

**Application of Pennsylvania-American Water Company for Acquisition of
the Wastewater Assets of Butler Area Sewer Authority (“BASA”)**

66 Pa. C.S. § 1329

Application Filing Checklist – Water/Wastewater

Docket No. A-2022-3037047

18. Rates.
- b. Provide a copy of the seller’s current rules and regulations for service.

AMENDED RESPONSE:

- b. See attached BASA’s current rules and regulations governing the provision of wastewater service marked as **Amended Appendix A-18-b**.

Amended Appendix A-18-b

COPY

BUTLER AREA SEWER AUTHORITY

125 PITTSBURGH RD. • BUTLER, PA 16001

412/282-1978

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MANAGER

June 14, 1991

Mr. Robert A. Croker
Director - Water Quality
Pennsylvania-American Water Company
800 West Hersheypark Drive
P. O. Box 888
Hershey, Pennsylvania 17033-0888

Dear Mr. Croker:

Re: Oneida Valley Water Treatment Plant
Suspended Solids Surcharge Rate

Per the Pennsylvania-American Water Company's request, the Authority has determined and established the suspended solids surcharge rate applicable to the sludge and filter backwash wastewater discharges from the Oneida Valley Water Treatment Plant to the Authority's sewerage system. Effective July 1, 1991, the Authority's 1991/1992 suspended solids surcharge rate is \$0.315 per pound of suspended solids in excess of the maximum 350 mg/L suspended solids concentration allowed under the Authority's Sewer Use Rules and Regulations.

Please be advised that the Authority will commence billing Pennsylvania-American Water Company (PAWC) for this suspended solids surcharge cost on a monthly basis beginning July 1, 1991. The suspended solids surcharge cost will be assessed in addition to the normal sewage service charges currently paid by PAWC. In accordance with the Authority's Rules and Regulations, the surcharge cost will be determined based upon the actual monthly wastewater discharge flows and discharge sampling and analyses reported by PAWC or monitoring and analyses conducted by the Authority. Utilizing the April 1991 discharge monitoring data submitted by PAWC as an example, the suspended solids surcharge cost will be determined as shown in Table 1 attached hereto.

The actual amount of the monthly suspended solids surcharge will vary depending upon the actual characteristics and volume of the PAWC's wastewater discharges to the Authority's sewer system. The extreme variability of the wastewater discharge characteristics based on PAWC's analyses will make it difficult for PAWC to budget for the suspended solids surcharge cost. The extreme variability also reemphasizes the need and permit requirement for the PAWC to equalize the wastewater discharges to the Authority's sewer system, including the filter backwash discharges.

Table 2 summarizes the available suspended solids analyses of PAWC's wastewater discharges and calculation of the estimated annual surcharge cost based on the average discharge concentrations. Based on the average discharge concentration using a limited number of samples,

the estimated annual suspended solids surcharge cost would be about \$55,900 per year. However, the annual suspended solids surcharge cost could vary from \$4,000 to \$134,000 per year based on the minimum and maximum discharge concentrations reported by PAWC.

If you should have any questions regarding the calculation of the suspended solids surcharge cost, please call me at (412) 282-1978.

Very truly yours,

BUTLER AREA SEWER AUTHORITY

William D. Rice, Manager

cc: J. A. Orlando, PAWC
A. L. Reeder, PAWC
A. R. Shouey, PAWC

TABLE 1

**EXAMPLE SUSPENDED SOLIDS SURCHARGE CALCULATION
BASED ON APRIL 1991 PAWC DISCHARGE MONITORING REPORT**

APRIL 1991 SUSPENDED SOLIDS (SS) SURCHARGE**A: SLUDGE BLOWDOWN DISCHARGE**

Total Discharge Flow = 6,350 gal/day X 30 days = 190,500 gals = 0.1905 mil gal

Suspended Solids Concentration:

| | | | |
|----------------------------|---|-------|---------|
| 4/4 PAWC Composite Sample | = | 450 | mg/L SS |
| 4/15 PAWC Composite Sample | = | 1,810 | mg/L SS |
| Average | = | 1,130 | mg/L SS |

Excess lbs SS = 0.1905 mil gal X 8.34 X (1,130 mg/L SS - 350 mg/L SS)
= 1,239 lbs SS Excess

B: FILTER BACKWASH DISCHARGE

Total Discharge Flow = 8 batches X 40,000 gal/batch = 320,000 gals = 0.320 mil gal

Suspended Solids Concentration:

| | | | |
|----------------------------|---|-------|---------|
| 4/12 PAWC Composite Sample | = | 5,900 | mg/L SS |
| 4/15 PAWC Composite Sample | = | 1,860 | mg/L SS |
| Average | = | 3,880 | mg/L SS |

Excess lbs SS = 0.320 mil gal X 8.34 X (3,880 mg/L SS - 350 mg/L SS)
= 9,421 lbs SS Excess

C. SUSPENDED SOLIDS SURCHARGE

SS Surcharge Rate = \$0.315/lb Excess SS

Total Excess lbs SS = 1,239 + 9,421 = 10,659 lbs SS Excess

Monthly SS Surcharge Cost = 10,659 lbs SS Excess X \$0.315/lbs SS Excess = \$3,3576.58

TABLE 2

**ESTIMATED ANNUAL SUSPENDED SOLIDS SURCHARGE
BASED ON AVAILABLE DISCHARGE MONITORING DATA**

ESTIMATED ANNUAL SUSPENDED SOLIDS (SS) SURCHARGE**A: SLUDGE BLOWDOWN DISCHARGE**

Total Discharge Flow = 6,350 gal/day X 365 days = 2,318,000 gals = 2.318 mil gal

Suspended Solids Concentration:

| | | | | |
|----------|-----------------------|---|-------|---------|
| 10/3/90 | BASA Composite Sample | = | 4,900 | mg/L SS |
| 12/31/90 | BASA Composite Sample | = | 3,500 | mg/L SS |
| 9/27/90 | PAWC Composite Sample | = | 6,980 | mg/L SS |
| 2/25/91 | PAWC Composite Sample | = | 980 | mg/L SS |
| 3/12/91 | PAWC Composite Sample | = | 3,240 | mg/L SS |
| 3/19/91 | PAWC Composite Sample | = | 2,640 | mg/L SS |
| 4/4/91 | PAWC Composite Sample | = | 450 | mg/L SS |
| 4/15/91 | PAWC Composite Sample | = | 1,810 | mg/L SS |
| | Average | = | 3,063 | mg/L SS |

Excess lbs SS = 2.318 mil gal X 8.34 X (3,063 mg/L SS - 350 mg/L SS)
= 52,450 lbs SS Excess

B: FILTER BACKWASH DISCHARGE

Total Discharge Flow = 120 batches* X 40,000 gal/batch = 4,800,000 gals = 4.80 mil gal

* Assumes 10 batches per month.

Suspended Solids Concentration:

| | | | | |
|---------|-----------------------|---|-------|---------|
| 10/3/90 | PAWC Composite Sample | = | 1,740 | mg/L SS |
| 2/25/91 | PAWC Composite Sample | = | 642 | mg/L SS |
| 3/14/91 | PAWC Composite Sample | = | 7,760 | mg/L SS |
| 3/20/91 | PAWC Composite Sample | = | 2,910 | mg/L SS |
| 4/12/91 | PAWC Composite Sample | = | 5,900 | mg/L SS |
| 4/15/91 | PAWC Composite Sample | = | 1,860 | mg/L SS |
| | Average | = | 3,470 | mg/L SS |

Excess lbs SS = 4.80 mil gal X 8.34 X (3,470 mg/L SS - 350 mg/L SS)
= 124,900 lbs SS Excess

C. SUSPENDED SOLIDS SURCHARGE

SS Surcharge Rate = \$0.315/lb Excess SS

Total Excess lbs SS = 52,450 + 124,900 = 177,350 lbs SS Excess

Annual SS Surcharge Cost = 177,350 lbs SS Excess X \$0.315/lbs SS Excess = \$55,865