



Susan Simms Marsh

Deputy General Counsel

852 Wesley Drive | Mechanicsburg, PA 17055

Phone: 717-550-1570 | Fax: 717-550-1255

E susan.marsh@amwater.com

VIA eFiling

April 12, 2021

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
2020 Annual Asset Optimization Plan
Docket Nos. M-2021-3024340 and P-2014-2431005

Dear Secretary Chiavetta:

Enclosed are Pennsylvania-American Water Company's responses and accompanying attachments to the Bureau of Technical Utility Services' Data Request Set 1 dated March 29, 2021, regarding the above-referenced Plan.

If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Susan Simms Marsh".

Susan Simms Marsh

Enclosures

cc: Ken Shaffer, Bureau of Technical Utility Services w/Enc. **VIA** Email

**Pennsylvania-American Water Company's Responses to
the Bureau of Technical Utility Services
Data Request Set 1**

**Pennsylvania-American Water Company 2020 Annual Asset Optimization Plan at
Docket Nos. M-2021-3024340 and referenced at P-2014-2431005**

M-1. The Commission's Order entered April 16, 2020, at Docket No. P-2014-2431005, Ordering Paragraph No. 2, directed that beginning in 2020 Pennsylvania-American Water Company – Wastewater Division's (PAWC-WD's) Annual Asset Optimization Plan (AAOP) shall include: updated information on its pipeline materials and diameters for all its wastewater systems; detailed information on the amount of sewer pipe that is replaced or rehabilitated each year; a baseline and update on the progress of the inflow and infiltration (I&I) reduction for each of its wastewater systems. Please provide the following information for the 2020 calendar year:

- a. Updated information on PAWC-WD's pipeline materials and diameters for all of its wastewater systems.

Response: Please see *Main by Material (mi)* and *Main by Diameter (mi)* at TUS-01-M-1_Attachments 1 and 2.

- b. Detailed information on the amount of sewer pipe that was replaced or rehabilitated each year (it is not clear in the AAOP if all of the amounts of sewer pipes listed were fully replaced, or were rehabilitated though slip lining, etc.).

Response: Please see *Relined and Replaced* at TUS-01-M-1_Attachment 3.

- c. A baseline and update on the progress of the I&I reduction for each of PAWC-WD's wastewater systems.

Response: A precise measure of I&I reduction is not possible. While there are inflow meters at the WWTP, the variation in weather events changes the rate of flow to the plant. Over a period of years, reductions in I&I can be measured as a trend but specific year-over-year changes due to renewal of pipe are theoretical at best.

Name: Bruce Aiton
Title: Vice President – Engineering

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	UNKNOWN	
2412	McKeesport WW	0.0	0.0	0.4	1.4	68.2	0.0	0.3	0.0	0.0	0.3	11.9	6.2	0.0	0.0	70.9	18.9	178.4
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	1.3	0.3	0.0	57.4	5.7	121.7
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	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	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	1.8	0.0	0.0	0.0	3.7	0.0	5.6
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	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	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	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	17.2	0.0	0.0	0.0	11.0	8.8	45.5
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	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	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	39.8
2467	Coatesville WW*	0.0	0.0	0.0	0.0	0.1	0.0	0.5	2.4	0.0	0.4	50.7	0.3	0.0	0.0	23.2	25.6	103.3
2467	*includes Sadsbury																	
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	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	50.5
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	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	0.1	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	4.1
2492	Scranton WW	0.0	0.0	4.6	0.2	0.2	0.6	0.4	0.3	0.1	0.1	12.9	13.2	0.0	0.1	166.4	131.5	330.6
TOTAL (MI)		24.8	12.3	5.0	3.1	71.0	0.6	3.6	15.0	0.1	38.7	333.7	21.4	0.3	0.1	366.3	217.2	1,111.7

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	31.1	31.6	23.1	9.5	7.7	75.4	178.4
2413	Exeter WW	0.1	101.6	8.8	6.1	1.1	2.8	1.3	121.7
2419	Kane WW	5.9	28.3	11.6	0.5	1.8	0.2	0.0	48.4
2426	Claysville WW	0.2	9.5	1.7	0.0	0.0	0.0	0.0	11.4
2435	Koppel WW	0.0	4.3	0.6	0.7	0.0	0.0	0.0	5.6
2436	Marcel Lakes WW	5.4	5.2	0.7	0.0	0.0	0.0	0.0	11.2
2437	Franklin WW*	0.0	11.2	1.7	0.0	0.0	0.0	0.3	13.1
2437	*includes Hamiltonban								
2438	Paint Elk WW*	2.2	18.3	0.2	0.2	0.0	0.0	0.2	21.1
2438	*includes Shipperville								
2447	Clarion WW	0.8	34.8	6.3	1.9	0.4	0.4	1.0	45.5
2458	Pocono County Place WW	15.6	27.7	1.2	2.6	0.2	0.1	0.2	47.4
2460	Fairview WW - North	0.8	30.9	3.4	0.0	0.2	0.0	0.0	35.3
2460	Fairview WW - South	0.0	38.7	1.1	0.0	0.0	0.0	0.0	39.8
2467	Coatesville WW*	7.0	63.1	6.3	5.1	1.0	1.4	19.2	103.3
2467	*includes Sadsbury								
2469	Blue Mountain Lake WW	10.6	2.3	0.0	0.0	0.0	0.0	0.0	12.9
2469	Lehman Pike WW - Saw Creek	42.0	7.0	1.6	0.0	0.0	0.0	0.0	50.5
2485	McEwensville WW	0.1	2.1	0.3	0.0	0.0	0.0	0.1	2.6
2487	New Cumberland WW	0.1	24.3	2.9	1.4	0.1	0.1	0.0	28.7
2489	Turbotville WW	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.1
2492	Scranton WW	0.4	135.8	107.1	34.7	20.9	18.1	13.5	330.6
TOTAL (MI)		91.3	579.9	187.0	76.3	35.3	30.8	111.1	1,111.6

District	Funding Project Number		Description:	Relined	Replaced	Installed Quantity	Capital Investment 2020
Clarion WW							
47	R24-47B1		Sewer line replacement projects (including manholes and laterals)		2,538	2,538 ft	\$1,145,754.28
47	R24-47C1		Emergency sewer main replacement work.			ft	\$212.12
47	R24-47D1		Sewer line relocation projects (including manholes and laterals)		1,100	1,100 ft	\$185,700.93
47	R24-47F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$60,504.93
47	R24-47H1		Lateral replacements at locations determined to be deficient during annual inspection program.				\$13,557.94
47	R24-47Q1		Process Plant Facilities and Equip - Lift Stations				
47 Total		Clarion WW				3,638 ft	\$1,405,730.20
Pocono WW							
58	R24-58B1		Sewer line replacement projects (including manholes and laterals)		2,634	2,634 ft	\$441,158.50
58	R24-58C1		Emergency sewer main replacement work.				\$302.43
58	R24-58F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$40.92
58	R24-58H1		Lateral replacements at locations determined to be deficient during annual inspection program.			16	\$40,582.60
58 Total		Pocono WW				2,634 ft	\$482,084.45
Coatesville WW							
67	R24-67B1		Sewer line replacement projects (including manholes and laterals)	256	4,953	5,209 ft	\$1,602,361.17
67	R24-67C1		Emergency sewer main replacement work.		128	128 ft	\$70,983.83
67	R24-67F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$168.70
67	R24-67H1		Lateral replacements at locations determined to be deficient during annual inspection program.				\$161,265.62
67	carry over		West End Trunk Line Phase3-6		57	57	\$276,049.23
67 Total		Coatesville WW				5,337 ft	\$2,110,828.55

Lehman Pike WW							
69	R24-69B1		Sewer line replacement projects (including manholes and laterals)				(\$82,674.14)
69	R24-69C1		Emergency sewer main replacement work.		41	41 ft	\$21,538.29
69	R24-69F1		Valve replacements at locations determined to be deficient				\$37.70
69	R24-69H1		Lateral replacement project		94	94	\$207,987.77
69 Total		Lehman Pike WW				41 ft	\$146,889.62
Scranton WW							
92	I24-920007		Outfall #022 - Washburn Street		602	602 ft	\$6,985,647.47
92	R24-92B1		Sewer line replacement projects (including manholes and laterals)	1949	5,890	7,839 ft	\$4,616,365.54
92	R24-92C1		Emergency sewer main replacement work.		482	482 ft	\$1,447,281.23
92	R24-92D1		Sewer line relocation projects (including manholes and laterals)			ft	\$5,854.94
92	R24-92F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.			101	\$337,075.05
92	R24-92H1		Lateral replacements at locations determined to be deficient during annual inspection program.			260	\$731,271.76
92	carry over		misc projects				\$355,486.87
92 Total		Scranton WW				8,923 ft	\$14,478,982.86
McKeesport WW							
12	R24-12B1		Sewer line replacement projects (including manholes and laterals)	15,193	3,171	18,364 ft	\$5,671,506.93
12	R24-12C1		Lateral replacements at locations determined to be deficient during annual inspection program.				\$773,105.43
12	R24-12F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$855,719.68
12	carry over		misc projects				(\$125,026.98)
12 Total		McKeesport WW				18,364 ft	\$7,175,305.06
FRANKLIN WW							

83	R24-83H1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$654.87
83 Total		FRANKLIN WW					\$654.87
McEwensville WW							
85	R24-85F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.				\$1,764.00
85 Total		McEwensville WW					\$1,764.00
New Cumberland WW							
87	R24-87C1		Emergency sewer main replacement work.	15	15 ft		\$35,495.52
87	R24-87H1		Lateral replacements at locations determined to be deficient during annual inspection program.		7		\$18,534.65
87 Total		New Cumberland WW			15 ft		\$54,030.17
Koppel WW							
35	R24-35B1		Sewer line replacement projects (including manholes and laterals)	1800	1,800 ft		\$858,030.58
35	R24-35C1		Emergency sewer main replacement work.	44	44 ft		\$28,050.90
35	R24-35D1		Sewer line relocation projects (including manholes and laterals)	120	120 ft		\$59,520.14
35	R24-35F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program.				\$39,517.87
35	R24-35H1		Lateral replacements at locations determined to be deficient during annual inspection program.				\$8,367.42
35 Total		Koppel WW			1,964 ft		\$993,486.91
Fairview WW							
60	R24-60B1		Sewer line replacement projects (including manholes and laterals)		ft		(\$20,207.97)
60	R24-60C1		Emergency sewer main replacement work.	25	25 ft		\$12,536.46
60	R24-60F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program.				\$4,841.98

60	R24-60H1		Lateral replacements at locations determined to be deficient during annual inspection program.		5	5	\$12,618.61
60 Total		Fairview WW				25 ft	\$9,789.08
Paint Elk TWP WW							
38	R24-38B1		Sewer line replacement projects (including manholes and laterals)		1,568	1,568 ft	\$779,228.06
38	R24-38-C1		Emergency sewer main replacement work.			ft	\$311.86
38	R24-38H1		Lateral replacements at locations determined to be deficient during annual inspection program.				\$13,328.31
38 Total		Paint Elk TWP WW				1,568 ft	\$792,868.23
Total						42,509 ft	\$27,652,414.00

**Pennsylvania-American Water Company's Responses to
the Bureau of Technical Utility Services
Data Request Set 1**

**Pennsylvania-American Water Company 2020 Annual Asset Optimization Plan at
Docket Nos. M-2021-3024340 and referenced at P-2014-2431005**

VERIFICATION

I, Bruce Aiton, Vice President - Engineering of Pennsylvania-American Water Company, hereby state that the facts set forth in the foregoing responses to TUS Data Requests dated March 29, 2021, 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).

Dated:

4/12/2021



Bruce Aiton