

**EASTON AREA JOINT SEWER AUTHORITY
COMMONWEALTH OF PENNSYLVANIA**

RESOLUTION #2025-05-19A

**RESOLUTION APPROVING AN UPDATED
HIGH STRENGTH WASTE SURCHARGE FEE**

WHEREAS, the Easton Area Joint Sewer Authority (the "Authority") is a body corporate and politic organized and operated under the provisions of the Pennsylvania Municipality Authorities Act, 53 Pa. C.S. §5601 et seq., as amended (the "Act");

WHEREAS, the Authority imposes a high strength waste surcharge fee, using a method consisting of a combination of capital basis treatment cost allocations and functional treatment costs allocation;

WHEREAS, the Authority Board reviews and updates the high strength waste surcharge fee from time to time based on the Authority's annual audit, Chapter 94 Report, and sewage treatment costs data, the evaluation by the Authority's Consulting Engineer and recommendation of the Authority's Engineering Committee; and

WHEREAS, based on the forgoing, the Authority Board has determined that an update to the current high strength waste surcharge fee is necessary and appropriate.

NOW, THEREFORE, BE IT RESOLVED by the Board of the Easton Area Join Sewer Authority as follows:

1. The Authority's high strength waste surcharge fee shall be determined, where appropriate, by using the attached Table I - 2023 Allocation of Operation and Maintenance and Capital Costs and the attached Table II - Surcharge Program Cost Update Based on 2023 Data which includes the updated surcharge formula.

2. The updated high strength waste surcharge fee shall be effective July 1, 2025.

3. All Resolutions or parts of Resolutions inconsistent with this Resolution are hereby repealed insofar, but only insofar, as the same are inconsistent herewith.


4. If any section, subsection, sentence, clause or phrase of this Resolution is, for any reason, held to be illegal or unconstitutional, such decision shall not affect the validity of the remaining portions of this Resolution.

ADOPTED this 19th day of May, 2025.

EASTON AREA JOINT SEWER AUTHORITY

By:


Robert Lammi, Board Chairman


Stephen Riegel, Secretary

(SEAL)

TABLE I
TO RESOLUTION

2023 Allocation of Operation and Maintenance and Capital Costs

(attached hereto)

TABLE 1
EASTON AREA JOINT SEWER AUTHORITY - SURCHARGE PROGRAM COSTS FOR YEAR 2023
ALLOCATION OF OPERATION & MAINTENANCE (O & M) AND CAPITAL COSTS

ITEM	Actual		Hydraulic Loading		BOD		Suspended Solids		NH3-N	
	2023	%	Amount	%	Amount	%	Amount	%	Amount	%
ANNUAL O & M COST ALLOCATION										
<u>Directly Allocable Costs</u>										
Salaries/Wages/Overtime	\$1,705,856.47	30.0	\$511,757	25.0	\$426,464	25.0	\$426,464	20.0	\$341,171	20.0
Health, Disability, Workers Comp, Other Benefits	\$504,149.00	30.0	\$151,245	25.0	\$126,037	25.0	\$126,037	20.0	\$100,830	20.0
FICA & Medicare	\$131,733.80	30.0	\$39,520	25.0	\$32,933	25.0	\$32,933	20.0	\$26,347	20.0
Pension Contributions	\$181,904.74	30.0	\$54,571	25.0	\$45,476	25.0	\$45,476	20.0	\$36,381	20.0
Training and Dues	\$12,075.11	30.0	\$3,623	25.0	\$3,019	25.0	\$3,019	20.0	\$2,415	20.0
Office/Lab/Cleaning Supplies & Management Svcs	\$45,693.53	30.0	\$13,708	25.0	\$11,423	25.0	\$11,423	20.0	\$9,139	20.0
Heating Fuel	\$39,538.49	30.0	\$11,862	25.0	\$9,885	25.0	\$9,885	20.0	\$7,908	20.0
Vehicle Fuel and Maintenance	\$8,144.31	30.0	\$2,443	25.0	\$2,036	25.0	\$2,036	20.0	\$1,629	20.0
Clothing and Safety Supplies	\$20,639.92	30.0	\$6,192	25.0	\$5,160	25.0	\$5,160	20.0	\$4,128	20.0
Auditing Services	\$0.00	30.0	\$0	25.0	\$0	25.0	\$0	20.0	\$0	20.0
Computer Maintenance and Payroll Services	\$16,094.49	30.0	\$4,828	25.0	\$4,024	25.0	\$4,024	20.0	\$3,219	20.0
Telephone	\$36,184.34	30.0	\$10,855	25.0	\$9,046	25.0	\$9,046	20.0	\$7,237	20.0
Engineering Services - Contract Lab	\$81,206.87	30.0	\$24,362	25.0	\$20,302	25.0	\$20,302	20.0	\$16,241	20.0
Indirect Costs - To Governmental Units	\$583,552.00	30.0	\$175,066	25.0	\$145,888	25.0	\$145,888	20.0	\$116,710	20.0
Repairs, Maintenance and Machinery	\$592,319.15	30.0	\$177,696	25.0	\$148,080	25.0	\$148,080	20.0	\$118,464	20.0
Insurances - Property, Casualty	\$215,458.67	30.0	\$64,638	25.0	\$53,865	25.0	\$53,865	20.0	\$43,092	20.0
Electricity	\$650,789.49	40.0	\$260,316	25.0	\$162,697	15.0	\$97,618	20.0	\$130,158	20.0
Water	\$45,607.51	30.0	\$13,682	25.0	\$11,402	25.0	\$11,402	20.0	\$9,122	20.0
Solid Waste	\$396,641.26	15.0	\$59,496	30.0	\$118,992	50.0	\$198,321	5.0	\$19,832	5.0
Chemicals	\$1,024,983.86	40.0	\$409,994	0.0	\$0	40.0	\$409,994	20.0	\$204,997	20.0
Subtotal - Directly Allocable Costs	\$6,292,573.01	31.7	\$1,995,853.05	21.2	\$1,336,729.35	28.0	\$1,760,972.20	19.1	\$1,199,018.41	

TABLE I
EASTON AREA JOINT SEWER AUTHORITY - SURCHARGE PROGRAM COSTS FOR YEAR 2023
ALLOCATION OF OPERATION & MAINTENANCE (O & M) AND CAPITAL COSTS (Continued)

Item	Actual		Hydraulic Loading		BOD		Suspended Solids		NH3-N	
	2023	%	Amount	%	Amount	%	Amount	%	Amount	
Indirectly Allocable Costs										
Solicitor Services/Outside Legal	\$50,392.00	31.7	\$15,983	21.2	\$10,705	28.0	\$14,102	19.1	\$9,602	
Board/Officer Compensation	\$10,575.00	31.7	\$3,354	21.2	\$2,246	28.0	\$2,959	19.1	\$2,015	
Administrative/Recording Secretary	\$1,800.00	31.7	\$571	21.2	\$382	28.0	\$504	19.1	\$343	
Auditor / CPA	\$16,600.00	31.7	\$5,265	21.2	\$3,526	28.0	\$4,645	19.1	\$3,163	
Accountant	\$24,023.00	31.7	\$7,620	21.2	\$5,103	28.0	\$6,723	19.1	\$4,577	
Administrative, Meeting, Office	\$32,459.00	31.7	\$10,295	21.2	\$6,895	28.0	\$9,084	19.1	\$6,185	
Fringe Benefits	\$1,202.00	31.7	\$381	21.2	\$255	28.0	\$336	19.1	\$229	
Consulting Engineer- General Services	\$69,527.00	31.7	\$22,052	21.2	\$14,770	28.0	\$19,457	19.1	\$13,248	
Consulting Engineer- Pretreatment Services	\$12,000.00	31.7	\$3,806	21.2	\$2,549	28.0	\$3,358	19.1	\$2,287	
Pretreatment Data Management & Consulting	\$34,072.00	31.7	\$10,807	21.2	\$7,238	28.0	\$9,535	19.1	\$6,492	
Contract Lab Services	\$89,019.00	31.7	\$28,235	21.2	\$18,910	28.0	\$24,912	19.1	\$16,962	
Liability and Vehicle Insurance	\$28,183.00	31.7	\$8,939	21.2	\$5,987	28.0	\$7,887	19.1	\$5,370	
Debt Service - Bonds 2015	\$1,869,532.00	31.7	\$592,971	21.2	\$397,144	28.0	\$523,187	19.1	\$356,230	
Debt Service - Bonds 2021	\$299,250.00	31.7	\$94,915	21.2	\$63,570	28.0	\$83,745	19.1	\$57,021	
Bond Fees	\$6,000.00	31.7	\$1,903	21.2	\$1,275	28.0	\$1,679	19.1	\$1,143	
Contingencies	\$0.00	31.7	\$0	21.2	\$0	28.0	\$0	19.1	\$0	
Jet - Vac Truck Lease	\$92,794.00	31.7	\$29,432	21.2	\$19,712	28.0	\$25,968	19.1	\$17,681	
Capital Costs	\$0.00	31.7	\$0	21.2	\$0	28.0	\$0	19.1	\$0	
Permits and Licensing	\$17,421.00	31.7	\$5,526	21.2	\$3,701	28.0	\$4,875	19.1	\$3,319	
Subtotal - Indirectly Allocable Costs	\$2,654,849.00	31.7	\$842,054.35	21.2	\$563,968.76	28.0	\$742,957.65	19.1	\$505,868.24	

TABLE 1
EASTON AREA JOINT SEWER AUTHORITY - SURCHARGE PROGRAM COSTS FOR YEAR 2023
ALLOCATION OF OPERATION & MAINTENANCE (O & M) AND CAPITAL COSTS (Continued)

Item	Actual		Hydraulic Loading		BOD		Suspended Solids		NH3-N	
	2023	%	Amount	%	Amount	%	Amount	%	Amount	%
CAPITAL COST ALLOCATION										
1988 Directly Allocable Costs										
Aerobic Digester 1	\$483,471.50	0.0	\$0	30.0	\$145,041	40.0	\$193,389	30.0	\$145,041	30.0
Blower Building	\$279,473.00	0.0	\$0	30.0	\$83,842	40.0	\$111,789	30.0	\$83,842	30.0
Secondary Clarifiers 5, 6 & 7	\$974,725.70	25.0	\$243,681	25.0	\$243,681	25.0	\$243,681	25.0	\$243,681	25.0
Flow Division Box 2 & 3	\$22,039.25	20.0	\$45,008	30.0	\$67,512	20.0	\$45,008	30.0	\$67,512	30.0
Secondary Sludge Wet Well	\$74,239.05	10.0	\$7,424	30.0	\$22,272	20.0	\$14,848	40.0	\$29,696	40.0
Chlorine Building	\$107,190.25	90.0	\$96,471	5.0	\$5,360	0.0	\$0	5.0	\$5,360	5.0
Sludge Dewatering	\$1,141,852.00	0.0	\$0	0.0	\$0	100.0	\$1,141,852	0.0	\$0	0.0
Oxidation Ditch 1	\$3,216,284.95	10.0	\$321,628	30.0	\$964,885	10.0	\$321,628	50.0	\$1,608,142	50.0
Sludge Pump House	\$201,838.00	10.0	\$20,184	30.0	\$60,551	20.0	\$40,368	40.0	\$80,735	40.0
Sludge Pump and Valve Pits	\$63,595.35	0.0	\$0	0.0	\$0	100.0	\$63,595	0.0	\$0	0.0
1998 & 2002 thru 2023 Directly Allocable Costs										
Influent Screen Building	\$410,800.00	30.0	\$123,240	30.0	\$123,240	40.0	\$164,320	0.0	\$0	0.0
Upgrade Digester No. 1	\$37,539.41	0.0	\$0	30.0	\$11,262	40.0	\$15,016	30.0	\$11,262	30.0
Primary Sludge Pump Station	\$242,714.56	25.0	\$60,679	25.0	\$60,679	25.0	\$60,679	25.0	\$60,679	25.0
Upgrade Digester No. 2	\$345,357.00	20.0	\$69,071	30.0	\$103,607	20.0	\$69,071	30.0	\$103,607	30.0
Digester Boiler Building	\$422,321.16	0.0	\$0	0.0	\$0	80.0	\$337,857	20.0	\$84,464	20.0
Secondary Sludge Dewatering	\$110,484.00	10.0	\$11,048	30.0	\$33,145	20.0	\$22,097	40.0	\$44,194	40.0
SCADA System	\$904,996.00	25.0	\$226,249	25.0	\$226,249	25.0	\$226,249	25.0	\$226,249	25.0
Grit System	\$749,418.00	0.0	\$0	10.0	\$74,942	90.0	\$674,476	0.0	\$0	0.0
Sludge Conveyor System	\$148,850.00	0.0	\$0	0.0	\$0	75.0	\$111,638	25.0	\$37,213	25.0
Anaerobic Digester No. 1 Rehab	\$906,473.70	0.0	\$0	0.0	\$0	75.0	\$679,855	25.0	\$226,618	25.0
Primary Clarifier Project	\$1,098,727.09	0.0	\$0	15.0	\$164,809	85.0	\$933,918	0.0	\$0	0.0
Chlorine Contact Tank Project	\$218,000.00	100.0	\$0	0.0	\$0	0.0	\$0	0.0	\$0	0.0
Digester Gas System Upgrades	\$671,768.50	0.0	\$0	10.0	\$67,177	80.0	\$537,415	10.0	\$67,177	10.0
Centrifuge System	\$1,851,912.95	0.0	\$0	0.0	\$0	100.0	\$1,851,913	0.0	\$0	0.0
Oxidation Ditch Improvements	\$653,386.00	50.0	\$326,693	25.0	\$163,347	0.0	\$0	25.0	\$163,347	25.0
Digester No. 2 and Return Lift Station	\$1,121,678.59	40.0	\$448,671	10.0	\$112,168	40.0	\$448,671	10.0	\$112,168	10.0
WWTP Equipment Upgrade Project	\$1,853,381.13	60.0	\$1,112,029	10.0	\$185,338	20.0	\$370,676	10.0	\$185,338	10.0
Wastewater Pumping Station Upgrades	\$6,079,207.89	100.0	\$6,079,208	0.0	\$0	0.0	\$0	0.0	\$0	0.0
Second Street PS - Force Main Repairs	\$270,650.00	100.0	\$270,650	0.0	\$0	0.0	\$0	0.0	\$0	0.0
Disk Filter System	\$3,695,481.27	20.0	\$739,096	20.0	\$739,096	60.0	\$2,217,289	0.0	\$0	0.0
Replacement of Mechanical Bar Screens	\$866,126.00	20.0	\$173,225	20.0	\$173,225	60.0	\$519,676	0.0	\$0	0.0
New Administration and Lab Building	\$3,930,133.11	30.0	\$1,179,040	25.0	\$982,533	25.0	\$982,533	20.0	\$786,027	20.0
Subtotal - Directly Allocable Costs	\$33,357,115.41	34.6	\$11,553,297	14.4	\$4,813,961	37.2	\$12,399,507	13.1	\$4,372,351	

TABLE 1
EASTON AREA JOINT SEWER AUTHORITY - SURCHARGE PROGRAM COSTS FOR YEAR 2023
ALLOCATION OF OPERATION & MAINTENANCE (O & M) AND CAPITAL COSTS (Continued)

Item	Actual		Hydraulic Loading		BOD		Suspended Solids		NH3-N	
	2023	%	Amount	%	Amount	%	Amount	%	Amount	%
1988 Indirectly Allocable Costs										
Mobilization	\$63,013.40	34.6	\$21,825	14.4	\$9,094	37.2	\$23,423	13.1	\$8,260	13.1
Stewwork	\$919,584.85	34.6	\$318,500	14.4	\$132,711	37.2	\$341,828	13.1	\$120,536	13.1
Control Building & Lab Addition	\$231,488.25	34.6	\$80,176	14.4	\$33,407	37.2	\$86,049	13.1	\$30,343	13.1
Retaining Wall	\$64,630.25	34.6	\$22,385	14.4	\$9,327	37.2	\$24,024	13.1	\$8,472	13.1
New Garage	\$249,331.50	34.6	\$86,356	14.4	\$35,982	37.2	\$92,682	13.1	\$32,682	13.1
Underground Piping	\$1,039,060.00	34.6	\$359,880	14.4	\$149,953	37.2	\$386,239	13.1	\$136,197	13.1
Electrical Contract 5	\$562,491.70	34.6	\$194,820	14.4	\$81,176	37.2	\$209,089	13.1	\$73,730	13.1
Plumbing Contract 6	\$91,030.00	34.6	\$31,528	14.4	\$13,137	37.2	\$33,838	13.1	\$11,932	13.1
HVAC Contract 7	\$130,830.00	34.6	\$45,313	14.4	\$18,881	37.2	\$48,632	13.1	\$17,149	13.1
Administrative Costs	\$1,898,505.00	34.6	\$657,551	14.4	\$273,984	37.2	\$705,712	13.1	\$248,850	13.1
1998 & 2002 thru 2023 Indirectly Allocable Costs										
Mobilization	\$68,207.00	34.6	\$23,624	14.4	\$9,843	37.2	\$25,354	13.1	\$8,940	13.1
Stewwork	\$97,000.00	34.6	\$33,596	14.4	\$13,999	37.2	\$36,057	13.1	\$12,714	13.1
Underground Piping	\$95,700.00	34.6	\$33,146	14.4	\$13,811	37.2	\$35,574	13.1	\$12,544	13.1
Electrical Contract	\$1,460,935.52	34.6	\$505,998	14.4	\$210,836	37.2	\$543,059	13.1	\$191,495	13.1
HVAC Contract	\$61,294.00	34.6	\$21,229	14.4	\$8,846	37.2	\$22,784	13.1	\$8,034	13.1
Sludge Cover	\$74,400.00	0.0	\$0	0.0	\$0	80.0	\$59,520	20.0	\$14,880	20.0
Digester Stairs	\$9,675.00	0.0	\$0	0.0	\$0	80.0	\$7,740	20.0	\$1,935	20.0
Maintenance Shop	\$61,200.00	25.0	\$15,300	25.0	\$15,300	25.0	\$15,300	25.0	\$15,300	25.0
Aeration Basin Coating	\$106,908.00	0.0	\$0	0.0	\$0	80.0	\$85,526	20.0	\$21,382	20.0
Grit System	\$121,965.00	0.0	\$0	10.0	\$12,197	90.0	\$109,769	0.0	\$0	0.0
Sludge Conveyor System	\$7,230.00	0.0	\$0	0.0	\$0	75.0	\$5,423	25.0	\$1,808	25.0
Anerobic Digester No. 1 Rehab	\$115,708.00	0.0	\$0	0.0	\$0	75.0	\$86,781	25.0	\$28,927	25.0
Administrative Cost	<u>\$1,286,722.00</u>	<u>34.6</u>	<u>\$445,658</u>	<u>14.4</u>	<u>\$185,694</u>	<u>37.2</u>	<u>\$478,300</u>	<u>13.1</u>	<u>\$168,660</u>	<u>13.1</u>
Subtotal - Indirectly Allocable Costs	\$8,816,909.47	34.6	\$2,896,885.73	14.4	\$1,228,179.11	37.2	\$3,462,703.17	13.1	\$1,174,768.60	13.1
Annual O & M Costs										
Directly Allocable Costs	\$6,292,573.01		\$1,995,853.05		\$1,336,729.35		\$1,760,972.20		\$1,199,018.41	
Indirectly Allocable Costs	<u>\$2,654,849.00</u>		<u>\$842,054</u>		<u>\$563,969</u>		<u>\$742,958</u>		<u>\$505,868</u>	
Total Annual O & M Costs	\$8,947,422		\$2,837,907		\$1,900,698		\$2,503,930		\$1,704,887	
Capital Costs										
Directly Allocable Costs	\$33,357,115.41		\$11,553,297		\$4,813,961		\$12,399,507		\$4,372,351	
Indirectly Allocable Costs	<u>\$8,816,909.47</u>		<u>\$2,896,886</u>		<u>\$1,228,179</u>		<u>\$3,462,703</u>		<u>\$1,174,769</u>	
Total Capital Costs	\$42,174,024.88		\$14,450,182		\$6,042,140		\$15,862,210		\$5,547,119	

TABLE II
TO RESOLUTION

Surcharge Program Cost Update Based on 2023 Data

(attached hereto)

TABLE II
EASTON AREA JOINT SEWER AUTHORITY
SURCHARGE PROGRAM COST UPDATE BASED ON 2023 DATA

EXPENDITURE ⁽¹⁾	BOD-5	TSS	NH3-N
- Annual Operational Cost	\$1,900,698	\$2,503,930	\$1,704,887
- Capital Amortization ⁽²⁾	344,645	904,785	316,409
TOTAL	\$2,245,343	\$3,408,715	\$2,021,296

2023 AVERAGE DAILY VALUES FOR:

Plant Flow	=	5.59 MGD
BOD-5 Influent	=	286 mg/l
TSS Influent	=	259 mg/l
NH3-N Influent	=	31.5 mg/l

2023 ANNUAL PLANT LOADINGS FOR:

BOD-5	=	286 mg/l	x 8.34 x 5.68 x 365	=	4,867	x 10x3 lbs./year
TSS	=	259 mg/l	x 8.34 x 5.68 x 365	=	4,407	x 10x3 lbs./year
NH3-N	=	31.5 mg/l	x 8.34 x 5.68 x 365	=	536	x 10x3 lbs./year

2023 TREATMENT COSTS FOR:

BOD-5	=	\$2,245,343	/	4,867	10x3 lbs./year	=	\$461.37	/10x3 lbs.
TSS	=	\$3,408,715	/	4,407	10x3 lbs./year	=	\$773.43	/10x3 lbs.
NH3-N	=	\$2,021,296	/	536	10x3 lbs./year	=	\$3,770.93	/10x3 lbs.

$$\text{UPDATED SURCHARGE FORMULA (SF)}^{(3)} = 0.00834 \times Q1 \times [(BOD-5 - 250) \times \$461.37 + (TSS - 250) \times \$773.43 + (NH3-N - 25) \times \$3,770.93]$$

WHERE:

- SF is the surcharge amount when concentrations for BOD-5, TSS and NH3-N exceed normal domestic levels listed below.
- The factor "0.00834" is a constant to convert concentration expressed as mg/l to 10x3 pounds per million gallons.
- Q1 is the industrial user's wastewater volume for the time period, expressed in million gallons.
- BOD-5, TSS and NH3-N represent respectively, five-day biological oxygen demand, total suspended solids and ammonia-nitrogen with all concentrations expressed in mg/l.
- The values 250, 250 and 25 are constants which express the waste load concentration of BOD-5, TSS and NH3-N, respectively, determined to be normal values for domestic sewage.

(1) See Table I for the development of the cost factors for the three conventional pollutants.

(2) This cost represents the amount necessary to recover the total capital cost allocation over a twenty-five year period at 5.5 percent interest per year.

(3) If BOD-5 values are less than 250 mg/l, TSS values are less than 250 mg/l or NH3-N values are less than 25 mg/l, any negative values calculated are set equal to zero and not considered as part of this equation.