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VIA eFiling

April 26, 2022

Rosemary Chiavetta, Secretary  
Commonwealth of Pennsylvania  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street  
Harrisburg, PA 17120

**Re: Pennsylvania-American Water Company – Wastewater Division  
2021 Wastewater Annual Asset Optimization Plan  
Docket No. M-2022-3031196**

Dear Secretary Chiavetta:

On April 12, 2022, Pennsylvania-American Water Company - Wastewater Division received Data Request Set 1 from the Bureau of Technical Utility Services for the above-referenced 2021 Wastewater Annual Asset Optimization Plan.

Attached are the Company's responses to the data request. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Teresa K. Harrold", with a stylized flourish at the end.

Teresa K. Harrold

Enclosures

cc: Certificate of Service  
Kenneth Shaffer VIA E-Mail at [kennshaffe@pa.gov](mailto:kennshaffe@pa.gov)

Pennsylvania-American Water Company's Responses to the  
Bureau of Technical Utility Services  
Reliability and Emergency Preparedness Division  
Data Request Set 1

Docket No. M-2022-3031196

2021 Wastewater Annual Asset Optimization Plan

1. Reference PAWC-WD's 2022 Annual Asset Optimization Plan at Docket No. M-20223031196

- a. PAWC-WD reported that its actual Long-Term Infrastructure Improvement Plan (LTIIIP) expenditures for eligible property replacement in 2021 were \$25.95 million. PAWC- WD's LTIIIP at Docket P-2014-2431005 proposed \$20.98 million in expenditures for 2021. State the reason for the approximate 21.97% annual increase in spending.

Response:

Both the Company and the wider industry have experienced a sharp uptick in pricing of materials. Pipe, fittings and asphalt prices have increased by more than 25%. The price changes began in 2021 and have continued into this year. For several systems, the Company is under compliance orders from DEP or EPA to correct deficiencies in the system and has committed to linear footage improvements through the LTIIIP. Accordingly, the Company continued to work towards its linear footage commitments despite this increased material cost.

- b. PAWC-WD reported in its AAOP that it projects its LTIIIP expenditures for eligible property replacement in 2022 to be \$32.05 million. PAWC-WD's LTIIIP at P-2014-2431005 proposed \$20.36 million in expenditures for 2022. State the reason for the approximate 57.42% projected increase in annual spending.

Response:

The additional investment planned for 2022 is due to a combination of the inflation as mentioned above and system evaluations revealing conditions that required correction. When the LTIIIP was prepared, PAWC did not anticipate the current level of inflation. The total investment is close, though higher, to the average of the previous three years. Some areas have seen adequate improvements in performance to justify lowering the LTIIIP budget like Coatesville. For other systems, the condition assessment revealed more significant investment needs, notably McKeesport, New Cumberland, Fairview and Paint Elk. Most of the additional spend

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is due to the need to upgrade three lift stations at a cost of approximately \$3.6 million. The table below shows a comparison of spend with the previous three years.

District	Actual Expenditures 2019	Actual Expenditures 2020	Actual Expenditures 2021	Projected Expenditures 2022	Delta from three year average	
Blue Mountain Lake - 76	\$0	\$0	\$0			
Lehman Pike & Marcel Lakes - 69	\$290,379	\$146,890	\$343,436	\$550,536	\$290,301.08	
Pocono - 58	\$1,172,345	\$482,084	\$270,782	\$442,823	(\$198,914.03)	
Claysville - 26	\$0	\$0	\$0	\$8,608	\$8,608.00	
Coatesville -67	\$6,545,705	\$2,110,829	\$1,910,615	\$761,880	(\$2,760,502.60)	
Clarion - 47	\$3,888,909	\$1,405,730	\$1,421,210	\$1,922,079	(\$316,537.28)	
SCRANTON WW - 92	\$6,869,935	\$8,993,335	\$13,305,567	\$10,495,075	\$772,129.46	Completion of assessment
McKeesport - 12	\$12,985,783	\$7,175,305	\$4,984,883	\$10,090,308	\$1,708,317.70	Completion of assessment
FRANKLIN WW - 83	\$0	\$655	\$439,208	\$43,509	(\$103,111.91)	
MCEWENSVILLE WW - 85	\$0	\$1,764	\$180	\$23,290	\$22,641.85	
NEW CUMBERLAND WW - 87	\$36,337	\$54,030	\$1,396,216	\$1,808,827	\$1,313,299.72	Completion of assessment
KOPPEL WW - 35	\$575,568	\$993,487	\$1,148,520	\$1,623,659	\$717,800.15	Completion of assessment
FAIRVIEW WW - 60	\$14,282	\$9,789	\$277,941	\$1,331,746	\$1,231,075.73	Completion of assessment and lift station upgrade
PAINT ELK TWP WW - 38	\$498,517	\$792,868	\$95,761	\$2,951,412	\$2,489,029.78	Lift Station Upgrade
<b>Total</b>	<b>\$32,877,761</b>	<b>\$22,166,767</b>	<b>\$25,594,318</b>	<b>\$32,053,753</b>	<b>\$5,174,137.64</b>	

- c. Ordering Paragraph No. 2 of the Commission Order entered on April 16, 2020, at Docket P-2014-2431005 directed that PAWC-WD, beginning with its AAOP for calendar year 2020 and for all subsequent AAOPs, provide: updated information on its pipeline materials and diameters for all of its wastewater systems; detailed information on the amount of sewer pipe that is replaced or rehabilitated each year; and a baseline and update on the progress of the inflow and infiltration (I&I) reduction for each of its wastewater systems. Provide the information as directed by the Commission Order.

Response:

Detailed information on the amount of sewer pipe that is replaced and rehabilitated each year was included on pages 3 through 6 of PAWC-WD's AAOP. A further breakdown showing quantities rehabilitated and quantities replaced is provided in TUS-1-1c\_Attachment 1. With respect to PAWC's I&I progress, PAWC evaluates long-term I&I trends because seasonal and annual rainfall can skew the year over year results. In addition, combined sanitary sewer systems are more impacted by storm events because the storm drains in the area collect

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2021 Wastewater Annual Asset Optimization Plan

storm water that then flows into the sewer system pipe to the treatment plant. For combined sewer systems, the performance target from DEP and EPA is reduced sewage overflows versus I&I reduction. Therefore, reviewing the number of deficiencies corrected and reduction in overflow events are a better indicator of system condition and improvements for combined sewer systems. For example, overflows at the McKeesport system have reduced from 356 MG in 2020 to 287 MG in 2021. Below are tables showing totals for the state for PAWC-WD's separate sanitary sewer systems and combined sewer systems.

Sanitary Sewer Systems	2019		2020		2021	
	WWTP Flows 1000 gals	Estimated I&I 1000 gals	WWTP Flows 1000 gals	Estimated I&I 1000 gals	WWTP Flows 1000 gals	Estimated I&I 1000 gals
Claysville WW	37,017	17,465	32,361	14,562	30,021	11,386
Koppel WW	78,445	66,713	62,678	51,333	54,568	41,683
Clean Treatment WW	14,053	2,437	14,366	2,007	15,360	2,698
Clarion WW/Paint Elk WW	536,520	302,141	439,933	221,189	463,642	264,057
Pocono WW	226,635	84,365	243,787	91,179	261,097	119,250
Fairview WW/New Cumberland WW	544,579	210,933	493,154	129,398	525,021	179,856
Coatesville WW	1,220,225	224,139	1,381,559	433,826	1,202,249	276,715
Lehman Pike WW <sup>(1)</sup>	114,226	-10,628	128,172	-14,350	129,352	-6,913
Franklin WW <sup>(2)</sup>	29,468	4,844	26,252	1,412	30,484	5,428
McEwensville WW	6,604	1,040	6,518	890	6,953	1,613
Combined Sewer Systems	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I
	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals
McKeesport WW	4,203,492	3,661,527	4,295,831	3,750,618	4,444,757	3,933,818
Scranton WW	5,009,017	2,812,294	4,557,615	2,370,727	4,696,212	2,481,243
Notes:						
(1) Lehman Pike WW is primarily a low pressure system with very little I&I. Small differences can be attributed to metering and consupive water use.						
(2) Franklin WW does not have a metered water system, the 2019 average per customer flow of 72 gpd was used to approximate flow						

Name: Bruce Aiton  
Title: Vice President - Engineering

SUMMARY

DISTRICT CODE	DISTRICT	TOTAL MILES (2020 AAOP)	TOTAL MILES (2021 AAOP)	2020 - 2021 MILES DIFFERENCE	2021 MILES OF NEW MAIN
2412	McKeesport WW	178.5	182.2	3.7	0.1
2413	Exeter WW	126.0	125.4	-0.6	0.0
2417	Royersford WW	0.0	13.7	13.7	0.0
2419	Kane WW	48.4	48.4	0.0	0.0
2426	Claysville WW	11.4	11.4	0.0	0.0
2435	Koppel WW	5.6	5.1	-0.4	0.0
2436	Marcel Lakes WW	11.2	11.2	0.0	0.0
2437	Franklin WW*	13.1	13.1	0.0	0.0
2437	*includes Hamiltonban				
2438	Paint Elk WW*	21.1	21.1	0.0	0.0
2438	*includes Shippenville				
2447	Clarion WW	45.5	46.2	0.7	0.0
2458	Pocono County Place WW	47.4	47.4	0.0	0.0
2460	Fairview WW - North	35.3	35.3	0.0	0.0
2460	Fairview WW - South	39.8	39.8	0.0	0.0
2467	Coatesville WW*	103.3	148.1	44.9	0.0
2467	*includes Sadsbury & Valley				
2469	Blue Mountain Lake WW	12.9	12.9	0.0	0.0
2469	Lehman Pike WW - Saw Creek	50.5	50.5	0.0	0.0
2469	Delaware WW (Wild Acres)	0.0	5.8	5.8	0.0
2485	McEwensville WW	2.6	2.6	0.0	0.0
2487	New Cumberland WW	28.7	28.7	0.0	0.0
2489	Turbotville WW	4.1	4.1	0.0	0.0
2492	Scranton WW	331.1	331.1	0.0	0.0
<b>TOTAL</b>		<b>1,116.6</b>	<b>1,184.3</b>	<b>67.7</b>	<b>0.1</b>

**NOTES:**

- 1) Royersford WW and Delaware WW do not have 2020 AAOP data because they were acquired in 2021.
- 2) Valley Township WW was acquired in 2021 and is grouped in with Coatesville WW. The total mileage and mileage difference will reflect that new acquisition.
- 3) 2020 AAOP data source for Exeter WW and Koppel WW was based on paper maps, while 2021 AAOP data source was PAWC survey work. 2021 totals may be lower due to determining certain pipes do not exist.

## TOTAL LENGTH BY DIAMETER (MI)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY DIAMETER (MI)							TOTAL (MI)
		≤ 4"	6" - 8"	10" - 12"	14" - 18"	20" - 24"	> 24"	Unknown	
2412	McKeesport WW	0.1	41.1	53.0	24.6	10.3	9.1	44.0	<b>182.2</b>
2413	Exeter WW	0.2	104.1	8.8	6.1	1.1	2.8	2.4	<b>125.4</b>
2417	Royersford WW	0.1	11.4	0.6	1.7	0.0	0.0	0.0	<b>13.7</b>
2419	Kane WW	5.9	28.3	11.6	0.5	1.8	0.2	0.0	<b>48.4</b>
2426	Claysville WW	0.2	9.5	1.7	0.0	0.0	0.0	0.0	<b>11.4</b>
2435	Koppel WW	0.0	3.8	0.6	0.7	0.0	0.0	0.0	<b>5.1</b>
2436	Marcel Lakes WW	5.4	5.2	0.7	0.0	0.0	0.0	0.0	<b>11.2</b>
2437	Franklin WW*	0.0	11.2	1.7	0.0	0.0	0.0	0.3	<b>13.1</b>
2437	*includes Hamiltonban								
2438	Paint Elk WW*	2.2	18.3	0.2	0.2	0.0	0.0	0.2	<b>21.1</b>
2438	*includes Shippenville								
2447	Clarion WW	0.8	34.7	6.4	2.5	0.4	0.4	1.0	<b>46.2</b>
2458	Pocono County Place WW	15.6	27.7	1.2	2.6	0.2	0.1	0.2	<b>47.4</b>
2460	Fairview WW - North	0.8	30.9	3.4	0.0	0.2	0.0	0.0	<b>35.3</b>
2460	Fairview WW - South	0.0	38.7	1.1	0.0	0.0	0.0	0.0	<b>39.8</b>
2467	Coatesville WW*	9.5	65.9	7.9	6.1	1.3	1.4	56.0	<b>148.1</b>
2467	*includes Sadsbury & Valley								
2469	Blue Mountain Lake WW	10.6	2.3	0.0	0.0	0.0	0.0	0.0	<b>12.9</b>
2469	Lehman Pike WW - Saw Creek	42.0	7.0	1.6	0.0	0.0	0.0	0.0	<b>50.5</b>
2469	Delaware WW (Wild Acres)	0.0	0.0	0.0	0.0	0.0	0.0	5.8	<b>5.8</b>
2485	McEwensville WW	0.1	2.1	0.3	0.0	0.0	0.0	0.1	<b>2.6</b>
2487	New Cumberland WW	0.1	24.3	2.9	1.4	0.1	0.1	0.0	<b>28.7</b>
2489	Turbotville WW	0.0	4.0	0.0	0.0	0.0	0.0	0.0	<b>4.1</b>
2492	Scranton WW	0.4	133.3	110.4	36.9	21.1	21.1	7.9	<b>331.1</b>
	<b>TOTAL (MI)</b>	<b>94.0</b>	<b>603.6</b>	<b>214.0</b>	<b>83.3</b>	<b>36.4</b>	<b>35.2</b>	<b>117.9</b>	<b>1,184.3</b>

TOTAL LENGTH BY DIAMETER (%)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY DIAMETER (MI)							TOTAL (MI)
		≤ 4"	6" - 8"	10" - 12"	14" - 18"	20" - 24"	> 24"	Unknown	
2412	McKeesport WW	0.0%	22.6%	29.1%	13.5%	5.6%	5.0%	24.2%	<b>182.2</b>
2413	Exeter WW	0.2%	83.0%	7.0%	4.9%	0.9%	2.2%	1.9%	<b>125.4</b>
2417	Royersford WW	0.5%	83.0%	4.2%	12.2%	0.0%	0.0%	0.2%	<b>13.7</b>
2419	Kane WW	12.1%	58.5%	24.1%	1.0%	3.8%	0.5%	0.0%	<b>48.4</b>
2426	Claysville WW	1.9%	82.9%	15.2%	0.0%	0.0%	0.0%	0.0%	<b>11.4</b>
2435	Koppel WW	0.0%	74.8%	11.6%	13.6%	0.0%	0.0%	0.0%	<b>5.1</b>
2436	Marcel Lakes WW	48.2%	45.9%	5.9%	0.0%	0.0%	0.0%	0.0%	<b>11.2</b>
2437	Franklin WW*	0.0%	85.4%	12.6%	0.0%	0.0%	0.0%	2.0%	<b>13.1</b>
2437	*includes Hamiltonban								
2438	Paint Elk WW*	10.5%	86.8%	0.9%	1.1%	0.0%	0.0%	0.7%	<b>21.1</b>
2438	*includes Shippenville								
2447	Clarion WW	1.7%	75.1%	13.9%	5.4%	0.9%	0.9%	2.1%	<b>46.2</b>
2458	Pocono County Place WW	32.8%	58.3%	2.6%	5.5%	0.3%	0.2%	0.3%	<b>47.4</b>
2460	Fairview WW - North	2.3%	87.4%	9.6%	0.0%	0.7%	0.0%	0.0%	<b>35.3</b>
2460	Fairview WW - South	0.0%	97.3%	2.7%	0.0%	0.0%	0.0%	0.0%	<b>39.8</b>
2467	Coatesville WW*	6.4%	44.5%	5.4%	4.1%	0.9%	1.0%	37.8%	<b>148.1</b>
2467	*includes Sadsbury & Valley								
2469	Blue Mountain Lake WW	82.3%	17.7%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.9</b>
2469	Lehman Pike WW - Saw Creek	83.1%	13.8%	3.1%	0.0%	0.0%	0.0%	0.0%	<b>50.5</b>
2469	Delaware WW (Wild Acres)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	<b>5.8</b>
2485	McEwensville WW	5.3%	78.7%	11.6%	0.0%	0.0%	0.0%	4.3%	<b>2.6</b>
2487	New Cumberland WW	0.4%	84.5%	10.0%	4.7%	0.2%	0.2%	0.0%	<b>28.7</b>
2489	Turbotville WW	1.2%	98.8%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.1</b>
2492	Scranton WW	0.1%	40.3%	33.3%	11.1%	6.4%	6.4%	2.4%	<b>331.1</b>
<b>TOTAL (MI)</b>		<b>94.0</b>	<b>603.6</b>	<b>214.0</b>	<b>83.3</b>	<b>36.4</b>	<b>35.2</b>	<b>117.9</b>	<b>1,184.3</b>

## TOTAL LENGTH BY MATERIAL (MI)

		TOTAL LENGTH BY MATERIAL (MI)																	
DISTRICT CODE	DISTRICT	ABS	AC/TR	Brick	CIL	CIU	COBBLESTONE	DI	HDPE	PCCP	PE	PVC	RCP	ST	STONE	VCP	OTH	UNKNOWN	TOTAL (MI)
2412	McKeesport WW	0.0	0.0	0.2	1.4	66.6	0.0	0.3	0.0	0.0	0.2	13.3	7.7	0.0	0.0	84.2	2.4	5.9	182.2
2413	Exeter WW	0.0	0.3	0.0	0.0	1.8	0.0	0.1	0.0	0.0	0.0	56.3	0.0	0.0	0.0	57.4	0.0	9.4	125.4
2417	Royersford WW	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	13.7
2419	Kane WW	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.0	24.7	48.4
2426	Claysville WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	11.4
2435	Koppel WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	3.7	0.0	0.0	5.1
2436	Marcel Lakes WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	11.2
2437	Franklin WW*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	1.7	0.0	0.0	13.1
2437	*includes Hamiltonban																		
2438	Paint Elk WW*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	0.0	0.0	15.4	0.0	0.0	0.0	2.0	0.0	2.0	21.1
2438	*includes Shipperville																		
2447	Clarion WW	1.0	0.0	0.0	0.4	0.0	0.0	1.2	5.8	0.0	0.1	17.6	0.0	0.0	0.0	11.2	0.0	8.8	46.2
2458	Pocono County Place WW	23.8	0.1	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	22.3	0.4	0.0	0.0	0.0	0.0	0.0	47.4
2460	Fairview WW - North	0.0	9.3	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.0	20.6	0.0	0.0	0.0	4.2	0.0	0.0	35.3
2460	Fairview WW - South	0.0	2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	37.0	0.0	0.0	0.0	0.2	0.0	0.0	39.8
2467	Coatesville WW*	0.0	0.0	0.0	0.3	0.1	0.0	0.6	2.7	0.0	0.4	54.8	0.3	0.0	0.0	23.1	0.0	65.8	148.1
2467	*includes Sadsbury & Valley																		
2469	Blue Mountain Lake WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
2469	Lehman Pike WW - Saw Creek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	16.1	0.0	0.0	0.0	0.0	0.0	0.0	50.5
2469	Delaware WW (Wild Acres)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
2485	McEwensville WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6
2487	New Cumberland WW	0.0	0.0	0.0	1.0	0.0	0.0	0.3	0.0	0.0	0.0	2.0	0.1	0.0	0.0	25.3	0.0	0.1	28.7
2489	Turbotville WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.3	0.0	0.0	0.0	0.3	0.0	0.0	4.1
2492	Scranton WW	0.1	0.0	4.5	0.2	0.2	0.5	0.4	0.3	0.1	0.2	18.4	9.7	0.0	0.1	112.1	0.7	183.5	331.1
	<b>TOTAL (MI)</b>	<b>24.9</b>	<b>12.3</b>	<b>4.7</b>	<b>4.3</b>	<b>69.4</b>	<b>0.5</b>	<b>3.7</b>	<b>15.3</b>	<b>0.1</b>	<b>38.7</b>	<b>344.7</b>	<b>18.2</b>	<b>0.0</b>	<b>0.1</b>	<b>325.4</b>	<b>3.1</b>	<b>318.9</b>	<b>1,184.3</b>

**NOTE:**

1) 'OTH' material includes, but is not limited to, Corrugated Metal Pipe, Corrugated Plastic Pipe, and Corrugated Polyethylene Pipe.

## TOTAL LENGTH BY MATERIAL (%)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY MATERIAL (MI)																	TOTAL (MI)
		ABS	AC/TR	Brick	CIL	CIU	COBBLESTONE	DI	HDPE	PCCP	PE	PVC	RCP	ST	STONE	VCP	OTH	UNKNOWN	
2412	McKeesport WW	0.0%	0.0%	0.1%	0.8%	36.5%	0.0%	0.2%	0.0%	0.0%	0.1%	7.3%	4.2%	0.0%	0.0%	46.2%	1.3%	3.2%	182.2
2413	Exeter WW	0.0%	0.3%	0.0%	0.0%	1.4%	0.0%	0.1%	0.0%	0.0%	0.0%	44.9%	0.0%	0.0%	0.0%	45.8%	0.0%	7.5%	125.4
2417	Royersford WW	0.0%	0.0%	0.0%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.8%	13.7
2419	Kane WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	48.5%	0.0%	0.0%	0.0%	0.0%	0.0%	51.1%	48.4
2426	Claysville WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4
2435	Koppel WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	26.5%	0.0%	0.0%	0.0%	73.2%	0.0%	0.0%	5.1
2436	Marcel Lakes WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.2
2437	Franklin WW*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	87.3%	0.0%	0.0%	0.0%	12.7%	0.0%	0.0%	13.1
2437	*includes Hamiltonban																		
2438	Paint Elk WW*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	7.4%	0.0%	0.0%	73.0%	0.0%	0.0%	0.0%	9.6%	0.0%	9.7%	21.1
2438	*includes Shipperville																		
2447	Clarion WW	2.3%	0.0%	0.0%	0.9%	0.0%	0.0%	2.7%	12.5%	0.0%	0.2%	38.1%	0.1%	0.0%	0.0%	24.2%	0.0%	19.0%	46.2
2458	Pocono County Place WW	50.2%	0.1%	0.0%	0.0%	1.3%	0.0%	0.5%	0.0%	0.0%	0.0%	47.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	47.4
2460	Fairview WW - North	0.0%	26.5%	0.0%	0.0%	0.0%	0.0%	0.6%	2.6%	0.0%	0.0%	58.4%	0.0%	0.0%	0.0%	11.9%	0.0%	0.0%	35.3
2460	Fairview WW - South	0.0%	6.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	39.8
2467	Coatesville WW*	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%	0.4%	1.8%	0.0%	0.3%	37.0%	0.2%	0.0%	0.0%	15.6%	0.0%	44.4%	148.1
2467	*includes Sadsbury & Valley																		
2469	Blue Mountain Lake WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.7%	0.0%	0.0%	69.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.9
2469	Lehman Pike WW - Saw Creek	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	68.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.5
2469	Delaware WW (Wild Acres)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	5.8
2485	McEwensville WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6
2487	New Cumberland WW	0.0%	0.0%	0.0%	3.4%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	7.0%	0.2%	0.0%	0.0%	88.1%	0.0%	0.2%	28.7
2489	Turbotville WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.4%	6.7%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	4.1
2492	Scranton WW	0.0%	0.0%	1.4%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	5.6%	2.9%	0.0%	0.0%	33.9%	0.2%	55.4%	331.1
	<b>TOTAL (MI)</b>	<b>24.9</b>	<b>12.3</b>	<b>4.7</b>	<b>4.3</b>	<b>69.4</b>	<b>0.5</b>	<b>3.7</b>	<b>15.3</b>	<b>0.1</b>	<b>38.7</b>	<b>344.7</b>	<b>18.2</b>	<b>0.0</b>	<b>0.1</b>	<b>325.4</b>	<b>3.1</b>	<b>318.9</b>	<b>1,184.3</b>

## REPLACED QUANTITY VS. REHABILITATED QUANTITY

District	Funding Project Number	Description:	Installed Quantity	Replaced Quantity		Rehabilitated Quantity		Capital Investment 2021
<b>Clarion WW</b>								
47	R24-47B1	Sewer line replacement projects (including manholes and laterals)	4,236	2,206	ft	2,030	ft	\$1,223,758
47	R24-47C1	Emergency sewer main replacement work.	8	8	ft			\$31,593
47	R24-47D1	Carry over cost for Sewer line relocation projects from a prior year	0	0	ft			\$102,037
47	R24-47F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	42	42				\$28,956
47	R24-47H1	Lateral replacements at locations determined to be deficient during annual inspection program.	48	48				\$34,866
47	R24-47Q1	Process Plant Facilities and Equip - Lift Stations						
<b>47 Total</b>		<b>Clarion WW</b>	<b>4,244</b>	<b>2,214</b>		<b>2,030</b>	<b>ft</b>	<b>\$1,421,210</b>
<b>Pocono WW</b>								
58	R24-58B1	Carry over cost for Sewer line replacement projects from prior year	0	0	ft	0	ft	\$205,243
58	R24-58C1	Credit for Overstated Emergency sewer main replacement work from prior year.	0				ft	(\$65)
58	R24-58H1	Lateral replacements at locations determined to be deficient during annual inspection program.	26	26				\$65,604
<b>58 Total</b>		<b>Pocono WW</b>	<b>0</b>	<b>0</b>	<b>ft</b>	<b>0</b>	<b>ft</b>	<b>\$270,782</b>
<b>Coatesville WW</b>								
67	R24-67B1	Sewer line replacement projects (including manholes and laterals)	4,910	3,527	ft	1,383	ft	\$1,576,003
67	R24-67C1	Emergency sewer main replacement work.	18	18			ft	\$73,411
67	R24-67F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program.	9	9				\$32,446
67	R24-67H1	Lateral replacements at locations determined to be deficient during annual inspection program.	78	78				\$195,225
67	carry over	West End Trunk Line Phase3-6						\$33,529
<b>67 Total</b>		<b>Coatesville WW</b>	<b>4,928</b>	<b>3,545</b>	<b>ft</b>	<b>1,383</b>	<b>ft</b>	<b>\$1,910,615</b>
<b>Lehman Pike WW</b>								
69	R24-69B1	Sewer line replacement projects (including manholes and laterals)	0	0	ft	0	ft	\$0
69	R24-69C1	Emergency sewer main replacement work.	7	7	ft		ft	\$28,727
69	R24-69F1	Valve replacements at locations determined to be deficient	1	1				\$569
69	R24-69H1	Lateral replacement project	125	125				\$314,139
<b>69 Total</b>		<b>Lehman Pike WW</b>	<b>7</b>	<b>7</b>	<b>ft</b>	<b>0</b>	<b>ft</b>	<b>\$343,436</b>
<b>Scranton WW</b>								
92	R24-92B1	Sewer line replacement projects (including manholes and laterals)	11,432	5,050	ft	6,382	ft	\$5,604,400
92	R24-92C1	Emergency sewer main replacement work.	566	566	ft			\$2,338,653
92	R24-92D1	Sewer line relocation projects (including manholes and laterals)	0	0	ft			\$0
92	R24-92F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	409	409				\$1,446,495

REPLACED QUANTITY VS. REHABILITATED QUANTITY

District	Funding Project Number	Description:	Installed Quantity	Replaced Quantity		Rehabilitated Quantity		Capital Investment 2021
92	R24-92H1	Lateral replacements at locations determined to be deficient during annual inspection program.	323	323				\$847,875
92	carry over	Outfall #022 - Washburn Street						\$1,418,986
92	carry over	misc projects						\$1,649,158
<b>92 Total</b>	<b>Scranton WW</b>		<b>11,998</b>	<b>5,616</b>	<b>ft</b>	<b>6,382</b>	<b>ft</b>	<b>\$13,305,567</b>
<b>McKeesport WW</b>								
12	I24-120014	4KK Spring St	789	789	ft	0	ft	\$949,407
12	R24-12B1	Sewer line replacement projects (including manholes and laterals)	4,720	354	ft	4,366	ft	\$1,504,384
12	R24-12C1	Emergency sewer main replacement work.	238	238	ft			\$954,319
12	R24-12D1	Sewer line relocation projects (including manholes and laterals)	995	995	ft			\$1,181,673
12	R24-12F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	96	96				\$389,265
12	R24-12H1	Lateral replacements at locations determined to be deficient during annual inspection program.	5	5				\$11,388
12	carry over	misc projects						(\$5,553)
<b>12 Total</b>	<b>McKeesport WW</b>		<b>6,743</b>				<b>ft</b>	<b>\$4,984,883</b>
<b>FRANKLIN WW</b>								
83	R24-83B1	Sewer line replacement projects (including manholes and laterals)	6,501	0	ft	6,501	ft	\$439,208
<b>83 Total</b>	<b>FRANKLIN WW</b>		<b>6,501</b>	<b>0</b>	<b>ft</b>	<b>6,501</b>	<b>ft</b>	<b>\$439,208</b>
<b>McEwensville WW</b>								
85	R24-85F1	Carry over cost for Manhole replacements from prior year		0	ft	0	ft	\$180
<b>85 Total</b>	<b>McEwensville WW</b>			<b>0</b>	<b>ft</b>	<b>0</b>	<b>ft</b>	<b>\$180</b>
<b>New Cumberland WW</b>								
87	R24-87B1	Sewer line replacement projects (including manholes and laterals)	23,797	0	ft	23,797	ft	\$1,332,462
87	R24-87C1	Emergency sewer main replacement work.	10	10	ft			\$40,503
87	R24-87H1	Lateral replacements at locations determined to be deficient during annual inspection program.	9	9				\$22,970
87	carry over	misc projects						\$281
<b>87 Total</b>	<b>New Cumberland WW</b>		<b>23,807</b>	<b>10</b>	<b>ft</b>	<b>23,797</b>	<b>ft</b>	<b>\$1,396,216</b>
<b>Koppel WW</b>								
35	R24-35B1	Sewer line replacement projects (including manholes and laterals)	3,305	3,305	ft	0	ft	\$1,186,893
35	R24-35F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program.	15	15				\$63
35	R24-35H1	Lateral replacements at locations determined to be deficient during annual inspection program.	40	40				(\$419)
35	carry over	misc projects						(\$38,017)

REPLACED QUANTITY VS. REHABILITATED QUANTITY

District	Funding Project Number		Description:	Installed Quantity	Replaced Quantity		Rehabilitated Quantity		Capital Investment 2021
<b>35 Total</b>		<b>Koppel WW</b>		<b>3,305</b>	<b>3,305</b>	<b>ft</b>	<b>0</b>	<b>ft</b>	<b>\$1,148,520</b>
<b>Fairview WW</b>									
60	R24-60B1		Sewer line replacement projects (including manholes and laterals)	5,752	0	ft	5,752	ft	\$270,593
60	R24-60C1		Emergency sewer main replacement work.	1	1	ft		ft	\$3,589
60	R24-60F1		Valve replacements at locations determined to be deficient	1	1				\$1,336
60	R24-60H1		Lateral replacements at locations determined to be deficient during annual inspection program.	1	1				\$2,423
<b>60 Total</b>	<b>Fairview WW</b>			<b>5,753</b>	<b>1</b>	<b>ft</b>	<b>5,752</b>	<b>ft</b>	<b>\$277,941</b>
<b>Paint Elk TWP WW</b>									
38	R24-38B1		Sewer line replacement projects (including manholes and laterals)	1,074	1,074	ft	0	ft	\$92,268
38	carry over		misc projects						\$3,493
<b>38 Total</b>	<b>Paint Elk TWP WW</b>			<b>1,074</b>	<b>1,074</b>	<b>ft</b>	<b>0</b>	<b>ft</b>	<b>\$95,761</b>
<b>Total</b>				<b>68,360</b>					<b>\$25,594,318</b>

Pennsylvania-American Water Company's Responses to the  
Bureau of Technical Utility Services  
Reliability and Emergency Preparedness Division  
Data Request Set 1


Docket No. M-2022-3031196

2021 Wastewater Annual Asset Optimization Plan

VERIFICATION

I, Bruce Aiton, hereby state that the facts set forth in the foregoing responses to the data requests from the Bureau of Technical Utility Services dated April 12, 2022, are true and correct to the best of my knowledge, information, and belief, and that I expect to be able to prove the same at a hearing if held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 26, 2022



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Bruce Aiton  
Vice President - Engineering

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

The Pennsylvania-American Water Company – Wastewater Division 2021 Annual Asset Optimization Plan	:	Docket No. M-2022-3031196
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**CERTIFICATE OF SERVICE**

I hereby certify that I have this day served a true copy of **Pennsylvania-American Water Company's Responses to the Bureau of Technical Utility Services Data Request Set 1**, upon the parties listed below, in the manner specified below, in accordance with the requirements of 52 Pa. Code § 1.54:


**VIA Electronic Delivery**

Richard A. Kanaskie  
Director and Chief Prosecutor  
PA Public Utility Commission  
Bureau of Investigation and Enforcement  
400 North Street, 2<sup>nd</sup> Floor West  
Harrisburg, PA 17120  
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Date: April 26, 2022

  
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