December 16, 2022

To the Joint Meeting

Ladies and Gentlemen:

ANNUAL REPORT OF THE SEWAGE CONTRIBUTION OF THE MUNICIPALITIES ORGANIZED IN JOINT MEETING FOR THE PURPOSE OF ASSESSMENT FOR THE YEAR 2023

I present herewith the 88th Annual Report for the eleven municipalities organized in Joint Meeting, covering their respective contribution to Section One of the Supplementary Joint Trunk Sewer and to the Treatment Plant, as called for under the terms of the 1926 Contract.

Article X of the 1926 Contract requires that an estimate be made for the purpose of assessing the costs of maintenance and operation each year.

In order that the amount of work necessary for the preparation of this estimate be completed in time for consideration by the Joint Meeting before the date specified by law for the adoption of the new budget, it has been customary to use the twelve-month period immediately prior thereto as the basis of consideration for the assessment purpose only.

You will please note that this is the first of the two Annual Reports prepared each year, and that it covers the twelve-month period from November 1, 2021 through October 31, 2022. Subsequently, at the beginning of each succeeding year, a second and final report is prepared covering the previously completed calendar year, which coincides with the fiscal year of the Joint Meeting.

Pursuant to the Federal Water Pollution Control Act Amendments of 1972, PL 92-500 and as a requirement of our Construction Grant for the expansion in Secondary Treatment, a "User Charge System" is used to apportion the operation and maintenance costs for the Joint Meeting for 2023. During the year 1978, a User Charge System was prepared and adopted by the member municipalities and is entitled "An Ordinance Establishing and Defining User Charges in Connection with the Collection and Treatment of Wastewater and Providing for the Payment of Said User Charges". During the year 2022, this "User Charge System" was utilized by the various municipalities for collection of the charges associated with the operation and maintenance of the trunk sewer system, the treatment plant, and the Sludge Dewatering Facility, the percentage of assessment based upon a report dated December 17, 2021.

During 2022, the various municipalities computed the actual dwelling units for each of their respective towns in accordance with the revised schedule included in the Sewer Use Ordinance. Table II depicts the new (2023) dwelling unit figures formulated by each municipality in 2022.

It should be noted that the methodology used to assess the City of Elizabeth for services rendered by the Joint Meeting is based on quantity and quality of sewage as measured at the Trenton Avenue Pumping Station, plus the Equivalent Dwelling Units (EDU's) tributary to the gravity Joint Meeting sewer through the Elmora Avenue Area in Elizabeth, plus the tributary area from the City of Linden. This methodology was approved by the Joint Meeting and the Elizabeth City Council. The percentage used in this assessment report for the City will be based upon a twelve (12) month, 365 day period of November 1, 2021, through October 31, 2022 and projected for a twelve (12) month period in 2023. This allocation will be assessed and paid in accordance with the member municipalities billing procedure. Then, based on the analysis of the samples taken at the Trenton Avenue Pumping Station, an adjustment is made (on a quarterly basis) to the percent allocation from the City. At the end of 2023, utilizing twelve (12) months of data, the actual percent contribution by the City will be calculated and certified thereto.

The accompanying computations include the total Dwelling Unit number of 47,181 for the City. (This Equivalent Dwelling Unit number was computed by Elson T. Killam Associates during the period November 8, 1979 and December 12, 1979 and revised by the City Engineer on February 9, 1982).

USER CHARGE APPORTIONMENT

Set forth below are the basis factors concerning flow, waste characteristics and projected cost of operations of the Facilities derived for the 365 day period from November 1, 2021, through October 31, 2022, and projected for 2023 and are based upon actual 2021-2022 operating statistics as well as a recent upgraded 2022 industrial waste survey. The industrial waste figures take into consideration actual yearly operational time for each industry (i.e., 5 day or 7 day working week, etc.).

1. 2.	Flow BOD TSS	19,402.3080 19,769.2269 15,672.1750	Tons/Year		53.1570 108,324.5310 85,874.9315	Lbs/Day
3.	Estimated Ind	ustrial Flow	572.6150	MG/Year	1.5688	MGD
4.	Estimated Ind	ustrial BOD	5,503.8423	Tons/Year	30,158.0400	Lbs/Day
5.	Estimated Ind	ustrial TSS	601.8736	Tons/Year	3,297.9376	Lbs/Day
6.	Estimated Tot	al Operating Ex	openses in 2023			·
					\$28,883,313	STP
					10,313,087	SDWF
					320,168	SDF
				_	1,616,180	Sewers
				_	\$41,132,748	Total
7.	Estimated Tot	al Dwelling Un	its in System			
					150,865	JM Members
					47,181	Elizabeth

In addition to the foregoing, it has been determined that the following cost allocations would fairly represent the actual costs of treatment.

198,046 Total

Flow	33.7118335%
BOD	44.1568922%
Suspended Solids	22.1312743%

The basis for these cost allocations is set forth in Appendix A.

Based upon the foregoing allocations, Table I has been prepared which shows the projected and estimated flow and waste characteristics for 2023 and the projected estimated cost allocation between domestic sewage treated from residential and commercial establishments, and the industrial waste treatment reflecting industrial flow from industries in the collection system. This system takes into consideration the fact that the City of Elizabeth does not use the trunk sewer and will accordingly not be charged for its use. The trunk sewer charge is assessed only against member municipalities, and their respective industries.

Table I Joint Meeting of Essex & Union Counties Estimated Flow Waste Characteristics and Cost Allocation for Treatment in 2023

Treatment Plant

		Domestic &	
	Total for 2023	Commercial	Industrial
Flow	19,402.3080 MG/Yr. ¹	18,829.6930 MG/Yr.	572.6150 MG/Yr.
BOD	19,769.2269 Tons/Yr.1	14,265.3846 Tons/Yr.	5,503.8423 Tons/Yr.
Suspended Solids	15,672.1750 Tons/Yr. ¹	15,070.3014 Tons/Yr.	601.8736 Tons/Yr.

⁽¹⁾ Based upon data from November 1, 2021 thru October 31, 2022 (365 days)

Cost Allocation

		Domestic &	
	Total for 2023	Commercial	<u>Industrial</u>
Flow	\$13,320,074.00	\$12,926,962.00	\$393,112.00
BOD	17,447,080.50	12,589,734.00	4,857,346.50
Suspended Solid	ds 8,744,413.50	8,408,593.00	335,820.50
•	\$39,511,568.00	\$33,925,289.00	\$5,586,279.00
	100.000000%	85.86166210%	14.13833790%

Elizabeth Contribution

Flow	-	5,972.1890	MG/Yr.
BOD	-	9,119.0681	Tons/Yr.
TSS	-	4,041.6986	Tons/Yr.

Trunk Sewer Flow 1

	Domestic &	
Total for 2023	Commercial	Industrial
13,430.1190 MG/Yr. ²	13,025.1730 MG/Yr.	404.946 MG/Yr.

⁽¹⁾ Based upon data from November 1, 2021 thru October 31, 2022 (365 days)

COST ALLOCATION

\$1,616,180.00 \$1,567,448.81 \$48,731.19

^{(2) (19,402.308 - 5,972.1890)}

Member municipalities will be assessed \$10.39 (\$1,567,448.81/150,865) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$686.52 per MG for flow, \$882.54 per ton of BOD, and \$557.96 per ton of suspended solids. These estimates are predicated upon the cost allocation to industry and the estimates of flow and strength characteristics of the industrial waste, all as indicated on Table I. These costs were determined as follows:

Flow	\$393,112.00	/	572.6150 =	\$686.5206116	/MG
BOD	\$4,857,346.50	/	5,503.8423 =	\$882.5373685	/Ton
Suspended Solids	\$335,820.50	1	601.8736 =	\$557.9584963	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$120.34/MG of flow for trunk sewer use (\$48,731.19/404.946 = \$120.340/MG). This brings the total flow cost to \$806.86/MG (\$686.520 + \$120.340) for the indicated industries of member municipalities.

Based upon the user charges for 2023, a computation has been made to show the budget prepayment for each municipality of the Joint Meeting. These estimates are subject to revision annually, dependent upon the actual number of dwelling units which must be determined for each municipality in accordance with the schedule of dwelling units set forth in the ordinance. In addition thereto, the computation for the industrial user charges has been based upon actual calculations of flow and waste characteristics for the industries in the district as a result of the 2022 industrial waste survey of the service area. These are estimates for 2023 and must be verified on an annual basis to reflect the actual flow and waste characteristics.

The basis for the industrial waste flow and characteristics are set forth in Appendix B of this report. The dwelling unit figures have been compiled by each municipality with the exception of Elizabeth in accordance with the revised Schedule of Dwelling Units incorporated into the User Charge Ordinance.

Table VII sets forth the cost to each municipality to establish the budget requirements of \$41,132,748.00 for 2023. However, it should be noted that in accordance with the Agreement between the Joint Meeting and the City of Elizabeth noted previously, and as a result of the monitoring of the Trenton Avenue Pumping Station, the City would provide for 37.9166650% of the treatment plant, sludge dewatering facility and sludge drying facility budgets initially with adjustments made quarterly. Upon completion and verification of the quality and quantity of the City's contribution as measured at the Trenton Avenue Pumping Station, plus the EDU's from the Elmora Avenue area, plus the City of Linden's contribution, an adjustment will then be made for the member municipalities.

Table II

Joint Meeting of Essex and Union Counties

Annual Report of the Sewer Contribution of the Municipalities

Municipality Dwelling Units and Industrial User Charge

2023

Municipality	Dwelling Units ¹	User Charges Industrial		
East Orange	7,981	\$ -		
Hillside	8,573	1,895,687		
Irvington	26,627	345,442		
Maplewood	9,912	21,893		
Millburn	10,111 4	-		
Newark	12,989	-		
Roselle Park	4,935	859		
South Orange	8,300	-		
Summit	14,422 ²	53,814 ³		
Union	26,176	707,254		
West Orange	20,839	-		
Elizabeth	47,181 198,046	2,610,060 \$ 5,635,009		

⁽¹⁾ Based on actual calculation and verification by Municipalities; City of Elizabeth computed by Elson T. Killam Associates in 1979 and updated by City Engineer on February 9, 1982.

⁽²⁾ Includes New Providence (3571)

⁽³⁾ Includes Murray Hill

⁽⁴⁾ Includes Livingston (485)

Table III

Joint Meeting of Essex and Union Counties

Computation of Estimated Percent

Contribution By City of Elizabeth
For Period 11/1/2021-10/31/2022 and Projected Contribution for 2023

	Treatment Plant	Elizabeth Pumping Station				Joint Meeting			
Flow:	19,402.308 MG	5,972.189 MG			13,430.119 MG				
		Industrial		D&C		Industrial	D&C		
		153.576		5,818.613		404.946	13,025.173		
		\$ 105,433.09	\$	3,994,597.76	\$	326,734.97	\$ 10,509,498.68		
Unit Charge									
Unit Charge	\$ 806.8605829 Per MG f	or Joint Meeting			1				
BOD:	19,769,2269 Tons	9,119.0681	Ton	s		10,650.1588	Tons		
		Industrial		D&C		Industrial	D&C		
		2,657.4509		6,461.6172		2,808.1923	7,841.9665		
TT 1: 01	4000 5050 (05 P M	\$ 2,345,299.72	\$	5,702,618.64	\$	2,478,334.64			
Unit Charge	\$882.5373685 Per Ton								
TSS:	15,672.1750 Tons	4,041.6986	Ton	s		11,630.4764	Tons		
		Industrial		D&C		Industrial	D&C		
		202.504		3,839.1946		394.08052	11,236.39588		
		\$ 112,988.83	\$	2,142,111.25	\$	219,880.57			
Unit Charge	\$557.9584963 Per Ton								
			\$	14,403,049.29	\$	3,024,950.18			
	City of Elizabeth (Contributi	on from Pumping S	tation)	\$	14,403,049.29			
	City of Elizabeth (Industry T	ributary to Joint Me	eting	Trunk)					
	Flow: 14.0930	MG/Year at	\$	686.5206116		9,675.13			
		Tons/Year at		882.5373685		33,712.13			
	TSS: 5.2891	Tons/Year at		557.9584963		2,951.10			
	Joint Meeting Industrial					3,024,950.18			
	Subtotal				\$	17,474,337.83			
	Total 2023 Budget		\$	41,132,748.00					
	Subtotal (above)			(17,474,337.83)					
	Subtotal (EDU's)		\$	23,658,410.17					

Joint Meeting EDU's (X + Y) + Elmora EDU's (X)= \$ 23,658,410 (Y = A dditional Assessment to Member Municipalities for Trunk Sewer O&M)

150,865 (X + \$10.38974454) + 3737 (X) = \$23,658,410

Equivalent Units-Member Municipalities 150,865

Elmora EDU's = 3,737 \$142.8892340330 Per Unit = X

\$153.2789785730 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 23,124,433.10 Elmora Area Assessment \$ 533,977.07

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 14,403,049.29

Elmora EDU's 533,977.07

Elmora Industrial 46,338.36

\$ 14,983,364.72

Total Anticipated Payment from Member Municipalities

EDU's 23,124,433.10

Industrial 3,024,950.18

\$ 26,149,383.28

Estimated Percent Contribution of Treatment Plant, Sludge Dewatering and Sludge Drying Facility Budgets by

City of Elizabeth

\$ 14,983,364.72 / \$ 39,516,568.00 = 37.9166650%

Table IV

Joint Meeting of Essex and Union Counties

Percent Allocation of Infiltration / Inflow

	Capacity By	Capacity By	Base Yea Phase IIB				Base Year - Phase IIB - S	_		
	Contract	Contract	Infiltr		SSES - Novem		Inflow	(Percent)	SSES - Novemb (GPD) ⁵	er 2022 (Percent)
Municipality	(MGD)	(Percent)	(GPD) ³	(Percent)	(GPD) ⁴	(Percent)	(GPD)	(Fercent)		(I Creent)
					30,684				231,980	
East Orange	5.50	4.88%	70,747	2.11%	44,022	2.53%	3,007,440	5.79%	218,160	0.65%
					23,043				1,252,692	
Hillside	12.20	10.83%	79,012	2.36%	32,980	1.90%	1,185,120	2.28%	1,185,120	3.51%
					374,026				7,169,968	
Irvington	18.61	16.52%	1,115,672	33.31%	536,583	30.84%	8,612,640	16.57%	6,782,445	20.09%
<u></u> g					137,410				2,005,735	
Maplewood	7.08	6.29%	389,078	11.62%	197,233	11.33%	5,449,680	10.48%	1,897,920	5.62%
Maple	,,,,		,		106,120				2,466,126	
Millburn	6.00	5.33%	191,609	5.72%	152,240	8.75%	2,729,520	5.25%	2,333,520	6.91%
Minouri					130,739				2,027,149	
Newark	15.50	13.76%	234,484	7.00%	187,506	10.78%	1,959,540	3.77%	1,915,875	5.68%
Nowak	13.50	2211	, .		45,359				1,666,687	
Roselle Park	9.44	8.38%	106,187	3.17%	65,147	3.74%	1,576,080	3.03%	1,576,080	4.67%
Rosene i ark	2	0.2010	,		58,457				1,862,978	
South Orange	7.00	6.22%	410,876	12.27%	83,906	4.82%	2,183,760	4.20%	1,761,840	5.22%
South Orange	7.00	0.2270	,		45,116				1,684,532	
Summit	7.50	6.66%	171,657	5.13%	64,802	3.72%	3,651,120	7.02%	1,594,800	4.72%
Summit	7.50	0.007.0	,		163,485				8,540,434	
Union	10.30	9.14%	329,127	9.83%	234,523	13.48%	14,534,640	27.96%	8,079,280	23.93%
Omon	10.50	7.1 .70	323,127	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	98,358				6,780,956	
West Orange	13.50	11.99%	250,811	7.48%	· ·	8.11%	7,097,040	13.65%	6,413,400	19.00%
west Orange					1,212,797				35,689,237	
	112.63	100.00%	3,349,260	100.00%		100.00%	51,986,580	100.00%	33,758,440	100.00%
	112.03	100.00%	2,272,200	100.0070	1,7-10,002	100.00,0	,,			

⁽¹⁾ Identified by Hazen & Sawyer Phase IIB SSES (pg. S-2) with trunk sewer infiltration allocated based on contract capacity.

⁽²⁾ Identified by Hazen & Sawyer Phase IIB SSES (pg. S-3)

^{(3) &}quot;Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346%

^{(4) 2022 -} Infiltration related to base year total = 1.740 MGD / 52.79 MGD = 3.29607880%

⁻ Adjusted for period 11/1/2021 - 10/31/2022; (3.29607880% x 13,430.1190 = 442.67 MG / Year / 365 = 1,212,797 GPD)

^{(5) 2022} inflow adjusted for period $11/1/2021 - 10/31/2022 - (35.12'' / 33.22'') \times (33,758,440) = 35,689,237 GPD$

Table IV - A

Joint Meeting of Essex and Union Counties

Adjusted 2022 - Summary of Infiltration and Inflow

	Phase IIB		2022		Phase IIB		2022	
	SSES	2021	Infiltration	2022	SSES	2021	Inflow	2022
	Infiltration	Infiltration	Removed	Infiltration	Inflow	Inflow	Removed	Inflow
Municipality	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
East Orange	70,747	44,022	-	44,022	3,007,440	218,160	-	218,160
Hillside	79,012	32,980	-	32,980	1,185,120	1,185,120	-	1,185,120
Irvington	1,115,672	790,023	253,440	536,583	8,612,640	6,782,445	-	6,782,445
Maplewood	389,078	197,233	-	197,233	5,449,680	1,897,920	-	1,897,920
Millburn	191,609	152,240	-	152,240	2,729,520	2,333,520	-	2,333,520
Newark	234,484	187,506	-	187,506	1,959,540	1,915,875	-	1,915,875
Roselle Park	106,187	65,147	-	65,147	1,576,080	1,576,080	-	1,576,080
South Orange	410,876	83,906	-	83,906	2,183,760	1,761,840	-	1,761,840
Summit	171,657	64,916	114	64,802	3,651,120	1,604,880	10,080	1,594,800
Union	329,127	234,523	-	234,523	14,534,640	8,079,280	-	8,079,280
West Orange	250,811	141,147	_	141,147	7,097,040	6,413,400	-	6,413,400
Total	3,349,260	1,993,643	253,554	1,740,089	51,986,580	33,768,520	10,080	33,758,440

Table V

Joint Meeting of Essex and Union Counties

st Allocation - Flow, ROD & TSS with Infiltration / Inflow

Total 13,430.1190 \$10,260,897.04 442.67 1,448.38	MG	Domestic & Commerce 13,025.1730 \$9,934,162.07		<u>Industrial</u> 404.9460 \$326,734.97	MG
\$10,260,897.04 442.67	MG	\$9,934,162.07	MG		MG
442.67		, ,		\$376 734 97	
		(20.20		\$376 734 97	
		100.00		•	
1,448.38		429.32	\$327,437.84	13.35	
ŕ		1,404.71	\$1,071,357.50	43.67	
on 10,650.1588	Tons	7,841.9665	Tons	2,808.1923	Tons
\$9,399,163.12		\$6,920,828.48		\$2,478,334.64	
on 11,630.4764	Tons	11,236.3959	Tons	394.0805	Tons
\$6,489,323.12		\$6,269,442.55		\$219,880.57	
\$26,149,383.28	ı	\$23,124,433.10		\$3,024,950.18	
location of	37.91666	650% to City of Elizabeth	\$ 14,983,364.72		
6.34590%	(Per H&S Pl	hase IIB Report)			
/ 137 MGD (Total) =		82.4817518%	1 inch of rain = 50 MG of infl	ow (Per H&S Phase IIB R	Report)
3.29607880%	, X	13,430.1190 (November 1, 2021 - 0			
1	10,650.1588 \$9,399,163.12 Fon 11,630.4764 \$6,489,323.12 \$26,149,383.28 Illocation of 6.34590%	fon 10,650.1588 Tons \$9,399,163.12 fon 11,630.4764 Tons \$6,489,323.12 \$26,149,383.28 1 1 1 1 1 1 1 1 1 1 1 1	Fon 10,650.1588 Tons 7,841.9665 \$9,399,163.12 \$6,920,828.48 Fon 11,630.4764 Tons 11,236.3959 \$6,489,323.12 \$6,269,442.55 \$26,149,383.28 1 \$23,124,433.10 Illocation of 37.9166650% to City of Elizabeth 6.34590% (Per H&S Phase IIB Report) 7/137 MGD (Total) = 82.4817518% 3.29607880% X 13,430.1190	Fon 10,650.1588 Tons 7,841.9665 Tons \$9,399,163.12 \$6,920,828.48 Fon 11,630.4764 Tons 11,236.3959 Tons \$6,489,323.12 \$6,269,442.55 \$26,149,383.28	Fon 10,650.1588 Tons 7,841.9665 Tons 2,808.1923 \$9,399,163.12 \$6,920,828.48 \$2,478,334.64 Fon 11,630.4764 Tons 11,236.3959 Tons 394.0805 \$6,489,323.12 \$6,269,442.55 \$219,880.57 \$26,149,383.28 \(^{1}\) \$23,124,433.10 \$33,024,950.18 Fillocation of 37.9166650% to City of Elizabeth \$14,983,364.72 6.34590% (Per H&S Phase IIB Report) Fillocation of 32,808.1923 \$2,478,334.64 \$2,4

Inflow: Rainfall = 35.12 Inches X 50 MG X 82.482% 1,448.38 MG / Year

 Total D&C
 \$23,124,433.10

 Less: Infiltration
 (327,437.84)

 Less: Inflow
 (1,071,357.50)

 Net after infiltration and inflow
 \$21,725,637.76

 Equivalent Dwelling Units
 150,865

 User Charge Per Unit
 \$144.00714387035

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2023

			Do	mestic & Com	mercial			
	Dwelling	User Charge \$ 144.00714387		tration		nflow		
Municipality	Units	Per Unit	Percent 1	Amount	Percent 2	Amount	Total Cost	Unit Cost
East Orange	7,981	\$1,149,321.02	2.53%	\$8,284.18	0.65%	\$6,963.82	\$1,164,569.02	\$145.9177
Hillside	8,573	1,234,573.24	1.90%	6,221.32	3.51%	37,604.65	1,278,399.21	149.1192
Irvington	26,627	3,834,478.22	30.84%	100,981.83	20.09%	215,235.72	4,150,695.77	155.8830
Maplewood	9,912	1,427,398.81	11.33%	37,098.71	5.62%	60,210.29	1,524,707.81	153.8244
Millburn	10,111 3	1,456,056.23	8.75%	28,650.81	6.91%	74,030.80	1,558,737.84	154.1626
Newark	12,989	1,870,508.79	10.78%	35,297.80	5.68%	60,853.11	1,966,659.70	151.4096
Roselle Park	4,935	710,675.26	3.74%	12,246.18	4.67%	50,032.40	772,953.84	156.6269
South Orange	8,300	1,195,259.29	4.82%	15,782.50	5.22%	55,924.86	1,266,966.65	152.6466
Summit	14,422 4	2,076,871.03	3.72%	12,180.69	4.72%	50,568.07	2,139,619.79	148.3580
Union	26,176	3,769,531.00	13.48%	44,138.62	23.93%	256,375.85	4,070,045.47	155.4877
West Orange	20,839	3,000,964.87	8.11%	26,555.21	19.00%	203,557.93	3,231,078.01	155.0496
	150,865	\$21,725,637.76	100.00%	\$327,437.85	100.00%	\$1,071,357.50	\$23,124,433.11	\$153.2790
								\$159.4100 2022
	(1) See Table	IV - Infiltration for	November of t	he Prior Year				\$147.2083 2021
	(2) See Table	IV - Inflow for Nov	ember of the P	rior Year				\$145.3391 2020
	(3) Includes L	ivingston (485)						\$150.2422 2019
	(4) Includes N	lew Providence (35'	71)					

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2023

				Inc	lustrial					
						Flow (N	AG / Year)		_	
Municipality	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Dry Weather	Infiltration 3.296079%	Inflow 10.784566%	Total	Flow ³ (\$/Year)	Total Cost
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	1,855.9540	1,637,948.76	165.8770	92,552.48	175.90	6.75	22.08	204.73	165,186.15	1,895,687.39
Irvington	356.0790	314,253.02	9.7639	5,447.85	27.41	1.05	3.44	31.90	25,741.27	345,442.14
Maplewood	14.2003	12,532.30	5.8579	3,268.47	6.49	0.25	0.81	7.55	6,092.60	21,893.37
Millburn	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roselle Park	0.2169	191.42	0.3317	185.07	0.51	0.02	0.06	0.60	482.50	858.99
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	13.6151	12,015.83	10.6687	5,952.70	38.17	1.46	4.79	44.43	35,845.59	53,814.12
Union	568.1270	501,393.31	201.5813	112,474.00	99.44	3.82	12.48	115.74	93,386.85	707,254.16
West Orange	0.0000 2,808.1923	0.00 \$2,478,334.64	<u>0.0000</u> 394.0805	0.00 \$219,880.57	<u>0.00</u> <u>347.93</u>	0.00	43.67	0.00 404.95	0.00 \$326,734.97	0.00 \$3,024,950.18

⁽¹⁾ At \$882.5373685/Ton

⁽²⁾ At \$557.9584963/Ton

⁽³⁾ At \$806.8605829/MG

⁽⁴⁾ Includes Murray Hill

Table VII

Joint Meeting of Essex and Union Counties

Summary of Estimated Annual Operational and Maintenance Expenses To Member Municipalities
2023

		Domestic & Co	mmercial		
Municipality	Total Assessments ¹	User Charge Domestic Sewage 144.0071439	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$1,164,569.02	\$1,149,321.02	\$0.00	\$15,248.00	4.4535%
Hillside	3,174,086.60	1,234,573.24	1,895,687.39	43,825.97	12.1383%
Irvington	4,496,137.91	3,834,478.22	345,442.14	316,217.55	17.1940%
Maplewood	1,546,601.18	1,427,398.81	21,893.37	97,309.00	5.9145%
Millburn	1,558,737.84	1,456,056.23	0.00	102,681.61	5.9609%
Newark	1,966,659.70	1,870,508.79	0.00	96,150.91	7.5209%
Roselle Park	773,812.83	710,675.26	858.99	62,278.58	2.9592%
South Orange	1,266,966.65	1,195,259.29	0.00	71,707.36	4.8451%
Summit	2,193,433.91	2,076,871.03	53,814.12	62,748.76	8.3881%
Union	4,777,299.63	3,769,531.00	707,254.16	300,514.47	18.2693%
West Orange	3,231,078.01 \$26,149,383.29	3,000,964.87 \$21,725,637.76	0.00 \$3,024,950.18	230,113.14 \$1,398,795.35	12.3562% 100.0000%
Elizabeth	14,983,364.71				
Total	\$41,132,748.00				

⁽¹⁾ Reflects anticipated payment of \$14,983,364.71 from the City of Elizabeth which is 37.916665% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2023 percent contribution to be calculated at the end of fiscal year. Quarterly adjustments to be made in accordance with Agreement between Elizabeth and Joint Meeting.

Table VIII

Joint Meeting of Essex and Union Counties

Comparison of 2023 Assessment with 2022 Assessment

				Compa	arison
Municipality	2022	2023		Amount	Percentage
East Orange	\$1,201,956.08	\$1,164,569.02	(-)	(\$37,387.06)	-3.11%
Hillside	3,137,144.90	3,174,086.60	(+)	36,941.70	1.18%
Irvington	4,708,419.25	4,496,137.91	(-)	(212,281.34)	-4.51%
Maplewood	1,589,485.54	1,546,601.18	(-)	(42,884.36)	-2.70%
Millburn	1,597,278.93	1,558,737.84	(-)	(38,541.09)	-2.41%
Newark	2,017,762.28	1,966,659.70	(-)	(51,102.58)	-2.53%
Roselle Park	806,817.90	773,812.83	(-)	(33,005.07)	-4.09%
South Orange	1,313,922.02	1,266,966.65	(-)	(46,955.37)	-3.57%
Summit	2,259,521.64	2,193,433.91	(-)	(66,087.73)	-2.92%
Union	4,732,954.29	4,777,299.63	(+)	44,345.34	0.94%
West Orange	3,339,935.09	3,231,078.01	(-)	(108,857.08)	-3.26%
-	\$26,705,197.92	\$26,149,383.29	(-)	(\$555,814.63)	-2.08%
Elizabeth	11,749,802.08	14,983,364.71	(+)	\$ 3,233,562.63	27.52%
Total	\$38,455,000.00	\$41,132,748.00	(+)	\$2,677,748.00	6.96%

Note: City of Elizabeth percentage contribution of Treatment Plant, Sludge Dewatering, and Sludge Drying Budget:

City of Elizabeth percentage

-	-
2019	32.79334100%
2020	35.79934530%
2021	32.66022930%
2022	31.88894820%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2023 as a result of the Agreement with the City of Elizabeth which requires 37.9166650% of the 2023 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 37.9166650% figure is an estimate based upon actual monitoring of quality and quantity at the Trenton Avenue Pumping Station, etc., in accordance with the Agreement. The actual percentage of contribution will be determined following the completion of the annual audit of expenses. In addition, these tables reflect the costs associated with Infiltration / Inflow for the member municipalities, the percentages of which were determined from the Phase IIB SSES Reports, adjusted as a result of rehabilitation work, and updated in 2017.

Summary and Certification

On the basis of the measured usage of Section One of the Supplementary Joint Trunk Sewer and the Treatment Plant, including the Sludge Dewatering and Sludge Drying Facilities, and an estimate of Dwelling Units and Waste Characteristics for the municipalities organized in Joint Meeting, and in accordance with the provisions of the 1926 contract, I hereby certify that the estimated maintenance and operating costs of the Joint Meeting for the 2023 are apportioned as follows:

	2023	2022		2023	2022
East Orange	4.4535%	4.5008%	Roselle Park	2.9592%	3.0212%
Hillside	12.1383%	11.7473%	South Orange	4.8451%	4.9201%
Irvington	17.1940%	17.6311%	Summit	8.3881%	8.4610%
Maplewood	5.9145%	5.9520%	Union	18.2693%	17.7230%
Millburn	5.9609%	5.9812%	West Orange	12.3562%	12.5066%
Newark	7.5209%	7.5557%	Total	100.0000%	100.0000%

Respectfully submitted,

A. Ralph LaMendola. P.E., BCEE

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A 2023 Budget

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,200,000	\$ 400,000	\$ -	\$ -	\$ 1,600,000
Gas Service	1,026,400	135,800	-	-	1,162,200
Fuel, Oil & Kerosene	115,250	114,750	-	-	230,000
Water Service	130,000	120,000	3,000	-	253,000
Chemicals	5,985,443	1,208,400	6,800	9,000	7,209,643
Sludge Disposal	-	3,468,528	-	-	3,468,528
Insurance	789,979	157,996	73,731	31,599	1,053,305
Administration	3,489,428	2,090,663	10,000	401,747	5,991,838
Labor	5,175,211	1,059,844	143,177	364,619	6,742,851
Benefits	3,822,102	723,856	78,460	100,965	4,725,383
Equipment	265,000	72,000	-	-	337,000
Printing & Stationery	17,000	2,000	-	1,000	20,000
Maintenance, Supplies & Spare Parts	2,211,500	589,250	5,000	612,250	3,418,000
Screening Disposal	280,000	-	-	-	280,000
Reserve Contingency	250,000	-	-	-	250,000
Miscellaneous Expenses	390,000	100,000	-	60,000	550,000
Technical & Professional Services	1,061,000	50,000	-	25,000	1,136,000
Replacement Fund	2,000,000	-	-	-	2,000,000
NJPDES & Miscellaneous Permit Fee	675,000	20,000	-	10,000	705,000
	\$ 28,883,313	\$ 10,313,087	\$ 320,168	\$ 1,616,180	\$ 41,132,748
	70.22%	25.07%	0.78%	3.93%	100.00%

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A (Continued)

Appendix A (Continued) Operations and Management Cost Allocations (Treatment Plant)

Total Cost	Percent Flow	Cost Flow	Percent SS	Cost SS	Percent BOD	Cost BOD
\$ 6,213,822	80%	\$ 4,971,058	10%	\$ 621,382	10%	\$ 621,382
1,200,000	40%	\$ 480,000	5%	\$ 60,000	55%	\$ 660,000
3,762,000	40%	\$ 1,504,800			60%	\$ 2,257,200
4,726,500	28%	\$ 1,323,420	27%	\$ 1,276,155	45%	\$ 2,126,925
115,250	40%	\$ 46,100	30%	\$ 34,575	30%	\$ 34,575
	400.4	1001.004	4004		700 /	
12,486,741	40%	4,994,696	10%	\$ 1,248,674	50%	\$ 6,243,371
374,000			50%	\$ 187,000	50%	\$ 187,000
\$28,878,313 100%		\$ 13,320,074 46.1248342%		\$ 3,427,786 11.8697585%		\$ 12,130,453 42.0054073%
get)		(2) Sludge Proc	essing			
	\$ 789,979 1,061,000 17,000 1,026,400 130,000 390,000 280,000 675,000	Polymer K2MnO4	\$ 324,000 50,000			
	\$ 6,213,822 1,200,000 3,762,000 4,726,500 115,250 12,486,741 374,000 \$28,878,313 100%	\$ 6,213,822 80% 1,200,000 40% 3,762,000 40% 4,726,500 28% 115,250 40% 12,486,741 40% 374,000 \$28,878,313 100% get) \$ 789,979 1,061,000 17,000 1,026,400 130,000 390,000 280,000 675,000	\$ 6,213,822	\$ 6,213,822	\$ 6,213,822	\$ 6,213,822

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A (Continued)

Operations and Management Allocations

	Estimated Total Cost	Cont El	C	
Treatment Plant	\$ 28,878,313	Cost Flow \$ 13,320,074	Cost TSS \$ 3,427,786	Cost BOD \$12,130,453
Dewatering Facility	10,313,087		5,156,544	5,156,544
Drying Facility	320,168		160,084	160,084
Subtotal	\$ 39,511,568 100.00%	\$13,320,074 33.7118335%	\$ 8,744,414 22.1312743%	\$17,447,081 44.1568922%
Sewers 1	\$ 1,616,180			
Total	\$ 41,132,748			

⁽¹⁾ Joint Meeting Members Only

INDUSTRIAL USER CHARGE - 2023 SUMMARY

	•	LOADINGS		
MUNICIPALITY	FLOW (MG)	BOD (tons)	TSS (tons)	
HILLSIDE	204.727	1855.954	165.877	
IRVINGTON	31.903	356.079	9.7639	
MAPLEWOOD	7.551	14.2003	5.8579	
MURRAY HILL	12.292	0.2563	1.2302	
ROSELLE PARK	0.598	0.2169	0.3317	
SUMMIT	32.134	13.3588	9.43852	
UNION	115.741	568.127	201.5813	
MEMBERS TOTAL	404.946	2808.193	394.0802	
ELIZABETH	167.669	2695.650	207.7931	
GRAND TOTAL	572.615	5503.8428	601.8732	
	,	00070		
MUNICIPALITY	FLOW	COSTS BOD	TSS	TOTAL
HILLSIDE	\$165,186.15	\$1,637,948.78	\$92,552.31	TOTAL \$1,895,687.23
IRVINGTON	\$25,741.27	\$314,253.08	\$5,447.84	\$345,442.20
MAPLEWOOD	\$6,092.60	\$12,532.31	\$3,268.48	\$21,893.39
MURRAY HILL	\$9,917.93	\$226.18	\$686.39	\$10,830.51
ROSELLE PARK	\$482.50	\$191.47	\$185.05	\$859.02
SUMMIT	\$25,927.66	\$11,789.63	\$5,266.30	\$42,983.59
UNION	\$93,386.85	\$501,393.68	\$112,474.00	\$707,254.53
MEMBERS TOTAL	\$326,734.97	\$2,478,335.13	\$219,880.38	\$3,024,950.48
ELIZABETH	\$115,108.22	\$2,379,011.81	\$115,939.91	\$2,610,059.95
GRAND TOTAL	\$441,843.19	\$4,857,346.95	\$335,820.29	\$5,635,010.42

INDUSTRIAL USER CHARGE - 2023 COST FACTORS

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$806.8605829	\$882,5373688	\$557,9584963
ELIZABETH	\$686.5206116	\$882.5373685	\$557.9584963

INDUSTRIAL USER CHARGE - 2023

Municipality: HILLSIDE

					Flow per MG	Cost Factors BOD per Ton	TSS per Ton	
			Concentr	ation	\$806.8605829	\$882.5373685	\$557.9584963	
			BOD .	TSS	FLOW	BOD	TSS	ANNUAL
IU#	INDUSTRY	SITE	(mg/l)	(mg/l)	· (MG)	(Tons)	(Tons)	PAYMENT
1050	Manhattan Drug Co.	4	581	707	0.574	1.3907	1,6923	
	7-4-1	99	250	196	0.062	0.0646	0.0507	
	Totals: Cost Analysis:				0.636 \$513.16	1.4553 \$1,284.36	1.7429 \$972.49	to 770 04
	Cour manyois.				4013.10	\$1,204.3 0	\$972.49	\$2,770.01
1094	AAK Foodservice	3	3880	2035	13.800	223.2785	117.1061	
	(Formerly Oasis Foods)	99	250	196	1.266	1.3198	1.0347	
	Totals: Cost Analysis:				15.066 \$12,156.16	224.5983	118.1408	4070 000 00
	Cost Finalysis.				\$12,150.10	\$198,216.38	\$65,917.68	\$276,290.22
1090	Union Beverage	1	2115	53	180.642	1593,1812	39.9237	
		99	250	196	1.315	1.3709	1.0748	
	Totals: Cost Analysis:				181.957	1594.5520	40.9985	***
	Cost Analysis.				\$146,813.93	\$1,407,251.76	\$22,875.44	\$1,576,941.13
1091	Hillside Beverage	2	1598	66	3.884	25.8817	1.0690	
	·	99	250	196	0.199	0.2075	0.1626	
	Totals: Cost Analysis:				4.083	26.0891	1.2316	**********
	Cost Allalysis.				\$3,294.41	\$23,024.62	\$687.18	\$27,006.21
1092	A&H Products	1	775	309	2.808	9.0748	3.6182	
		99	250	196	0.177	0.1845	0.1447	
	Totals:				2.985	9.2593	3.7629	
	Cost Analysis:				\$2,408.48	\$8,171.66	\$2,099.52	\$12,679.65
1093	*Sam Hak Foods	. 1	0	0	0.000	0.0000	0.0000	
		99	0	0	0.000	0.0000	0.0000	
	Totals:				0.000	0.0000	0,0000	
	Cost Analysis:				\$0.00	\$0.00	\$0.00	\$0.00
	HILLSIDE TOTALS				204.7270	1,855.9540	165.8767	
•					\$165,186.15	\$1,637,948.78	\$92,552.31	\$1,895,687.23

^{*}Sam Hak Foods - Dld not discharge during this Assessment Period

INDUSTRIAL USER CHARGE - 2023

Municipality: IRVINGTON

			Concenti	ration	Flow per MG \$806.8605829	Cost Factors BOD per Ton \$882.5373685	TSS per Ton \$557.9584963	
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/i)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
2066	Wayne County Foods Totals: Cost Analysis:	1 99	6333 250	154 196	0.178 0.113 0.291 \$234.80	4.7007 0.1178 4.8185 \$4,252.54	0.1143 0.0924 0.2067 \$115.31	\$4,602.64
2081	CP Laundry (Formerly Clean-Tex) Totals: Cost Analysis:	1 99	218 ⁻ 250	50 196	6.720 0.286 7.006 \$5,652.87	6.1089 0.2982 6.4070 \$5,654.45	1.4011 0.2338 1.6349 \$912.19	\$12,219.51
2078	City Barrel Totals: Cost Analysis:	1 99	167 250	9 196	0.476 0.197 0.673 \$543.02	0.3315 0.2054 0.5369 \$473.79	0.0179 0.1610 0.1789 \$99.81	\$1,116.62
3050	Maplewood Beverage Totals: Cost Analysis:	2 99	3493 250	76 196	23.616 0.317 23.933 \$19,310.59	343.9862 0.3305 344.3166 \$303,872.30	7.4844 0.2591 7.7435 \$4,320.54	\$327,503.43
	IRVINGTON TOTALS				31.9030 \$25,741.27	356.0791 \$314,253.0 8	9.7639 \$5,447.84	\$345,442.20

INDUSTRIAL USER CHARGE - 2023

Municipality: MAPLEWOOD

			Concenti	ration	Flow per MG \$806.8605829	Cost Factors BOD per Ton \$882.5373685	TSS per Ton \$557,9584963	
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
3033	NJ Transit - Hilton Gar. Totals: Cost Analysis:	3a 4	335 897	734 25	1.724 2.703 4.427 \$3,571.97	2.4083 10.1105 12.5189 \$11,048.38	5.2768 0.2818 5.5586 \$3,101.45	\$17,721.81
3046	UniClean Totals: Cost Analysis:	1 99	120 250	10 196	2.906 0.218 3.124 \$2,520.63	1.4542 0.2273 1.6814 \$1,483.92	0.1212 0.1782 0.2994 \$167.03	\$4,171.58
M	APLEWOOD TOTALS				7.5510 \$6,092.60	14.2003 \$12,532.31	5.8579 \$3,268.48	\$21,893.39

INDUSTRIAL USER CHARGE - 2023

Municipality: MURRAY HILL

			Concentr	ation	Flow per MG \$806.8605829	Cost Factors BOD per Ton \$882.5373685	TSS per Ton \$557.9584963	
IU#	INDUSTRY	SITE	BOD (mg/l) `	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
5010	Nokia Totals: Cost Analysis:		5	24	12.292 12.292 \$9,917.93	0.2563 0.2563 \$226.18	1.2302 1.2302 \$686.39	\$10,830.51
MU	JRRAY HILL TOTALS				12.2920 \$9,917.93	0.2563 \$226.18	1.2302 \$686.39	\$10,830.51

INDUSTRIAL USER CHARGE - 2023

Municipality: ROSELLE PARK

				Cost Factors BOD per Ton	D per Ton TSS per Ton			
			Concenti	ration	\$806.8605829	\$882.5373685	\$557,9584963	
			BOD	TSS	FLOW	BOD	TSS	ANNUAL
IU#	INDUSTRY	SITE	(mg/l)	(mg/l)	(MG)	(Tons)	(Tons)	PAYMENT
6005	Hexacon Electric	2	87	133	. 0.598	0.2169	0.3317	
	Totals	s:			0.598	0.2169	0.3317	
	Cost Analysis	S:			\$482.50	\$191.47	\$185.05	\$859.02
RO	SELLE PARK TOTALS				0.5980	0.2169	0.3317	
					\$482.50	\$191.47	\$185.05	\$859.02

INDUSTRIAL USER CHARGE - 2023

Municipality: SUMMIT

			Concentr	ation	Flow per MG \$806.8605829	TSS per Ton \$557.9584963		
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
5511	Novartis Groundwater Totals: Cost Analysis:	4	1,	2	0.813 0.813 \$655.9 8	0.0034 0.0034 \$2.99	0.0068 0.0068 \$3.78	\$662.75
5514	Celgene West 556 Totals: Cost Analysis:	03A 99	102 250	72 196	31.267 0.054 31.321 \$25,271. 68	13.2991 0.0563 13.3554 \$11,786.64	9.3876 0.0441 9.4317 \$5,262.52	\$42,320.84
	SUMMIT TOTALS				32.1340 \$25,927.66	13.3588 \$11,789.63	9.4385 \$5,266.30	\$42,983.59

INDUSTRIAL USER CHARGE - 2023

Municipality: UNION

			Concentr	ation	Flow per MG \$806.8605829	Cost Factors BOD per Ton \$882.5373685	TSS per Ton \$557.9584963	
111.44	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
IU # 7015	ACuPowder	3 (99) 4	250 80	196 135	0.019 2.282 2.301	0.0198 0.7613 0.7811	0.0155 1.2847 1.3002	
	Cost	Totals: Analysis:			\$1,856.59	\$689.33	\$725.45	\$3,271.37
7070	Durex	1 Totals:	100	150	3,293 3,293	1.3732 1.3732 \$1,211.88	2.0598 2.0598 \$1,149.27	\$5,018.14
	Cost	Analysis:			\$2,656.99	φ1,211.00	41,	
7080	Foremost Mfg	2 Totals: Analysis:	8	132	5.665 5.665 \$4,570.87	0.1890 0.1890 \$166.79	3.1182 3.1182 \$1,739.85	\$6,477.50
	0001	, man, ,						
7092	International Paint	5 99 Totals:	. 2 250	2 196	13.308 0.030 13.338 \$10,761.91	0.1110 0.0313 0.1423 \$125.55	0.1110 0.0245 0.1355 \$75.61	\$10,963.07
	Cost	Analysis:			\$10,701.31	V 120.00	·	
7197	1011 Morris Avenue Urban Renewal Cost	1 : Analysis:	1	8	0.010 0.010 \$8.07	0.0000 0.0000 \$0.04	0.0003 0.0003 \$0.19	\$8.29
7191	Cintas (Location 111) 1 Totals: t Analysis:	1,161	661	26.843 26.843 \$21,658.56	129.9569 129.9569 \$114,691.82	73.9892 73.9892 \$41,282.93	\$177,633.30
7193	Lioni Latticini Cos	1 99 Totals: t Analysis:	5464 250	743 196	9.856 0.506 10.362 \$8,360.69	224.5678 0.5275 225.0953 \$198,655.00	30.5369 0.4136 30.9505 \$17,269.10	\$224,284.79
7194	BASF Corporation	1 99 Totals: st Analysis:	. 16 250	606 196	0.15 1.192 1.342 \$1,082.81	0.0100 1.2427 1.2527 \$1,105.53	0.3791 0.9742 1.3533 \$755.08	\$2,943.42
7195	Deep Foods Cos	7 01 (99) 02 (99) 05 (99) 06 (99) Totals: st Analysis:	1083 250 250 250 250	434 196 196 196 196	44.888 1.268 1.901 0.774 0.065 48.896 \$39,452.26	202.7191 1.3219 1.9818 0.8069 0.0678 206.8975 \$182,594.76	0.0531 84.5132	\$269,201.89
7196	Cintas (Location 15	F) 1 99 Totals: st Analysis:	154 250	27 4 196	3.518 0.173 3.691 \$2,978.12	0.1804 2.4395	0.1414 4.1610	

INDUSTRIAL USER CHARGE - 2023

Municipality: UNION

			Concent	ration	Flow per MG \$806,8605829	Cost Factors BOD per Ton \$882,5373685	TSS per Ton \$557.9584963	
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
	UNION TOTALS				115.7410 \$93,386.85	568.1274 \$501,393.6 8	201.5813 \$112,474.00	\$707,254.53

INDUSTRIAL USER CHARGE - 2023

Municipality: ELIZABETH

					Flow per MG	Cost Factors BOD per Ton	TSS per Ton	
			Concentra	ation	\$686.5206116	\$882,5373685	\$557.9584963	
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
0199	Prodalim USA (formerly Wild Flavors) Totals: Cost Analysis:	1	2586	243	0.278 0.278 \$190.85	2.9978 2.9978 \$2,645.71	0.2817 0.2817 \$157.18	\$2,993.74
0037	Deb-El Foods Totals: Cost Analysis:	2 99	4100 250 -	891 196	20.228 0.384 20.612 \$14,150.56	345.8381 0.4003 346.2384 \$305,568.36	75.1565 0.3139 75.4704 \$42,109.34	\$361,828.26
0062	Garcia Uniforms, Inc. Totals: Cost Analysis:	2 99	595 250	181 196	2.481 0.089 2.570 \$1,764.36	6.1557 0.0928 6.2485 \$5,514.55	1.8726 0.0727 1.9453 \$1,085.41	\$8,364.32
0193	Actavis Totals: Cost Analysis:	3	650 ·	90	. 14.093 14.093 \$9,675.13	38.1991 38.1991 \$33,712.11	5.2891 5.2891 \$2,951.10	\$46,338.35
0070	LORCO Totals: Cost Analysis:	2	16984	121	22.483 22.483 \$15,435.04	1592.3198 1592.3198 \$1,405,281.73	11.3442 11.3442 \$6,329.62	\$1,427,046.39
0075	Mastercraft Electroplating Totals: Cost Analysis:	99	250	196	0.019 0.019 \$13.04	0.0198 0.0198 \$17.48	0.0155 0.0155 \$8.66	\$39.19
0093	The Mills at Jersey Gardens Totals: Cost Analysis:		8	29	7.260 7.260 \$4,984.14	0.2422 0.2422 \$213.74	0.8780 0.8780 \$489.86	\$5,687.75
0098	Olympia Trails Totals: Cost Analysis:		249 250	97 196	2.131 0.159 2.290 \$1,572.13	2.2127 0.1658 2.3784 \$2,099.06	0.8620 0.1300 0.9919 \$553.45	\$4,224.64
0100	Michaels Foods - North Avenue Facility Totals: Cost Analysis:		2752 1806 842 250	299 227 168 196	28.352 4.356 2.492 0.766 35.966 \$24,691.40	325.3630 32.8051 8.7498 0.7986 367.7165 \$324,523.51	35.3501 4.1233 1.7458 0.6261 41.8453 \$23,347.96	\$372,562.87

INDUSTRIAL USER CHARGE - 2023

Municipality: ELIZABETH

			Concentra	ation	Flow per MG \$686.5206116	Cost Factors BOD per Ton \$882.5373685	TSS per Ton \$557.9584963	
IU#	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
	Michaels Foods -					•		
0105	Papetti Plaza Facility	2	1747	293	38,505	280,5085	47.0458	
0100	rapetti i laza i dollity	2a	896	178	5.794	21.6482	4.3007	
		2b	724	175	1.791	5.4072	1.3070	
		3	298	294	0.311	0.3865	0.3813	
	Totals: Cost Analysis:				46.401 \$31,855.24	307.9504 \$271,777.75	53.0347 \$29,591.17	\$333,224.16
	Superior Powder			00	3,021	3.0864	1,2472	
0148	Coating	1	245	99	0.546	0.5692	0.4463	
	T-4-1-1	99	250 、	196	3.567	3,6556	1.6934	
	Totals: Cost Analysis:				\$2,448.82	\$3,226.21	\$944.86	\$6,619.89
0406	Duro Hilex Poly LLC	1	591	382	1.676	4.1305	2,6698	
0195	Duro Hilex Poly LLO	2	208	265	0.866	0.7511	0.9570	
		3(99)	250	196	0.575	0.5994	0.4700	
	Totals:				3.117	5.4810	4.0967	** ***
	Cost Analysis:				\$2,139.88	\$4,837.21	\$2,285.79	\$9,262.88
			,				0.7000	
0165	Wakefern Food Corp.	2	176	145	1.158	0.8499	0.7002 4.8253	
		3a	116	218	5.308	2.5676	0.5288	
		4	549	262	0.484	1.1080 0.0782	0.0613	
	·	(7) 99	250	196	0.075 7.025	4.6037	6.1156	
	Totals				\$4,822.81	\$4,062.93	\$3,412.23	\$12,297.96
	Cost Analysis				ψ·1,022.0 V	• .,		
0178	Smithfield Packaged	3	585	251	0.981	2.3931	1.0268	
0170	Meats	99	250	196	0.040	0.0417	0.0327	
	Totals		·		1.021	2.4348	1.0595	40 440 00
	Cost Analysis				\$700.94	\$2,148.80	\$591.14	\$3,440.88
		_	4504	1098	0.782	14.9710	3.5805	
0189	Prince Donut Co.	3	4591		0.185	0.1929	0,1512	
	T-4-1-	99	250	196	0.967	15.1638	3,7317	
	Totals Cost Analysis				\$663.87	\$13,382.65	\$2,082.14	\$16,128.66
		٠						
0194	*Erie Street (former MGP Site)	3	0	0	0.000	0.0000	0.0000	
	Totals Cost Analysis				0,000 \$0.00	0.0000 \$0.00	0.0000 \$0.00	\$0.00
V milanibis	ELIZABETH TOTALS	, , , , , , , , , , , , , , , , , , ,			167.6690	2,695.650	207.7931	\$2,610,059.95
					\$115,108.22	\$2,379,011.81	\$115,939.91	φ <u>ε</u> ,υ ιυ,υυσ.υσ

^{*}Erie Street (Former MGP Site) Did not discharge during this Assessment Period.