

December 19, 2014

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 2015)

I present herewith the 80th 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, 2013 through October 31, 2014. 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 2015. 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 2014, 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 20, 2013.

During 2014, 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 (2015) dwelling unit figures formulated by each municipality in 2014.

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, 2013, through October 31, 2014 and projected for a twelve (12) month period in 2015. 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 2015, 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, 2013, through October 31, 2014, and projected for 2015 and are based upon actual 2013-2014 operating statistics as well as a recent upgraded 2014 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.	Flow	20,365.6450 MG/Year	55.7963 MGD
2.	BOD	15,438.3672 Tons/Year	84,593.7929 Lbs/Day
	TSS	14,013.4078 Tons/Year	76,785.7962 Lbs/Day
3.	Estimated Industrial Flow	516.2230 MG/Year	1.4143 MGD
4.	Estimated Industrial BOD	3,523.1780 Tons/Year	19,305.0849 Lbs/Day
5.	Estimated Industrial TSS	533.1189 Tons/Year	2,921.1994 Lbs/Day
6.	Estimated Total Operating Expenses in 2015		
			\$22,052,425 STP
			7,136,326 SDWF
			313,850 SDF
			1,059,501 Sewers
			<hr/> \$30,562,102 Total
7.	Estimated Total Dwelling Units in System		
			151,857 JM Members
			47,181 Elizabeth
			<hr/> 199,038 Total

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

Flow	33.9094272%
BOD	44.2362760%
Suspended Solids	21.8542968%

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 2015 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 2015

Treatment Plant

	<u>Total for 2015</u>		<u>Domestic & Commercial</u>		<u>Industrial</u>
Flow	20,365.6450	MG/Yr. ¹	19,849.4220	MG/Yr.	516.2230 MG/Yr.
BOD	15,438.3672	Tons/Yr. ¹	11,915.1892	Tons/Yr.	3,523.1780 Tons/Yr.
Suspended Solids	14,013.4078	Tons/Yr. ¹	13,480.2889	Tons/Yr.	533.1189 Tons/Yr.

(1) Based upon data from November 1, 2013 thru October 31, 2014 (365 days)

Cost Allocation

	<u>Total for 2015</u>		<u>Domestic & Commercial</u>		<u>Industrial</u>
Flow	\$10,004,163.00		\$9,750,580.00		\$253,583.00
BOD	13,050,852.00		10,072,527.00		2,978,325.00
Suspended Solids	6,447,586.00		6,202,297.00		245,289.00
	<u>\$29,502,601.00</u>		<u>\$26,025,404.00</u>		<u>\$3,477,197.00</u>
	100.000000%		88.21393070%		11.78606930%

Elizabeth Contribution

Flow	-	5,236.6460	MG/Yr.
BOD	-	5,306.3886	Tons/Yr.
TSS	-	3,139.3486	Tons/Yr.

Trunk Sewer Flow¹

	<u>Total for 2015</u>		<u>Domestic & Commercial</u>		<u>Industrial</u>
	15,128.9990	MG/Yr. ²	14,801.5610	MG/Yr.	327.438 MG/Yr.

(1) Based upon data from November 1, 2013 thru October 31, 2014 (365 days)

(2) (20,365.645 - 5,236.6460)

COST ALLOCATION

\$1,059,501.00	\$1,036,570.14	\$22,930.86
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Member municipalities will be assessed \$6.83 (\$1,036,570.14/151,857) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$491.23 per MG for flow, \$845.35 per ton of BOD, and \$460.10 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	\$253,583.00	/	516.2230	=	\$491.2276284 /MG
BOD	\$2,978,325.00	/	3,523.1780	=	\$845.3518395 /Ton
Suspended Solids	\$245,289.00	/	533.1189	=	\$460.1018673 /Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$70.03/MG of flow for trunk sewer use ($\$22,930.86/327.438 = \$70.031/\text{MG}$). This brings the total flow cost to \$561.26/MG ($\$491.228 + \70.03) for the indicated industries of member municipalities.

Based upon the user charges for 2015, 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 2014 industrial waste survey of the service area. These are estimates for 2015 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 \$30,562,105.00 for 2015. 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 30.6791242% 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
2015

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,215	\$ -
Hillside	8,544	400,246
Irvington	26,922	832,777
Maplewood	9,591	13,388
Millburn	9,896 ⁴	-
Newark	17,427	-
Roselle Park	4,752	743
South Orange	7,985	-
Summit	14,398 ²	67,825 ³
Union	25,019	382,066
West Orange	20,108	-
Elizabeth	47,181	1,803,087
	<u>199,038</u>	<u>\$ 3,500,132</u>

(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 (3820)

(3) Includes Murray Hill

(4) Includes Livingston (402)

Table III
Joint Meeting of Essex and Union Counties
Computation of Estimated Percent
Contribution By City of Elizabeth
For Period 11/1/2013-10/31/2014 and Projected Contribution for 2015

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	20,365.645 MG	5,236.646 MG		15,128.999 MG	
		Industrial	D&C	Industrial	D&C
		170.09	5,066.556	327.438	14,801.561
		\$ 83,552.91	\$ 2,488,832.29	\$ 183,777.45	\$ 8,307,506.06
Unit Charge \$ 491.2276284 Per MG for Elizabeth					
Unit Charge \$ 561.2587793 Per MG for Joint Meeting					
BOD:	15,438.3672 Tons	5,306.3886 Tons		10,131.9786 Tons	
		Industrial	D&C	Industrial	D&C
		1,815.6897	3,490.6989	1,647.07069622	8,484.90790378
		\$ 1,534,896.63	\$ 2,950,868.74	\$ 1,392,354.24	
Unit Charge	\$845.3518395 Per Ton				
TSS:	14,013.4078 Tons	3,139.3486 Tons		10,874.0592 Tons	
		Industrial	D&C	Industrial	D&C
		258.4797	2,880.8689	262.78959698	10,611.26960302
		\$ 118,926.99	\$ 1,325,493.16	\$ 120,909.98	
Unit Charge	\$460.1018673 Per Ton				
			\$ 8,502,570.72	\$ 1,697,041.67	

City of Elizabeth (Contribution from Pumping Station) \$ 8,502,570.72

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	18.6950 MG/Year at	\$ 491.2276284	9,183.50
BOD:	60.4176 Tons/Year at	845.3518395	51,074.13
TSS:	11.8496 Tons/Year at	460.1018673	5,452.02

Joint Meeting Industrial	1,697,041.67
Subtotal	\$ 10,265,322.04

Total 2015 Budget	\$ 30,562,102.00
Subtotal (above)	(10,265,322.04)
Subtotal (EDU's)	\$ 20,296,779.96

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 20,296,780
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 151,857 (X + \$6.825962188) + 3905 (X) = \$ 20,296,780

Equivalent Units-Member Municipalities 151,857

Elmora EDU's =	3,905	\$123.6515313110	Per Unit = X
		\$130.4774934990	Per Unit = X+Y

Joint Meeting EDU Assessment	\$ 19,813,920.73
Elmora Area Assessment	\$ 482,859.23

Total Anticipated Payment from the City of Elizabeth

Pumping Station	\$ 8,502,570.72
Elmora EDU's	482,859.23
Elmora Industrial	65,709.65
	<hr/>
	\$ 9,051,139.60

Total Anticipated Payment from Member Municipalities

EDU's	19,813,920.73
Industrial	1,697,041.67
	<hr/>
	\$ 21,510,962.40

Estimated Percent Contribution of Treatment Plant, Sludge Dewatering and Sludge Drying Facility Budgets by
 City of Elizabeth
 \$ 9,051,139.60 / \$ 29,502,601.00 = 30.6791242%

Table IV
Joint Meeting of Essex and Union Counties
Percent Allocation of Infiltration / Inflow

Municipality	Base Year - 1982		Base Year - 1982		Base Year - 1982		SSES - November 2014 (GPD) ⁴	(Percent)	Base Year - 1982		SSES - November 2014 (GPD) ⁵	(Percent)
	Capacity By Contract (MGD)	Capacity By Contract (Percent)	Phase IIB - SSES ¹ (GPD) ³	Infiltration (Percent)	Phase IIB - SSES ² (GPD)	Inflow (GPD)			Phase IIB - SSES ² (Percent)	Inflow (GPD)		
East Orange	5.50	4.88%	70,747	2.11%	34,580	3,007,440	44,022	2.19%	5.79%	274,895	218,160	0.53%
Hillside	12.20	10.83%	79,012	2.36%	25,895	1,185,120	32,980	1.64%	2.28%	1,488,581	1,185,120	2.87%
Irrington	18.61	16.52%	1,115,672	33.31%	625,910	8,612,640	797,026	39.64%	16.57%	9,548,702	7,610,400	18.41%
Maplewood	7.08	6.29%	389,078	11.62%	151,741	5,449,680	193,273	9.61%	10.48%	2,588,160	2,062,080	4.99%
Millburn	6.00	5.33%	191,609	5.72%	119,529	2,729,520	152,240	7.57%	5.25%	2,992,722	2,384,640	5.77%
Newark	15.50	13.76%	234,484	7.00%	144,793	1,959,540	184,463	9.17%	3.77%	2,448,119	1,951,200	4.72%
Roselle Park	9.44	8.38%	106,187	3.17%	51,159	1,576,080	65,147	3.24%	3.03%	1,976,130	1,576,080	3.81%
South Orange	7.00	6.22%	410,876	12.27%	65,844	2,183,760	83,906	4.17%	4.20%	2,406,626	1,916,640	4.64%
Summit	7.50	6.66%	171,657	5.13%	51,001	3,651,120	64,916	3.23%	7.02%	2,214,718	1,764,720	4.27%
Union	10.30	9.14%	329,127	9.83%	186,952	14,534,640	238,013	11.84%	27.96%	17,479,156	13,935,520	33.70%
West Orange	13.50	11.99%	250,811	7.48%	121,582	7,097,040	154,847	7.70%	13.65%	8,449,124	6,744,600	16.29%
	112.63	100.00%	3,349,260	100.00%	1,578,986	51,986,580	2,010,833	100.00%	100.00%	51,866,933	41,349,160	100.00%

(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) "Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346%

(4) 2014 - Infiltration related to base year total = 2.011 MGD / 52.79 MGD = 3.80943360%

- Adjusted for period 11/1/2013 - 10/31/2014: (3.80943360% x 15,128,9990 = 576.33 MG / Year / 365 = 1,578,986 GPD)

(5) 2014 inflow adjusted for period 11/1/2013 - 10/31/2014 - (41.67" / 33.22") x (41,349,160) = 51,866,933 GPD

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2014 - Summary of Infiltration and Inflow

Municipality	Phase IIB		2014		Phase IIB		2014		2014	
	SSES Infiltration (GPD)	2013 Infiltration (GPD)	2014 Infiltration Removed (GPD)	2014 Infiltration (GPD)	SSES Inflow (GPD)	2013 Inflow (GPD)	2014 Inflow Removed (GPD)	2014 Inflow (GPD)	2014 Inflow (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	797,026	-	797,026	8,612,640	7,610,400	-	-	7,610,400	
Maplewood	389,078	199,485	6,212	193,273	5,449,680	2,134,800	72,720	2,062,080		
Millburn	191,609	152,240	-	152,240	2,729,520	2,384,640	-	-	2,384,640	
Newark	234,484	184,463	-	184,463	1,959,540	1,951,200	-	-	1,951,200	
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	1,942,560	25,920	1,916,640		
Summit	171,657	64,916	-	64,916	3,651,120	1,764,720	-	-	1,764,720	
Union	329,127	238,013	-	238,013	14,534,640	13,939,840	4,320	13,935,520		
West Orange	250,811	154,847	-	154,847	7,097,040	6,744,600	-	-	6,744,600	
Total	3,349,260	2,017,045	6,212	2,010,833	51,986,580	41,452,120	102,960	41,349,160		

Table V

Joint Meeting of Essex and Union Counties

Cost Allocation - Flow, BOD & TSS with Infiltration / Inflow

		Total	Domestic & Commercial	Industrial
Flow		15,128,9990 MG	14,801,5610 MG	327,4380 MG
		\$7,942,700.72	\$7,758,923.27	
Infiltration	3.8094336%	576.33	563.86	\$183,777.45
Inflow	11.3590463%	1,718.51	1,681.32	12.47
				37.19
BOD	at \$845.3518395 Per Ton	10,131.9786 Tons	8,484.9079 Tons	1,647.0707 Tons
		\$8,565,086.75	\$7,172,732.50	\$1,392,354.24
TSS	at \$460.1018673 Per Ton	10,874.0592 Tons	10,611.2696 Tons	262.7896 Tons
		\$5,003,174.94	\$4,882,264.96	\$120,909.98
Total		\$21,510,962.41 ¹	\$19,813,920.73	\$1,697,041.67

(1) Amount anticipated from Members after allocation of

30.6791242% to City of Elizabeth \$ 9,051,139.60

"Base Year - 1982"

Infiltration: 3.35 MGD / 52.79 MGD =

6.34590% (Per H&S Phase IIB Report)

Inflow: 113 MGD (Excluding Elizabeth) / 137 MGD (Total) =

82.4817518% 1 inch of rain = 50 mg of inflow (Per H&S Phase IIB Report)

"2013 - 2014"

Infiltration: 2.011 MGD/52.79MGD =

3.80943360%

X

15,128.9990

576.33 MG / Year

(November 1, 2013 - October 31, 2014)

Inflow: Rainfall = 41.67 Inches X 50 MG X 82.482%

1,718.51 MG / Year

Total D&C

\$19,813,920.73

Less: Infiltration

(295,573.32)

Less: Inflow

(881,341.70)

Net after infiltration and inflow

\$18,637,005.71

Equivalent Dwelling Units

151,857

User Charge Per Unit

\$122.72734026090

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2015

Domestic & Commercial											
Municipality	Dwelling Units	User Charge		Infiltration		Inflow		Total Cost	Unit Cost		
		\$	Per Unit	Percent ¹	Amount	Percent ²	Amount				
East Orange	7,215		\$885,477.76	2.19%	\$6,473.06	0.53%	\$4,671.11	\$896,621.93	\$124.2719		
Hillside	8,544		1,048,582.40	1.64%	4,847.40	2.87%	25,294.51	1,078,724.31	126.2552		
Irvington	26,922		3,304,065.45	39.64%	117,165.26	18.41%	162,255.01	3,583,485.72	133.1062		
Maplewood	9,591		1,177,077.92	9.61%	28,404.60	4.99%	43,978.95	1,249,461.47	130.2744		
Millburn	9,896 ³		1,214,509.76	7.57%	22,374.90	5.77%	50,853.42	1,287,738.08	130.1271		
Newark	17,427		2,138,769.36	9.17%	27,104.07	4.72%	41,599.33	2,207,472.76	126.6697		
Roselle Park	4,752		583,200.32	3.24%	9,576.58	3.81%	33,579.12	626,356.02	131.8089		
South Orange	7,985		979,977.81	4.17%	12,325.41	4.64%	40,894.25	1,033,197.47	129.3923		
Summit	14,398 ⁴		1,767,028.25	3.23%	9,547.02	4.27%	37,633.29	1,814,208.56	126.0042		
Union	25,019		3,070,515.33	11.84%	34,995.88	33.70%	297,012.15	3,402,523.36	135.9976		
West Orange	20,108		2,467,801.36	7.70%	22,759.15	16.29%	143,570.56	2,634,131.07	130.9992		
	151,857		\$18,637,005.72	100.00%	\$295,573.33	100.00%	\$881,341.70	\$19,813,920.75	\$130.4775		
(1) See Table IV - Infiltration for November of the Prior Year									\$122.1410 2014		
(2) See Table IV - Inflow for November of the Prior Year									\$125.0975 2013		
(3) Includes Livingston (402)									\$103.1856 2012		
(4) Includes New Providence (3820)									\$97.1815 2011		

(1) See Table IV - Infiltration for November of the Prior Year

(2) See Table IV - Inflow for November of the Prior Year

(3) Includes Livingston (402)

(4) Includes New Providence (3820)

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2015

Municipality	Industrial								
	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Flow (MG / Year)			Flow ³ (\$/Year)	Total Cost
					Dry Weather	Infiltration 3.809434%	Inflow 11.359046%		
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	411.7782	348,097.45	42.3983	19,507.52	49.34	2.22	6.61	32,640.57	400,245.54
Irvington	919.4322	777,243.72	27.9674	12,867.84	64.49	2.90	8.64	42,665.21	832,776.77
Maplewood	7.4230	6,275.06	4.3454	1,999.31	7.73	0.35	1.04	5,113.63	13,388.00
Millburn	0.0000	0.00	0.0000	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
Roselle Park	0.1808	152.86	0.3014	138.66	0.68	0.03	0.09	450.69	742.21
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	22.8330	19,301.93	27.5072	12,656.10	54.21	2.43	7.26	35,865.56	67,823.59
Union	285.4234	241,283.22	160.2700	73,740.55	101.33	4.55	13.57	67,041.80	382,065.57
West Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
	1,647.0707	\$1,392,354.24	262.7896	\$120,909.98	277.77	12.47	37.19	\$183,777.45	\$1,697,041.67

- (1) At \$845.3518395/Ton
(2) At \$460.1018673/Ton
(3) At \$561.2587793/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
2015

Domestic & Commercial					
Municipality	Total Assessments ¹	User Charge	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
		Domestic Sewage 122.7273403			
East Orange	\$896,621.93	\$885,477.76	\$0.00	\$11,144.17	4.1682%
Hillside	1,478,969.85	1,048,582.40	400,245.54	30,141.91	6.8754%
Irvington	4,416,262.49	3,304,065.45	832,776.77	279,420.27	20.5303%
Maplewood	1,262,849.47	1,177,077.92	13,388.00	72,383.55	5.8707%
Millburn	1,287,738.08	1,214,509.76	0.00	73,228.32	5.9864%
Newark	2,207,472.76	2,138,769.36	0.00	68,703.40	10.2621%
Roselle Park	627,098.23	583,200.32	742.21	43,155.70	2.9152%
South Orange	1,033,197.47	979,977.81	0.00	53,219.66	4.8031%
Summit	1,882,032.15	1,767,028.25	67,823.59	47,180.31	8.7492%
Union	3,784,588.93	3,070,515.33	382,065.57	332,008.03	17.5938%
West Orange	2,634,131.07	2,467,801.36	0.00	166,329.71	12.2456%
	\$21,510,962.42	\$18,637,005.72	\$1,697,041.67	\$1,176,915.03	100.0000%
Elizabeth	9,051,142.58				
Total	\$30,562,105.00				

(1) Reflects anticipated payment of \$9,051,142.58 from the City of Elizabeth which is 30.6791242% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2015 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 2015 Assessment with 2014 Assessment

<u>Municipality</u>	<u>2014</u>	<u>2015</u>		<u>Comparison</u>	
				<u>Amount</u>	<u>Percentage</u>
East Orange	\$845,488.12	\$896,621.93	(+)	\$51,133.81	6.05%
Hillside	1,338,076.77	1,478,969.85	(+)	140,893.08	10.53%
Irvington	4,216,592.33	4,416,262.49	(+)	199,670.16	4.74%
Maplewood	1,182,855.06	1,262,849.47	(+)	79,994.41	6.76%
Millburn	1,201,149.97	1,287,738.08	(+)	86,588.11	7.21%
Newark	2,076,270.78	2,207,472.76	(+)	131,201.98	6.32%
Roselle Park	585,803.54	627,098.23	(+)	41,294.69	7.05%
South Orange	968,567.59	1,033,197.47	(+)	64,629.88	6.67%
Summit	1,745,324.42	1,882,032.15	(+)	136,707.73	7.83%
Union	3,505,883.39	3,784,588.93	(+)	278,705.54	7.95%
West Orange	2,456,438.73	2,634,131.07	(+)	177,692.34	7.23%
	<u>\$20,122,450.70</u>	<u>\$21,510,962.42</u>	(+)	<u>\$1,388,511.72</u>	<u>6.90%</u>
Elizabeth	9,906,651.30	9,051,142.58	(-)	\$ (855,508.72)	-8.64%
Total	<u>\$30,029,102.00</u>	<u>\$30,562,105.00</u>	<u>(+)</u>	<u>\$533,003.00</u>	<u>1.77%</u>

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

City of Elizabeth percentage	
2011	38.46028870%
2012	38.46747020%
2013	35.5058206%
2014	34.1765238%


Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2015 as a result of the Agreement with the City of Elizabeth which requires 30.67912442% of the 2015 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 30.6791242 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 2014.

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 2015 are apportioned as follows:

	<u>2015</u>	<u>2014</u>		<u>2015</u>	<u>2014</u>
East Orange	4.1682%	4.2017%	Roselle Park	2.9152%	2.9112%
Hillside	6.8754%	6.6497%	South Orange	4.8031%	4.8134%
Irvington	20.5303%	20.9547%	Summit	8.7492%	8.6735%
Maplewood	5.8707%	5.8783%	Union	17.5938%	17.4227%
Millburn	5.9864%	5.9692%	West Orange	12.2456%	12.2074%
Newark	10.2621%	10.3182%	Total	<u>100.0000%</u>	<u>100.0000%</u>

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
2015 Budget

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,106,405	\$ 129,172	\$ 9,423	\$ -	\$ 1,245,000
Gas Service	715,200	110,000	-	-	825,200
Fuel, Oil & Kerosene	376,000	113,000	-	-	489,000
Water Service	150,000	85,000	3,500	-	238,500
Chemicals	2,366,500	593,900	6,800	2,200	2,969,400
Sludge Disposal	-	2,171,808	-	-	2,171,808
Insurance	575,984	115,196	53,758	23,039	767,977
Administration	2,143,764	1,205,680	10,000	234,318	3,593,762
Labor	5,371,198	1,062,427	134,258	16,214	6,584,097
Benefits	4,379,041	730,726	91,111	54,780	5,255,658
Equipment	375,000	109,000	-	-	484,000
Printing & Stationery	21,000	2,000	-	1,000	24,000
Maintenance, Supplies & Spare Parts	1,410,333	558,917	5,000	573,250	2,547,500
Screening Disposal	160,000	-	-	-	160,000
Reserve Contingency	125,000	-	-	-	125,000
Miscellaneous Expenses	177,500	87,500	-	120,000	385,000
Technical & Professional Services	802,500	50,000	-	25,000	877,500
Replacement Fund	1,250,000	-	-	-	1,250,000
NJPDES & Miscellaneous Permit Fee	547,000	12,000	-	9,700	568,700
	\$ 22,052,425	\$ 7,136,326	\$ 313,850	\$ 1,059,501	\$ 30,562,102
	72.16%	23.35%	1.03%	3.46%	100.00%

Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A (Continued)
Operations and Management Cost Allocations
(Treatment Plant)

	Estimated Total Cost	Percent Flow	Cost Flow	Percent SS	Cost SS	Percent BOD	Cost BOD
General Expenditures 1	\$ 4,107,884	80%	\$ 3,286,307	10%	\$ 410,788	10%	\$ 410,789
Power	1,106,405	40%	\$ 442,562	5%	\$ 55,320	55%	\$ 608,523
Chlorine	1,206,000	40%	\$ 482,400			60%	\$ 723,600
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	3,160,333	28%	\$ 884,893	27%	\$ 853,290	45%	\$ 1,422,150
Fuel, Oil & Kerosene	376,000	40%	\$ 150,400	30%	\$ 112,800	30%	\$ 112,800
Administration, Labor & Benefits (Payroll Retirement)	11,894,003	40%	4,757,601	10%	\$ 1,189,400	50%	\$ 5,947,002
Sludge Processing 2	201,800			50%	\$ 100,900	50%	\$ 100,900
Total	\$22,052,425		\$ 10,004,163		\$ 2,722,498		\$ 9,325,764
	100%		45.3653646%		12.3455720%		42.2890634%

(1) General Expenditures
(From the Approved Budget)

(2) Sludge Processing

Insurance	\$ 575,984	Polymer	\$ 170,000
Technical & Professional Services	802,500	K2MnO4	31,800
Stationery & Printing	21,000		
Gas	715,200		
Water	150,000		
Miscellaneous	177,500		
Service Contracts	160,000		
Permit Fees	547,000		
Sodium Bisulfite & Misc. Chemicals	958,700		
	<u>\$4,107,884</u>		<u>\$ 201,800</u>

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	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 22,052,425	\$ 10,004,163	\$ 2,722,498	\$ 9,325,764
Dewatering Facility	7,136,326		3,568,163	3,568,163
Drying Facility	313,850		156,925	156,925
	<u>\$ 29,502,601</u>	<u>\$ 10,004,163</u>	<u>\$ 6,447,586</u>	<u>\$ 13,050,852</u>
Subtotal	100.00%	33.9094272%	21.8542968%	44.2362760%
Sewers 1	\$ 1,059,501			
Total	<u>\$ 30,562,102</u>			

(1) Joint Meeting Members Only

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2015
SUMMARY**

MUNICIPALITY	FLOW (MG)	LOADINGS	
		BOD (tons)	TSS (tons)
HILLISIDE	58.156	411.77818422	42.39826233
IRVINGTON	76.017	919.43222448	27.96738102
MAPLEWOOD	9.111	7.42301283	4.34536935
MURRAY HILL	15.089	1.09485852	4.97190768
ROSELLE PARK	0.803	0.18081954	0.30136590
SUMMIT	48.813	21.73815996	22.53526380
UNION	119.449	285.42343122	160.27004688
MEMBERS TOTAL	327.438	1647.07069077	262.78959696
ELIZABETH	188.785	1876.10721936	270.32935728
GRAND TOTAL	516.223	3523.17791013	533.11895424

MUNICIPALITY	FLOW	COSTS		
		BOD	TSS	TOTAL
HILLISIDE	\$32,640.57	\$348,097.45	\$19,507.52	\$400,245.53
IRVINGTON	\$42,665.21	\$777,243.72	\$12,867.84	\$832,776.78
MAPLEWOOD	\$5,113.63	\$6,275.06	\$1,999.31	\$13,388.00
MURRAY HILL	\$8,468.83	\$925.54	\$2,287.58	\$11,681.96
ROSELLE PARK	\$450.69	\$152.86	\$138.66	\$742.21
SUMMIT	\$27,396.72	\$18,376.39	\$10,368.52	\$56,141.64
UNION	\$67,041.80	\$241,283.22	\$73,740.55	\$382,065.57
MEMBERS TOTAL	\$183,777.45	\$1,392,354.24	\$120,909.98	\$1,697,041.67
ELIZABETH	\$92,736.41	\$1,585,970.69	\$124,379.04	\$1,803,086.14
GRAND TOTAL	\$276,513.86	\$2,978,324.93	\$245,289.03	\$3,500,127.81

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2015
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$561.2587793	\$845.3518395	\$460.1018673
ELIZABETH	\$491.2276284	\$845.3518395	\$460.1018673

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$561.2587793	BOD per Ton \$845.3518395	TSS per Ton \$460.1018673	
1042	GEC Marconi / BAE	1		1	2	4.515	0.0188	0.0377	
	Totals:					4.515	0.0188	0.0377	
	Cost Analysis:					\$2,534.08	\$15.92	\$17.33	\$2,567.32
1050	Manhattan Drug Co.	4		706	542	0.577	1.6987	1.3041	
	Totals:					0.577	1.6987	1.3041	
	Cost Analysis:					\$323.85	\$1,436.00	\$600.02	\$2,359.86
1094	Oasis Foods (AAK Inc.)	3		1091	285	7.373	33.5432	8.7624	
		99		190	170	1.144	0.9064	0.8110	
	Totals:					8.517	34.4496	9.5734	
	Cost Analysis:					\$4,780.24	\$29,122.06	\$4,404.75	\$38,307.05
1058	Quest Industries	2		104	56	0.282	0.1223	0.0659	
		99		190	170	0.005	0.0040	0.0035	
	Totals:					0.287	0.1263	0.0694	
	Cost Analysis:					\$161.08	\$106.73	\$31.93	\$299.74
1090	Union Beverages	1		2149	152	38.406	344.1688	24.3433	
		2		1051	1548	0.688	3.0153	4.4412	
	Totals:					39.094	347.1841	28.7844	
	Cost Analysis:					\$21,941.85	\$293,492.73	\$13,243.76	\$328,678.34
1091	Hillside Beverage	2		2045	60	2.490	21.2338	0.6230	
		99		190	170	0.057	0.0452	0.0404	
	Totals:					2.547	21.2790	0.6634	
	Cost Analysis:					\$1,429.53	\$17,988.25	\$305.23	\$19,723.01
1092	A&H Products	1		688	181	2.382	6.8339	1.7979	
		99		190	170	0.237	0.1878	0.1680	
	Totals:					2.619	7.0216	1.9659	
	Cost Analysis:					\$1,469.94	\$5,935.75	\$904.50	\$8,310.19
HILLSIDE TOTALS						58.1560	411.7782	42.3983	
						\$32,640.57	\$348,097.45	\$19,507.52	\$400,245.53

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Cost Factors					ANNUAL PAYMENT
			Concentration	Flow per MG	BOD per Ton	TSS per Ton		
				\$561.2587793	\$845.3518395	\$460.1018673		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2066	Wayne County Foods	1	1951	57	0.168	1.3668	0.0399	
		99	190	170	0.167	0.1323	0.1184	
	Totals:			0.335	1.4991	0.1583		
	Cost Analysis:			\$188.02	\$1,267.27	\$72.84	\$1,528.14	
2072	Clean-Tex Services	1	268	79	37.654	42.0806	12.4044	
		99	190	170	0.521	0.4128	0.3693	
	Totals:			38.175	42.4934	12.7737		
	Cost Analysis:			\$21,426.05	\$35,921.87	\$5,877.20	\$63,225.12	
2076	International Vitamin	1	902	177	2.524	9.4936	1.8629	
		Totals:			2.524	9.4936	1.8629	
	Cost Analysis:			\$1,416.62	\$8,025.45	\$857.14	\$10,299.21	
2078	City Barrel	1	627	65	0.246	0.6432	0.0667	
		99	190	170	0.062	0.0491	0.0440	
	Totals:			0.308	0.6923	0.1106		
	Cost Analysis:			\$172.87	\$585.25	\$50.90	\$809.02	
3055	Maplewood Beverage	2	6081	89	34.104	864.8014	12.6570	
		99	190	170	0.571	0.4524	0.4048	
	Totals:			34.675	865.2538	13.0618		
	Cost Analysis:			\$19,461.65	\$731,443.88	\$6,009.76	\$756,915.29	
IRVINGTON TOTALS					76.0170	919.4322	27.9674	
					\$42,665.21	\$777,243.72	\$12,867.84	\$832,776.78

Table Linen LLC - Ceased operation as of November 15, 2013.

City Barrel - New Industrial User.

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: MAPLEWOOD

					Cost Factors			
					Flow per MG	BOD per Ton	TSS per Ton	
					\$561.2587793	\$845.3518395	\$460.1018673	
			Concentration					
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
3020	Gleason Cleaners	1	143	61	0.664	0.3959	0.1689	
		99	190	170	0.114	0.0903	0.0808	
	Totals:				0.778	0.4863	0.2497	
	Cost Analysis:				\$436.66	\$411.07	\$114.89	\$962.63
3033	NJ Transit - Hilton Gar.	3a	308	343	2.351	3.0195	3.3627	
		4	210	30	4.058	3.5536	0.5077	
	Totals:				6.409	6.5731	3.8703	
	Cost Analysis:				\$3,597.11	\$5,556.60	\$1,780.74	\$10,934.45
3046	UniClean	1	33	16	1.773	0.2440	0.1183	
		99	190	170	0.151	0.1196	0.1070	
	Totals:				1.924	0.3636	0.2253	
	Cost Analysis:				\$1,079.86	\$307.39	\$103.68	\$1,490.93
MAPLEWOOD TOTALS					9.1110	7.4230	4.3454	
					\$5,113.63	\$6,275.06	\$1,999.31	\$13,388.00

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5010	Alcatel-Lucentd USA	1	12	80	13.237	0.6624	4.4159	
	Totals:				13.237	0.6624	4.4159	
	Cost Analysis:				\$7,429.38	\$559.94	\$2,031.75	\$10,021.07
5011	Baxter Pharmaceutical	CLOSED						
5020	Fablok Mills	CLOSED						
5021	FRC-Electrical Ind	1	56	72	1.852	0.4325	0.5560	
	Totals:				1.852	0.4325	0.5560	
	Cost Analysis:				\$1,039.45	\$365.60	\$255.84	\$1,660.89
MURRAY HILL TOTALS					15.0890	1.0949	4.9719	
					\$8,468.83	\$925.54	\$2,287.58	\$11,681.96

NOTE - Baxter Pharmaceutical and Fablok Mills both ceased operations and vacated their locations during 2014, both Industries have been removed from the 2015 Industrial Assessment.

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: ROSELLE PARK

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
			BOD (mg/l)	TSS (mg/l)	\$561.2587793	\$845.3518395	\$460.1018673	
6005	Hexacon Electric	2	54	90	0.803	0.1808	0.3014	
	Totals:				0.803	0.1808	0.3014	
	Cost Analysis:				\$450.69	\$152.86	\$138.66	\$742.21
ROSELLE PARK TOTALS					0.8030	0.1808	0.3014	
					\$450.69	\$152.86	\$138.66	\$742.21

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$561.2587793	BOD per Ton \$845.3518395	TSS per Ton \$460.1018673	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5511	Novartis Groundwater	4	1	2	0.862	0.0036	0.0072	
	Totals:				0.862	0.0036	0.0072	
	Cost Analysis:				\$483.81	\$3.04	\$3.31	\$490.15
5512	Summit Property Co.	03A	54	41	34.304	7.7246	5.8650	
	(MSD Corp)	99	190	170	2.693	2.1337	1.9091	
	Totals:				36.997	9.8582	7.7740	
	Cost Analysis:				\$20,764.89	\$8,333.68	\$3,576.84	\$32,675.41
5513	Celgene Corporation	1	260	323	10.954	11.8763	14.7541	
	Totals:				10.954	11.8763	14.7541	
	Cost Analysis:				\$6,148.03	\$10,039.67	\$6,788.37	\$22,976.07
SUMMIT TOTALS					48.8130	21.7382	22.5353	
					\$27,396.72	\$18,376.39	\$10,368.52	\$56,141.64

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$561.2587793	BOD per Ton \$845.3518395	TSS per Ton \$460.1018673	
7015	ACuPowder	3 (99) 4		190	170	0.016	0.0127	0.0113	
				103	104	1.066	0.4579	0.4623	
				Totals:		1.082	0.4705	0.4736	
				Cost Analysis:		\$607.28	\$397.77	\$217.93	
7035	American Products	1		240	399	0.895	0.8957	1.4891	
				Totals:		0.895	0.8957	1.4891	
				Cost Analysis:		\$502.33	\$757.20	\$685.15	
7070	Durex	1		154	182	3.630	2.3311	2.7550	
				Totals:		3.630	2.3311	2.7550	
				Cost Analysis:		\$2,037.37	\$1,970.61	\$1,267.56	
7077	Evoqua Water Tech	4		102	152	1.983	0.8434	1.2569	
				Totals:		1.983	0.8434	1.2569	
				Cost Analysis:		\$1,112.98	\$713.01	\$578.30	
7080	Foremost Mfg	2		12	150	16.466	0.8240	10.2995	
				Totals:		16.466	0.8240	10.2995	
				Cost Analysis:		\$9,241.69	\$696.53	\$4,738.81	
7092	International Paint	2		63	130	7.767	2.0405	4.2105	
				Totals:		7.767	2.0405	4.2105	
				Cost Analysis:		\$4,359.30	\$1,724.91	\$1,937.25	
7145	Merck Sharp & Dohme Corp. (Schering)	5		8	13	29.683	0.9902	1.6091	
				Totals:		29.683	0.9902	1.6091	
				Cost Analysis:		\$16,659.84	\$837.09	\$740.36	
7155	Tessler & Weiss	22		145	175	1.063	0.6427	0.7757	
				Totals:		1.063	0.6427	0.7757	
				Cost Analysis:		\$596.62	\$543.34	\$356.91	
7167	Turbo Braze	1		203	101	0.304	0.2573	0.1280	
				Totals:		0.304	0.2573	0.1280	
				Cost Analysis:		\$170.62	\$217.54	\$58.91	

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$561.2587793	\$845.3518395	\$460.1018673	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7191	Cintas	1	300	253	27.916	34.9229	29.4517	
		Totals:			27.916	34.9229	29.4517	
		Cost Analysis:			\$15,668.10	\$29,522.15	\$13,550.76	\$58,741.01
7192	Merril Corporation	1	314	338	0.676	0.8851	0.9528	
		Totals:			0.676	0.8851	0.9528	
		Cost Analysis:			\$379.41	\$748.26	\$438.38	\$1,566.05
7193	Lioni Latticini	1	1898	390	7.694	60.8954	12.5128	
		99	190	170	1.47	1.1647	1.0421	
		Totals:			9.164	62.0601	13.5548	
		Cost Analysis:			\$5,143.38	\$52,462.60	\$6,236.60	\$63,842.58
7194	BASF Catalysts	1	82	303	0.091	0.0311	0.1150	
		99	190	170	0.454	0.3597	0.3218	
		Totals:			0.545	0.3908	0.4368	
		Cost Analysis:			\$305.89	\$330.38	\$200.98	\$837.25
7195	Deep Foods	1	2355	1229	18.098	177.7287	92.7510	
		2(99)	190	170	0.177	0.1402	0.1255	
		Totals:			18.275	177.8689	92.8765	
		Cost Analysis:			\$10,257.00	\$150,361.83	\$42,732.63	\$203,351.46
UNION TOTALS					119.4490	285.4234	160.2700	
					\$67,041.80	\$241,283.22	\$73,740.55	\$382,065.57

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: ELIZABETH

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$491.2276284	\$845.3518395	\$460.1018673	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
0192	Wild Flavors Inc.	1	784	134	0.069	0.2256	0.0386	
	Totals:				0.069	0.2256	0.0386	
	Cost Analysis:				\$33.89	\$190.69	\$17.74	\$242.33
0037	Deb-EI Foods	1	2765	426	7.429	85.6567	13.1970	
	Totals:				7.429	85.6567	13.1970	
	Cost Analysis:				\$3,649.33	\$72,410.08	\$6,071.98	\$82,131.39
0062	Garcia Laundry	2	906	236	2.516	9.5055	2.4760	
		99	190	170	0.099	0.0784	0.0702	
	Totals:				2.615	9.5839	2.5462	
	Cost Analysis:				\$1,284.56	\$8,101.80	\$1,171.52	\$10,557.88
0067	Actavis (formerly Purepac)	3	775	152	18.695	60.4176	11.8496	
	Totals:				18.695	60.4176	11.8496	
	Cost Analysis:				\$9,183.50	\$51,074.10	\$5,452.04	\$65,709.64
0070	LORCO	2	6936	53	17.826	515.5835	3.9397	
	Totals:				17.826	515.5835	3.9397	
	Cost Analysis:				\$8,756.62	\$435,849.49	\$1,812.67	\$446,418.79
0075	Mastercraft Electroplating	99	190	170	0.026	0.0206	0.0184	
	Totals:				0.026	0.0206	0.0184	
	Cost Analysis:				\$12.77	\$17.41	\$8.48	\$38.67
0078	Magnolia Beef	1	939	288	0.180	0.7048	0.2162	
		99	190	170	0.208	0.1648	0.1475	
	Totals:				0.388	0.8696	0.3636	
	Cost Analysis:				\$190.60	\$735.13	\$167.30	\$1,093.03
0093	OENJ	4	6	26	8.855	0.2216	0.9601	
	Totals:				8.855	0.2216	0.9601	
	Cost Analysis:				\$4,349.82	\$187.29	\$441.72	\$4,978.84
0098	Olympia Trails	1	719	148	2.200	6.5961	1.3578	
		99	190	170	0.470	0.3724	0.3332	
	Totals:				2.670	6.9685	1.6909	
	Cost Analysis:				\$1,311.58	\$5,890.82	\$778.00	\$7,980.40
0100	Michaels Foods - North Avenue Facility	4	3086	429	38.930	500.9754	69.6430	
		4a	5719	481	7.237	172.5896	14.5158	
		4b	1491	278	6.365	39.5742	7.3787	
		99	190	170	0.939	0.7440	0.6657	
	Totals:				53.471	713.8832	92.2031	
	Cost Analysis:				\$26,266.43	\$603,482.46	\$42,422.84	\$672,171.74

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2015

Municipality: ELIZABETH

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$491.2276284	\$845.3518395	\$460.1018673	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
0105	Michaels Foods - Papetti Plaza Facility	2	1994	548	41.285	343.2839	94.3428	
		2a	2438	454	6.476	65.8380	12.2602	
		2b	1190	396	5.193	25.7692	8.5753	
		3	408	630	0.417	0.7095	1.0955	
	Totals:				53.3710	435.6006	116.2739	
	Cost Analysis:				\$26,217.31	\$368,235.80	\$53,497.82	\$447,950.93
	0120	Phelps Dodge	99	190	170	0.268	0.2123	0.1900
Totals:					0.268	0.2123	0.1900	
Cost Analysis:					\$131.65	\$179.50	\$87.41	\$398.56
0148	Superior Powder Coating	1	139	31	2.877	1.6676	0.3719	
		99	190	170	0.394	0.3122	0.2793	
	Totals:				3.271	1.9798	0.6512	
	Cost Analysis:				\$1,606.81	\$1,673.60	\$299.63	\$3,580.03
	0195	Duro Hilex Poly LLC (Formerly Duro-Bag)	1	633	282	4.917	12.9790	5.7821
2			75	117	3.136	0.9808	1.5300	
3			493	683	2.153	4.4262	6.1320	
Totals:						10.206	18.3859	13.4441
Cost Analysis:					\$5,013.47	\$15,542.56	\$6,185.66	\$26,741.68
0165	Wakefern Food Corp.	2	105	134	1.378	0.6034	0.7700	
		3a	204	400	3.402	2.8940	5.6745	
		4	411	185	1.936	3.3181	1.4935	
		99 (7)	190	170	0.029	0.0230	0.0206	
		Totals:				6.745	6.8384	7.9586
	Cost Analysis:				\$3,313.33	\$5,780.85	\$3,661.78	\$12,755.96
0178	814 Americas	3	356	229	1.728	2.5653	1.6501	
		99	190	170	0.055	0.0436	0.0390	
		Totals:				1.783	2.6088	1.6891
	Cost Analysis:				\$875.86	\$2,205.38	\$777.16	\$3,858.40
0189	Prince Donut Co.	3	4367	825	0.929	16.9175	3.1960	
		99	190	170	0.168	0.1331	0.1191	
		Totals:				1.097	17.0506	3.3151
	Cost Analysis:				\$538.88	\$14,413.72	\$1,525.28	\$16,477.88
ELIZABETH TOTALS					188.7850	1,876.1072	270.3294	
					\$92,736.41	\$1,585,970.69	\$124,379.04	\$1,803,086.14