650,878				4,650,878
29	Queen Lane Filters	677,180	97,661,699	98,338,879				98,338,879
30	Torresdale Filters	309,000	147,794,941	148,103,941				148,103,941
31	Belmont Control Center	0	0	0				0
32	Total	1,325,123	349,999,705	351,324,828				351,324,828
	Transmission & Distribution - Mains							
33	Mains-Total	0	873,779,539	873,779,539	2,174,642			875,954,180
	Transmission & Distribution - Other							
34	Oak Lane Reservoir	64,776	8,277,367	8,342,143				8,342,143
35	East Park Reservoir	100,000	4,241,489	4,341,489				4,341,489
36	Somerton Tanks	17,000	4,211,694	4,228,694				4,228,694
37	Deepwell Transfer	0	7,655	7,655				7,655
38	Roxborough Tanks	0	0	0				0
39	Filtered Water Storage	0	39,587	39,587				39,587
40	George Hill Reservoir	0	390,000	390,000				390,000
41	Meters	0	25,887,942	25,887,942				25,887,942
42	Fire Hydrants	0	9,200,000	9,200,000				9,200,000
43	Total	181,776	52,255,734	52,437,510				52,437,510

44	Load Control Center		4,349,283	4,349,283	(4,349,283)	0
45	Administration & General	204,625	68,390,454	68,595,079		68,595,079
46	TOTAL	2,013,577	1,450,995,950	1,453,009,527	0	1,453,009,527
	Check with Plant-7	2,013,577	1,450,995,950	1,453,009,527		1,453,009,527
						(1) through (6)

(a) Plant investment shown here is considered to be NOT used & useful. Fairmount Water Works is an historic landmark, and the land for Manayunk Canal is not used.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
LCA - Calculation of Load Control Allocation	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-9

Reference: A. FN-12.3

	(1) Capacity Ref. A	(2) % of Capacity
TREATMENT:		
Torresdale Treatment Plant Capacity L.S.(mgd)	160.0	24.9%
Torresdale Treatment Plant Capacity H.S.(mgd)	53.0	8.3%
Queen Lane Treatment Plant Capacity H.S.(mgd)	24.0	3.7%
Belmont Treatment Plant Capacity H.S.(mgd)	31.5	4.9%
Lardners Point Capacity (mgd)	200.0	31.2%
BOOSTER PUMPING:		
East Park Capacity (mgd)	50.0	7.8%
Fox Chase Capacity (mgd)	15.8	2.5%
Oak Lane Capacity (mgd)	35.0	5.5%
Roxborough H.S. Capacity (mgd)	30.0	4.7%
West Oak Lane Capacity (mgd)	17.5	2.7%
Roxborough Exp. H.S. Capacity (mgd)	25.0	3.9%
Total System Capacity	641.8	100.0%

	Amount	% Load Control (a)
ALLOCATION OF LOAD CONTROL INVESTMENT:	$	
TREATMENT:		
Torresdale Treatment Plant L.S.	542,136	12.5%
Torresdale Treatment Plant H.S.	179,582	4.1%
Queen Lane Treatment Plant H.S.	81,320	1.9%
Belmont Treatment Plant H.S.	106,733	2.5%
Lardners Point	677,670	15.6%
BOOSTER PUMPING:		
East Park	169,417	3.9%
Fox Chase	53,536	1.2%
Oak Lane	118,592	2.7%
Roxborough H.S.	101,650	2.3%
West Oak Lane	59,296	1.4%
Roxborough Exp. H.S.	84,709	1.9%
Total Pumping	2,174,642	50.0%
Transmission & Distribution	2,174,642	50.0%
Total Load Control Investment (a) WPIS.	4,349,283	100.0%

(a) Load Control Investment spread back between Pumping & Transmission with 50.0% to each - Pumping is spread further based on % Plant Capacity in pumping. This percent split discussed with JRM 6/30/92 - Assume OK for now. Source of percent is previous study.

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
APBC - Collection System Allocation and Wholesale Rate of Return	**P.N. 401641.0100**	**February 07, 2020 11:56 a.m.**					**Plant-10**

INPUT DATA FROM PWD_Water_Pipe Size Summary 2019.12.05.xlsx
Percentage of Total Mains.....

16" and larger	0.353
18" and larger	0.314
24" and larger	0.268
30" and larger	0.232
36" and larger	0.186
48" and larger	0.149

Outside City Return:	7.50%

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
xxxxx - NOT IN USE	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-11

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019**
CPA - Plant Allocations **P.N. 401641.0100** **February 07, 2020 11:56 a.m.**

References: B. (Plant-10) Percent split of water main investment between diff. size mains.

Line No.	Description	(1) Total Investment $	(2) Aqua PA Allocated Investment to Aqua PA $	(3) Aqua PA Cap. Cost to Aqua PA $	(4) Aqua PA Return on Plant Investment @ 7.50% $	(5) Aqua PA Annual Depr. Expense $
	Supply and Treatment	Plant-8&Ref B	Plant-16		Plant-16	Plant-16
	Raw Water Power & Pumping					
1	Land	31,439	361	27	27	0
2	Buildings & Equipment	21,338,621	245,123	23,410	18,384	5,026
	Treatment					
	Purification					
3	Land	1,325,123	23,056	1,729	1,729	0
4	Buildings & Equipment	349,999,705	6,089,738	597,238	456,730	140,508
	Treated Water Power & Pumping					
5	Land	45,000	783	59	59	0
6	Buildings & Equipment	61,372,492	1,067,836	101,445	80,088	21,357
7	Total Supply and Treatment	434,112,380	7,426,898	723,908	557,017	166,891
	Distribution					
	Booster Pumping					
8	Land	25,614	379	28	28	0
9	Buildings & Equipment	16,393,780	242,663	22,812	18,200	4,612
	Filtered Water Storage					
10	Land	181,776	3,163	237	237	0
11	Buildings & Equipment	17,167,792	298,707	32,784	22,403	10,381
	High Pressure Fire System					
12	Land	0	0	0	0	0
13	Buildings & Equipment	0	0	0	0	0
	Transmission & Distribution Mains					
14	Small Mains (Less than 24")	641,188,794	0	0	0	0
15	Large Mains (24" & Over) (b)	234,765,386	4,084,746	382,786	306,356	76,430
16	Fire Hydrants	9,200,000	0	0	0	0
17	Meters	25,887,942	0	0	0	0
18	Total Distribution	944,811,084	4,629,657	438,647	347,224	91,423
	Administrative and General (a)					
19	Land	204,625	1,789	134	134	0
20	Buildings & Equipment	68,390,454	597,969	63,325	44,848	18,477
21	Total Administrative and General	68,595,079	599,758	63,459	44,982	18,477
22	TOTAL INVESTMENT	1,447,518,544	12,656,314	1,226,014	949,223	276,791

(a) Administrative and General allocated based on subtotals of Lines 7 & 18.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
FPA - Factors for Allocation of Plant Investment to Wholesale	P.N. 401641.0100	February 07, 2020 11:56 a.m.			Plant-13

References: A. Series 2019A Bonds OS

Line No.	Description	Total Capacity of Facility mgd Ref. A	Aqua PA Contract Capacity mgd	Aqua PA Contract Capacity %
	Source of Supply:			
1	Fairmount Water Works			
2	Manayunk Canal			
3	Total	0.00		
	Power & Pumping:			
	Raw Water			
4	Belmont	140.00		
5	Queen Lane	207.00		
6	Torresdale/Baxter	480.00		
7	Torresdale Intake Conduit			
8	Torresdale Raw Water Basin			
9	Total	827.00	9.50	1.15%
	Treated Water			
10	East Park	50.00		
11	Foxchase	15.80		
12	Oak Lane (East)	35.00		
13	Roxborough High Service	30.00		
14	West Oak Lane	17.50		
15	Torresdale/Baxter Low Service	160.00		
16	Torresdale/Baxter High Service	53.00		
17	Lardner's Point	200.00		
18	Belmont High Service	31.50		
19	Queen Lane High Service	24.00		
20	Q. Ln. Roxborough Exp. High Serv	25.00		
21	Total	641.80	9.50	1.48%
	High Pressure Fire			
22	Race Street			
23	Fairhill			
24	Total	0.00		
	Purification & Treatment:			
25	Belmont Filters	86.00		
26	Lower Roxborough Filters			
27	Upper Roxborough Filters			
28	Queen Lane Filters	140.00		
29	Torresdale/Baxter Filters	320.00		
30	Treatment Headquarters			
31	Belmont Control Center			
32	Total x	546.00	9.50	1.74%
	Transmission & Distribution - Mains:			
33	Small Mains (24" & smaller)			
34	Large Mains (Over 24")			
	Transmission & Distribution - Other:			
35	Oak Lane Reservoir	70.00		
36	East Park Reservoir	370.00		
37	Somerton Tanks	10.00		
38	Deepwell Transfer			
39	Roxborough Tanks	17.60		
40	Filtered Water Storage			
41	George Hill Reservoir			
42	Meters			
43	Total	467.60	9.50	2.03%
44	Load Control Center		9.50	
45	Administration & General		9.50	
46	TOTAL			

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
ADE - Annual Depreciation Expense	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-14

Line No.	Description	(1) Total Plant Investment $ Plant-8	(2) Land $ Plant-8	(3) Depreciable Plant $ (1)-(2)	(4) Depr. Rate (b)	(5) Annual Depr. Expense $ (3)*(4)
	Source of Supply:					
1	Fairmount Water Works (a)	5,440,983	150,000	5,290,983	2.5%	132,275
2	Manayunk Canal (a)	50,000	50,000	0	2.5%	0
3	Total	5,490,983	200,000	5,290,983	2.5%	132,275
	Power & Pumping:					
	Raw Water					
4	Belmont	5,189,664	12,200	5,177,464	1.9%	100,795
5	Queen Lane	11,116,598	19,239	11,097,359	2.0%	217,275
6	Torresdale	5,063,798	0	5,063,798	2.4%	119,445
7	Torresdale Intake Conduit	0	0	0	2.4%	0
8	Torresdale Raw Water Basin	0	0	0	2.4%	0
9	Total	21,370,060	31,439	21,338,621	2.1%	437,515
	Treated Water					
10	East Park	1,975,892	3,000	1,972,892	2.0%	39,458
11	Foxchase	5,932,499	5,000	5,927,499	1.7%	102,273
12	Oak Lane	4,331,543	0	4,331,543	2.0%	86,631
13	Roxborough High Service	3,512,599	0	3,512,599	2.0%	70,252
14	West Oak Lane	665,861	16,614	649,247	2.0%	12,985
15	Torresdale Low Service	9,389,206	0	9,389,206	2.0%	187,784
16	Torresdale High Service	7,739,462	0	7,739,462	2.0%	154,789
17	Lardner's Point	4,273,291	45,000	4,228,291	2.0%	84,566
18	Belmont High Service	15,740,379	0	15,740,379	2.0%	314,808
19	Queen Lane High Service	24,190,446	0	24,190,446	2.0%	483,809
20	Roxborough Exp. High Service	84,709	0	84,709	2.0%	1,694
21	Chestnut Hill	1,000	1,000	0	2.0%	0
22	Total	77,836,887	70,614	77,766,273	2.0%	1,539,049
	High Pressure Fire					
23	Race Street	0	0	0	1.1%	0
24	Fairhill	0	0	0	1.8%	0
25	Total	0	0	0	#DIV/0!	0
	Purification & Treatment					
26	Belmont Filters	100,170,877	273,443	99,897,434	2.7%	2,742,584
27	Lower Roxborough Filters	60,252	2,500	57,752	2.9%	1,650
28	Upper Roxborough Filters	4,650,878	63,000	4,587,878	2.8%	129,571
29	Queen Lane Filters	98,338,879	677,180	97,661,699	2.5%	2,461,758
30	Torresdale Filters	148,103,941	309,000	147,794,941	1.9%	2,739,970
31	Belmont Control Center	0	0	0	2.5%	0
32	Total	351,324,828	1,325,123	349,999,705	2.3%	8,075,533
	Transmission & Distribution - Mains					
33	Mains-Total	875,954,180	0	875,954,180	1.9%	16,390,069
34						
	Transmission & Distribution - Other					
35	Oak Lane Reservoir	8,342,143	64,776	8,277,367	4.1%	338,089
36	East Park Reservoir	4,341,489	100,000	4,241,489	4.0%	170,253
37	Somerton Tanks	4,228,694	17,000	4,211,694	1.8%	77,377
38	Deepwell Transfer	7,655	0	7,655	2.5%	191
39	Roxborough Tanks	0	0	0	2.5%	0
40	Filtered Water Storage	39,587	0	39,587	2.5%	990
41	George Hill Reservoir	390,000	0	390,000	2.5%	9,750
42	Meters	25,887,942	0	25,887,942	7.0%	1,812,156
43	Fire Hydrants	9,200,000	0	9,200,000	2.5%	230,000
44	Total	52,437,510	181,776	52,255,734	5.1%	2,638,806
					3.5% <<== Excludes Meters & Hydrants	

45	Load Control Center	0		0		
	Administration & General					
	Undetermined Location	16,767,868		16,767,868	2.5%	419,197
	All Other	51,827,211	204,625	51,622,586	3.3%	1,696,886
46	Total Administration & General	68,595,079	204,625	68,390,454	3.1%	2,116,083
47	TOTAL	1,453,009,527	2,013,577	1,450,995,950	2.2%	31,329,330
	Check with column (1) - (2)			1,450,995,950		

(a) Plant investment not included as used & useful.
(b) Depreciation rates in this column were extracted from file Wrcld.wk4 of file Philly\31416100.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
PFS - Plant File Summary for Wpltallo	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Plant-15

Line No.	Description	(1) Est. Test Yr. Plant Investment $ Plant-14	(2) Total Test Yr. Depr. Expense $ Plant-14	(3) Aqua PA Test Yr. Plant Investment $ Plant-12	(4) Test Yr. Capital Cost $ Plant-12	(5) Test Yr. Return on Plant $ Plant-12	(6) Test Yr. Depr. Expense $ Plant-12
	Raw Water Supply and Pumping						
	Source of Supply						
1	Land	200,000					
2	Buildings and Equipment	5,290,983	132,275				
	Power and Pumping						
3	Land	31,439		361	27	27	0
4	Buildings and Equipment	21,338,621	437,515	245,123	23,410	18,384	5,026
5	Total Raw Water Supply and Pumping	26,861,043	569,790	245,484	23,437	18,411	5,026
	Purification and Treatment						
	Power and Pumping (a)						
6	Land	70,614		1,162	87	87	0
7	Buildings and Equipment	77,766,273	1,539,049	1,310,499	124,257	98,288	25,969
	Treatment						
8	Land	1,325,123		23,056	1,729	1,729	0
9	Buildings and Equipment	349,999,705	8,075,533	6,089,738	597,238	456,730	140,508
10	Total Purification and Treatment	429,161,715	9,614,582	7,424,456	723,311	556,834	166,477
	Transmission and Distribution						
11	Mains	875,954,180	16,390,069	4,084,746	382,786	306,356	76,430
12	Meters	25,887,942	1,812,156		0		
13	Hydrants	9,200,000	230,000		0		
	Filtered Water Storage						
14	Land	181,776		3,163	237	237	0
15	Buildings and Equipment	17,167,792	596,650	298,707	32,784	22,403	10,381
	High Pressure Fire System						
16	Land	0			0		
17	Mains 0.0000 of Mains	0	0				
18	Buildings and Equipment	0	0		0		
19	Total Transmission and Distribution	928,391,690	19,028,875	4,386,616	415,807	328,996	86,811
20	Total excluding Administrative and General	1,384,414,448	29,213,247	12,056,556	1,162,555	904,241	258,314
	Administrative and General						
21	Land	204,625		1,789	134	134	0
22	Buildings and Equipment	68,390,454	2,116,083	597,969	63,325	44,848	18,477
23	Total Administrative and General	68,595,079	2,116,083	599,758	63,459	44,982	18,477
24	Total Water Plant Investment	1,453,009,527	31,329,330	12,656,314	1,226,014	949,223	276,791

Agrees with BOX 1 within $1,000

(a) Includes booster pumping

BOX 1		
Booked Original Cost	Plant-5	1,452,453,039
Land	Plant-14	2,013,577
Meters	Plant-14	25,887,942
Fire Hydrants	Plant-14	9,200,000
Other Additions	Plant-14	0
Sewer Allocated A&G Less Land		
Sewer Allocated A&G Incl. Land	36,764,178	Plant-7
Less A&G Land (Water & Sewer)	(423,773)	Plant-7
Plus Water Allocated Land	204,625	Plant-7
Sewer Allocated A&G Less Land		(36,545,030)
Total Water Plant Investment		1,453,009,527

Plant-13

Aqua PA Maximum Day 9.5 mgd

Water Plant Investment
Allocation of Water Plant Investment to Functional Cost Component

Line No.		Estimated Test Period Plant Investment $ Plant-8	Aqua PA Direct $ Plant-13	Return on Plant Invest. @ 7.50% $	Annual Depreciation Expense $ Plant-11		CHECKS Rate Base Allocation	CHECKS Depr Rate
	Source of Supply							
1	Land	200,000					0.00%	
2	Buildings and Equipment	5,290,983					0.00%	
	Power and Pumping							
	Raw Water Power & Pumping							
3	Land	31,439	361	27			1.15%	0.00%
4	Buildings & Equipment	21,338,621	245,123	18,384	5,026		1.15%	2.05%
	Treatment							
	Purification							
5	Land	1,325,123	23,056	1,729			1.74%	0.00%
6	Buildings & Equipment	349,999,705	6,089,738	456,730	140,508		1.74%	2.31%
	Treated Water Power & Pumping							
7	Land	45,000	783	59			1.74%	0.00%
8	Buildings & Equipment	61,372,492	1,067,836	80,088	21,357		1.74%	2.00%
9	Total Supply and Treatment	434,112,380	7,426,898	557,017	166,891		1.71%	2.25%
	Distribution							
	Booster Pumping							
10	Land	25,614	379	28			1.48%	0.00%
11	Buildings & Equipment	16,393,780	242,663	18,200	4,612		1.48%	1.90%
	Filtered Water Storage							
12	Land	181,776	3,163	237			1.74%	0.00%
13	Buildings & Equipment	17,167,792	298,707	22,403	10,381		1.74%	3.48%
	High Pressure Fire System							
14	Land	0					NA	
15	Buildings & Equipment	0					NA	
	Transmission & Distribution Mains							
16	Small Mains (Less than 24")	641,188,794					0.00%	
17	Large Mains (24" & Over)	234,765,386	4,084,746	306,356	76,430		1.74%	1.87%
18	Fire Hydrants	9,200,000					0.00%	
19	Meters	25,887,942					0.00%	
20	Total Distribution	944,811,084	4,629,657	347,224	91,423		0.49%	1.97%
	Administrative and General (a)							
21	Land	204,625	1,789	134			0.87%	0.00%
22	Buildings & Equipment	68,390,454	597,969	44,848	18,477		0.87%	3.09%
23	Total Administrative and General	68,595,079	599,758	44,982	18,477		0.87%	3.08%
24	TOTAL INVESTMENT	1,447,518,544	12,656,314	949,223	276,791		0.87%	2.19%
	Return @ 7.50%		949,224			1,226,000		

WCOS19_21.XLS

WPLTALLO

The "Wpltallo" worksheet allocates water treatment plant investment and annual depreciation to cost functions.

Range	Description	Page Number	Table
WpltInd	Index	Wpltallo-1	
API	Allocation of Plant Investment	Wpltallo-2	TABLE W-8
ALLOCFAC1	Allocation Factors - Page 1	Wpltallo-3	
ALLOCFAC2	Allocation Factors - Page 2	Wpltallo-4	
ALLDEP	Allocation of Depreciation Expense	Wpltallo-5	TABLE W-9

TABLE W-8

ALLOCATION OF TEST YEAR WATER PLANT INVESTMENT TO FUNCTIONAL COST COMPONENTS TEST YEAR 2021

Line No.	Description	(1) Estimated Test Year Plant Investment $ Plant-15	(2) Base $	(3) Extra Capacity: Maximum Day $	(4) Extra Capacity: Maximum Hour In Excess of Maximum Day $	(5) Customer Meters $	(6) Public Fire Protection - Direct: Standard Pressure $	(7) Public Fire Protection - Direct: High Pressure $	(8) Wholesale Direct $ Plant-15	Allocation Basis: Wpltallo-3 Base	Max Day	Max Hour	Aqua PA
	Raw Water Supply and Pumping												
	Source of Supply												
1	Land	200,000	200,000							100%			
2	Buildings and Equipment	5,291,000	5,291,000							100%			
	Power and Pumping												
3	Land	31,000	22,000	9,000					0	71%	29%		0
4	Buildings and Equipment	21,339,000	14,977,000	6,117,000					245,000	71%	29%		245,000
5	Total Raw Water Supply and Pumping	26,861,000	20,490,000	6,126,000					245,000				245,000
	Purification and Treatment												
	Power and Pumping (a)												
6	Land	71,000	36,000	11,000	23,000				1,000	52%	16%	32%	1,000
7	Buildings and Equipment	77,766,000	39,757,000	12,233,000	24,466,000				1,310,000	52%	16%	32%	1,310,000
	Treatment												
8	Land	1,325,000	924,000	378,000					23,000	71%	29%		23,000
9	Buildings and Equipment	350,000,000	244,176,000	99,734,000					6,090,000	71%	29%		6,090,000
10	Total Purification and Treatment	429,162,000	284,893,000	112,356,000	24,489,000				7,424,000				7,424,000
	Transmission and Distribution												
11	Mains	875,954,000	453,372,000	139,499,000	278,998,000				4,085,000	52%	16%	32%	4,085,000
12	Meters	25,888,000				25,888,000			0	100% Meters			0
13	Hydrants	9,200,000					9,200,000		0	100% Standard Pressure Fire			0
	Filtered Water Storage												
14	Land	182,000	93,000	29,000	57,000				3,000	52%	16%	32%	3,000
15	Buildings and Equipment	17,168,000	8,772,000	2,699,000	5,398,000				299,000	52%	16%	32%	299,000
	High Pressure Fire System (b)												
16	Land	0						0	0	100% High Pressure Fire			
17	Mains	0						0	0	100% High Pressure Fire			
18	Buildings and Equipment	0						0	0	100% High Pressure Fire			
19	Total Transmission and Distribution	928,392,000	462,237,000	142,227,000	284,453,000	25,888,000	9,200,000		4,387,000				4,387,000
20	Subtotal	1,384,415,000	767,620,000	260,709,000	308,942,000	25,888,000	9,200,000		12,056,000				12,056,000
	Administrative and General												
21	Land	205,000	113,000	39,000	46,000	4,000	1,000	0	2,000	Subtotal Line 20 (excluding Bucks)			2,000
22	Buildings and Equipment	68,390,000	37,919,000	12,879,000	15,261,000	1,279,000	454,000	0	598,000	Subtotal Line 20 (excluding Bucks)			598,000
23	Total Administrative and General	68,595,000	38,032,000	12,918,000	15,307,000	1,283,000	455,000		600,000				600,000
24	Total Water Plant Investment	1,453,010,000	805,652,000	273,627,000	324,249,000	27,171,000	9,655,000		12,656,000				12,656,000
			55.4%	18.8%	22.3%	1.9%	0.7%	0.0%	0.9%				0.9%

(a) Includes booster pumping
(b) Allocated to Mains

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRI Test Year 2021 Budget Yr 2019 Ver. 1a**
ALLOCFAC1 - Allocation Factors - Page 1 **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Wpltallo-3**
Reference: BD-23

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Flow Output			Demand Factors			Allocation Factors	
	Avg Day	Max Day	Max Rate	Base	Max Day	Max Hr	Base	Max Day	Max Hr
	mgd	mgd	mgd						
					(2)/(1)	(3)/(1)	1-(7)-(8)	(2)-(1)]/[(3) or (2)	[(3)-(2)]/(3)
Raw Water Pumping									
FY 2013	259.8	338.6		1.00	1.30	0.00	0.77	0.23	0.00
FY 2014	260.1	343.5		1.00	1.32	0.00	0.76	0.24	0.00
FY 2015	250.9	305.3		1.00	1.22	0.00	0.82	0.18	0.00
FY 2016	243.2	276.8		1.00	1.14	0.00	0.88	0.12	0.00
FY 2017	242.4	315.1		1.00	1.30	0.00	0.77	0.23	0.00
FY 2018	243.0	336.8		1.00	1.39	0.00	0.72	0.28	0.00
FY 2019	240.7	298.3		1.00	1.24	0.00	0.81	0.19	0.00
Avg FY 2013 - FY 2019	248.6	316.3		1.00	1.27	0.00	0.79	0.21	0.00
Avg FY 2015 - FY 2019	244.0	306.5		1.00	1.26	0.00	0.80	0.20	0.00
Avg FY 2017 - FY 2019	242.0	316.7		1.00	1.31	0.00	0.76	0.24	0.00
Maximum Demand Factors				1.00	1.39	0.00	0.72	0.28	0.00
USE				1.00	1.40	0.00	0.71	0.29	0.00
Filter Output									
FY 2013	243.1	297.0		1.00	1.22	0.00	0.82	0.18	0.00
FY 2014	244.1	319.1		1.00	1.31	0.00	0.77	0.23	0.00
FY 2015	235.0	278.6		1.00	1.19	0.00	0.84	0.16	0.00
FY 2016	228.1	255.7		1.00	1.12	0.00	0.89	0.11	0.00
FY 2017	227.5	272.9		1.00	1.20	0.00	0.83	0.17	0.00
FY 2018	227.6	311.8		1.00	1.37	0.00	0.73	0.27	0.00
FY 2019	226.0	266.8		1.00	1.18	0.00	0.85	0.15	0.00
Avg FY 2013 - FY 2019	233.1	286.0		1.00	1.23	0.00	0.82	0.18	0.00
Avg FY 2015 - FY 2019	228.8	277.2		1.00	1.21	0.00	0.83	0.17	0.00
Avg FY 2017 - FY 2019	227.0	283.8		1.00	1.25	0.00	0.80	0.20	0.00
Maximum Demand Factors				1.00	1.37	0.00	0.73	0.27	0.00
USE							0.71	0.29	0.00
Plant Output - Total									
FY 2013	238.5	297.7		1.00	1.25	0.00	0.80	0.20	0.00
FY 2014	239.8	307.3		1.00	1.28	0.00	0.78	0.22	0.00
FY 2015	230.8	289.2		1.00	1.25	0.00	0.80	0.20	0.00
FY 2016	223.8	256.4		1.00	1.15	0.00	0.87	0.13	0.00
FY 2017	222.2	268.2		1.00	1.21	0.00	0.83	0.17	0.00
FY 2018	222.6	303.9		1.00	1.37	0.00	0.73	0.27	0.00
FY 2019	221.8	258.1		1.00	1.16	0.00	0.86	0.14	0.00
Avg FY 2013 - FY 2019	228.5	283.0		1.00	1.24	0.00	0.81	0.19	0.00
Avg FY 2015 - FY 2019	224.2	275.2		1.00	1.23	0.00	0.81	0.19	0.00
Avg FY 2017 - FY 2019	222.2	276.7		1.00	1.25	0.00	0.80	0.20	0.00
Maximum Demand Factors				1.00	1.37	0.00	0.73	0.27	0.00
USE							0.71	0.29	

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRI Test Year 2021 Budget Yr 2019** **Ver. 1a**
ALLOCFAC2 - Allocation Factors - Page 2 **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Wpltallo-4**
Reference: BD-23

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)			
		Flow Output			Demand Factors			Allocation Factors			Average Annual Increase	
	Avg Day	Max Day	Max Rate	Base	Max Day	Max Hr	Base	Max Day	Max Hr	Annual Increase	From FY 2013	Through FY 2019
	mgd	mgd	mgd									
					(2)/(1)	(3)/(1)	1-(7)-(8)	(2)-(1)]/[(3) or (2)	[(3)-(2)]/(3)			
Total Districts Incl. Bucks Co												
FY 2013	244.5	286.2	365.0	1.00	1.17	1.49	0.67	0.11	0.22			
FY 2014	250.0	313.6	433.8	1.00	1.25	1.74	0.57	0.15	0.28	2.3%	2.3%	-1.9%
FY 2015	230.8	291.8	365.5	1.00	1.26	1.58	0.63	0.17	0.20	-7.7%	-2.8%	-2.9%
FY 2016	223.8	258.2	430.8	1.00	1.15	1.92	0.52	0.08	0.40	-3.0%	-2.9%	-1.3%
FY 2017	223.0	263.8	402.5	1.00	1.18	1.80	0.56	0.10	0.34	-0.4%	-2.3%	-0.4%
FY 2018	232.2	301.0	346.0	1.00	1.30	1.49	0.67	0.20	0.13	3.8%	-1.0%	-0.9%
FY 2019	221.8	258.1	330.9	1.00	1.16	1.49	0.67	0.11	0.22	-0.5%	-1.9%	-0.5%
Avg FY 2013 - FY 2019	232.3	281.8	382.1	1.00	1.21	1.64	0.61	0.13	0.26			
Avg FY 2015 - FY 2019	226.3	274.6	375.1	1.00	1.21	1.66	0.60	0.13	0.27			
Avg FY 2017 - FY 2019	225.7	274.3	359.8	1.00	1.22	1.59	0.62	0.14	0.24			
Maximum Demand Factors					1.00	1.30	1.92	0.52	0.16	0.32		
USE	226.0	.....	.....	1.00	1.30	1.90	0.52	0.16	0.32			
Aqua PA												
FY 2013	3.3	6.4	9.3	1.00								
FY 2014	3.0	6.9	9.3	1.00	2.30	3.10	0.32	0.42	0.26			
FY 2015	2.6	6.1	9.0	1.00	2.35	3.46	0.29	0.39	0.32			
FY 2016	1.4	3.6	9.9	1.00	2.57	7.07	0.14	0.22	0.64			
FY 2017	1.5	5.7	8.4	1.00	3.80	5.60	0.18	0.50	0.32			
FY 2018	1.3	3.7	16.1	1.00	2.85	12.38	0.08	0.15	0.77			
FY 2019	1.3	3.0	8.6	1.00	2.31	6.62	0.15	0.20	0.65			
Avg FY 2013 - FY 2019	2.1	5.1	10.1	1.00	2.43	4.81	0.57	0.31	0.12			
Avg FY 2015 - FY 2019	1.6	4.4	10.4	1.00	2.75	6.50	0.15	0.27	0.58			
Avg FY 2017 - FY 2019	1.4	4.1	11.0	1.00	2.93	7.86	0.12	0.25	0.63			
Maximum Demand Factors					1.00	3.80	12.38	0.08	0.23	0.69		
USE	2.00	4.92	9.00	.....	2.40	.....	.....	.....	.....			
	See Aqua PA TY Usage =======			==========	==========	==========	==========	==========	==========	=====>		

AQUA PA TEST YEAR USAGE

		Annual Usage (mcf)	Peak Usage mgd
FY 2017	63,436		
FY 2018	63,436		
FY 2019	60,955		
FY 2020	63,995	3.15	9.00
FY 2021	100,007	4.92	9.00
FY 2022	100,007	4.92	9.00
FY 2023	100,007	4.92	9.00
FY 2024	100,007		
FY 2025	100,007		
FY 2026	100,007		
TY 2021			
mcf	100,007		
mgd	2.00	4.92	9.00

Baxter Plant	% of Total									
FY 2013	55.1%	134.6	182.2		1.00	1.35	0.00	0.74	0.26	0.00
FY 2014	54.5%	136.4	167.7		1.00	1.23	0.00	0.81	0.19	0.00
FY 2015	55.2%	127.3	163.9		1.00	1.29	0.00	0.78	0.22	0.00
FY 2016	57.8%	129.3	150.6		1.00	1.16	0.00	0.86	0.14	0.00
FY 2017	59.2%	132.1	170.4		1.00	1.29	0.00	0.78	0.22	0.00
FY 2018	55.1%	127.9	166.4		1.00	1.30	0.00	0.77	0.23	0.00
FY 2019	58.1%	128.9	155.0		1.00	1.20	0.00	0.83	0.17	0.00
Avg FY 2013 - FY 2019	56.3%	130.9	165.2		1.00	1.26	0.00	0.79	0.21	0.00
Avg FY 2015 - FY 2019		129.1	161.3		1.00	1.25	0.00	0.80	0.20	0.00
Avg FY 2017 - FY 2019		129.6	163.9		1.00	1.26	0.00	0.79	0.21	0.00
Maximum Demand Factors					1.00	1.35	0.00	0.74	0.26	0.00
USE	57.5%	130.0				1.30				
Baxter Low Service										
FY 2013		42.0	59.7	70.5	1.00	1.42	1.68	0.60	0.25	0.15
FY 2014		42.6	63.6	86.3	1.00	1.49	2.03	0.50	0.24	0.26
FY 2015		40.0	50.1	62.0	1.00	1.25	1.55	0.65	0.16	0.19
FY 2016		40.1	49.7	68.0	1.00	1.24	1.70	0.59	0.14	0.27
FY 2017		39.0	52.0	62.2	1.00	1.33	1.59	0.63	0.21	0.16
FY 2018		36.7	46.3	60.0	1.00	1.26	1.63	0.61	0.16	0.23
FY 2019		37.7	42.1	65.5	1.00	1.12	1.74	0.57	0.07	0.36
Avg FY 2013 - FY 2019		39.7	51.9	67.8	1.00	1.31	1.71	0.59	0.18	0.23
Avg FY 2015 - FY 2019		38.7	48.0	63.5	1.00	1.24	1.64	0.61	0.15	0.24
Avg FY 2017 - FY 2019		37.8	46.8	62.6	1.00	1.24	1.66	0.61	0.14	0.25
Maximum Demand Factors					1.00	1.49	2.03	0.49	0.24	0.27
USE		38.0					1.75			

TABLE W-9

ALLOCATION OF TEST YEAR WATER PLANT DEPRECIATION EXPENSE
TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2021

Line No.	Description	(1) Total Test Year Depreciation Expense $ Plant-15	(2) Base $	(3) Extra Capacity: Maximum Day $	(4) Extra Capacity: Maximum Hour In Excess of Maximum Day $	(5) Customer Meters $	(6) Public Fire Protection - Direct: Standard Pressure $	(7) Public Fire Protection - Direct: High Pressure $	(8) Wholesale Direct $ Plant-15	Allocation Basis: Base	Max Day	Max Hour	Aqua PA
	Raw Water Supply and Pumping												
1	Source of Supply	132,000	132,000							100%			
2	Power and Pumping	438,000	307,000	126,000					5,000	71%	29%		5,000
3	Total Supply and Pumping	570,000	439,000	126,000					5,000				5,000
	Purification and Treatment												
4	Power and Pumping (a)	1,539,000	787,000	242,000	484,000				26,000	52%	16%	32%	26,000
5	Treatment	8,076,000	5,634,000	2,301,000					141,000	71%	29%		141,000
6	Total Purification and Treatment	9,615,000	6,421,000	2,543,000	484,000				167,000				167,000
	Transmission and Distribution												
7	Mains	16,390,000	8,483,000	2,610,000	5,221,000				76,000	52%	16%	32%	76,000
8	Meters	1,812,000				1,812,000			0	100% Meters			
9	Hydrants	230,000					230,000		0	100% Standard Pressure Fire			
10	Filtered Water Storage	597,000	305,000	94,000	188,000				10,000	52%	16%	32%	10,000
11	High Pressure Fire System	0						0	0	100% High Pressure Fire			
12	Total Transmission and Distribution	19,029,000	8,788,000	2,704,000	5,409,000	1,812,000	230,000		86,000				86,000
13	Subtotal	29,214,000	15,648,000	5,373,000	5,893,000	1,812,000	230,000		258,000				258,000
14	Administrative and General	2,116,000	1,174,000	398,000	472,000	40,000	14,000	0	18,000	Allocation of Plant A & G			18,000
15	Total Water Plant Expense	31,330,000	16,822,000	5,771,000	6,365,000	1,852,000	244,000		276,000				276,000
			53.7%	18.4%	20.3%	5.9%	0.8%	0.0%	0.9%				0.9%

(a) Includes booster pumping

WCOS19_21.XLS

WOMALLO

The "Womallo" worksheet allocates Water System operation and maintenance expense to functional cost components.

Range	Description	Page Number	Table
WomaInd	Index	Womallo-1	
TYOME	Test Year O&M Expense	Womallo-2	
OMFAC	O&M by Facility	Womallo-3	
AOMF1	Adjusted O&M by Facility - Page 1	Womallo-4	
AOMF2	Adjusted O&M by Facility - Page 2	Womallo-5	
LDCNTRL	Load Control O&M Expense	Womallo-6	
DISTSYS	Distribution System O&M Expense	Womallo-7	
XXXXX	PAGE NOT IN USE	Womallo-8	
ADMIN	Allocation of Administrative Costs	Womallo-9	
MSMM	Machine Shop & Materials Mgmt O&M	Womallo-10	
DIROM	Allocation of Direct to O&M Facility	Womallo-11	
ADHR	Administrative & Human Resources O&M	Womallo-12	
xxxxx	NOT IN USE	Womallo-13	
ATOM	Allocation of Total O&M Expense	Womallo-14	
xxxxx	NOT IN USE	Womallo-15	
OMALLO	Allocation of O&M Expense - Table	Womallo-16	TABLE W-10
ATACC	Allocated Treatment & Conveyance Costs	Womallo-17	
PSWCOMAL	Aqua PA Allocated O&M	Womallo-18	

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year** **2021** **Budget Yr** **2019** **Ver. 1a**
TYOME - Test Year O&M Expense **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Womallo-2**

Reference: Finanical Planning Model
Link Worksheet

Line No.		(1) Test Year Class 100 Expend. $	(2) Test Year Class 200 Expenditures: Power $	(3) Gas $	(4) All Other $	(5) Total $	(6) Test Year Class 300 Expenditures: Chemicals $	(7) All Other $	(8) Total $	(9) Test Year Class 400 Expend. $	Total $	
	OPERATIONS DIVISION											
	DIRECT COSTS											
1	Baxter Treatment Plant	3,413,919	0	0	767,919	767,919	8,052,404	908,564	8,960,968	98,841	13,241,647	
2	Queen Lane Treatment Plant	3,266,400	0	0	1,376,552	1,376,552	4,486,980	702,040	5,189,020	42,246	9,874,219	
3	Belmont Treatment Plant	3,470,289	0	0	549,638	549,638	4,208,270	612,402	4,820,672	52,609	8,893,208	
4	Conveyance Headquarters	0	0	0	0	0	0	0	0	0	0	
5	Load Control	1,805,873	6,281,718	425,806	1,817,146	8,524,670	0	133,381	133,381	19,130	10,483,054	
6	Distribution	18,898,594	60,401	79,622	2,338,368	2,478,390	43,144	218,141	261,286	167,392	21,805,662	
7	Pumping	3,010,074	0	0	389,368	389,368	2,589	401,576	404,164	51,014	3,854,620	
8	Emergency & Support Services	0	0	0	0	0	0	0	0	0	0	
9	Subtotal	33,865,149	6,342,118	505,427	7,238,990	14,086,536	16,793,387	2,976,104	19,769,491	431,233	68,152,409	
	ALLOCATED COSTS											
10	Treatment Headquarters	249,760	0	25,964	108,158	134,121	1,294	4,302	5,597	1,594	391,072	
11	Machine Shops	0	0	0	0	0	0	0	0	0	0	
12	Building Maintenance	0	0	0	0	0	0	0	0	0	0	
13	Security	0	0	0	0	0	0	0	0	0	0	
14	Operations Admin.	3,064,690	0	0	5,448,686	5,448,686	0	106,310	106,310	1,679,699	10,299,385	
15	Mtls. Management	961,953	0	0	73,744	73,744	17,689	2,970,582	2,988,271	398	4,024,366	
16	Customer Service	841,629	0	0	2,481,726	2,481,726	0	11,115	11,115	2,790	3,337,260	
17	Warranty Program	0	0	0	0	0	0	0	0	0	0	
18	Meter Shop	1,319,735	0	0	9,832	9,832	0	38,006	38,006	4,384	1,371,958	
19	Automotive Maintenance	0	0	0	0	0	0	0	0	0	0	
20	Subtotal Allocated Costs	6,437,767	0	25,964	8,122,146	8,148,110	18,983	3,130,316	3,149,299	1,688,865	19,424,042	
21	Total Operations	40,302,916	6,342,118	531,391	15,361,136	22,234,646	16,812,371	6,106,420	22,918,790	2,120,098	87,576,451	
											87,576,451	x
	FRINGE BENEFITS											
22	Admin & Hr										2,674,926	
23	Finance										1,057,303	
24	Planning & Engr.										5,682,877	
25	Information Science & Tech										3,893,878	
26	Operations										38,072,563	
27	Public Affairs										2,341,961	
28	Dept. Of Revenue (WRB)										3,426,536	
29	Law Dept.										901,511	
30	Capital Fringes (270)										0	
31	Total Fringe Benefits										58,051,556	x
	INTERDEPARTMENTAL											
32	WRB Expense										5,705,066	x
33	All Other Expenses (includes Other Inter Dept Fringes)										7,095,289	
34	FINANCE & ADMIN										6,343,481	
35	HUMAN RESOURCES										4,014,887	
36	PLANNING & ENGINEERING	6,015,789				6,580,204			428,334	252,439	13,276,766	
37	INFORMATION SCIENCE & TECH	4,121,988				7,729,873			879,138	0	12,730,999	26,007,765
38	PUBLIC AFFAIRS										6,393,372	
39	INDEMNITIES										1,804,302	
40	TOTAL O&M EXPENSE (Adjusted for Liquidated Encumbrances)										202,992,168	26,007,765

Control Total Summary:		
Fringe Benefits	58,051,556	This page
Interdepartmental	57,364,162	This page
Operations	87,576,451	This page
Subtotal	202,992,168	
WTP Sludge	14,732,000	Womallo-16
Total	217,724,168	
Total agrees with Womallo-16	217,724,000	Womallo-16

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
OMFAC - O&M by Facility | P.N. 401641.0100 | February 07, 2020 11:56 a.m. | Womallo-3

Reference: Womallo-2

WATER SYSTEM EXPENDITURES
TEST YEAR 2021

	(1) TRT HQ $	(2) Baxter $	(3) Queen Lane $	(4) Belmont $	(5) Treatment Subtotal $ (1)+(2)+(3)+(4)	(6) CONV HQ $	(7) Load Control $	(8) Dist. $	(9) Emerg & SS $	(10) Pumping $	(11) Control Subtotal $ (6)+(7)+(8)+(9)+(10)
PERSONAL SERVICES											
Total Class 100	249,760	3,413,919	3,266,400	3,470,289	10,400,368	0	1,805,873	18,898,594	0	3,010,074	23,714,541
PURCHASED SERVICES											
Power - Class 220	0	0	0	0	0	0	6,281,718	60,401	0	0	6,342,118
xxxxxxxx											
Power Less L.E. - Class 220	0	0	0	0	0	0	6,281,718	60,401	0	0	6,342,118
Gas - Class 221	25,964	0	0	0	25,964	0	425,806	79,622	0	0	505,427
xxxxxxxx											
Gas Less L.E. - Class 221	25,964	0	0	0	25,964	0	425,806	79,622	0	0	505,427
All Other	108,158	767,919	1,376,552	549,638	2,802,267	0	1,817,146	2,338,368	0	389,368	4,544,881
xxxxxxxx											
All Other Less L.E.	108,158	767,919	1,376,552	549,638	2,802,267	0	1,817,146	2,338,368	0	389,368	4,544,881
Total Class 200	134,121	767,919	1,376,552	549,638	2,828,230	0	8,524,670	2,478,390	0	389,368	11,392,427
MATERIALS AND SUPPLIES											
Chemicals - Class 307	1,294	8,052,404	4,486,980	4,208,270	16,748,949	0	0	43,144	0	2,589	45,733
xxxxxxxx											
Chemicals less L.E. - Class 3	1,294	8,052,404	4,486,980	4,208,270	16,748,949	0	0	43,144	0	2,589	45,733
All Other	4,302	908,564	702,040	612,402	2,227,309	0	133,381	218,141	0	401,576	753,097
xxxxxxxx											
All Other Less L.E.	4,302	908,564	702,040	612,402	2,227,309	0	133,381	218,141	0	401,576	753,097
Total Class 300	5,597	8,960,968	5,189,020	4,820,672	18,976,258	0	133,381	261,286	0	404,164	798,830
EQUIPMENT											
Total Class 400	1,594	98,841	42,246	52,609	195,290	0	19,130	167,392	0	51,014	237,537
Total Classes 100 - 400	391,072	13,241,647	9,874,219	8,893,208	32,400,146	0	10,483,054	21,805,662	0	3,854,620	36,143,336

	(12) GS HQ $	(13) CUST SERV $	(14) WARRANTY $	(15) METER SHOP $	(16) AUTO MAINT $	(17) BLDG MAINT $	(18) MACH SHOP $	(19) MTLS MGMT $	(20) SECURITY $	(21) GENERAL SUBTOTAL $ sum (12) thru (20)	(22) OPER ADMIN $	(23) OPER TOTAL $ (5)+(11)+(21)+(22)	(24) CHECK TOTAL $	(25) Difference $ (23) - (24)
PERSONAL SERVICES														
Total Class 100		841,629	0	1,319,735	0	0	0	961,953	0	3,123,318	3,064,690	40,302,916	40,302,916	0
PURCHASED SERVICES														
Power - Class 220		0	0	0	0	0	0	0	0	0	0	6,342,118	6,342,118	0
Gas - Class 221		0	0	0	0	0	0	0	0	0	0	531,391	531,391	0
All Other (excluding Class 2	0	2,481,726	0	9,832	0	0	0	73,744	0	2,565,302	5,448,686	15,361,136	15,361,136	0
Total Class 200	0	2,481,726	0	9,832	0	0	0	73,744	0	2,565,302	5,448,686	22,234,646	22,234,646	0
MATERIALS AND SUPPLIES														
Chemicals - Class 307		0	0	0	0	0	0	17,689	0	17,689	0	16,812,371	16,812,371	0
All Other	0	11,115	0	38,006	0	0	0	2,970,582	0	3,019,703	106,310	6,106,420	6,106,420	0
Total Class 300	0	11,115	0	38,006	0	0	0	2,988,271	0	3,037,392	106,310	22,918,790	22,918,790	0
EQUIPMENT														
Total Class 400		2,790	0	4,384	0	0	0	398	0	7,572	1,679,699	2,120,098	2,120,098	0
Total Classes 100 - 400	0	3,337,260	0	1,371,958	0	0	0	4,024,366	0	8,733,584	10,299,385	87,576,451	87,576,451	0

Reference: Womallo-3

WATER SYSTEM EXPENDITURES WITH ADJUSTMENTS
TEST YEAR 2021

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	TRT HQ (a)	Baxter	Queen Lane	Belmont	Treatment Subtotal	CONV HQ (b)	Load Control	Dist.	Emerg & SS	Pumping (c)	WC Subtotal	
	$	$	$	$	$ (1)+(2)+(3)+(4)	$	$	$	$	$	$ (6)+(7)+(8)+(9)+(10)	
PERSONAL SERVICES												
Total Class 100	249,760	3,413,919	3,266,400	3,470,289	10,400,368	0	1,805,873	18,898,594	0	3,010,074	23,714,541	
Adjustments	(249,760)	83,253	83,253	83,254	0	0	3,010,074	0	0	(3,010,074)	(0)	
Adjusted Class 100	0	3,497,172	3,349,653	3,553,543	10,400,368	0	4,815,947	18,898,594	0	0	23,714,541	
PURCHASED SERVICES												
Power - Class 220	0	0	0	0	0	0	6,281,718	60,401	0	0	6,342,118	
Adjustments	0	0	0	0	0	0	0	0	0	0	0	Allocation of Admin Power Costs
Adjusted Power - Class 220	0	0	0	0	0	0	6,281,718	60,401	0	0	6,342,118	
Gas - Class 221	25,964	0	0	0	25,964	0	425,806	79,622	0	0	505,427	
Adjustments	(25,964)	8,655	8,655	8,654	0	0	0	0	0	0	0	
Adjusted Gas - Class 221	0	8,655	8,655	8,654	25,964	0	425,806	79,622	0	0	505,427	
Allocate Pumping Gas Costs to Load Control							0			0	0	
All Other	108,158	767,919	1,376,552	549,638	2,802,267	0	1,817,146	2,338,368	0	389,368	4,544,881	
Adjustments	(108,158)	36,053	36,053	36,052	0	0	389,368	0	0	(389,368)	0	
Adjusted All Other	0	803,972	1,412,605	585,689	2,802,267	0	2,206,514	2,338,368	0	0	4,544,882	
Total Class 200	0	812,627	1,421,260	594,343	2,828,230	0	8,914,038	2,478,390	0	0	11,392,428	
MATERIALS AND SUPPLIES												
Chemicals - Class 307	1,294	8,052,404	4,486,980	4,208,270	16,748,949	0	0	43,144	0	2,589	45,733	
Adjustments	(1,294)	1,294	1,294	1,294	2,589	0	0	0	0	(2,589)	(2,589)	
Adjusted Chemicals	0	8,053,698	4,488,275	4,209,564	16,751,537	0	0	43,144	0	0	43,144	
All Other	4,302	908,564	702,040	612,402	2,227,309	0	133,381	218,141	0	401,576	753,097	
Adjustments	(4,302)	1,434	1,434	1,434	0	0	401,576	0	0	(401,576)	0	
Adjusted All Other	0	909,998	703,474	613,837	2,227,309	0	534,957	218,141	0	0	753,098	
Total Class 300	0	8,963,696	5,191,749	4,823,401	18,978,847	0	534,957	261,286	0	0	796,242	
EQUIPMENT												
Total Class 400	1,594	98,841	42,246	52,609	195,290	0	19,130	167,392	0	51,014	237,537	
Adjustments	(1,594)	531	531	532	0	0	51,014	0	0	(51,014)	(0)	
Adjusted Class 400	0	99,372	42,777	53,141	195,290	0	70,144	167,392	0	0	237,536	
Adjusted Total Classes 100 - 400	0	13,372,867	10,005,439	9,024,428	32,402,735	0	14,335,086	21,805,662	0	0	36,140,747	
Fringe Benefits (Womallo-2) (d)	0	3,303,639	3,164,284	3,356,891	9,824,814	0	4,549,434	17,852,750	0	0	22,402,184	
ADJUSTED TOTAL INCLUDING FRINGE BENEFITS	0	16,676,506	13,169,723	12,381,319	42,227,549	0	18,884,520	39,658,412	0	0	58,542,931	

(a) Adjustments prorated to Baxter, Queen Lane, and Belmont plants.
(b) Adjustments prorated to Load Control, Distribution, and E&S Services.
(c) Chemical adjustment prorated to Baxter, Queen Lane, and Belmont Plants. Remaining adjustments prorated to Load Control .
(d) Allocated based on Adjusted Class 100.

Reference: Womallo-3

WATER SYSTEM EXPENDITURES WITH ADJUSTMENTS
TEST YEAR 2021

	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	
	GS HQ (a)	Customer Service	Warranty	Meter Shop	Auto Maint	BLDG MAINT	Machine Shop	MTLS MGMT	Security	General Subtotal	OPER ADMIN	OPER TOTAL	
	$	$	$	$	$	$	$	$	$	$	$	$	
										sum (12) thru (20)		(5)+(11)+(21)+(22)	
PERSONAL SERVICES													
Total Class 100	0	841,629	0	1,319,735	0	0	0	961,953	0	3,123,318	3,064,690	40,302,916	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted Class 100	0	841,629	0	1,319,735	0	0	0	961,953	0	3,123,318	3,064,690	40,302,916	
PURCHASED SERVICES													
Power - Class 220	0	0	0	0	0	0	0	0	0	0	0	6,342,118	
Adjustments											0	0	
Adjusted Power - Class 220	0	0	0	0	0	0	0	0	0	0	0	6,342,118	
Gas - Class 221	0	0	0	0	0	0	0	0	0	0	0	531,391	
Adjustments											0	0	
Adjusted Gas - Class 221	0	0	0	0	0	0	0	0	0	0	0	531,391	
All Other (b)	0	2,481,726	0	9,832	0	0	0	73,744	0	2,565,302	5,448,686	15,361,136	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted All Other	0	2,481,726	0	9,832	0	0	0	73,744	0	2,565,302	5,448,686	15,361,136	
Total Class 200	0	2,481,726	0	9,832	0	0	0	73,744	0	2,565,302	5,448,686	22,234,646	
MATERIALS AND SUPPLIES													
Chemicals - Class 307	0	0	0	0	0	0	0	17,689	0	17,689	0	16,812,371	
Adjustments										0			
Adjusted Chemicals	0	0	0	0	0	0	0	17,689	0	17,689	0	16,812,371	
All Other	0	11,115	0	38,006	0	0	0	2,970,582	0	3,019,703	106,310	6,106,420	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted All Other	0	11,115	0	38,006	0	0	0	2,970,582	0	3,019,703	106,310	6,106,420	
Total Class 300	0	11,115	0	38,006	0	0	0	2,988,271	0	3,037,392	106,310	22,918,790	
EQUIPMENT													
Total Class 400	0	2,790	0	4,384	0	0	0	398	0	7,572	1,679,699	2,120,098	
Adjustments													
Adjusted Class 400	0	2,790	0	4,384	0	0	0	398	0	7,572	1,679,699	2,120,098	
Adjusted Total Classes 100 - 400	0	3,337,260	0	1,371,958	0	0	0	4,024,366	0	8,733,584	10,299,385	87,576,451	
												87,576,451	AGREES with Womallo-3
Fringe Benefits (Womallo-2) (b)	0	795,054	0	1,246,701	0	0	0	908,719	0	2,950,474	2,895,091	38,072,563	
ADJUSTED TOTAL INCLUDING FRINGE BENEFITS	0	4,132,314	0	2,618,659	0	0	0	4,933,085	0	11,684,058	13,194,476	125,649,014	

(a) Prorated to all other General Support items (Columns 13 through 19).
(b) Allocated based on Adjusted Class 100.

Reference:

Power Cost:	Percent of Total (a) BOX 2	Percent of Load Control	Load Control Power Cost $
Raw Water Pumping			
Baxter Plant	5.78%	6.39%	401,402
All Other	28.27%	31.25%	1,963,037
Subtotal	34.05%	37.64%	2,364,439
Treated Water Pumping			
Baxter Plant (Low Service)	7.12%	7.87%	494,371
All Other (b)	49.30%	54.49%	3,422,908
Subtotal	56.42%	62.36%	3,917,279
High Pressure Fire (c)	0.00%	0.00%	0
Total Load Control	90.47%	100.00%	6,281,718

(a) Percent of total system power bills based on 2 year average FY2016 and FY 2017.
(b) Includes booster pump stations and Filter Buildings.
(c) Includes Fairhill and Race Street pump stations.

BOX 2 - WATER DEPT ELECTRICAL EXPENDITURES

	FY 2014 $ BD 24	FY 2015 $ BD 24	Average $	%			
Baxter							
Raw Water PS	472,503	312,541	392,522	5.78%	x		
Hi Service PS	492,800	801,014	646,907	9.52%	x		
Lo Service PS	616,169	351,668	483,918	7.12%	x		
Filter Bldg	288,703	254,496	271,600	4.00%	x		
Queen Lane							
Raw Water PS	942,913	944,878	943,896	13.89%	x		
Hi Service PS	459,990	486,498	473,244	6.97%	x		
Rox Exp PS	0	0	0	0.00%			
Filter Bldg	264,065	235,730	249,898	3.68%	x		
Belmont							
Raw Water PS	961,457	992,711	977,084	14.38%	x		
Hi Service PS	164,353	199,591	181,972	2.68%	x		
Filter Bldg	157,279	174,882	166,081	2.44%	x		
Distrib./Booster PS	1,989,085	2,023,383	2,006,234	29.53%	x		
Hi Press. Fire System	0	0	0	0.00%		99.99%	Shut down 1/6/05 (28282U01.xls BD-19 FY 2007)

Gas Cost:	Percent of Total (a) BOX 3	Percent of Load Control	Load Control Gas Cost $
Raw Water Pumping			
Baxter Plant	0.00%	0.00%	0
All Other	0.08%	0.08%	341
Subtotal	0.08%	0.08%	341
Treated Water Pumping			
Baxter Plant (Low Service)	0.00%	0.00%	0
All Other (b)	99.92%	99.92%	425,465
Subtotal	99.92%	99.92%	425,465
High Pressure Fire (c)	0.00%	0.00%	0
Total Load Control	100.00%	100.00%	425,806

(a) Percent of total system gas bills based on 2 year average FY2016 and FY 2017.
(b) Includes booster pump stations and Filter Buildings.
(c) Includes Fairhill and Race Street pump stations.

BOX 3 - WATER DEPT GAS EXPENDITURES

Source: PWD Power and Gas Costs.xls

	FY 2018 $	FY 2019 $	Average $	%		
Baxter						
Raw Water PS	0	0	0	0.00%	x	
Hi Service PS	0	0	0	0.00%	x	
Lo Service PS	0	0	0	0.00%	x	
Filter Bldg	188,658	207,102	197,880	42.45%	x	
Queen Lane						
Raw Water PS	383	368	376	0.08%	x	
Hi Service PS	0	0	0	0.00%	x	
Rox Exp PS	0	0	0	0.00%		
Filter Bldg	85,013	92,266	88,639	19.01%	x	
Belmont						
Raw Water PS	0	0	0	0.00%	x	
Hi Service PS	5,844	5,436	5,640	1.21%	x	
Filter Bldg	97,495	73,682	85,588	18.36%	x	
Distrib./Booster PS	92,865	83,230	88,048	18.89%	x	
Hi Press. Fire System	0	0	0	0.00%		100.00%

All Other Load Control Expense:

	Test Year Plant Investment $ BOX 1	Percent	Percent of Load Control	Load Control Expense Excluding Power: Class100(a) $ Womallo-4	Class200 $ Womallo-4	Class300 $ Womallo-4	Class400 $ Womallo-4	Total $
			PUMPING RELATED:					
Raw Water Pumping								
Baxter Plant	5,063,798	5.10%	3.83%	358,694	84,509	20,489	2,687	466,379
All Other	16,306,262	16.44%	12.33%	1,154,752	272,063	65,960	8,649	1,501,424
Subtotal	21,370,060	21.54%	16.16%	1,513,446	356,572	86,449	11,336	1,967,803
Treated Water Pumping								
Baxter Plant (Low Service)	9,389,206	9.46%	7.10%	664,942	156,663	37,982	4,980	864,567
All Other	68,447,681	68.99%	51.74%	4,845,648	1,141,651	276,787	36,293	6,300,379
Subtotal	77,836,887	78.45%	58.84%	5,510,590	1,298,314	314,769	41,273	7,164,946
High Pressure Fire	0	0.00%	0.00%	0	0	0	0	0
Total Load Control	99,206,947	99.99%	75%	7,024,036	1,654,886	401,218	52,609	9,132,749
			DISTRIBUTION SYSTEM RELATED:					
			25%	2,341,345	551,629	133,739	17,536	3,044,249
			100.00%	9,365,381	2,206,514	534,957	70,144	12,176,998
								12,176,996 Agrees with Womallo-4

(a) Includes Fringe Benefits

BOX 1 - PLANT INVESTMENT	$
TEST YR PLANT IN SERVICE	Plant-8
POWER & PUMPING - RAW WATER	
Torresdale	5,063,798
Torresdale Intake Conduit	0
Torresdale Raw Water Basin	0
All Other	16,306,262
Total	21,370,060
PURIFICATION	
Torresdale Filters	148,103,941
All Other	203,220,887
Total	351,324,828
TREATED WATER	
Torresdale Low Service	9,389,206
All Other	68,447,681
Total	77,836,887
HIGH PRESSURE FIRE	0

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
DISTSYS - Distribution System O&M Expense	P.N. 401641.0100	February 07, 2020 11:56 a.m.			Womallo-7

	Test Year Plant Investment (a) $ BOX 1	Percent of Total Distribution	Distribution Expense Class100 $ Womallo-4	Class200 $ Womallo-4	Class300 $ Womallo-4	Class400 $ Womallo-4	Total $
Transmission & Distribution Mains							
Small Mains	641,188,794	69.06%	25,380,478	1,711,576	180,444	115,601	27,388,099
Large Mains (24" and larger)	234,765,386	25.29%	9,294,415	626,785	66,079	42,333	10,029,612
Total Mains (exClassHP Fire)	875,954,180	94.35%	34,674,893	2,338,361	246,523	157,934	37,417,711
Fire Hydrants	9,200,000	0.99%	363,838	24,536	2,587	1,657	392,618
Meters	25,887,942	2.79%	1,025,362	69,147	7,290	4,670	1,106,469
Filt Water Storage & All Other	17,349,568	1.87%	687,251	46,346	4,886	3,131	741,614
High Pressure Fire System	0	0.00%	0	0	0	0	0
Total Distribution System	928,391,690	100.00%	36,751,344	2,478,390	261,286	167,392	39,658,412
	928,391,690	AGREES with BOX 1					
Included in Fire Hydrants Above			0	0	0	0	0 (b)
(a) Plant investment in Distribution related facilities.			36,751,344	2,478,390	261,286	167,392	39,658,412
Includes Fringe Benefits.							39,658,412
(b) NA.							
							AGREES with Womallo-4

BOX 1 - PLANT INVESTMENT			%	$ Plant-15
Total Mains				875,954,180
1	16" and larger		35.3%	
2	18" and larger		31.4%	
3	24" and larger		26.8%	
4	30" and larger		23.2%	
5	36" and larger		18.6%	
6	48" and larger		14.9%	
	USE	3	26.8%	234,765,386
	Bucks County 48" Main			0
Fire Hydrants				9,200,000
Meters				25,887,942
Filtered Water Storage (exClassresevoirs)				39,587
All Other (Reservoirs)				17,309,981
Total Distribution System				52,437,510
High Pressure Fire System				0

Transmission & Distribution Mains							
Small Mains	712,931,402	76.79%	28,221,357	1,903,156	200,641	128,541	30,453,695
Large Mains (36" and larger)	163,022,778	17.56%	6,453,536	435,205	45,882	29,394	6,964,017
Total Mains (exClassHP Fire)	875,954,180	94.35%	34,674,893	2,338,361	246,523	157,935	37,417,712

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
XXXXX - PAGE NOT IN USE	**P.N. 401641.0100**	**February 07, 2020 11:56 a.m.**					**Womallo-8**

COST CENTER NO LONGER BUDGETED

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
ADMIN - Allocation of Administrative Costs	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Womallo-9

ALLOCATION OF PLANNING & ENGINEERING EXPENSE

Allocated to cost centers or functional categories based on budget details (Financial Plan Model: Assumptions-23 and Assumptions-31

	Total Planning & Engineering $ Womallo-3	Watersheds	BLS	Planning & Research
Class 100 (including fringes)	11,698,666	962,116	5,899,452	4,837,098
Class 200	6,580,204	3,719,500	865,676	1,995,029
Class 300	428,334	0	578,645	(150,311)
Class 400	252,439	0	302,476	(50,037)
Total	18,959,643	4,681,616	7,646,248	6,631,778
Class 100	6,015,789	494,748	3,033,667	2,487,374
P&E + DOT		7,587,054	7,646,248	20,351,217

ALLOCATION OF DOT

	DOT Womallo-3	Customer	A&G
Class 100 (including fringes)	8,015,866	1,021,744	6,994,122
Class 200	7,729,873	1,819,014	5,910,859
Class 300	879,138	64,681	814,457
Class 400	0	0	0
Total	16,624,877	2,905,438	13,719,439

ALLOCATION OF PUBLIC AFFAIRS

	Public Affairs $	Customer	Volume	A&G
Class 100 (including fringes)	4,821,118			4,821,118
Class 200	3,728,854	542,458	1,828,510	1,357,886
Class 300	184,188			184,188
Class 400	1,173			1,173
Total	8,735,333	542,458	1,828,510	6,364,365

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
MSMM - Machine Shop & Materials Mgmt O&M | P.N. 401641.0100 | February 07, 2020 11:56 a.m. | Womallo-10

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Treatment Plants $	Load Control $	Distribution $	E&SS (a) $	Customer Service (b) $	Automotive Maint. (c) $	Building Maint. (d) $	TOTAL Class300 $	Machine Shop & Materials Mgmt. (e) $
SUPPLY & TREATMENT	Womallo-4	Womallo-6	Womallo-7	Womallo-8	Womallo-5	Womallo-5	Womallo-5		Womallo-5
Source of Supply									
Raw Water Power & Pumping									
Baxter Treatment Plant									
Power									
Gas									
All Other Costs		20,489						20,489	34,976
Subtotal	0	20,489	0	0	0	0	0	20,489	34,976
All Other Treatment Plants									
Power									
Gas									
All Other Costs		65,960						65,960	112,598
Subtotal	0	65,960	0	0	0	0	0	65,960	112,598
Subtotal	0	86,449	0	0	0	0	0	86,449	147,574
Treatment									
Purification									
Baxter Treatment Plant									
Power									
Gas									
Chemicals									
All Other Costs	909,998					0		909,998	1,553,422
Subtotal	909,998	0	0	0	0	0	0	909,998	1,553,422
All Other Treatment Plants									
Power									
Gas									
Chemicals									
All Other Costs	1,317,311					0		1,317,311	2,248,730
Subtotal	1,317,311	0	0	0	0	0	0	1,317,311	2,248,730
Subtotal	2,227,309	0	0	0	0	0	0	2,227,309	3,802,152
Treated Water Power & Pumping									
Baxter Treatment Plant - L.S.									
Power									
Gas									
All Other Costs		37,982						37,982	64,838
Subtotal	0	37,982	0	0	0	0	0	37,982	64,838
All Other Pumping									
Power									
Gas									
All Other Costs		276,787						276,787	472,492
Subtotal	0	276,787	0	0	0	0	0	276,787	472,492
Subtotal	0	314,769	0	0	0	0	0	314,769	537,330
Total Supply & Treatment	2,227,309	401,218	0	0	0	0	0	2,628,527	4,487,056
DISTRIBUTION									
Filtered Water Storage			4,886			0		4,886	8,341
High Pressure Fire System		0				0		0	0
Transmission & Distribution Mains									
Small Mains (Less than 24")			180,444			0		180,444	308,029
Large Mains (24" & Over)			66,079			0		66,079	112,801
Subtotal	0	0	246,523	0	0	0	0	246,523	420,830

Fire Hydrants			2,587			0		2,587	4,416
Meters			7,290			0		7,290	12,442
Total Distribution	0	0	261,286	0	0	0	0	261,286	446,029
CUSTOMER ACCT. & COLLECTION			0		49,121			49,121	
ADMINISTRATIVE & GENERAL								0	0
TOTAL O & M	2,227,309	401,218	261,286	0	49,121	0	0	2,938,934	4,933,085
		401,218	261,286	0		0	0		4,933,085
		Agrees with Womallo-6	Agrees with Womallo-7	Agrees with Womallo-4		Agrees with Womallo-5	Agrees with Womallo-5		Agrees with Womallo-5

(a) Total of this column is distributed based on distribution shown in column (4), Womallo-11.
(b) Includes Customer Service and Meter Shop.
(c) Total of this column is distributed based on distribution shown in column (6), Womallo-11.
(d) Total of this column is distributed based on distribution shown in column (7), Womallo-11.
(e) Total of this column is distributed based on distribution shown in column (8), this page, excluding Customer Acct. and Collection.

Transmission & Distribution Mains									
Small Mains (Less than 36")			200,641			0		200,641	342,506
Large Mains (36" & Over)			45,882			0		45,882	78,323
Subtotal	0	0	246,523	0	0	0	0	246,523	420,829

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2021	Budget Yr 2019	Ver. 1a
DIROM - Allocation of Direct to O&M Facility	P.N. 401641.0100	February 07, 2020 11:56 a.m.			Womallo-11

Line No.		(1) Treatment Plants (a) $ Womallo-4	(2) Conveyance (b) Load Control (i) $ Womallo-6	(3) Conveyance (b) Distribution $ Womallo-7	(4) Conveyance (b) E & S Services (j) $ Womallo-8	(5) Customer Service (c) $ Womallo-5	(6) Warranty Program $ Womallo-5	(7) Automotive Maint (d) $ Womallo-9	(8) Building Maint $ Womallo-9	(9) Machine Shop & Materials Management $ Womallo-10	(10) Subtotal $	(11) Admin. & General (f) $ Womallo-5	(12) Total Direct Expense $
	SUPPLY & TREATMENT												
1	Source of Supply												
	Raw Water Power & Pumping												
	Baxter Treatment Plant												
2	Power		401,402								401,402		401,402
3	Gas		0								0		0
4	All Other Costs		466,379							34,976	501,355		501,355
5	Subtotal	0	867,781	0	0	0	0	0	0	34,976	902,757	0	902,757
	All Other Treatment Plants												
6	Power		1,963,037								1,963,037		1,963,037
7	Gas		341								341		341
8	All Other Costs		1,501,424							112,598	1,614,022		1,614,022
9	Subtotal	0	3,464,802	0	0	0	0	0	0	112,598	3,577,400	0	3,577,400
10	Subtotal	0	4,332,583	0	0	0	0	0	0	147,574	4,480,157	0	4,480,157
	Treatment												
	Purification												
	Baxter Treatment Plant												
11	Power	0									0		0
12	Gas	8,655									8,655		8,655
13	Chemicals	8,053,698									8,053,698		8,053,698
14	All Other Costs	8,614,153								1,553,422	10,167,575		10,167,575
15	Subtotal	16,676,506	0	0	0	0	0	0	0	1,553,422	18,229,928	0	18,229,928
	All Other Treatment Plants												
16	Power	0									0		0
17	Gas	17,309									17,309		17,309
18	Chemicals	8,697,839									8,697,839		8,697,839
19	All Other Costs	16,835,895								2,248,730	19,084,625		19,084,625
20	Subtotal	25,551,043	0	0	0	0	0	0	0	2,248,730	27,799,773	0	27,799,773
21	Subtotal	42,227,549	0	0	0	0	0	0	0	3,802,152	46,029,701	0	46,029,701
	Treated Water Power & Pumping												
	Baxter Treatment Plant - L.S.												
22	Power		494,371								494,371		494,371
23	Gas		0								0		0
24	All Other Costs		864,567							64,838	929,405		929,405
25	Subtotal	0	1,358,938	0	0	0	0	0	0	64,838	1,423,776	0	1,423,776
	All Other Pumping												
26	Power		3,422,908								3,422,908		3,422,908
27	Gas		425,465								425,465		425,465
28	All Other Costs		6,300,379							472,492	6,772,871		6,772,871
29	Subtotal	0	10,148,752	0	0	0	0	0	0	472,492	10,621,244	0	10,621,244
	Subtotal	0	11,507,690	0	0	0	0	0	0	537,330	12,045,020	0	12,045,020
30	Total Supply & Treatment	42,227,549	15,840,273	0	0	0	0	0	0	4,487,056	62,554,878	0	62,554,878
	DISTRIBUTION												
31	Filtered Water Storage		58,561	741,614				0		8,341	808,516		808,516
32	High Pressure Fire System		0	0				0		0	0		0
	Transmission & Distribution Mains												
33	Small Mains (Less than 24")		2,162,698	27,388,099				0		308,029	29,858,826		29,858,826
34	Large Mains (24" & Over)		791,987	10,029,612				0		112,801	10,934,400		10,934,400
35	Subtotal	0	2,954,685	37,417,711	0	0	0	0	0	420,830	40,793,226	0	40,793,226

36	Fire Hydrants		31,003	392,618				0		4,416	428,037		428,037		
37	Meters			1,106,469				0		12,442	1,118,911		1,118,911		
38	Total Distribution	0	3,044,249	39,658,412	0	0	0		0	446,029	43,148,690	0	43,148,690		
39	CUSTOMER ACCT. & COLLECTION					6,750,973				0	6,750,973		6,750,973		Operations Meter Shop and Custom
40	WARRANTY PROGRAM						0				0		0		
41	ADMINISTRATIVE & GENERAL										0	13,194,476	13,194,476		Operations Admin
42	TOTAL O & M	42,227,549	18,884,522	39,658,412	0	6,750,973	0	0	0	4,933,085	112,454,542	13,194,476	125,649,018		125,649,018
		42,227,549	18,884,520	39,658,412	0	6,750,973	0	0	0	4,933,085	112,454,538	13,194,476	125,649,014	(4)	125,649,014
		Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with sum of Columns (1) through (8)	Agrees with Womallo-5	Agrees with Womallo-5		

(a) Includes Treatment Headquarters.
(b) Includes Conveyance Headquarters, Load Control, Distribution, E & S Services, and Pumping.
(c) Includes Meter Expense.
(d) NA.
(f) Includes Security, Operations Admin. & a portion of Auto Maint. Total prorated on basis of all other expense excluding power & chemicals.
(g) NA
(i) Load Control distribution costs are allocated between categories based on col (3). HP Fire system includes Power, All Other, and a share of Distribution costs.
(j) E&SS is no longer a budget cost center.

Transmission & Distribution Mains										
Small Mains (Less than 36")		2,404,772	30,453,695		0		342,506	33,200,973		33,200,973
Large Mains (36" & Over)		549,913	6,964,017		0		78,323	7,592,253		7,592,253
Subtotal		2,954,685	37,417,712		0		420,829	40,793,226	0	40,793,226

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2021 | Budget Yr 2019 | Ver. 1a
ADHR - Administrative & Human Resources O&M | P.N. 401641.0100 | February 07, 2020 11:56 a.m. | Womallo-12

	(1) Treatment Plants $ Womallo-4	(2) Load Control $ Womallo-6	(3) Distribution $ Womallo-7	(4) E&SS $ Womallo-4	(5) Customer Service $ Womallo-5	(6) Automotive Maint. $ Womallo-5	(7) Building Maint. $ Womallo-5	(8) Materials Mgmt. (d) $ Womallo-5	(9) TOTAL Personal Srv & Fringe Bft Class100 $	(10) Admin. & Human Resources $ Womallo-2
SUPPLY & TREATMENT										
Source of Supply										
Raw Water Power & Pumping										
Baxter Treatment Plant										
Power										
Gas										
All Other Costs		358,694						13,263	371,957	35,624
Subtotal	0	358,694	0	0	0	0	0	13,263	371,957	35,624
All Other Treatment Plants										
Power										
Gas										
All Other Costs		1,154,752						42,698	1,197,450	114,686
Subtotal	0	1,154,752	0	0	0	0	0	42,698	1,197,450	114,686
Subtotal	0	1,513,446	0	0	0	0	0	55,961	1,569,407	150,310
Treatment										
Purification										
Baxter Treatment Plant										
Power										
Gas										
Chemicals										
All Other Costs	6,800,811					0		589,072	7,389,883	707,766
Subtotal	6,800,811	0	0	0	0	0	0	589,072	7,389,883	707,766
All Other Treatment Plants										
Power										
Gas										
Chemicals										
All Other Costs	13,424,371					0		852,739	14,277,110	1,367,390
Subtotal	13,424,371	0	0	0	0	0	0	852,739	14,277,110	1,367,390
Subtotal	20,225,182	0	0	0	0	0	0	1,441,811	21,666,993	2,075,156
Treated Water Power & Pumping										
Baxter Treatment Plant - L.S.										
Power										
Gas										
All Other Costs		664,942						24,587	689,529	66,040
Subtotal	0	664,942	0	0	0	0	0	24,587	689,529	66,040
All Other Pumping										
Power										
Gas										
All Other Costs		4,845,648						179,173	5,024,821	481,252
Subtotal	0	4,845,648	0	0	0	0	0	179,173	5,024,821	481,252
Subtotal	0	5,510,590	0	0	0	0	0	203,760	5,714,350	547,292
Total Supply & Treatment	20,225,182	7,024,036	0	0	0	0	0	1,701,532	28,950,750	2,772,758
DISTRIBUTION										
Filtered Water Storage		45,040	687,251			0		3,163	735,454	70,438
High Pressure Fire System		0	0			0		0	0	0
Transmission & Distribution Mains										
Small Mains (Less than 24")		1,663,340	25,380,478			0		116,809	27,160,627	2,601,310
Large Mains (24" & Over)		609,121	9,294,415			0		42,775	9,946,311	952,608
Subtotal	0	2,272,461	34,674,893	0	0	0	0	159,584	37,106,938	3,553,918

Fire Hydrants		23,845	363,838			0		1,675	389,358	37,291
Meters			1,025,362			0		4,718	1,030,080	98,656
Total Distribution	0	2,341,346	36,751,344	0	0	0	0	169,140	39,261,830	3,760,303
CUSTOMER ACCT. & COLLECTION					1,636,683			0	1,636,683	156,753
ADMINISTRATIVE & GENERAL								0	0	0
TOTAL O & M	20,225,182	9,365,382	36,751,344	0	1,636,683	0	0	1,870,672	69,849,263	6,689,814
	20,225,182	9,365,381	36,751,344	0	1,636,683	0	0	1,870,672	69,849,262	6,689,814
	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with sum of Columns (1) through (8)	Agrees with Womallo-2

(a) NA.
(b) NA.
(c) NA.
(d) Total of this column is distributed based on distribution shown in column (9), Womallo-11.

Transmission & Distribution Mains										
Small Mains (Less than 36")			28,221,357			0		129,881	28,351,238	2,715,340
Large Mains (36" & Over)			6,453,536			0		29,701	6,483,237	620,932
Subtotal	0	0	34,674,893	0	0	0	0	159,582	34,834,475	3,336,272

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File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year 2021** **Budget Yr 2019** **Ver. 1a**
ATOM - Allocation of Total O&M Expense **P.N. 401641.0100** **February 07, 2020 11:56 a.m.** **Womallo-14**

Line No.		(1) Total Direct Expense	(2) Inter-Departmental Charges (a)	(3) Finance Class 200 Customer	(4) Other Finance (b)	(5) Admin. & Human Resources (c)	(6) Planning & Engineering Watersheds	(7) Planning & Engineering BLS	(8) Planning & Engineering P&R	(9) DOT (d)	(10) Public Affairs (b)	(11) Indemnities	(12) Capital Fringes (270)	(13) WTP Sludge (e)	(14) Total Operation & Maint.	(15) Distribution of Plant Investment
		$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
		Womallo-11	Womallo-2			Womallo-12	Womallo-15	Womallo-15	Womallo-15	Womallo-15	Womallo-2	Womallo-2	Womallo-2			
	SUPPLY & TREATMENT															
1	Source of Supply	0				0										
	Raw Water Power & Pumping															
	Baxter Treatment Plant															
2	Power	401,402													401,402	
3	Gas	0													0	
4	All Other Costs	501,355	25,212		36,318	35,624	22,974	37,523	23,200	72,090	11,150		0		765,446	5,063,798
5	Subtotal	902,757	25,212	0	36,318	35,624	22,974	37,523	23,200	72,090	11,150	0	0		1,166,848	5,063,798
	All Other Treatment Plants															
6	Power	1,963,037													1,963,037	
7	Gas	341													341	
8	All Other Costs	1,614,022	81,165		116,920	114,686	73,962	120,798	74,707	232,080	35,895		0		2,464,235	16,306,262
9	Subtotal	3,577,400	81,165	0	116,920	114,686	73,962	120,798	74,707	232,080	35,895	0	0		4,427,613	16,306,262
10	Subtotal	4,480,157	106,377	0	153,238	150,310	96,936	158,321	97,907	304,170	47,045	0	0		5,594,461	21,370,060
	Treatment															
	Purification															
	Baxter Treatment Plant															
11	Power	0													0	
12	Gas	8,655													8,655	
13	Chemicals	8,053,698													8,053,698	
14	WTP Sludge													8,474,159	8,474,159	
15	All Other Costs	10,167,575	511,302		736,542	707,766	465,924	760,971	678,535	1,461,996	226,123		0		15,716,734	148,103,941
16	Subtotal	18,229,928	511,302	0	736,542	707,766	465,924	760,971	678,535	1,461,996	226,123	0	0	8,474,159	32,253,246	148,103,941
	All Other Treatment Plants															
17	Power	0													0	
18	Gas	17,309													17,309	
19	Chemicals	8,697,839													8,697,839	
20	WTP Sludge													6,257,841	6,257,841	
21	All Other Costs	19,084,625	959,718		1,382,495	1,367,390	874,544	1,428,348	931,053	2,744,178	424,435		0		29,196,786	203,220,887
22	Subtotal	27,799,773	959,718	0	1,382,495	1,367,390	874,544	1,428,348	931,053	2,744,178	424,435	0	0	6,257,841	44,169,775	203,220,887
23	Subtotal	46,029,701	1,471,020	0	2,119,037	2,075,156	1,340,468	2,189,319	1,609,588	4,206,174	650,558	0	0	14,732,000	76,423,021	351,324,828
	Treated Water Power & Pumping															
	Baxter Treatment Plant - L.S.															
24	Power	494,371													494,371	
25	Gas	0													0	
26	All Other Costs	929,405	46,737		67,326	66,040	42,590	69,559	43,016	133,639	20,670		0		1,418,982	9,389,206
27	Subtotal	1,423,776	46,737	0	67,326	66,040	42,590	69,559	43,016	133,639	20,670	0	0		1,913,353	9,389,206
	All Other Pumping															
28	Power	3,422,908													3,422,908	
29	Gas	425,465													425,465	
30	All Other Costs	6,772,871	340,591		490,628	481,252	310,364	506,901	313,592	973,871	150,626		0		10,340,696	68,447,681
31	Subtotal	10,621,244	340,591	0	490,628	481,252	310,364	506,901	313,592	973,871	150,626	0	0		14,189,069	68,447,681
	Subtotal	12,045,020	387,328	0	557,954	547,292	352,954	576,460	356,608	1,107,510	171,296	0	0	Womallo-16	16,102,422	77,836,887
32	Total Supply & Treatment	62,554,878	1,964,725	0	2,830,229	2,772,758	1,790,358	2,924,100	2,064,103	5,617,854	868,899	0	0	14,732,000	98,119,904	450,531,775

	DISTRIBUTION															
33	Filtered Water Storage	808,516	40,658		58,569	70,438	37,050	60,512	79,487	116,257	17,981		0		1,289,468	17,349,568
34	High Pressure Fire System	0	0		0	0	0	0	0	0	0		0		0	
	Transmission & Distribution Mains															
35	Small Mains (Less than 24")	29,858,826	1,501,525		2,162,981	2,601,310	1,368,264	2,234,720	2,937,593	4,293,402	664,050		0		47,622,671	641,188,794
36	Large Mains (24" & Over)	10,934,400	549,863		792,091	952,608	501,064	818,362	1,075,573	1,572,257	243,177		0		17,439,395	234,765,386
37	Subtotal	40,793,226	2,051,388	0	2,955,072	3,553,918	1,869,328	3,053,082	4,013,166	5,865,659	907,227	0	0	0	65,062,066	875,954,180
38	Fire Hydrants	428,037	21,525		31,007	37,291	19,615	32,036	42,150	61,547	9,519		0		682,727	9,200,000
39	Meters	1,118,911	56,267		81,054	98,656	51,274	83,743	118,605	160,888	24,884		0		1,794,282	25,887,942
40	Total Distribution	43,148,690	2,169,838	0	3,125,702	3,760,303	1,977,267	3,229,373	4,253,408	6,204,351	959,611	0	0	0	68,828,544	928,391,690
41	CUSTOMER ACCT. & COLLECTION	6,750,973	12,330,322	0	489,042	156,753	309,360	505,262	0	2,905,438	542,458		0		23,989,608	
42	WARRANTY PROGRAM	0													0	
43	ADMINISTRATIVE & GENERAL	13,194,476	663,517		955,811	0	604,631	987,513	314,267	1,897,234	6,364,365	1,804,302	0	0	26,786,116	68,595,079
44	TOTAL O & M	125,649,018	17,128,402	0	7,400,784	6,689,814	4,681,616	7,646,248	6,631,778	16,624,877	8,735,333	1,804,302	0	14,732,000	217,724,172	1,447,518,544
		125,649,014	17,128,402	0	7,400,784	6,689,814	4,681,616	7,646,248	6,631,778	16,624,877	8,735,333	1,804,302	0		217,724,168	1,447,518,544
		Agrees with Womallo-2	Agrees with footnote (a)		Agrees with Womallo-2	Agrees with Womallo-2	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-2	Agrees with Womallo-2	Agrees with Womallo-2		Agrees with Womallo-2	

(a) WRB expense 100% Customer (Line 41), 40% Public Properties to Customer (Line 41), all other prorated on basis of direct expenses excluding power & chemicals, Cust. Acc't. and Collection, and WTP Sludge (Lines 14 and 20).

	Direct	Fringe Benefits	Total	% Retail	Retail	All	
	Womallo-2	Womallo-2		Only	Only	Other	58,051,556
							57,364,162
WRB Expense	5,705,066	3,426,536	9,131,602	100%	9,131,602	(0)	87,576,451
All Other Expenses							202,992,168
Public Properties	7,095,289	901,511	7,996,800	40%	3,198,720	4,798,080	
All Other	0	0	0	0%	0	0	
			17,128,402		12,330,322	4,798,080	

(b) Prorated on basis of direct expense excluding power & chemicals and WTP Sludge (Lines 14 and 20).
(c) Prorated on basis of direct expense for Class 100 from Womallo-12.
(d) Customer billing expense 100% Customer (Line 41), all other prorated on basis of direct expense excluding power & chemicals, Cust. Acc't. and Collection, and WTP Sludge (Lines 14 and 20).
(e) Prorate Water Treatment Plant Sludge costs to the Baxter Plant and All Other Treatment Plants on the basis of average day production from Wpltallo-4.

Transmission & Distribution Mains									
Small Mains (Less than 36")	33,200,973	1,661,725		2,394,498	2,715,340	7,048,263			47,020,799
Large Mains (36" & Over)	7,592,253	379,996		547,563	620,932	1,611,766			10,752,510
Subtotal	40,793,226	2,041,721		2,942,061	3,336,272	8,660,029	0	0	57,773,309

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xxxxx - NOT IN USE	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Womallo-15

TABLE W-10

ALLOCATION OF TEST YEAR WATER OPERATION AND MAINTENANCE EXPENSE TO FUNCTIONAL COST COMPONENTS TEST YEAR 2021

Line No.	Description	(1) Test Year Operation & Maintenance Expense	(2) Base	(3) Extra Capacity: Maximum Day	(4) Extra Capacity: Maximum Hour In Excess of Maximum Day	(5) Meters	(6) Customer Costs Billing	(7) Warranty	(8) Public Fire Protection: Direct Standard Pressure	(9) Public Fire Protection: High Pressure	(10) Wholesale Direct	(11) Allocation Basis: Base	(12) Allocation Basis: Max Day	(13) Allocation Basis: Max Hour	(14) Aqua PA
		$	$	$	$	$	$	$	$	$	$				$
		Womallo-15									Womallo-15, Womallo-18				Womallo-18
	Raw Water Pumping														
1	Purchased Power	2,364,000	2,227,000	117,000							20,000	95.00%	5.00%		20,000
2	Purchased Gas	0	0	0							0	71%	29%		0
3	Other	3,230,000	2,263,000	925,000							42,000	71%	29%		42,000
4	Total Raw Water Pumping	5,594,000	4,490,000	1,042,000							62,000				62,000
	Purification and Treatment														
	Power and Pumping (a)														
5	Purchased Power	3,917,000	3,495,000	194,000	194,000						34,000	90.00%	5.00%	5.00%	34,000
6	Purchased Gas	425,000	219,000	67,000	135,000						4,000	52%	16%	32%	4,000
7	Other	11,760,000	6,035,000	1,857,000	3,713,000						155,000	52%	16%	32%	155,000
	Treatment														
8	Purchased Power	0	0	0	0						0	90.00%	5.00%	5.00%	0
9	Purchased Gas	26,000	18,000	8,000	0						0	71%	29%		0
10	Chemicals	16,752,000	16,607,000								145,000	100.00%			145,000
	Other														
	Other	44,914,000	31,469,000	12,854,000							591,000	71%	29%		591,000
	Water Treatment Plant Sludge	14,732,000	14,573,000								159,000	100.00%			159,000
11	Other (b)	59,646,000	46,042,000	12,854,000							750,000				750,000
12	Total Purification and Treatment	92,526,000	72,416,000	14,980,000	4,042,000						1,088,000				1,088,000
	Transmission and Distribution														
13	Mains	65,062,000	33,632,000	10,348,000	20,696,000						386,000	52%	16%	32%	386,000
14	Meters	1,794,000				1,794,000					0	100% Meters			0
15	Hydrants	683,000							683,000		0	100% Standard Pressure Fire			0
16	Filtered Water Storage	1,289,000	655,000	202,000	403,000						29,000	52%	16%	32%	29,000
17	High Pressure Fire System	0								0	0	100% High Pressure Fire			0
18	Total Transmission and Distribution	68,828,000	34,287,000	10,550,000	21,099,000	1,794,000			683,000	0	415,000				415,000
19	Customer Accounting and Collection	23,990,000					23,990,000				0	100% Billing			0
20	Warranty Program	0						0							
21	Subtotal	190,938,000	111,193,000	26,572,000	25,141,000	1,794,000	23,990,000	0	683,000	0	1,565,000				1,565,000
22	Administrative and General	26,786,000	12,987,000	4,593,000	4,352,000	315,000	4,208,000	0	120,000	0	211,000	Line 17 less power, chem., treatment plant sludge			211,000
23	Subtotal Water Operating Expense	217,724,000	124,180,000	31,165,000	29,493,000	2,109,000	28,198,000	0	803,000	0	1,776,000				1,776,000
24	Residual Fund Deposit	5,461,000	3,114,000	782,000	740,000	53,000	707,000	0	20,000	0	45,000	Line 19			45,000
25	Deposit (from) to RSF	2,739,000	1,562,000	392,000	371,000	27,000	355,000	0	10,000	0	22,000	Line 19			22,000
26	Total Water Operating Expense	225,924,000	128,856,000	32,339,000	30,604,000	2,189,000	29,260,000	0	833,000	0	1,843,000				1,843,000
27	Adjustment for Wholesale Contracts	0	0	0	0	0	0	0	0	0	0	Not Required for current analysis			0
	Other Operating Revenue														
28	Allocable to Wholesale	2,821,000	1,610,000	404,000	382,000	27,000	365,000	0	10,000	0	23,000	Line 19			23,000
29	Non-Allocable to Wholesale	12,156,000	6,991,000	1,754,000	1,660,000	119,000	1,587,000	0	45,000	0	0	Line 19 less wholesale			0
30	Other Operating Revenue	14,977,000	8,601,000	2,158,000	2,042,000	146,000	1,952,000	0	55,000	0	23,000				23,000
31	Interst Income	929,000	530,000	133,000	126,000	9,000	120,000	0	3,000	0	8,000	Line 19			8,000
32	Total Operating Expense Less Other Operating Revenue	210,018,000	119,725,000	30,048,000	28,436,000	2,034,000	27,188,000	0	775,000	0	1,812,000				1,812,000
			57.0%	14.3%	13.5%	1.0%	12.9%	0.0%	0.4%	0.0%	0.9%				

(a) Includes booster pumping.

(b) Includes Wastewater System cost of treating water treatment plant sludge of $14,732,000.

Line 23 Less power, chemicals, and WTP sludge	152,722,000	74,054,000	26,186,000	24,812,000	1,794,000	23,990,000	0	683,000	0	1,203,000

CHECK OF TOTAL O&M PRIOR TO CREDIT FOR OTHER REVENUE:

Subtotal Direct and Allocated Operations O&M from TYOME		87,576,000	Womallo-2
Subtotal Fringe Benefits from TYOME		58,052,000	Womallo-2
Subtotal Interdepartmental, Finance, A&HR, etc. from TYOME		57,364,000	Womallo-2
Plus Water Treatment Plant Sludge		14,732,000	Above
		217,724,000	Agrees with line 23
Total Power, Gas & Chemicals	23,484,000		

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2021	Budget Yr	2019	Ver. 1a
ATACC - Allocated Treatment & Conveyance Costs	P.N. 401641.0100	February 07, 2020 11:56 a.m.					Womallo-17

	Total Test Year Water Use Mcf	Average Daily Water Use Mcf/day	Maximum Day Extra Capacity: Capacity Factor %	Maximum Day Extra Capacity: Total Capacity Mcf/day	Maximum Day Extra Capacity: Extra Capacity (a) Mcf/day	Maximum Hour Extra Capacity: Capacity Factor %	Maximum Hour Extra Capacity: Total Capacity Mcf/day	Maximum Hour Extra Capacity: Extra Capacity (b) Mcf/day				Average Day mgd	Average Day w/ losses mgd	Max Day mgd	Max Hour Mcf/day
TREATMENT PLANT:											Approach	Aqua	Aqua	Aqua	Aqua
1) Allocation of Personal Services, Materials & Supplies and Equipment (excluding Power & Chemicals)															
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2			119.98		236.37	397.41
Bucks County	0	0		0	0		0	0	Womallo-13	Wpltallo-4		0.00		0.00	0.00
Aqua PA	64,000	175		421	246		1,203	782	Retcos-6			1.31		3.15	9.00
Total	5,922,200	16,215		32,021	15,806		54,333	22,312				121.29	173.27	239.52	406.41
	1.081%	1.079%		1.315%	1.556%		2.214%	3.505%							
		0.000%		0.000%			0.000%				Bucks	0.000%	0.000%	0.00%	0.00%
2) Allocation of Power and Chemicals:											Aqua	1.081%	0.76%	1.31%	2.21%
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2						
Bucks County	0	0							Womallo-13						
Aqua PA		0.863%	See Box 2 on Retcos-6												
WATER CONVEYANCE SYSTEM:															
(Load Control)															
1) Raw Water Pumping Power (based on annual use)															
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2						
Bucks County															
Aqua PA															
2) Treated Water Pumping Power															
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2						
Bucks County															
Aqua PA															
3) All Other Expense															
Raw Water															
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2						
Bucks County															
Aqua PA															
Treated Water															
Retail	5,858,200	16,040		31,600	15,560		53,130	21,530	Units-2						
Bucks County															
Aqua PA															

AQUA PA
ALLOCATION OF TEST YEAR WATER OPERATION AND MAINTENANCE EXPENSE
TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2021

Line No.	Description	(1) Test Year Operation & Maintenance Expense $	(2) Allocable	(3)	(4) Aqua PA Total $		(5) Adjustment	(6) Aqua PA Total $	(7) USE Aqua PA Total $
		Womallo-16		Womallo-17	(2) x (3)				
	Raw Water Pumping								
1	Purchased Power	2,364,000	2,364,000	0.86%	20,000			20,000	
2	Purchased Gas	0	0	0.86%	0			0	
3	Other	3,230,000	3,230,000	1.31%	42,000			42,000	
4	Total Raw Water Pumping	5,594,000	5,594,000	1.11%	62,000			62,000	
	Purification and Treatment								
	Power and Pumping (a)								
5	Purchased Power	3,917,000	3,917,000	0.86%	34,000			34,000	
6	Purchased Gas	425,000	425,000	0.86%	4,000			4,000	
7	Other	11,760,000	11,760,000	1.31%	155,000			155,000	
	Treatment								
8	Purchased Power	0	0	0.86%	0			0	
9	Purchased Gas	26,000	26,000	0.86%	0			0	
10	Chemicals	16,752,000	16,752,000	0.86%	145,000			145,000	
	Other								
	Other	44,914,000	44,914,000	1.31%	591,000			591,000	
	Water Treatment Plant Sludge	14,732,000	14,732,000	1.08%	159,000			159,000	
11	Other (b)	59,646,000	59,646,000	1.26%	750,000		0	750,000	0
12	Total Purification and Treatment	92,075,000	92,075,000	1.18%	1,084,000		0	1,084,000	0
	Transmission and Distribution								
13	Mains	65,062,000	17,439,000	2.21%	386,000			386,000	
14	Meters	1,794,000	-					0	
15	Hydrants	683,000	-					0	
16	Filtered Water Storage	1,289,000	1,289,000	2.21%	29,000			29,000	
17	High Pressure Fire System	0	-					0	
18	Total Transmission and Distribution	68,828,000	18,728,000	2.22%	415,000		0	415,000	0
19	Customer Accounting and Collection	23,990,000						0	
20	Warranty Program	0							
21	Subtotal	190,487,000	116,397,000	1.34%	1,561,000		0	1,561,000	0
22	Administrative and General	26,786,000	13,791,000	1.53%	211,000			211,000	
23	Subtotal Water Operating Expense	217,273,000	130,188,000	1.36%	1,772,000		0	1,772,000	0
24	Adjustment for Wholesale Contracts	0	0		0			0	
25	Residual Fund Deposit	5,461,000	3,272,000	1.36%	45,000			45,000	
26	Deposit (from) to RSF	2,739,000	1,641,000	1.36%	22,000			22,000	
27	Total Water Operating Expense	225,473,000	135,101,000	1.36%	1,839,000		0	1,839,000	0
	Other Operating Revenue								
	Miscellaneous	2,821,000	2,821,000	0.82%	23,000	Womallo-16		23,000	
	All Other	12,156,000	12,156,000	0.00%	0	Womallo-16		0	
28	Other Operating Revenue	14,977,000	14,977,000	0.15%	23,000		0	23,000	0
29	Non-Operating Income	929,000	929,000	0.86%	8,000	Womallo-16		8,000	
30	Total Operating Expense Less Other Operating Revenue	209,567,000	119,195,000	1.52%	1,808,000		0	1,808,000	0

(a) Includes booster pumping.
(b) Includes Wastewater System cost of treating water treatment plant sludge of $14,732,000.

Line 21	Less power, chemicals, and WTP sludge	152,722,000	78,632,000	1.53%	1,203,000			1,203,000

WCOS19_21.XLS

RETCOS

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2021	Budget Yr 2019	Ver. 1a
RetcInd - Index	P.N. 401641.0100	February 07, 2020 2:42 p.m.		Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It also develops wholesale cost of service water rates for Bucks County and Aqua PA.

Range	Description	Page Number	Table
RetcInd	Index	Retcos-1	
UCOS	Unit Cost of Service	Retcos-2	TABLE W-14
ACOS	Allocated Cost of Service to Customer Types	Retcos-3	TABLE W-15
ADJCOS	Adjusted Cost of Service to Customer Types	Retcos-4	TABLE W-16
BCPC	Bucks County Proposed Charges	Retcos-5	
PSWCRate	Aqua PA Proposed Rates	Retcos-6	TABLE W-13A

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU	Test Year 2021	Budget Yr 2019	Ver. 1a
UCOS - Unit Cost of Service	P.N. 401641.0100	February 07, 2020 2:42 p.m.			Retcos-2

TABLE W-14

TEST YEAR UNIT COSTS OF WATER SERVICE FOR RETAIL CUSTOMERS
TEST YEAR 2021

Reference	Line No.	Description	(1) Total Test Year Retail Costs $	(2) Base	(3) Extra Capacity: Maximum Day	(4) Extra Capacity: Max Hour In Excess of Max Day	(5) Customer Costs: Meters	(6) Customer Costs: Billing	(7) Warranty Program	(8) Direct Public Fire Protection
		Total Retail Customer Units of Service								
Units-2	1	Number		5,858,200	15,560	21,530	663,244	6,434,676	494,424	
	2	Units		Mcf	Mcf/day	Mcf/day	Equiv. Meters	Equiv. Bills	Eq. Services	Total
4										
		Operating Expense								
Womallo-16	3	Total Expense - $	208,206,000	119,725,000	30,048,000	28,436,000	2,034,000	27,188,000	0	775,000
Line 4 / Line 1	4	Unit Expense - $/Unit		20.4372	1,931.1054	1,320.7617	3.0667	4.2252	0.0000	
		Depreciation Expense								
Wpltallo-5	5	Total Expense - $	31,054,000	16,822,000	5,771,000	6,365,000	1,852,000			244,000
Line 5 / Line 1	6	Unit Expense - $/Unit		2.8715	370.8869	295.6340	2.7923			
		Plant Investment								
Wpltallo-2	7	Total Investment - $	1,440,354,000	805,652,000	273,627,000	324,249,000	27,171,000			9,655,000
Line 6 / Line 1	8	Unit Investment - $/Unit		137.5255	17,585.2828	15,060.3344	40.9668			
		Unit Return on Investment								
Line 10 x Line 1	9	Total Return - $	46,401,000	25,954,000	8,815,000	10,446,000	875,000			311,000
Line 8 x 3.2215%	10	Inside City - $/Unit (a)		4.4304	566.5099	485.1687	1.3197			
		Total Unit Costs of Service								
Lines 4 + 6 + 10	11	Inside City - $/Unit		27.7391	2,868.5022	2,101.5644	7.1787	4.2252	0.0000	
		Total Unit Costs of Service								
		Inside City - $/Unit/Bill		27.7391	2,868.5022	2,101.5644	0.5982	4.2252	0.0000	
	12	Total Retail Cost of Service	285,661,000	162,501,000	44,634,000	45,247,000	4,761,000	27,188,000	0	1,330,000

(a) Retail rate of return = Box 1 3.2215%

Mcf - thousand cubic feet

BOX 1 - INSIDE CITY RATE OF RETURN		$	
Total Test Year Capital Costs		78,983,319	
Less Total Test Year Depr. Expense	39.7%	31,330,000	Wpltallo-5
Less Wholesale Return	1.2%	949,000	Retcos-4
Less Wholesale Management Fee Revenue	0.4%	303,000	LagRate-9
Inside City Return	58.7%	46,401,319	
Investment Allocated to Retail Customers		1,440,354,000	Wpltallo-2
INSIDE CITY RATE OF RETURN: ($46,401,319 / $1,440,354,000) =		3.2215%	

CALCULATION OF UNIT COSTS FOR FIRE PROTECTION:

		Total Private Fire Customer Units of Service							
Units-2	13	Number		13,900	130	210	3,817	340,436		
	14	Units		Mcf	Mcf/day	Mcf/day	Eq. Meters	Eq. Bills		
Line 11	15	$/Unit		27.7391	2868.5022	2101.5644	7.1787	4.2252		
Line 12 x Line 14	16	Total Expense		385,573	372,905	441,329	27,401	1,438,410	2,665,619	
Retcos-4	17	Multiplied by Adjustment Factor							2.29%	
	18	Total Cost		394,399	381,441	451,430	28,028	1,471,334	2,726,633	860,899
		Total Cost per equiv 6" meter			99.93	118.27	7.34	4.32	714.3393	225.54
		Total Cost per equiv 6" meter per bill			8.33	9.86	0.61	30.25	59.53	18.80

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU | Test Year 2021 | Budget Yr 2019 | Ver. 1a
ACOS - Allocated Cost of Service to Customer Types | P.N. 401641.0100 | February 07, 2020 2:42 p.m. | Retcos-3

Select Public Fire Recovery Basis: 0 | 0

TABLE W-15

ALLOCATED COST OF SERVICE TO RETAIL CUSTOMER CLASSES
TEST YEAR 2021

Reference	Line No.	Description	(1) Total Allocated Cost of Service $	(2) Base $	(3) Extra Capacity: Max Day $	(4) Extra Capacity: Max Hour In Excess of Max Day $	(5) Customer Costs: Meters $	(6) Customer Costs: Billing $	(7) Customer Costs: Warranty Program $	(8) Direct Public Fire Protection $	Reallocate Public Fire Protection on Base $	Reallocate Public Fire Protection on Meters $	Total Allocated Cost of Service $
Retcos-2	1	Total Retail Unit Costs of Service		27.7391	2,868.5022	2,101.5644	7.1787	4.2252	0.0000		0.0000	0.0000	
		Residential											
Units-2	2	Units of Service		2,958,300	8,100	12,960	457,953	5,103,438	424,082		2,958,300	457,953	
Line 1 x Line 2	3	Allocated Cost of Service -	157,382,000	82,060,000	23,235,000	27,236,000	3,288,000	21,563,000	0		0	0	157,382,000
		CHECK	157,382,000	82,060,580									
		Senior Citizens											
Units-2	4	Units of Service		123,000	340	540	23,496	281,649	23,472		123,000	23,496	
Line 1 x Line 4	5	Allocated Cost of Service -	6,881,000	3,412,000	975,000	1,135,000	169,000	1,190,000	0		0	0	6,881,000
		Commercial											
Units-2	6	Units of Service		1,574,500	3,450	3,660	125,374	546,434	37,570		1,574,500	125,374	
Line 1 x Line 6	7	Allocated Cost of Service -	64,472,000	43,675,000	9,896,000	7,692,000	900,000	2,309,000	0		0	0	64,472,000
		Industrial											
Units-2	8	Units of Service		125,500	200	140	5,942	18,371	1,131		125,500	5,942	
Line 1 x Line 8	9	Allocated Cost of Service -	4,470,000	3,481,000	574,000	294,000	43,000	78,000	0		0	0	4,470,000
		Public Utilities											
Units-2	10	Units of Service		9,300	20	10	1,335	3,450	177		9,300	1,335	
Line 1 x Line 10	11	Allocated Cost of Service -	361,000	258,000	57,000	21,000	10,000	15,000	0		0	0	361,000
		Housing Authority											
Units-2	12	Units of Service		157,300	390	520	10,199	75,555	5,922		157,300	10,199	
Line 1 x Line 15	13	Allocated Cost of Service -	6,967,000	4,363,000	1,119,000	1,093,000	73,000	319,000	0		0	0	6,967,000
		Charities & Schools											
		Charities & Schools											
Units-2	14	Units of Service		157,200	340	390	19,084	47,449	1,881		157,200	19,084	
Line 1 x Line 16	15	Allocated Cost of Service -	6,493,000	4,361,000	975,000	820,000	137,000	200,000	0		0	0	6,493,000
		Hospital/University											
Units-2	16	Units of Service		289,800	630	420	9,970	17,848	186		289,800	9,970	
Line 1 x Line 18	17	Allocated Cost of Service -	10,876,000	8,039,000	1,807,000	883,000	72,000	75,000	0		0	0	10,876,000
		Hand Billed											
	18	Units of Service		449,400	980	1,110	6,071	10	0		449,400	6,071	
	19	Allocated Cost of Service -	17,654,000	12,466,000	2,811,000	2,333,000	44,000	0	0		0	0	17,654,000
		xxxxxxxxxx											
Units-2	20	Units of Service		0	0	0	0	0	0		0	0	
Line 1 x Line 20	21	Allocated Cost of Service -	0	0	0	0	0	0	0		0	0	0
		Scheduled (Flat Rate)											
Units-2	22	Units of Service		0	0	0	3	36	3		0	3	
Line 1 x Line 22	23	Allocated Cost of Service -	0	0	0	0	0	0	0		0	0	0
		xxxxxxxxxx											
Units-2	18	Units of Service		0	0	0	0	0	0		0	0	
Line 1 x Line 24	19	Allocated Cost of Service -	0	0	0	0	0	0	0		0	0	0

		Public Fire Protection											
		Standard Pressure											
Units-2	20	Units of Service		0	980	1,570	0	0	0				
Line 1 x Line 26	21	Allocated Cost of Service -	7,440,000	0	2,811,000	3,299,000	0	0	0	1,330,000	0	0	7,440,000
		High Pressure											
	22	Units of Service											
Line 1 x Line 28	23	Allocated Cost of Service -	0	0	0	0	0	0	0	0	0	0	0
		Private Fire Protection											
Units-2	24	Units of Service		13,900	130	210	3,817	340,436	0		13,900	3,817	
Line 1 x Line 30	25	Allocated Cost of Service -	2,665,000	386,000	373,000	441,000	27,000	1,438,000	0		0	0	2,665,000
	26	Total Retail Cost of Service -	285,661,000	162,501,000	44,633,000	45,247,000	4,763,000	27,187,000	0	1,330,000	0	0	285,661,000
			Agrees with Retcos-2										
		CHECK	285,661,000	285,661,000		0							

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU	Test Year 2021	Budget Yr 2019	Ver. 1a
ADJCOS - Adjusted Cost of Service to Customer Types	P.N. 401641.0100	February 07, 2020 2:42 p.m.			Retcos-4

Housing Authority discount: 0.05
Senior Citizens, "6 cent" charities, "N" charities discount: 0.25

TABLE W-16

WATER: TEST YEAR ADJUSTED COST OF SERVICE
TEST YEAR 2021

Line No.	Customer Class	(1) Allocated Cost of Service $ Retcos-3	(2) Reallocation of HP Fire System $	(3) Discount $ ((1)+(2)) x 25.00%	(4) Cost of Service w Discount $ (1) - (2)	(5) Recovery of Discount $	(6) Adjusted Cost of Service $ (2)+(3)+(4)	(7) Percent Change % [(5)-(1)]/(1)	Recovery of Discount: Residential $	Non-Res $	All $	Total $	Adjusted Cost of Service $	Percent Change %
1	Residential	157,382,000	0		157,382,000	3,613,000	160,995,000	2.30%			1,165,496	1,165,496	158,547,496	0.74%
2	Senior Citizens	6,881,000	0	1,720,000	5,161,000	118,000	5,279,000	-23.28%			38,220	38,220	5,199,220	-24.44%
3	Commercial	64,472,000	0		64,472,000	1,480,000	65,952,000	2.30%		2,398,614	477,449	2,876,063	67,348,063	4.46%
4	Industrial	4,470,000	0		4,470,000	103,000	4,573,000	2.30%		166,302	33,103	199,404	4,669,404	4.46%
5	Public Utilities	361,000			361,000	8,000	369,000	2.22%		13,431	2,673	16,104	377,104	4.46%
6	Housing Authority	6,967,000	0	348,000	6,619,000	152,000	6,771,000	-2.81%		246,253	49,017	295,270	6,914,270	-0.76%
	Charities and Schools													
7	Charities & Schools	6,493,000	0	1,623,000	4,870,000	112,000	4,982,000	-23.27%		181,183	36,065	217,248	5,087,248	-21.65%
8	Hospital/University	10,876,000	0	2,719,000	8,157,000	187,000	8,344,000	-23.28%		303,473	60,407	363,880	8,520,880	-21.65%
9	Subtotal Charities and Schools	17,369,000	0	4,342,000	13,027,000	299,000	13,326,000	-23.28%	0	484,656	96,472	581,128	13,608,128	-21.65%
10	Hand Billed	17,654,000			17,654,000	405,000	18,059,000	2.29%		656,799	130,737	787,536	18,441,536	4.46%
11	xxxxxxxxxx	0			0	0	0	0.00%		0	0	0	0	0.00%
12	Scheduled (Flat Rate)	0			0	0	0	0.00%		0	0	0	0	0.00%
13	xxxxxxxxxx	0	0		0	0	0	0.00%		0	0	0	0	0.00%
	Fire Protection													
14	Private	2,665,000			2,665,000	61,000	2,726,000	2.29%		99,149	19,736	118,884	2,783,884	4.46%
	Public													
15	Standard Pressure	7,440,000			7,440,000	171,000	7,611,000	2.30%		276,797	55,097	331,895	7,771,895	4.46%
16	High Pressure	0	0		0	0	0	0.00%		0	0	0	0	0.00%
17	Subtotal Public Fire Protection	7,440,000	0	0	7,440,000	171,000	7,611,000	2.30%	0	276,797	55,097	331,895	7,771,895	4.46%
18	Subtotal Retail Service	285,661,000	0	6,410,000	279,251,000	6,410,000	285,661,000	0.00%	0	4,342,000	2,068,000	6,410,000	285,661,000	0.00%
19	Wholesale (a)	3,336,000			3,336,000		3,336,000	0.00%						
20	Total System	288,997,000	0	6,410,000	282,587,000	6,410,000	288,997,000	0.00%	0	4,342,000	2,068,000	6,410,000	285,661,000	

Cost of Service Check 289,001,498
Difference 4,498 Disagrees with total system above

(a) Includes Management Fee revenue.

A lag factor is applied to all wholesale customer rates equal to 1.0000
Months in effective test year: 1.00 Months to collect COS: 1.00

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2021	Budget Yr 2019	Ver. 1a
BCPC - Bucks County Proposed Charges	P.N. 401641.0100	February 07, 2020 2:42 p.m.		Retcos-5

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
				TY Rates			
Fiscal Year	Annual Usage Mcf	Annual Usage Mgd	Max. Hr. Usage Mgd	Fixed Charge $	Commodity Charge $	Demand Charge $	Total Charge $
	Wpltallo-4	Col. (1)	Wpltallo-4	Retcos-4	Col. (2)* $0 /mgd	Col. (3)* $0 /mgd	
2017	0	0.0	0.0	0	0	0	0
2018	0	0.0	0.0	0	0	0	0
2019	0	0.0	0.0	0	0	0	0
2020	0	0.0	0.0	0	0	0	0
2021	0	0.0	0.0	0	0	0	0
2022	0	0.0	0.0	0	0	0	0
2023	0	0.0	0.0	0	0	0	0
2024	0	0.0	0.0	0	0	0	0
2025	0	0.0	0.0	0	0	0	0
2026	0	0.0	0.0	0	0	0	0

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU	Test Year 2021	Budget Yr 2019	Ver. 1a
PSWCRate - Aqua PA Proposed Rates	P.N. 401641.0100	February 07, 2020 2:42 p.m.			Retcos-6

Aqua PA Rate

Raw Water Pumping Purchased Power	20,000	
Purification & Treatment Power & Pump Purchased Powe	34,000	
Treatment Purchased Power	0	
Treatment Purchased Gas	0	
Chemicals	145,000	
Total Variable O&M	199,000	
Volume - mgd	2.0	
Volume (1,000 gal)	748,051	
Commodity Charge	0.266	
Total O&M	1,808,000	
Variable O&M	(199,000)	
Fixed O&M	1,609,000	
Capital		
Depr	277,000	
Return	949,000	
Demand - mgd	4.92	
Total Fixed - $/yr	2,835,000	
Total Fixed - $/mo	236,250	
Adjustment for Contract	0	Not Required for Current Analysis

Aqua PA Use and Demand Assumptions
(Reference: Based on JRM Calcs Dated 12/1/00 and Aqua PA Contract)
Contract Capacities

	FY 2020	FY 2021	FY 2022	FY 2023
	1	2	3	4
Average Day - mgd	6.50	6.50	6.50	6.50
Max Day - mgd	9.50	9.50	9.50	9.50
Max Hour - mgd	11.25	11.25	11.25	11.25

Aqua PA Use and Demand Assumptions
Projected Demand (Current Use)

	FY 2020	FY 2021	FY 2022	FY 2023
	1	2	3	4
Average Day - mgd	1.31	2.05	2.05	2.05
Max Day - mgd	3.15	4.92	4.92	4.92
Max Hour - mgd	9.00	9.00	9.00	9.00

BOX 2 - MODIFICATION OF AQUA PA RATE FOR WATER LOSS

Per JRM Letter of 11/01/2002, the methodology for calculating the commodity charge is modified to acknowledge that the amount of system water loss attributable to Aqua PA should be limited. Per the 11/01/2002 letter, Aqua PA's allowance for water loss is limited to 20%.

Commodity rate calculation is then:

Total projected cost of Power, Gas & Chemicals	23,484,000	
Total Metered Water Usage	121.30	mgd
Water Loss allowance	20%	
Commodity Charge =	0.424	

WCOS19_21.XLS

RATES

File: WCOS19_21_ver3_rates.xls	**Philadelphia Water Department**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU**	**Test Year**	**2021**	**Budget Yr**	**2019**	**Ver. 1a**
RatesInd - Index	**(PWD) P.N. 401641.0100**	**February 07, 2020 2:42 p.m.**					**Rates-1**

The "Rates" worksheet develops retail cost of service rates before recognizing billing lag and rate implementation refinements.

Range	Description	Page Number	Table
RatesInd	Index	Rates-1	
ADJC	Adjusted COS by Class	Rates-2	
COSR	COS Rates	Rates-3	
BILLCOS	Billings Under COS Rates	Rates-4	

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU	Test Year 2021	Budget Yr 2019	Ver. 1a
ADJC - Adjusted COS by Class	(PWD) P.N. 401641.0100	February 07, 2020 2:42 p.m.			Rates-2

TEST YEAR ADJUSTED COS BY CLASS

	TY Adjusted COS $ Retcos-4	TY Usage Mcf Units-2
Residential	160,995,000	2,958,300
Senior Citizens	5,279,000	123,000
Commercial	65,952,000	1,574,500
Industrial	4,573,000	125,500
Public Utilties	369,000	9,300
Housing Authority	6,771,000	157,300
Charities and Schools	4,982,000	157,200
Hospital/University	8,344,000	289,800
Hand Billed	18,059,000	449,400
xxxxxxxxxx	0	0
Scheduled (Flat Rate)	0	0
xxxxxxxxxx	0	0
Private Fire Protection	2,726,000	13,900
Public Fire Protection	7,611,000	0
Total	285,661,000	5,858,200

CHOOSE OPTION 1

TEST YEAR UNIT CUSTOMER COSTS-USED

	COS Unit Cost $ Retcos-2	Adjust. Factor (a) % Retcos-4	Adjusted Unit Cost $
Non-Subsidized Residential Customers			
Cost per Equiv Meter per Bill	0.5982	2.2957	0.6119
Cost per Equiv Bill	4.2252	2.2957	4.3222
Cost per Equiv Service	0.0000	2.2957	0.0000
Non-Subsidized Non-Residential Customers			
Cost per Equiv Meter per Bill	0.5982	2.2956	0.6119
Cost per Equiv Bill	4.2252	2.2956	4.3222
Cost per Equiv Service	0.0000	2.2956	0.0000
Subsidized Residential Customers - Senior Citizens			
Cost per Equiv Meter per Bill	0.5982	(23.2815)	0.4589
Cost per Equiv Bill	4.2252	(23.2815)	3.2415
Cost per Equiv Service	0.0000	(23.2815)	0.0000
Subsidized Non-Res Customers - Hospitals & Charities			
Cost per Equiv Meter per Bill	0.5982	(23.2771)	0.4590
Cost per Equiv Bill	4.2252	(23.2771)	3.2417
Cost per Equiv Service	0.0000	(23.2771)	0.0000
Subsidized Customers - PHA			
Cost per Equiv Meter per Bill	0.5982	(2.8133)	0.5814
Cost per Equiv Bill	4.2252	(2.8133)	4.1063
Cost per Equiv Service	0.0000	(2.8133)	0.0000
Fire Meters (Private)			
$/Equiv 6" Meter/Bill	59.5300	<-- Includes Adj. Factor	
Cost per Equiv Bill	17.2888	<-- Includes Adj. Factor	
All Other Costs/Equiv Meter/Bill	0.0000	<-- Includes Adj. Factor	

(a) To account for Senior Citizens and Charities and Schools paying 75 % of COS rates.

EXISTING DISCOUNT RECOVERY -SPREAD ACROSS ALL CLASSES

	Adjust. Factor (1) % Retcos-4
Non-Subsidized Residential Customers	
Cost per Equiv Meter per Bill	2.2957
Cost per Equiv Bill	2.2957
Cost per Equiv Service	2.2957
Non-Subsidized Non-Residential Customers	
Cost per Equiv Meter per Bill	2.2956
Cost per Equiv Bill	2.2956
Cost per Equiv Service	2.2956
Subsidized Residential Customers - Senior Citizens	
Cost per Equiv Meter per Bill	(23.2815)
Cost per Equiv Bill	(23.2815)
Cost per Equiv Service	(23.2815)
Subsidized Non-Res Customers - Hospitals & Charities	
Cost per Equiv Meter per Bill	(23.2771)
Cost per Equiv Bill	(23.2771)
Cost per Equiv Service	(23.2771)
Subsidized Customers - PHA	
Cost per Equiv Meter per Bill	(2.8133)
Cost per Equiv Bill	(2.8133)
Cost per Equiv Service	(2.8133)

ALTERNATIVE DISCOUNT RECOVERY-CLASS SPECIFIC

	Adjust. Factor (2) % Retcos-4
Non-Subsidized Residential Customers	
Cost per Equiv Meter per Bill	0.7406
Cost per Equiv Bill	0.7406
Cost per Equiv Service	0.7406
Non-Subsidized Non-Residential Customers	
Cost per Equiv Meter per Bill	4.4609
Cost per Equiv Bill	4.4609
Cost per Equiv Service	4.4609
Subsidized Residential Customers - Senior Citizens	
Cost per Equiv Meter per Bill	(24.4409)
Cost per Equiv Bill	(24.4409)
Cost per Equiv Service	(24.4409)
Subsidized Non-Res Customers - Hospitals & Charities	
Cost per Equiv Meter per Bill	(21.6528)
Cost per Equiv Bill	(21.6528)
Cost per Equiv Service	(21.6528)
Subsidized Customers - PHA	
Cost per Equiv Meter per Bill	(0.7569)
Cost per Equiv Bill	(0.7569)
Cost per Equiv Service	(0.7569)

EQUIV. PRIVATE FIRE METER AND BILL FACTORS (6" BASE):

		5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
Equiv. Meters	Units-4		0.0	0.1	0.1	0.1	0.2	0.3	0.5	1.0	1.6	2.3	4.3	4.5
Equiv. Bills	Units-3	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.6	1.0	1.4	2.1	2.9	3.3

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2021 Budget Yr 2019** **Ver. 1a**
COSR - COS Rates **(PWD) P.N. 401641.0100** **February 07, 2020 2:42 p.m.** **Rates-3**

Line No.	Customer Class	Meter Size	TY COS $ Rates-2	TY Bills Units-3	Service Charge: COS Monthly Service Charge $ Rates-2 Units-3 Units-4	Service Charge: USE $	Service Charge: Service Charge Revenue $ (3) x (5)	Balance of COS to be Recovered through Volume Charge $ (2) - (6)	Volume Charge: Usage: Rate Block 0 - 2 44.80	Rate Block 3 - 100 38.56	Rate Block 101 - 2,000 29.88	Rate Block >2,000 29.06	Total Rates-2	Total Billings $ (6) + (13)	Percent Billings of COS $ (14) / (2)
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	GENERAL SERVICE RATES									Rate Block Volume Charge $/Mcf	47.11	41.39	32.08	31.20			
1	Residential	R = 5/8		4,961,784	4.93	4.93	24,461,595			Percent of Total Usage in Each Block							
2		Z = 3/4		780	5.24	5.24	4,087			%	84.98%	14.11%	0.91%	0.00%			
3		Q = 1		75,636	6.28	6.28	474,994										
4		Y = 1-1/4		0	7.51	7.51	0			Total Usage in Each Block							
5		P = 1-1/2		10,392	8.25	8.25	85,734			Mcf	2,513,954	417,479	26,867	0	2,958,300		
6		X = 2		14,640	11.38	11.38	166,603										
7		O = 3		1,932	17.82	17.82	34,428			Total Usage Charge Billings in Each Block							
8		W = 4		1,404	32.59	32.59	45,756			$	118,432,373	17,279,456	861,893	0	136,573,722		
9		N = 6		1,332	60.85	60.85	81,052										
10		V = 8		444	92.17	92.17	40,923										
11		E = 10		48	135.20	135.20	6,490										
12		T = 12		12	218.00	218.00	2,616										
13		H = 14			237.09	237.09	0										
14	Total			160,995,000	5,068,404			25,404,278	135,590,722							161,978,000	100.61%
	Goal							25,157,792				Bill tab adjustment			100.00%	161,978,000	100.61%
												Adjusted to = COS projection			100.000	161,978,000	100.61%
15	Senior Citizens	R = 5/8		281,520	3.70	3.70	1,041,624			Percent of Total Usage in Each Block							
16		Z = 3/4		0	3.93	3.93	0			%	91.46%	8.45%	0.10%	0.00%			
17		Q = 1		72	4.71	4.71	339										
18		Y = 1-1/4		0	5.63	5.63	0			Total Usage in Each Block							
19		P = 1-1/2		12	6.18	6.19	74			Mcf	112,491	10,388	121	0	123,000		
20		X = 2		24	8.53	8.54	205										
21		O = 3		0	13.37	13.37	0			Total Usage Charge Billings in Each Block							
22		W = 4		0	24.44	24.44	0			$	3,974,588	322,469	2,911	0	4,299,968		
23		N = 6		0	45.64	45.64	0										
24		V = 8		0	69.13	69.13	0										
25		E = 10		0	101.40	101.40	0										
26		T = 12		0	163.49	163.50	0										
27		H = 14			177.81	177.82	0										
28	Total			5,279,000	281,628			1,042,242	4,236,758							5,342,210	101.20%
	Goal							1,031,833				Bill tab adjustment			100.00%	5,342,210	101.20%
												Adjusted to = COS projection			100.000	5,342,210	101.20%

Line No.	Customer Class	Meter Size	TY COS $	TY Bills	COS Monthly Service Charge $	USE $	Service Charge Revenue $	Balance of COS to be Recovered through Volume Charge $		Rate Block 0 - 2	Rate Block 3 - 100	Rate Block 101 - 2,000	Rate Block >2,000	Total Rates-2	Total Billings $	Percent Billings of COS $
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
					Service Charge				Volume Charge	Usage						
29	Commercial	R = 5/8		337,704	4.93	4.93	1,664,881		Percent of Total Usage in Each Block							
30		Z = 3/4		132	5.24	5.24	692		%	21.59%	56.91%	19.90%	1.60%			
31		Q = 1		37,560	6.28	6.28	235,877									
32		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
33		P = 1-1/2		16,272	8.25	8.25	134,244		Mcf	339,995	896,091	313,252	25,162	1,574,500		
34		X = 2		24,840	11.38	11.38	282,679									
35		O = 3		9,384	17.82	17.82	167,223		Total Usage Charge Billings in Each Block							
36		W = 4		7,692	32.59	32.59	250,682		$	16,017,164	37,089,206	10,049,124	785,054	63,940,548		
37		N = 6		5,160	60.85	60.85	313,986									
38		V = 8		1,776	92.17	92.17	163,694									
39		E = 10		360	135.20	135.20	48,672									
40		T = 12		84	218.00	218.00	18,312		Non-Residential Rate Block Volume Charge							
41		H = 14			237.09	237.09	0		$/Mcf	47.11	41.39	32.08	31.20			
42	Total		65,952,000	440,964			3,280,942	62,671,058							67,221,490	101.92%
	Goal						3,248,616				Bill tab adjustment			100.00%	67,221,490	101.92%
											Adjusted to = COS projection			100.000	67,221,490	101.92%
43	Industrial	R = 5/8		6,168	4.93	4.93	30,408		Percent of Total Usage in Each Block							
44		Z = 3/4		0	5.24	5.24	0		%	7.47%	32.44%	40.38%	19.72%			
45		Q = 1		2,880	6.28	6.28	18,086									
46		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
47		P = 1-1/2		984	8.25	8.25	8,118		Mcf	9,370	40,709	50,678	24,743	125,500		
48		X = 2		1,452	11.38	11.38	16,524									
49		O = 3		648	17.82	17.82	11,547		Total Usage Charge Billings in Each Block							
50		W = 4		228	32.59	32.59	7,431		$	441,421	1,684,946	1,625,750	771,982	4,524,099		
51		N = 6		264	60.85	60.85	16,064									
52		V = 8		108	92.17	92.17	9,954									
53		E = 10		36	135.20	135.20	4,867									
54		T = 12		0	218.00	218.00	0									
55		H = 14			237.09	237.09	0									
56	Total		4,573,000	12,768			122,999	4,450,001							4,647,098	101.62%
	Goal						122,494				Bill tab adjustment			100.00%	4,647,098	101.62%
														100.000	4,647,098	101.62%
57	Public Utilities	R = 5/8		888	4.93	4.93	4,378		Percent of Total Usage in Each Block							
58		Z = 3/4		0	5.24	5.24	0		%	15.62%	78.17%	6.21%	0.00%			
59		Q = 1		372	6.28	6.28	2,336									
60		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
61		P = 1-1/2		144	8.25	8.25	1,188		Mcf	1,452	7,270	578	0	9,300		
62		X = 2		312	11.38	11.38	3,551									
63		O = 3		192	17.82	17.82	3,421		Total Usage Charge Billings in Each Block							
64		W = 4		72	32.59	32.59	2,346		$	68,404	300,905	18,542	0	387,851		
65		N = 6		60	60.85	60.85	3,651									
66		V = 8		24	92.17	92.17	2,212									
67		E = 10		12	135.20	135.20	1,622									
68		T = 12		0	218.00	218.00	0									
69		H = 14			237.09	237.09	0									
70	Total		369,000	2,076			24,705	344,295							412,556	111.80%
	Goal						25,309				Bill tab adjustment			100.00%	412,556	9.02%
											Adjusted to = COS projection			100.0000	412,556	9.02%
71	TOTAL GENERAL SERVICE		237,168,000	5,805,840			29,875,166	207,292,834							239,601,354	101.03%
	Goal						29,586,044				Adjusted				239,601,354	101.03%
											Adjusted to = COS projection				239,601,354	101.03%

Line No.	Customer Class	Meter Size	TY COS $	TY Bills	COS Monthly Service Charge $	USE $	Service Charge Revenue $	Balance of COS to be Recovered through Volume Charge $		Rate Block 0 - 2	Rate Block 3 - 100	Rate Block 101 - 2,000	Rate Block >2,000	Total Rates-2	Total Billings $	Percent Billings of COS $
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
					Service Charge				Volume Charge	Usage						
	ALL OTHER CLASSES															
					5% discount											
72	Housing Authority	R = 5/8		65,532	4.69	4.68	306,690		Percent of Total Usage in Each Block							
73		Z = 3/4		0	4.98	4.98	0		%	35.16%	41.12%	21.35%	2.37%			
74		Q = 1		1,092	5.97	5.97	6,519									
75		Y = 1-1/4		0	7.14	7.13	0		Total Usage in Each Block							
76		P = 1-1/2		1,512	7.83	7.84	11,854		Mcf	55,303	64,689	33,578	3,730	157,300		
77		X = 2		1,200	10.81	10.81	12,972									
78		O = 3		456	16.93	16.93	7,720		Total Usage Charge Billings in Each Block							
79		W = 4		360	30.96	30.96	11,146		$	2,475,058	2,543,604	1,023,323	110,557	6,152,542		
80		N = 6		288	57.81	57.81	16,649									
81		V = 8		84	87.58	87.56	7,355									
82		E = 10		0	128.46	128.44	0									
83		T = 12		0	207.13	207.10	0									
84		H = 14			225.26	225.24	0									
85	Total		6,771,000	70,524			380,905	6,390,095							6,533,447	96.49%
	Goal						376,997				Bill tab adjustment			100.00%	6,533,447	96.49%
											Adjusted to = COS projection			100.000	6,533,447	96.49%
86	Charities & Schools	R = 5/8		11,844	3.70	3.70	43,823		Percent of Total Usage in Each Block							
87		Z = 3/4		0	3.93	3.93	0		%	18.07%	72.74%	9.20%	0.00%			
88		Q = 1		3,108	4.71	4.71	14,639									
89		Y = 1-1/4		0	5.63	5.63	0		Total Usage in Each Block							
90		P = 1-1/2		1,512	6.19	6.19	9,359		Mcf	28,399	114,345	14,456	0	157,200		
91		X = 2		2,616	8.53	8.53	22,314									
92		O = 3		2,532	13.37	13.37	33,853		Total Usage Charge Billings in Each Block							
93		W = 4		3,264	24.44	24.44	79,772		$	1,003,408	3,549,555	347,811	0	4,900,774		
94		N = 6		864	45.64	45.64	39,433									
95		V = 8		192	69.14	69.14	13,275									
96		E = 10		24	101.41	101.41	2,434									
97		T = 12		0	163.52	163.52	0									
98		H = 14			177.83	177.83	0									
99	Total		4,982,000	25,956			258,902	4,723,098							5,159,676	103.57%
	Goal						255,870				Bill tab adjustment			100.00%	5,159,676	103.57%
											Adjusted to = COS projection			100.000	5,159,676	103.57%
100	Hospital/University	R = 5/8		372	3.70	3.70	1,376		Percent of Total Usage in Each Block							
101		Z = 3/4		0	3.93	3.93	0		%	2.27%	45.41%	51.37%	0.95%			
102		Q = 1		337	4.71	4.71	1,587									
103		Y = 1-1/4		0	5.63	5.63	0		Total Usage in Each Block							
104		P = 1-1/2		132	6.19	6.19	817		Mcf	6,587	131,585	148,879	2,749	289,800		
105		X = 2		638	8.53	8.53	5,442									
106		O = 3		1,059	13.37	13.37	14,159		Total Usage Charge Billings in Each Block							
107		W = 4		1,155	24.44	24.44	28,228		$	232,735	4,084,727	3,582,029	64,327	7,963,818		
108		N = 6		926	45.64	45.64	42,263									
109		V = 8		205	69.14	69.14	14,174									
110		E = 10		48	101.41	101.41	4,868									
111		T = 12		0	163.52	163.52	0									
112		H = 14			177.83	177.83	0									
113	Total		8,344,000	4,872			112,914	8,231,086							8,076,732	96.80%
	Goal						111,611				Bill tab adjustment			100.00%	8,076,732	96.80%
											Adjusted to = COS projection			100.000	8,076,732	96.80%

Line No.	Customer Class	Meter Size	TY COS $	TY Bills	Service Charge: COS Monthly Service Charge $	Service Charge: USE $	Service Charge: Service Charge Revenue $	Balance of COS to be Recovered through Volume Charge $	Volume Charge	Usage: Rate Block 0 - 2	Usage: Rate Block 3 - 100	Usage: Rate Block 101 - 2,000	Usage: Rate Block >2,000	Usage: Total Rates-2	Total Billings $	Percent Billings of COS $
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
114	Hand Billed	R = 5/8		120	4.93	4.93	592		Percent of Total Usage in Each Block							
115		Z = 3/4		0	5.24	5.24	0		%	1.05%	30.12%	55.83%	13.00%			
116		Q = 1		96	6.28	6.28	603									
117		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
118		P = 1-1/2		120	8.25	8.25	990		Mcf	4,710	135,366	250,913	58,411	449,400		
119		X = 2		384	11.38	11.38	4,370									
120		O = 3		780	17.82	17.82	13,900		Total Usage Charge Billings in Each Block							
121		W = 4		780	32.59	32.59	25,420		$	221,888	5,602,799	8,049,289	1,822,423	15,696,399		
122		N = 6		420	60.85	60.85	25,557									
123		V = 8		156	92.17	92.17	14,379									
124		E = 10		36	135.20	135.20	4,867									
125		T = 12		0	218.00	218.00	0									
126		H = 14			237.09	237.09	0									
127	Total		18,059,000	2,892			90,678	17,968,322							15,787,077	87.42%
	Goal						44,543				Bill tab adjustment			100.00%	15,787,077	87.42%
											Adjusted to = COS projection			100.000	15,787,077	87.42%
128	xxxxxxxxxx	R = 5/8		0	4.93	4.93	0		Percent of Total Usage in Each Block							
129		Z = 3/4		0	5.24	5.24	0		%	100.00%	0.00%	0.00%	0.00%			
130		Q = 1		0	6.28	6.28	0									
131		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
132		P = 1-1/2		0	8.25	8.25	0		Mcf	0	0	0	0	0		
133		X = 2		0	11.38	11.38	0									
134		O = 3		0	17.82	17.82	0		Total Usage Charge Billings in Each Block							
135		W = 4		0	32.59	32.59	0		$	0	0	0	0	0		
136		N = 6		0	60.85	60.85	0									
137		V = 8		0	92.17	92.17	0									
138		E = 10		0	135.20	135.20	0									
139		T = 12		0	218.00	218.00	0									
140		H = 14			237.09	237.09	0									
141	Total		0	0			0	0							0	0.00%
	Goal						0				Bill tab adjustment			100.00%	0	0.00%
											Adjusted to = COS projection			100.000	0	0.00%
142	Scheduled (Flat Rate)	R = 5/8		36	4.93	4.93	177		Percent of Total Usage in Each Block							
143		Z = 3/4		0	5.24	5.24	0		%	100.00%	0.00%	0.00%	0.00%			
144		Q = 1		0	6.28	6.28	0									
145		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
146		P = 1-1/2		0	8.25	8.25	0		Mcf	0	0	0	0	0		
147		X = 2		0	11.38	11.38	0									
148		O = 3		0	17.82	17.82	0		Total Usage Charge Billings in Each Block							
149		W = 4		0	32.59	32.59	0		$	0	0	0	0	0		
150		N = 6		0	60.85	60.85	0									
151		V = 8		0	92.17	92.17	0									
152		E = 10		0	135.20	135.20	0									
153		T = 12		0	218.00	218.00	0									
154		H = 14			237.09	237.09	0									
155	Total		0	36			177	(177)							177	0.00%
	Goal						0				Bill tab adjustment			100.00%	177	0.00%
											Adjusted to = COS projection			100.000	177	0.00%

Line No.	Customer Class	Meter Size	TY COS $	TY Bills	COS Monthly Service Charge $	USE $	Service Charge Revenue $	Balance of COS to be Recovered through Volume Charge $		Rate Block 0 - 2	Rate Block 3 - 100	Rate Block 101 - 2,000	Rate Block >2,000	Total Rates-2	Total Billings $	Percent Billings of COS $
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
					Service Charge				Volume Charge	Usage						
156	xxxxxxxxxx	R = 5/8		0	4.93	4.93	0		Percent of Total Usage in Each Block							
157		Z = 3/4		0	5.24	5.24	0		%	100.00%	0.00%	0.00%	0.00%			
158		Q = 1		0	6.28	6.28	0									
159		Y = 1-1/4		0	7.51	7.51	0		Total Usage in Each Block							
160		P = 1-1/2		0	8.25	8.25	0		Mcf	0	0	0	0	0		
161		X = 2		0	11.38	11.38	0									
162		O = 3		0	17.82	17.82	0		Total Usage Charge Billings in Each Block							
163		W = 4		0	32.59	32.59	0		$	0	0	0	0	0		
164		N = 6		0	60.85	60.85	0									
165		V = 8		0	92.17	92.17	0									
166		E = 10		0	135.20	135.20	0									
167		T = 12		0	218.00	218.00	0									
168		H = 14			237.09	237.09	0									
169	Total		0	0			0	0		7					0	0.00%
	Goal						0				Bill tab adjustment			100.00%	0	0.00%
											Adjusted to = COS projection			100.0000	0	0.00%
170	Fire Protect. (Private)	R = 5/8		541	4.32	26.69	14,439		Percent of Total Usage in Each Block							
171		Z = 3/4		260	4.89	26.69	6,939		%	13.69%	66.19%	20.12%	0.00%			
172		Q = 1		18,921	5.69	26.69	505,001									
173		Y = 1-1/4		0	6.61	26.69	0		Total Usage in Each Block							
174		P = 1-1/2		2,797	7.07	26.69	74,652		Mcf	1,903	9,201	2,796	0	13,900		
175		X = 2		20,708	9.49	26.69	552,697									
176		O = 3		1,173	14.28	26.69	31,307		Total Usage Charge Billings in Each Block							
177		W = 4		7,990	26.69	26.69	213,253		$	89,650	380,829	89,696	0	560,175		
178		N = 6		11,698	49.05	49.05	573,787									
179		V = 8		3,949	73.29	73.29	289,422									
180		E = 10		508	108.06	108.06	54,894									
181		T = 12		94	167.26	167.26	15,722									
182		H = 14			183.98	183.98	0									
183	Total		2,726,000	68,639			2,332,113	393,887							2,892,288	106.10%
	Goal				Factor	1.0000	1,483,086							100.00%	2,892,288	106.10%
														100.0000	2,892,288	106.10%
184	Fire Protect. (Public)	R = 5/8					Annual		Percent of Total Usage in Each Block							
185		Z = 3/4					Svc. Charge		%	13.69%	66.19%	20.12%	0.00%			
186		Q = 1					Equals COS									
187		Y = 1-1/4					Less Vol.		Total Usage in Each Block							
188		P = 1-1/2					Charges		Mcf	0	0	0	0	0		
189		X = 2														
190		O = 3							Total Usage Charge Billings in Each Block							
191		W = 4							$	0	0	0	0	0		
192		N = 6														
193		V = 8														
194		E = 10														
195		T = 12														
196		H = 14														
197	Total		7,611,000	0			7,611,000	0							7,611,000	100.00%
	Goal						7,531,849				Bill tab adjustment			100.00%	7,611,000	100.00%
198	TOTAL EXCLUDING GENERAL SERVICE		48,493,000	172,919			10,786,689	37,706,311							46,060,397	94.98%
	Goal						9,803,956				Adjusted				46,060,397	94.98%
199	TOTAL ALL CLASSES		285,661,000	5,978,759			40,661,855	244,999,145							285,661,751	100.00%
	Goal						39,390,000				Adjusted				285,661,751	100.00%
							103.23%				Adjusted to = COS projection				285,661,751	100.00%

File: WCOS19_21_ver3_rates.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUT Test Year 2021 Budget Yr 2019 Ver. 1a**
BILLCOS - Billings Under COS Rates **P.N. 401641.0100** **February 07, 2020 2:49 p.m.** **Rates-4**

Line No.	Customer Class	(1) Billed Volume Mcf Rates-3	(2) Billings $ Rates-3	(3) Unit Billings (1) $/Mcf (2) / (1)	(4) Service Charge $ Rates-3	(5) Volume Charge $ (2) - (4)	(6) Percent Distribution Service Charge % (4) / (2)	(7) Volume Charge % 1 - (6)
1	Residential	2,958,300	161,978,000	54.7537	25,404,278	136,573,722	15.68%	84.32%
2	Senior Citizens	123,000	5,342,210	43.4326	1,042,242	4,299,968	19.51%	80.49%
3	Commercial	1,574,500	67,221,490	42.6939	3,280,942	63,940,548	4.88%	95.12%
4	Industrial	125,500	4,647,098	37.0287	122,999	4,524,099	2.65%	97.35%
5	Public Utilities	9,300	412,556	44.3609	24,705	387,851	5.99%	94.01%
6	Subtotal General Service	4,790,600	239,601,354	50.0149	29,875,166	209,726,188	12.47%	87.53%
7	Housing Authority	157,300	6,533,447	41.5349	380,905	6,152,542	5.83%	94.17%
8	Charities & Schools	157,200	5,159,676	32.8224	258,902	4,900,774	5.02%	94.98%
9	Hospital/University	289,800	8,076,732	27.8700	112,914	7,963,818	1.40%	98.60%
10	Hand Bills	449,400	15,787,077	35.1292	90,678	15,696,399	0.57%	99.43%
11	xxxxxxxxxx	0	0	0.0000	0	0	100.00%	0.00%
12	Scheduled (Flat Rate)	0	177	0.0000	177	0	100.00%	0.00%
13	xxxxxxxxxx	0	0	0.0000	0	0	100.00%	0.00%
14	Fire Protect. (Private)	13,900	2,892,288	42.1377	2,332,113	560,175	80.63%	19.37%
15	Fire Protect. (Public)	0	7,611,000	7,611,000	7,611,000	0	100.00%	0.00%
16	Total	5,858,200	285,661,751	48.7627	40,661,855	244,999,896	14.23%	85.77%

(1) Public and Private Fire Protection Unit Billings = $/Bill.

WCOS19_21.XLS

LAGRATE

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year	2021	Budget Yr	2019	Ver. 1a
LagInd - Index	P.N. 401641.0100	February 10, 2020 9:50 p.m.				LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Water System rates for the test year and two following years.

Range	Description	Page Number	Table
LagInd	Index	LagRate-1	
RATES	Existing and COS Rates	LagRate-2	
PBAC	Projected Bills, Accounts, and Consumption	LagRate-3	
PWR	Projected Water Receipts	LagRate-4	
BER	Test Year Billings Under Existing Rates	LagRate-5	
BPR	Projected Billings Under Proposed Rates	LagRate-6	
SBPR	Summary of Projected Billings Under Proposed Rates	LagRate-7	
RWL	Calculation of Receipts with Lag	LagRate-8	
TYRWL	Test Year Retail Receipts with Lag	LagRate-9	
COSWL	Inflated COS Rates to Account for Lag	LagRate-10	
REVCOMP	Comparison of Revenue Under Exist. Rates to COS	LagRate-11	TABLE W-17
CPRATES	Water & Wastewater Proposed Rates	LagRate-12	
WPRATES	Water Proposed Rates	LagRate-13	TABLE W-18 and TABLE W-19
BTAB	BillTab Billing Percentages	LagRate-14	
WSERVCHG	Components of Water Service Charges	LagRate-15	
WSERVCHG	Summary of Components Water Service Charges	LagRate-16	

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 Budget Yr 2019	Ver. 1a
RATES - Existing and COS Rates	P.N. 401641.0100	February 10, 2020 9:50 p.m.	LagRate-2

References: 0
0

TEST YEAR COS RATES
TEST YEAR 2021
Effective July 1, 2021
(Prior to Application of Lag Factor Adjustment)

Meter Size inches	Meter Code	Gen Svc Residential Service Charge $/Bill Rates-3	Discount Senior Citizen Service Charge (a) $/Bill Rates-3
5/8	R	4.93	3.70
3/4	Z	5.24	3.93
1	Q	6.28	4.71
1 1/4	Y	7.51	5.63
1 1/2	P	8.25	6.19
2	X	11.38	8.54
3	O	17.82	13.37
4	W	32.59	24.44
6	N	60.85	45.64
8	V	92.17	69.13
10	E	135.20	101.40
12	T	218.00	163.50
14	H	237.09	177.82

	First Block 0 - 2 Mcf $/Mcf Rates-3	Second Block 3 - 100 Mcf $/Mcf Rates-3	Third Block 101 - 2,000 Mcf $/Mcf Rates-3	Fourth Block >2,000 Mcf $/Mcf Rates-3
General Service Volume Cha	47.11	41.39	32.08	31.20
Discount Volume Charge (a)	35.33	31.04	24.06	23.40

EXISTING RATES
(Effective Sep 1, 2019)

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref. A	Other (a) Service Charge $/Bill
5/8	R	5.21	3.91
3/4	Z	5.55	4.16
1	Q	6.70	5.03
1 1/4	Y	8.05	6.04
1 1/2	P	8.88	6.66
2	X	12.32	9.24
3	O	19.44	14.58
4	W	35.39	26.54
6	N	66.29	49.72
8	V	100.66	75.50
10	E	147.50	110.63
12	T	239.52	179.64
14	H		0.00

	First 2 Mcf $/Mcf Ref. B	Next 98 Mcf $/Mcf Ref. B	Next 1,900 Mcf $/Mcf Ref. B	Over 2,000 Mcf $/Mcf Ref. B
General Service Volume Charge	44.80	38.56	29.88	29.06
Discount Volume Charge (a)	33.60	28.92	22.41	21.80

Meter Size inches	Meter Code	Gen Svc Non Res Service Charge $/Bill Rates-3	Discount Service Charge (a) $/Bill Rates-3
5/8	R	4.93	3.70
3/4	Z	5.24	3.93
1	Q	6.28	4.71
1 1/4	Y	7.51	5.63
1 1/2	P	8.25	6.19
2	X	11.38	8.53
3	O	17.82	13.37
4	W	32.59	24.44
6	N	60.85	45.64
8	V	92.17	69.14
10	E	135.20	101.41
12	T	218.00	163.52
14	H	237.09	177.83

	First Block 0 - 2 Mcf $/Mcf Rates-3	Second Block 3 - 100 Mcf $/Mcf Rates-3	Third Block 101 - 2,000 Mcf $/Mcf Rates-3	Fourth Block >2,000 Mcf $/Mcf Rates-3
General Service Volume Cha	47.11	41.39	32.08	31.20
Discount Volume Charge (a)	35.33	31.04	24.06	23.40

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref. A	Other (a) Service Charge $/Bill
5/8	R	5.21	3.91
3/4	Z	5.55	4.16
1	Q	6.70	5.03
1 1/4	Y	8.05	6.04
1 1/2	P	8.88	6.66
2	X	12.32	9.24
3	O	19.44	14.58
4	W	35.39	26.54
6	N	66.29	49.72
8	V	100.66	75.50
10	E	147.50	110.63
12	T	239.52	179.64
14	H		0.00

	First 2 Mcf $/Mcf Ref. B	Next 98 Mcf $/Mcf Ref. B	Next 1,900 Mcf $/Mcf Ref. B	Over 2,000 Mcf $/Mcf Ref. B
General Service Volume Charge	44.80	38.56	29.88	29.06
Discount Volume Charge (a)	33.60	28.92	22.41	21.80

(a) Discount rate applies to Senior Citizens and Charities.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021	Budget Yr 2019	Ver. 1a
PBAC - Projected Bills, Accounts, and Consumption	P.N. 401641.0100	February 10, 2020 9:50 p.m.		LagRate-3

Projected Number of Accounts
"Water and Sewer" plus "Water Only"

	Fiscal Year Ending June 30										Test Year
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2021
General Service											
5/8" (excl Senior Citizens)	440,614	447,651	442,212	442,212	442,212	442,212	442,212	442,212	442,212	442,212	442,212
>5/8" (excl Senior Citizens)	15,150	16,630	18,139	18,139	18,139	18,139	18,139	18,139	18,139	18,139	18,139
Senior Citizens (5/8")	22,365	22,994	23,460	23,460	23,460	23,460	23,460	23,460	23,460	23,460	23,460
Senior Citizens (>5/8")	7	7	9	9	9	9	9	9	9	9	9
Housing Authority	5,934	5,911	5,877	5,877	5,877	5,877	5,877	5,877	5,877	5,877	5,877
Charities & Schools	2,436	2,233	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163
Hospital/University	511	350	406	406	406	406	406	406	406	406	406
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	7,452	7,810	9,173	9,173	9,173	9,173	9,173	9,173	9,173	9,173	9,173
Scheduled (Flat Rate)	4	4	3	3	3	3	3	3	3	3	3
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	494,473	503,590	501,442	501,442	501,442	501,442	501,442	501,442	501,442	501,442	501,442

Projected Number of Bills
"Water and Sewer" plus "Water Only"
(Number of Accounts x 12)

	Fiscal Year Ending June 30										Test Year
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2021
General Service											
5/8" (excl Senior Citizens)	5,287,368	5,371,812	5,306,544	5,306,544	5,306,544	5,306,544	5,306,544	5,306,544	5,306,544	5,306,544	5,306,544
>5/8" (excl Senior Citizens)	181,800	199,560	217,668	217,668	217,668	217,668	217,668	217,668	217,668	217,668	217,668
Senior Citizens (5/8")	268,380	275,928	281,520	281,520	281,520	281,520	281,520	281,520	281,520	281,520	281,520
Senior Citizens (>5/8")	84	84	108	108	108	108	108	108	108	108	108
Housing Authority	71,208	70,932	70,524	70,524	70,524	70,524	70,524	70,524	70,524	70,524	70,524
"N" Charities	29,232	26,796	25,956	25,956	25,956	25,956	25,956	25,956	25,956	25,956	25,956
"6 Cent" Charities	6,132	4,200	4,872	4,872	4,872	4,872	4,872	4,872	4,872	4,872	4,872
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	89,422	93,720	110,076	110,076	110,076	110,076	110,076	110,076	110,076	110,076	110,076
Scheduled (Flat Rate)	48	48	36	36	36	36	36	36	36	36	36
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	5,933,674	6,043,080	6,017,304	6,017,304	6,017,304	6,017,304	6,017,304	6,017,304	6,017,304	6,017,304	6,017,304

Projected Consumption
"Water and Sewer" plus "Water Only"

	Fiscal Year Ending June 30										Test Year
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2021
Senior Citizens	119,585	123,537	129,989	125,570	122,989	120,643	118,297	115,951	113,605	111,259	122,989
Residential (excl SC)	3,135,162	3,099,478	3,014,087	3,012,019	2,958,267	2,908,649	2,859,031	2,809,413	2,759,795	2,714,312	2,958,267
Commercial	1,537,529	1,568,082	1,558,562	1,580,366	1,574,457	1,568,547	1,562,918	1,557,290	1,551,943	1,546,596	1,574,457
Industrial	92,107	96,751	154,824	125,601	125,472	125,349	125,226	125,107	124,989	124,871	125,472
Public Utilities	13,542	9,622	8,929	9,305	9,291	9,277	9,264	9,251	9,237	9,225	9,291
Housing Authority	158,256	158,068	157,347	157,269	157,269	157,269	157,269	157,269	157,269	157,269	157,269
Charities & Schools ("N" Charities)	177,712	161,720	157,659	157,164	157,164	157,164	157,164	157,164	157,164	157,164	157,164
Hospital & University("6 Cent" Charities)	301,488	252,658	286,455	289,770	289,770	289,770	289,770	289,770	289,770	289,770	289,770
Hand Bill	544,850	470,231	428,623	449,426	449,426	449,426	449,426	449,426	449,426	449,426	449,426
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	14,430	15,880	8,487	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900
Scheduled (Flat Rate)	14	13	13	11	11	11	11	11	11	11	11
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	6,094,673	5,956,039	5,904,975	5,920,402	5,858,016	5,800,005	5,742,276	5,684,553	5,627,110	5,573,804	5,858,016
Bucks County	0	0	0	0	0	0	0	0	0	0	0
Total	6,094,673	5,956,039	5,904,975	5,920,402	5,858,016	5,800,005	5,742,276	5,684,553	5,627,110	5,573,804	5,858,016

(a) Included with General Service for this update.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI	Test Year 2021	Budget Yr 2019	Ver. 1a
PWR - Projected Water Receipts	P.N. 401641.0100	February 10, 2020 9:50 p.m.			LagRate-4

Reference: RReq13.xls - Wrev-6

PROJECTED WATER RECEIPTS UNDER EXISTING RATES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Billings													Receipts				
Fiscal Year Ending June 30	Senior Citizens $1,000	Residential Excluding SC $1,000	Commercial $1,000	Industrial $1,000	Public Utilities $1,000	Housing Authority $1,000	Charities & Schools $1,000	Hospitals & Universities $1,000	Hand Bill $1,000	Scheduled (Flat Rate) $1,000	Subtotal (b) $1,000	Aqua PA $1,000	Total Billings $1,000	B&V Calculate General Service Total Receipts (d) $1,000	Actual General Service Total Receipts $1,000	Public Fire Protection $1,000	Private Fire Protection $1,000	Total Receipts $1,000 (10)+(15)+(16)
													x					
2017	4,963	159,689	59,237	3,100	533	5,934	5,350	7,480	16,713	1	263,000	3,232	266,232	252,576	255,853	7,617	3,383	263,576
2018	5,309	165,221	63,332	3,402	412	6,196	5,104	6,525	15,149	1	270,649	3,236	273,886	259,848	263,114	7,866	3,629	271,343
2019	5,471	160,421	63,578	5,413	381	6,253	4,951	7,558	14,226	1	268,252	3,672	271,924	262,410	0	9,300	4,610	276,320
2020	5,280	159,112	63,824	4,376	391	6,203	4,880	7,575	14,786	1	266,427	3,821	270,248	259,527	0	9,235	4,388	273,150
2021	5,183	156,389	63,386	4,354	389	6,183	4,864	7,545	14,725	1	263,019	3,940	266,959	256,367	0	9,235	4,394	269,996
2022	5,105	154,217	63,161	4,350	388	6,183	4,864	7,545	14,725	1	260,539	3,940	264,480	253,885	0	9,235	4,394	267,514
2023	5,027	152,044	62,947	4,346	388	6,183	4,864	7,545	14,725	1	258,070	3,940	262,010	251,464	0	9,235	4,394	265,092
2024	4,950	149,872	62,733	4,342	387	6,183	4,864	7,545	14,725	1	255,601	3,940	259,542	249,061	0	9,235	4,394	262,689
2025	4,872	147,699	62,529	4,338	387	6,183	4,864	7,545	14,725	1	253,143	3,940	257,083	246,667	0	9,235	4,394	260,296
2026	4,794	145,708	62,326	4,334	386	6,183	4,864	7,545	14,725	1	250,866	3,940	254,806	244,432	0	9,235	4,394	258,060
2027	4,724	143,717	62,123	4,330	386	6,183	4,864	7,545	14,725	1	248,597	3,940	252,537	242,219	0	9,235	4,394	255,848
2028	4,654	141,725	61,930	4,326	385	6,183	4,864	7,545	14,725	1	246,338	3,940	250,279	240,020	0	9,235	4,394	253,649
2029	4,584	139,734	61,737	4,323	385	6,183	4,864	7,545	14,725	1	244,080	3,940	248,021	237,822	0	9,235	4,394	251,451
2030	4,513	137,742	61,556	4,319	385	6,183	4,864	7,545	14,725	1	241,833	3,940	245,773	235,634	0	9,235	4,394	249,262
TY 2021	5,183	156,389	63,386	4,354	389	6,183	4,864	7,545	14,725	1	263,019	3,940	266,959	256,367		9,235	4,394	269,996

(a) Includes Residential, Commercial, and Industrial.

(b) 2019 and beyond subtotals reflect an adjustment to gross water billings of 0.0%.

(d) Receipts are computed using following formula:

(Current Year Collection Factor * Current Year Subtotal Billings)+(First Year Pior Collection Factor * First Year Prior Subtotal Billings)+(Second Year Collection Factor * Second Year Prior Subtotal Billings)+Wholesale Current Year Billings

(e) Reflects Interfund Charges To General Fund for Water Service for City , Zoo, Groundwater Discharge, Public Fire Protection (FNC-12), Aviation Fund, and Misc. City revenues.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 Budget Yr 2019	Ver. 1a
BER - Test Year Billings Under Existing Rates	P.N. 401641.0100	February 10, 2020 9:50 p.m.	LagRate-5

Reference: Financial Planning Model - Customer/Link

Gross Billing Adjustment Factor = 0.00

	(1)	(2)	(3)	(4)	(5)
	Percent Volume Charge % Ref. A	Percent Service Charge % Ref. A	TY 2021 Billings Under Existing Rates $ LagRate-4	Volume Charge Billings $ (1) x (3)	Service Charge Billings $ (2) x (3)
Senior Citizens	78.76%	21.24%	5,183,178	4,082,475	1,100,703
Residential (Exlcuding SC)	82.82%	17.18%	156,389,280	129,524,458	26,864,822
Commercial	94.46%	5.54%	63,385,607	59,874,568	3,511,040
Industrial	96.96%	3.04%	4,354,280	4,221,874	132,406
Public Utilities	93.14%	6.86%	389,002	362,317	26,685
Housing Authority	93.45%	6.55%	6,183,149	5,778,353	404,796
Charities & Schools	94.25%	5.75%	4,863,754	4,583,957	279,797
Hospitals & University	98.37%	1.63%	7,545,115	7,422,291	122,824
Hand Bill	99.33%	0.67%	14,724,973	14,626,286	98,687
Scheduled (Flat Rate)	72.77%	27.23%	689	501	188
xxxxxxxxxx	0.00%	0.00%	0	0	0
xxxxxxxxxx	0.00%	0.00%	0	0	0
Private Fire	11.92%	88.08%	4,393,649	523,606	3,870,043
Public Fire	0.00%	100.00%	9,235,000	0	9,235,000
Total	83.50%	16.50%	276,647,676	231,000,687	45,646,989
Total less xxxxxxxxxx	83.50%	16.50%	276,647,676	231,000,687	45,646,989
Total less xxxxxxxxxx & Fir	87.63%	12.37%	263,019,027	230,477,080	32,541,946

(a) Includes Residential, Commercial, Industrial, Public Utilities, and Miscellaneous.

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI | Test Year 2021 | Budget Yr 2019 | Ver. 1a
BPR - Projected Billings Under Proposed Rates | P.N. 401641.0100 | February 10, 2020 9:50 p.m. | LagRate-6

		Senior Citizens	Residential	Commercial	Industrial	Public Utilities	Housing Authority	Charities & Schools	Hospitals & Universities	Hand Bill	xxxxxxxxxx	Scheduled (Flat Rate)	xxxxxxxxxx	Private Fire Protection	Public Fire Protection	Total	Total less xxxxxxxxxx	Total less xxxxxxxxxx and Fire
Test Year Unit Billings - $/M	Rates-4	43.4326	54.7537	42.6939	37.0287	44.3609	41.5349	32.8224	27.8700	35.1292	0.0000	0.0000	0.0000	42.1377	7,611,000			
Test Year Percent Service Ch	Rates-4	19.51%	15.68%	4.88%	2.65%	5.99%	5.83%	5.02%	1.40%	0.57%	100.00%	100.00%	100.00%	80.63%	100.00%			
Test Year Percent Volume C	Rates-4	80.49%	84.32%	95.12%	97.35%	94.01%	94.17%	94.98%	98.60%	99.43%	0.00%	0.00%	0.00%	19.37%	0.00%			
2019														110,076				
Billed Volume	LagRate-3	129,989	3,014,087	1,558,562	154,824	8,929	157,347	157,659	286,455	428,623	0	13	0	(b)		5,896,488	5,896,488	5,896,488
Service Charge Billings		1,102,000	25,877,000	3,247,000	152,000	24,000	381,000	260,000	112,000	86,000	0	0	0	3,543,000	9,235,000	44,019,000	44,019,000	31,241,000
Volume Charge Billings		4,544,000	139,155,000	63,294,000	5,581,000	372,000	6,154,000	4,915,000	7,872,000	14,971,000	0	0	0	851,000	0	247,709,000	247,709,000	246,858,000
Total Billings		5,646,000	165,032,000	66,541,000	5,733,000	396,000	6,535,000	5,175,000	7,984,000	15,057,000	0	0	0	4,394,000	9,235,000	291,728,000	291,728,000	278,099,000
2020														110,076				
Billed Volume	LagRate-3	125,570	3,012,019	1,580,366	125,601	9,305	157,269	157,164	289,770	449,426	0	11	0	(b)		5,906,502	5,906,502	5,906,502
Service Charge Billings		1,064,000	25,859,000	3,293,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	42,558,000	42,558,000	31,207,000
Volume Charge Billings		4,390,000	139,060,000	64,179,000	4,528,000	388,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	248,154,000	248,154,000	247,256,000
Total Billings		5,454,000	164,919,000	67,472,000	4,651,000	413,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	290,712,000	290,712,000	278,463,000
		x					x	x				x						
2021														110,076				
Billed Volume	LagRate-3	122,989	2,958,267	1,574,457	125,472	9,291	157,269	157,164	289,770	449,426	0	11	0	(b)		5,844,116	5,844,116	5,844,116
Service Charge Billings		1,042,000	25,398,000	3,280,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	42,062,000	42,062,000	30,711,000
Volume Charge Billings		4,300,000	136,578,000	63,940,000	4,523,000	387,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	245,337,000	245,337,000	244,439,000
Total Billings		5,342,000	161,976,000	67,220,000	4,646,000	412,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	287,399,000	287,399,000	275,150,000
2022														110,076				
Billed Volume	LagRate-3	120,643	2,908,649	1,568,547	125,349	9,277	157,269	157,164	289,770	449,426	0	11	0	(b)		5,786,105	5,786,105	5,786,105
Service Charge Billings		1,022,000	24,972,000	3,268,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	41,604,000	41,604,000	30,253,000
Volume Charge Billings		4,218,000	134,287,000	63,699,000	4,519,000	387,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	242,719,000	242,719,000	241,821,000
Total Billings		5,240,000	159,259,000	66,967,000	4,642,000	412,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	284,323,000	284,323,000	272,074,000
2023														110,076				
Billed Volume	LagRate-3	118,297	2,859,031	1,562,918	125,226	9,264	157,269	157,164	289,770	449,426	0	11	0	(b)		5,728,376	5,728,376	5,728,376
Service Charge Billings		1,002,000	24,546,000	3,256,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	41,146,000	41,146,000	29,795,000
Volume Charge Billings		4,136,000	131,997,000	63,471,000	4,514,000	386,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	240,113,000	240,113,000	239,215,000
Total Billings		5,138,000	156,543,000	66,727,000	4,637,000	411,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	281,259,000	281,259,000	269,010,000
2024														110,076				
Billed Volume	LagRate-3	115,951	2,809,413	1,557,290	125,107	9,251	157,269	157,164	289,770	449,426	0	11	0	(b)		5,670,652	5,670,652	5,670,652
Service Charge Billings		983,000	24,120,000	3,245,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	40,690,000	40,690,000	29,339,000
Volume Charge Billings		4,053,000	129,706,000	63,242,000	4,510,000	385,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	237,505,000	237,505,000	236,607,000
Total Billings		5,036,000	153,826,000	66,487,000	4,633,000	410,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	278,195,000	278,195,000	265,946,000
2025														110,076				
Billed Volume	LagRate-3	113,605	2,759,795	1,551,943	124,989	9,237	157,269	157,164	289,770	449,426	0	11	0	(b)		5,613,210	5,613,210	5,613,210
Service Charge Billings		963,000	23,694,000	3,233,000	123,000	25,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	40,232,000	40,232,000	28,881,000
Volume Charge Billings		3,971,000	127,415,000	63,025,000	4,505,000	385,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	234,910,000	234,910,000	234,012,000
Total Billings		4,934,000	151,109,000	66,258,000	4,628,000	410,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	275,142,000	275,142,000	262,893,000
2026														110,076				
Billed Volume	LagRate-3	111,259	2,714,312	1,546,596	124,871	9,225	157,269	157,164	289,770	449,426	0	11	0	(b)		5,559,903	5,559,903	5,559,903
Service Charge Billings		943,000	23,303,000	3,222,000	123,000	24,000	381,000	259,000	113,000	90,000	0	0	0	3,740,000	7,611,000	39,809,000	39,809,000	28,458,000
Volume Charge Billings		3,889,000	125,316,000	62,808,000	4,501,000	385,000	6,151,000	4,899,000	7,963,000	15,698,000	0	0	0	898,000	0	232,508,000	232,508,000	231,610,000
Total Billings		4,832,000	148,619,000	66,030,000	4,624,000	409,000	6,532,000	5,158,000	8,076,000	15,788,000	0	0	0	4,638,000	7,611,000	272,317,000	272,317,000	260,068,000

(a) Combined Residential, Commercial, Industrial unit billing rate and percent service and volume charge calculated as follows:

	Billed Volume Mcf Rates-4	Billings $ Rates-4	Unit Billings $/Mcf	Service Charge $ Rates-4	Volume Charge $ Rates-4	Percent Service Charge %	Percent Volume Charge %
Residential	2,958,300	161,978,000		25,404,278	136,573,722	15.68%	84.32%
Commercial	1,574,500	67,221,490		3,280,942	63,940,548	4.88%	95.12%
Industrial	125,500	4,647,098		122,999	4,524,099	2.65%	97.35%
Public Utilities	9,300	412,556		24,705	387,851	5.99%	94.01%
	4,667,600	234,259,144	50.1884	28,832,924	205,426,220	12.31%	87.69%

(b) Total projected billings are equal to test year billings under existing rates.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021	Budget Yr 2019	Ver. 1a
SBPR - Summary of Projected Billings Under Proposed Rates	P.N. 401641.0100	February 10, 2020 9:50 p.m.		LagRate-7

Reference: LagRate-6

SERVICE CHARGE BILLINGS

	2019	2020	2021	2022	2023	2024	2025	2026
Senior Citizens	1,102,000	1,064,000	1,042,000	1,022,000	1,002,000	983,000	963,000	943,000
Residential	25,877,000	25,859,000	25,398,000	24,972,000	24,546,000	24,120,000	23,694,000	23,303,000
Commercial	3,247,000	3,293,000	3,280,000	3,268,000	3,256,000	3,245,000	3,233,000	3,222,000
Industrial	152,000	123,000	123,000	123,000	123,000	123,000	123,000	123,000
Public Utilities	24,000	25,000	25,000	25,000	25,000	25,000	25,000	24,000
Subtotal	30,402,000	30,364,000	29,868,000	29,410,000	28,952,000	28,496,000	28,038,000	27,615,000
Housing Authority	381,000	381,000	381,000	381,000	381,000	381,000	381,000	381,000
Charities & Schools	260,000	259,000	259,000	259,000	259,000	259,000	259,000	259,000
Hospitals & Universities	112,000	113,000	113,000	113,000	113,000	113,000	113,000	113,000
Hand Billed	86,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	0	0	0	0	0	0	0	0
xxxxxxxxxx	0	0	0	0	0	0	0	0
Fire Protect. (Private)	3,543,000	3,740,000	3,740,000	3,740,000	3,740,000	3,740,000	3,740,000	3,740,000
Fire Protect. (Public)	9,235,000	7,611,000	7,611,000	7,611,000	7,611,000	7,611,000	7,611,000	7,611,000
Total	44,019,000	42,558,000	42,062,000	41,604,000	41,146,000	40,690,000	40,232,000	39,809,000
Total Less xxxxxxxxxx	44,019,000	42,558,000	42,062,000	41,604,000	41,146,000	40,690,000	40,232,000	39,809,000
Total Less xxxxxxxxxx & Public and Privat	31,241,000	31,207,000	30,711,000	30,253,000	29,795,000	29,339,000	28,881,000	28,458,000

VOLUME CHARGE BILLINGS

	2019	2020	2021	2022	2023	2024	2025	2026
Senior Citizens	4,544,000	4,390,000	4,300,000	4,218,000	4,136,000	4,053,000	3,971,000	3,889,000
Residential	139,155,000	139,060,000	136,578,000	134,287,000	131,997,000	129,706,000	127,415,000	125,316,000
Commercial	63,294,000	64,179,000	63,940,000	63,699,000	63,471,000	63,242,000	63,025,000	62,808,000
Industrial	5,581,000	4,528,000	4,523,000	4,519,000	4,514,000	4,510,000	4,505,000	4,501,000
Public Utilities	372,000	388,000	387,000	387,000	386,000	385,000	385,000	385,000
Subtotal	212,946,000	212,545,000	209,728,000	207,110,000	204,504,000	201,896,000	199,301,000	196,899,000
Housing Authority	6,154,000	6,151,000	6,151,000	6,151,000	6,151,000	6,151,000	6,151,000	6,151,000
Charities & Schools	4,915,000	4,899,000	4,899,000	4,899,000	4,899,000	4,899,000	4,899,000	4,899,000
Hospitals & Universities	7,872,000	7,963,000	7,963,000	7,963,000	7,963,000	7,963,000	7,963,000	7,963,000
Hand Billed	14,971,000	15,698,000	15,698,000	15,698,000	15,698,000	15,698,000	15,698,000	15,698,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	0	0	0	0	0	0	0	0
xxxxxxxxxx	0	0	0	0	0	0	0	0
Fire Protect. (Private)	851,000	898,000	898,000	898,000	898,000	898,000	898,000	898,000
Fire Protect. (Public)	0	0	0	0	0	0	0	0
Total	247,709,000	248,154,000	245,337,000	242,719,000	240,113,000	237,505,000	234,910,000	232,508,000
Total Less xxxxxxxxxx	247,709,000	248,154,000	245,337,000	242,719,000	240,113,000	237,505,000	234,910,000	232,508,000
Total Less xxxxxxxxxx & Public and Privat	246,858,000	247,256,000	244,439,000	241,821,000	239,215,000	236,607,000	234,012,000	231,610,000

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 Budget Yr 2019	Ver. 1a
RWL - Calculation of Receipts with Lag	P.N. 401641.0100	February 10, 2020 9:50 p.m.	LagRate-8

Fiscal Year	Proposed Increase	Months Effective	Cumulative Increase 2019 - 2026	Cumulative Increase 2021 - 2026	Cumulative Increase 2022 - 2026
	Financial Planning Model				
2019	0.00%	10	100.00%		
2020	0.00%	10	100.00%		
2021	5.50%	12	105.50%	105.50%	
2022	5.50%	10	111.30%	111.30%	105.50%
2023	10.90%	10	123.43%	123.43%	117.00%
2024	10.90%	10	136.89%	136.89%	129.75%
2025	10.90%	10	151.81%	151.81%	143.90%
2026	11.40%	10	169.12%	169.12%	160.30%

Line No.		(1) Number of months at Existing Rates	(2) Number of months at COS Rates	(3) Billings (a) LagRate-5 LagRate-7	(4) Cumulative Percent Increase (b)	(5) FY 2021 COS Rate Adjustment LagRate-9	(6) FY 2022 COS Rate Adjustment	(7) FY 2023 COS Rate Adjustment	(8) FY 2024 COS Rate Adjustment	(9) Adjusted Billings (c) $	(10) Receipts Factor (d) FY 2021 (e) %	(11) FY 2022 %	(12) FY 2023 %	(13) FY 2024 %	(14) FY 2021 $ (6) x (7)
	SERVICE CHARGE														
	All classes less xxxxxxxxxx and fir														
	Existing Rates														
1	FY 2021	0.0		32,541,946	100.00%					0	86.68	8.74	1.90		0
	Adjusted COS Rates Effective July 1, 2020														
2	FY 2021		12.0	30,711,000	100.00%	103.10%				31,663,000	86.68	8.74	1.90		27,445,000
	FY 2022		10.0	30,253,000	111.30%	103.10%	103.20%			29,856,000		86.68	8.74	1.90	
	FY 2023		10.0	29,795,000	123.43%	103.10%	103.20%	#N/A		#N/A			86.68	8.74	
	FY 2024		10.0	29,339,000	136.89%	103.10%	103.20%	#N/A	#N/A	#N/A				86.68	
	Increase in service charge deposit due to rate increase (f)														
	xxxxxxxxxx and Fire														
	Existing Rates														
3	FY 2021	0.0		3,870,043	100.00%					0	100.00	0.00	0.00		0
	Adjusted COS Rates Effective July 1, 2020														
4	FY 2021		12.0	3,740,000	100.00%	103.10%				3,856,000	100.00	0.00	0.00		3,856,000
	FY 2022		10.0	3,740,000	111.30%	103.10%	103.20%			3,691,000		100.00	0.00	0.00	
	FY 2023		10.0	3,740,000	123.43%	103.10%	103.20%	#N/A		#N/A			100.00	0.00	
	FY 2024		10.0	3,740,000	136.89%	103.10%	103.20%	#N/A	#N/A	#N/A				100.00	
	Increase in xxxxxxxxxx service charge deposit due to rate increase														
	VOLUME CHARGE														
	All classes less xxxxxxxxxx and fir														
	Existing Rates														
5	FY 2021	0.5		230,477,080	100.00%					9,603,000	86.68	8.74	1.90		8,324,000
	Adjusted COS Rates Effective July 1, 2020														
6	FY 2021		11.5	244,439,000	100.00%	103.10%				241,516,000	86.68	8.74	1.90		209,346,000
	FY 2022	2.5	9.5	241,821,000	111.30%	103.10%	103.20%			278,656,000		86.68	8.74	1.90	
	FY 2023	2.5	9.5	239,215,000	123.43%	103.10%	103.20%	#N/A		#N/A			86.68	8.74	
	FY 2024	2.5	9.5	236,607,000	136.89%	103.10%	103.20%	#N/A	#N/A	#N/A				86.68	

	XXXXXXXXXX and fire														
	Existing Rates														
7	FY 2021	0.5		523,606	100.00%					22,000	100.00	0.00	0.00		22,000
	Adjusted COS Rates Effective July 1, 2020														
8	FY 2021		11.5	898,000	100.00%	103.10%				887,000	100.00	0.00	0.00		887,000
	FY 2022	2.5	9.5	898,000	111.30%	103.10%	103.20%			1,035,000		100.00	0.00	0.00	
	FY 2023	2.5	9.5	898,000	123.43%	103.10%	103.20%	#N/A		#N/A			100.00	0.00	
	FY 2024	2.5	9.5	898,000	136.89%	103.10%	103.20%	#N/A	#N/A	#N/A				100.00	
	SURCHARGE RATES														
	Existing Rates														
9	FY 2021	0.0		na	100.00%					0	86.68	8.74	1.90		0
	Adjusted COS Rates Effective July 1, 2020														
10	FY 2021		12.0	na	100.00%	103.10%				0	86.68	8.74	1.90		0
	FY 2022		10.0	na	111.30%	103.10%				0		86.68	8.74	1.90	
	FY 2023		10.0	na	123.43%	103.10%				0			86.68	8.74	
	FY 2024		10.0	na	136.89%	103.10%				0				86.68	
11	FY 2019 Billings (LagRate-4)			268,252,310	100.00%					268,252,000	1.90				5,097,000
12	FY 2020 Billings (LagRate-4)			266,427,098	100.00%					266,427,000	8.74	1.90			23,286,000
13	Total Receipts														278,263,000

(a) Billings to General Service customers under existing rates reflect an adjustment to gross water billings of 0.00%. A billtab adjustment was made to determine the proposed rates. 273,498,000

(b) Adjusted billings under existing rates should reflect proposed increases in effect prior to the test year. Adjusted billings under COS rates should reflect proposed increases after the test year. 4,765,000

(c) Adjusted service charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment.
Test year adjusted volume charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment. For each year after the test year, the adjusted volume charge rates time the previous year's billings times the previous year's cumulative percent increase plus the number of months at COS rates times billings times the cumulative percent increase times the COS rate adjustment. 278,263,000
Adjusted billings for FY 2019 and FY 2020 are equal to the billings times the cumulative percent increase times the 0.00% billings adjustment.

(d) Receipts Factor from Financial Planning Model .

(e) Receipt factor will need to be adjusted to recognize a partial year rate increase.

(f) Increase in service charge deposit calculated as 2 months of billings times the cumulative percent increase.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021	Budget Yr 2019	Ver. 1a
TYRWL - Test Year Retail Receipts with Lag	P.N. 401641.0100	February 10, 2020 9:50 p.m.		LagRate-9

NOT USED IN CURRENT ANALYSIS

	Percent Increase in Rates Required:	0.999235	0.979435	#N/A	#N/A
	USE:	1.0310	1.03200	#N/A	#N/A
Reference		FY 2021 $	FY 2022 $	FY 2023 $	FY 2024 $
LagRate-8	Total Retail Receipts less Public Fire	278,263,000	293,832,000	#N/A	#N/A
	Requirements:	Retcos-4	CF Data	CF Data	CF Data
	COS	288,997,000	299,268,348	326,137,949	358,456,491 x
	Less Wholesale (Including Mgmt Fee)	(3,336,000)	(3,391,000)	#N/A	#N/A
	Net Retail COS	285,661,000	295,877,348	#N/A	#N/A
	Less Public Fire Protection				
LagRate-5	Under Old Rates				
LagRate-8	Under New Rates	7,611,000	8,088,000	#N/A	#N/A
	Less Monthly Billing Incr. in Volume Charges				
	Total Requirements	278,050,000	287,789,348	#N/A	#N/A
	Revenue Surplus/(Deficiency)	213,000	6,042,652	#N/A	#N/A
LagRate-8	Total Increasable Receipts	241,534,000	287,931,000	#N/A	#N/A
	ADJUSTMENT FACTOR REQUIRED	-0.0765%	-2.0565%	#N/A	#N/A
		0.09%			
	%Rate Adjustment		8.88%	#N/A	#N/A

			Input from Model Application for FY 2022 , FY 2023 and FY 2024		
		FY 2021 $	FY 2022 $	FY 2023 $	FY 2024 $
Bucks County			Retcos-4	Retcos-4	Retcos-4
Rate Billings		0	0	#N/A	#N/A
Mgmt Fee	12.0%	0	0	#N/A	#N/A
Total Bucks	Retcos-4	0	0	#N/A	#N/A
Aqua PA					
Rate Billings	LagRate-11	3,033,000	3,083,000	#N/A	#N/A
Mgmt Fee	10.0%	303,000	308,000	#N/A	#N/A
Carrying					
Total Aqua PA		3,336,000	3,391,000	#N/A	#N/A
Total Wholesale w/Mgmt Fee		3,336,000	3,391,000	#N/A	#N/A
		285,661,000			

		Test Year 2021 Receipts of Test Year 2021 Billings
	General Customers	$
LagRate-8	Service Charge	27,445,000
LagRate-8	Volume Charge	217,670,000
	Total General Customers	245,115,000
	xxxxxxxxxx	
LagRate-8	Service Charge	3,856,000
LagRate-8	Volume Charge	909,000
	Total xxxxxxxxxx	4,765,000
LagRate-8	Surcharge	0
	Total	249,880,000

		FY 2021 Receipts (a)	FY 2021 Billings (a)	Percent	FY 2022 Receipts (a)	FY 2022 Billings (a)	Percent	FY 2023 Billings (a)	FY 2024 Billings (a)
LagRate-8	Current Year	249,880,000	282,782,000	88.36%	267,418,000	308,512,000	86.68%	#N/A	#N/A
LagRate-8	First Prior Year	23,286,000	266,427,000	8.74%	24,714,000	282,782,000	8.74%		
LagRate-8	Second Prior Year	5,097,000	268,252,000	1.90%	5,062,000	266,427,000	1.90%		
		278,263,000			297,194,000				

(a) Excludes wholesale

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 Budget Yr 2019	Ver. 1a
COSWL - Inflated COS Rates to Account for Lag	P.N. 401641.0100	February 10, 2020 9:50 p.m.	LagRate-10

(1)	(2)	(3)	(4)	(5)
Meter Size inches	Meter Code	Adjustment Factor % LagRate-9	Gen Svc Residential Service Charge $/Bill LagRate-2 x Col. (3)	Discount Residential Service Charge (a) $/Bill LagRate-2 x Col. (3)
5/8	R	103.1%	5.08	3.80
3/4	Z	103.1%	5.40	4.10
1	Q	103.1%	6.47	4.90
1 1/4	Y	103.1%	7.74	5.80
1 1/2	P	103.1%	8.51	6.40
2	X	103.1%	11.73	8.80
3	O	103.1%	18.37	13.80
4	W	103.1%	33.60	25.20
6	N	103.1%	62.74	47.10
8	V	103.1%	95.03	71.30
10	E	103.1%	139.39	104.50
12	T	103.1%	224.76	168.60
14	H	103.1%	244.44	183.30

	First Block 0 - 2 Mcf $/Mcf	Second Block 3 - 100 Mcf $/Mcf	Third Block 101 - 2,000 Mcf $/Mcf	Fourth Block >2,000 Mcf $/Mcf
		LagRate-2 x Column (3)		
General Service Volume Cha	48.57	42.67	33.07	32.17
Discount Volume Charge (a)	36.43	32.00	24.81	24.13

Fire Protection

Connection Size	Monthly Service Charge
Up Through 4	27.52
6	50.57
8	75.56
10	111.41
12	172.45

(a) Discount rate applies to Senior Citizens, and Charities.
A 5% discount applies to the Housing Authority.

TABLE W-17

COMPARISON OF TEST YEAR COSTS OF SERVICE AND ADJUSTED COST OF SERVICE WITH REVENUES UNDER EXISTING RATES TEST YEAR 2021

Line No.	Customer Class	(1) Revenue Under Existing Rates (a) $	(2) Allocated Cost of Service $ Retcos-4	(3) Adjusted Cost of Service $ Retcos-4	(4) Indicated Increase (Decrease) Required % (3)/(1) - 1
1	Senior Citizens	5,058,165	6,881,000	5,279,000	4.4%
2	Residential	152,512,645	157,382,000	160,995,000	5.6%
3	Commercial	61,728,805	64,472,000	65,952,000	6.8%
4	Industrial	4,259,578	4,470,000	4,573,000	7.4%
5	Public Utilities	378,582	361,000	369,000	-2.5%
6	Subtotal General Service	223,937,776	233,566,000	237,168,000	5.9%
7	Housing Authority	6,020,520	6,967,000	6,771,000	12.5%
8	Charities & Schools	4,736,465	6,493,000	4,982,000	5.2%
9	Hospitals & University	7,345,739	10,876,000	8,344,000	13.6%
10	Hand Billed	14,326,243	17,654,000	18,059,000	26.1%
11	Scheduled (Flat Rate)	672	0	0	-100.0%
12	xxxxxxxxxx	0	0	0	NA
13	xxxxxxxxxx	0	0	0	0.0%
	Fire Protection				
14	Private	4,279,533	2,665,000	2,726,000	-36.3%
	Public				
15	Standard Pressure	9,235,000	7,440,000	7,611,000	-17.6%
16	High Pressure (b)	0	0	0	NA
17	Subtotal Public Fire Protection	9,235,000	7,440,000	7,611,000	-17.6%
18	Subtotal Retail Service	269,881,948	285,661,000	285,661,000	5.8%
19	Bucks County Wholesale Service	0	0	0	0.0%
20	Aqua PA	3,819,124	3,033,000	3,033,000	-20.6%
21	Total Wholesale	3,819,124	3,033,000	3,033,000	-20.6%
22	Total System	273,701,072	288,694,000	288,694,000	5.5%

(a) Revenue Under Existing Rates calculation:

(b) Reflects gradual decommissioning of the system.

	Fiscal Year Ending June 30							
	2019 Billings $1,000 LagRate-4	2019 Adjusted Billings (1) $1,000	2020 Billings $1,000 LagRate-4	2020 Adjusted Billings (1) $1,000	2021 Billings $1,000 LagRate-4	2021 Adjusted Billings (1) $1,000	2021 Receipts $1,000	
Test Year Revenues under existing rates:		1.90%		8.74%		86.68%		
Senior Citizens	5,471	5,471	5,280	5,280	5,183	5,183	5,058	
Residential	160,421	160,421	159,112	159,112	156,389	156,389	152,513	
Commercial	63,578	63,578	63,824	63,824	63,386	63,386	61,729	
Industrial	5,413	5,413	4,376	4,376	4,354	4,354	4,260	
Public Utilities	381	381	391	391	389	389	379	
Housing Authority	6,253	6,253	6,203	6,203	6,183	6,183	6,021	
Charities & Schools	4,951	4,951	4,880	4,880	4,864	4,864	4,736	
Hospitals & Universities	7,558	7,558	7,575	7,575	7,545	7,545	7,346	
Hand Billed	14,226	14,226	14,786	14,786	14,725	14,725	14,326	
Scheduled (Flat Rate)	1	1	1	1	1	1	1	
xxxxxxxxxx	0	0	0	0	0	0	0	
xxxxxxxxxx	0	0	0	0	0	0	0	No Lag
Public Fire Protection	9,300	9,300	9,235	9,235	9,235	9,235	9,235	No Lag
Private Fire Protection	4,610	4,610	4,388	4,388	4,394	4,394	4,394	No Lag
Subtotal	282,162	282,162	280,050	280,050	276,648	276,648	269,996	
Bucks County	0	0	0	0	0	0	0	0.08333 factor - One month lag
Aqua PA	3,672	3,672	3,821	3,821	3,940	3,940	3,930	0.08333 factor - One month lag
Total	285,834	285,834	283,871	283,871	280,588	280,588	273,926	

(1) Adjusted billings after 2018 reflect an adjustment to General Service billings of 0.00%.

(b) Public high pressure fire system revenue under existing rates is included with standard pressure fire protection.

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 Budget Yr 2019	Ver. 1a
CPRATES - Water & Wastewater Proposed Rates	P.N. 401641.0100	February 10, 2020 9:50 p.m.	LagRate-12

Reference A: Financial Planning Model - Customer
Reference B: SCOS Lagrate-25

FY 2021 PROPOSED RATES FOR GENERAL SERVICE

Service Charges

Meter Size inches	Existing Rates Water $/month LagRate-2	Existing Rates Wastewater $/month REF. A	Existing Rates Total Existing $/month	Proposed Rates Water $/month LagRate-10	Proposed Rates Wastewater $/month REF. B	Proposed Rates Total Proposed $/month
5/8	5.21	7.04	12.25	5.08	7.61	12.69
3/4	5.55	8.95	14.50	5.40	9.75	15.15
1	6.70	13.06	19.76	6.47	14.36	20.83
1 1/4	8.05	18.33	26.38	7.74	20.26	28.00
1 1/2	8.88	22.89	31.77	8.51	25.40	33.91
2	12.32	35.25	47.57	11.73	39.23	50.96
3	19.44	63.46	82.90	18.37	70.85	89.22
4	35.39	107.93	143.32	33.60	120.31	153.91
6	66.29	212.60	278.89	62.74	237.29	300.03
8	100.66	336.27	436.93	95.03	375.66	470.69
10	147.50	485.42	632.92	139.39	542.09	681.48
12	239.52	881.42	1,120.94	224.76	986.67	1,211.43

Quantity Charges

Water Usage		Existing $/Mcf LagRate-2	Proposed $/Mcf LagRate-10
First	2 Mcf	44.80	48.57
Next	98 Mcf	38.56	42.67
Next	1,900 Mcf	29.88	33.07
Over	2,000 Mcf	29.06	32.17
Wastewater Usage			
Per Mcf		30.82	33.88

Surcharge Rates

BOD ($/lb in excess of 250 mg/l)	0.391	0.448
SS ($/lb in excess of 350 mg/l)	0.391	0.468

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021	Budget Yr 2019	Ver. 1a
WPRATES - Water Proposed Rates	P.N. 401641.0100	February 10, 2020 9:50 p.m.		LagRate-13

TABLE W-18 and TABLE W-19

PROPOSED WATER RATES

Service Charge

Meter Size inches	Monthly Charge $ LagRate-12	FY 2022		FY 2023		FY 2024	
5/8	5.08	5.19	102.17%	#N/A	#N/A	#N/A	#N/A
3/4	5.40	5.52	102.22%	#N/A	#N/A	#N/A	#N/A
1	6.47	6.63	102.47%	#N/A	#N/A	#N/A	#N/A
1 1/4	7.74	7.94	102.58%	#N/A	#N/A	#N/A	#N/A
1 1/2	8.51	8.73	102.59%	#N/A	#N/A	#N/A	#N/A
2	11.73	12.06	102.81%	#N/A	#N/A	#N/A	#N/A
3	18.37	18.94	103.10%	#N/A	#N/A	#N/A	#N/A
4	33.60	34.58	102.92%	#N/A	#N/A	#N/A	#N/A
6	62.74	64.64	103.03%	#N/A	#N/A	#N/A	#N/A
8	95.03	98.00	103.13%	#N/A	#N/A	#N/A	#N/A
10	139.39	143.70	103.09%	#N/A	#N/A	#N/A	#N/A
12	224.76	232.22	103.32%	#N/A	#N/A	#N/A	#N/A

Quantity Charge

Monthly Water Usage		Charge Per Mcf $ LagRate-12						
First	2 Mcf	48.57	51.02	105.04%	#N/A	#N/A	#N/A	#N/A
Next	98 Mcf	42.67	46.05	107.92%	#N/A	#N/A	#N/A	#N/A
Next	1,900 Mcf	33.07	35.47	107.26%	#N/A	#N/A	#N/A	#N/A
Over	2,000 Mcf	32.17	34.49	107.21%	#N/A	#N/A	#N/A	#N/A

Private Fire Service

Size of Meter or Connection:	Monthly Charge $ Rates-3*1.031(LagRate-9)	Prior to Lag Factor Rates-3						
4" or less	27.52	26.69	28.43	103.31%	#N/A	#N/A	#N/A	#N/A
6"	50.57	49.05	52.33	103.48%	#N/A	#N/A	#N/A	#N/A
8"	75.56	73.29	78.29	103.61%	#N/A	#N/A	#N/A	#N/A
10"	111.41	108.06	115.38	103.56%	#N/A	#N/A	#N/A	#N/A
12"	172.45	167.26	179.27	103.95%	#N/A	#N/A	#N/A	#N/A

Public Fire Protection

Standard Pressure:	$7,611,000	Annually	LagRate-11	8,088,000	106.27%	#N/A	#N/A	#N/A	#N/A
High Pressure:	$0	Annually	LagRate-11	0		0		0	

Mcf - thousand cubic feet

File: WCOS19_21_ver3_rates.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021	Budget Yr 2019	Ver. 1a
BTAB - BillTab Billing Percentages	P.N. 401641.0100	February 10, 2020 9:50 p.m.		LagRate-14

Reference: LINKS - WREV11 PROJECTED CHECK 20111219.XLS

	(1)	(2)	(3)	(4)	(5)	(6)
	Total Water Service Charges $	Total Water Volume Charges $	Total Water Billings $ (1)+(2)	Percent of Total Billings %	Total Water Billings Excluding Senior Citizens $ (1)+(2)	Percent of Total Billings Excluding Senior Citizens %
Senior Citizens	1,042,000	4,300,000	5,342,000	1.86%	-	0.00%
Residential	25,398,000	136,578,000	161,976,000	56.36%	161,976,000	66.95%
Commercial	3,280,000	63,940,000	67,220,000	23.39%	67,220,000	27.79%
Industrial	123,000	4,523,000	4,646,000	1.62%	4,646,000	1.92%
Public Utilities	25,000	387,000	412,000	0.14%		
Housing Authority	381,000	6,151,000	6,532,000	2.27%		
Charities & Schools	259,000	4,899,000	5,158,000	1.79%		
Hospitals & Universities	113,000	7,963,000	8,076,000	2.81%	8,076,000	3.34%
Hand Billed	90,000	15,698,000	15,788,000	5.49%		
xxxxxxxxxx	0	0	0	0.00%		
Scheduled (Flat Rate)	0	0	0	0.00%		
xxxxxxxxxx	0	0	0	0.00%		
Fire Protection (Private)	3,740,000	898,000	4,638,000	1.61%		
Fire Protection (Public)	7,611,000	0	7,611,000	2.65%		
	42,062,000	245,337,000	287,399,000		241,918,000	

File: WCOS19_21_ver3_rates.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2021 | Budget Yr 2019 | Ver. 1a
WSERVCHGS - Components of Water Service Charges | P.N. 401641.0100 | February 10, 2020 10:24 p.m. | LagRate-15

					FY 2021 Water Service Charge				FY 2022 Water Service Charge				FY 2023 Water Service Charge		
		Equivalent Bills	Equivalent Meters	Equivalent Services	Billing Costs $	Metering Costs $	Warranty Costs $	Total Costs $	Billing Costs $	Metering Costs $	Warranty Costs $	Total Costs $	Billing Costs $	Metering Costs $	Warranty Costs $
Unit Costs	Rates-2				4.3222	0.6119	0.0000								
Units	Rates-2				$/equiv bill	$/equiv mtr/bil	$/equiv srv/bil								
		Units-3	Units-4	Units-4											
5/8 Inch Mete	2020 COS Service Charge	1.0	1.0	1.0	4.3222	0.6119	0.0000		4.3222	0.6119	0.0000		4.3222	0.6119	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9 (a)			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				4.45	0.63	0.00	5.08	4.50	0.69	0.00	5.19	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			3.34	0.47	0.00	3.81	3.37	0.52	0.00	3.89	#N/A	#N/A	#N/A
3/4 Inch Mete	2020 COS Service Charge	1.0	1.5	1.0	4.3222	0.9179	0.0000		4.3222	0.9179	0.0000		4.3222	0.9179	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				4.45	0.95	0.00	5.40	4.49	1.03	0.00	5.52	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			3.34	0.71	0.00	4.05	3.37	0.77	0.00	4.14	#N/A	#N/A	#N/A
1 Inch Meter:	2020 COS Service Charge	1.1	2.5	1.1	4.7544	1.5298	0.0000		4.7544	1.5298	0.0000		4.7544	1.5298	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				4.89	1.58	0.00	6.47	4.91	1.72	0.00	6.63	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			3.66	1.19	0.00	4.85	3.68	1.29	0.00	4.97	#N/A	#N/A	#N/A
1-1/4 Inch Me	2020 COS Service Charge	1.2	3.8	1.2	5.1866	2.3252	0.0000		5.1866	2.3252	0.0000		5.1866	2.3252	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				5.34	2.40	0.00	7.74	5.33	2.61	0.00	7.94	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			4.01	1.80	0.00	5.81	4.00	1.96	0.00	5.96	#N/A	#N/A	#N/A
1-1/2 Inch Me	2020 COS Service Charge	1.2	5.0	1.2	5.1866	3.0595	0.0000		5.1866	3.0595	0.0000		5.1866	3.0595	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				5.36	3.15	0.00	8.51	5.30	3.43	0.00	8.73	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			4.02	2.36	0.00	6.38	3.98	2.57	0.00	6.55	#N/A	#N/A	#N/A
2 Inch Meter:	2020 COS Service Charge	1.5	8.0	2.1	6.4833	4.8952	0.0000		6.4833	4.8952	0.0000		6.4833	4.8952	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				6.68	5.05	0.00	11.73	6.57	5.49	0.00	12.06	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			5.01	3.79	0.00	8.80	4.93	4.12	0.00	9.05	#N/A	#N/A	#N/A
3 Inch Meter:	2020 COS Service Charge	2.0	15.0		8.6444	9.1785	0.0000		8.6444	9.1785	0.0000		8.6444	9.1785	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				8.91	9.46	0.00	18.37	8.64	10.30	0.00	18.94	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			6.68	7.10	0.00	13.78	6.48	7.73	0.00	14.21	#N/A	#N/A	#N/A
4 Inch Meter:	2020 COS Service Charge	4.0	25.0		17.2888	15.2975	0.0000		17.2888	15.2975	0.0000		17.2888	15.2975	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				17.83	15.77	0.00	33.60	17.41	17.17	0.00	34.58	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			13.37	11.83	0.00	25.20	13.06	12.88	0.00	25.94	#N/A	#N/A	#N/A
6 Inch Meter:	2020 COS Service Charge	7.0	50.0		30.2554	30.5950	0.0000		30.2554	30.5950	0.0000		30.2554	30.5950	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				31.20	31.54	0.00	62.74	30.30	34.34	0.00	64.64	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			23.40	23.66	0.00	47.06	22.72	25.76	0.00	48.48	#N/A	#N/A	#N/A
8 Inch Meter:	2020 COS Service Charge	10.0	80.0		43.2220	48.9520	0.0000		43.2220	48.9520	0.0000		43.2220	48.9520	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				44.56	50.47	0.00	95.03	43.05	54.95	0.00	98.00	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			33.42	37.85	0.00	71.27	32.29	41.21	0.00	73.50	#N/A	#N/A	#N/A
10 Inch Meter	2020 COS Service Charge	15.0	115.0		64.8330	70.3685	0.0000		64.8330	70.3685	0.0000		64.8330	70.3685	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				66.84	72.55	0.00	139.39	64.71	78.99	0.00	143.70	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			50.13	54.41	0.00	104.54	48.54	59.24	0.00	107.78	#N/A	#N/A	#N/A
12 Inch Meter	2020 COS Service Charge	20.0	215.0		86.4440	131.5585	0.0000		86.4440	131.5585	0.0000		86.4440	131.5585	0.0000
	Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0310	1.0310	1.0310		1.1225	1.1225	1.1225		#N/A	#N/A	#N/A
	Adjusted COS Service Charge (Rounded)				89.12	135.64	0.00	224.76	84.55	147.67	0.00	232.22	#N/A	#N/A	#N/A
	Times (100%-25%) Charities Discoun	Retcos-4			66.84	101.73	0.00	168.57	63.42	110.75	0.00	174.17	#N/A	#N/A	#N/A

(a) Reference: LagRate-9 103.1000 * 1.0888 = 1.1225

Not in use

Rate Components of Water Service Charges

Black & Veatch	Regular Rates Metering Costs $/bill	Regular Rates Billing Costs $/bill	Regular Rates Warranty Costs $/bill	Regular Rates Total $/bill	Discount Rates Metering Costs $/bill	Discount Rates Billing Costs $/bill	Discount Rates Warranty Costs $/bill	Discount Rates Total $/bill	Reference
FY 2020 Service Charges									
5/8 Inch Meter:	0.63	4.45	0.00	5.08	0.47	3.34	0.00	3.81	LagRate-15
3/4 Inch Meter:	0.95	4.45	0.00	5.40	0.71	3.34	0.00	4.05	LagRate-15
1 Inch Meter:	1.58	4.89	0.00	6.47	1.19	3.66	0.00	4.85	LagRate-15
1-1/4 Inch Meter:	2.40	5.34	0.00	7.74	1.80	4.01	0.00	5.81	LagRate-15
1-1/2 Inch Meter:	3.15	5.36	0.00	8.51	2.36	4.02	0.00	6.38	LagRate-15
2 Inch Meter:	5.05	6.68	0.00	11.73	3.79	5.01	0.00	8.80	LagRate-15
3 Inch Meter:	9.46	8.91	0.00	18.37	7.10	6.68	0.00	13.78	LagRate-15
4 Inch Meter:	15.77	17.83	0.00	33.60	11.83	13.37	0.00	25.20	LagRate-15
6 Inch Meter:	31.54	31.20	0.00	62.74	23.66	23.40	0.00	47.06	LagRate-15
8 Inch Meter:	50.47	44.56	0.00	95.03	37.85	33.42	0.00	71.27	LagRate-15
10 Inch Meter:	72.55	66.84	0.00	139.39	54.41	50.13	0.00	104.54	LagRate-15
12 Inch Meter:	135.64	89.12	0.00	224.76	101.73	66.84	0.00	168.57	LagRate-15
FY 2021 Service Charges									
5/8 Inch Meter:	0.69	4.50	0.00	5.19	0.52	3.37	0.00	3.89	LagRate-15
3/4 Inch Meter:	1.03	4.49	0.00	5.52	0.77	3.37	0.00	4.14	LagRate-15
1 Inch Meter:	1.72	4.91	0.00	6.63	1.29	3.68	0.00	4.97	LagRate-15
1-1/4 Inch Meter:	2.61	5.33	0.00	7.94	1.96	4.00	0.00	5.96	LagRate-15
1-1/2 Inch Meter:	3.43	5.30	0.00	8.73	2.57	3.98	0.00	6.55	LagRate-15
2 Inch Meter:	5.49	6.57	0.00	12.06	4.12	4.93	0.00	9.05	LagRate-15
3 Inch Meter:	10.30	8.64	0.00	18.94	7.73	6.48	0.00	14.21	LagRate-15
4 Inch Meter:	17.17	17.41	0.00	34.58	12.88	13.06	0.00	25.94	LagRate-15
6 Inch Meter:	34.34	30.30	0.00	64.64	25.76	22.72	0.00	48.48	LagRate-15
8 Inch Meter:	54.95	43.05	0.00	98.00	41.21	32.29	0.00	73.50	LagRate-15
10 Inch Meter:	78.99	64.71	0.00	143.70	59.24	48.54	0.00	107.78	LagRate-15
12 Inch Meter:	147.67	84.55	0.00	232.22	110.75	63.42	0.00	174.17	LagRate-15
FY 2022 Service Charges									
5/8 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
3/4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1-1/4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1-1/2 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
2 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
3 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
6 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
8 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
10 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
12 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15