Not a clear copy,

December 12, 1996 (Revised)

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 1997)

I present herewith the 62nd 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, 1995 through October 31, 1996. 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 1997. 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 1996, 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 November 22, 1995.

During 1996, 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 (1997) dwelling unit figures formulated by each municipality in 1996.

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, 366 day period of November 1, 1995, through October 31, 1996 and projected for a twelve (12) month period in 1997. 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 1997, 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 366 day period from November 1, 1995, through October 31, 1996, and projected for 1997 and are based upon actual 1995-1996 operating statistics as well as a recent upgraded 1996 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	25,251.9490	MG/Year		68.9944	MGD
2.	BOD	15,539.3914	Tons/Year		84,914.7071	
	TSS	15,357.0868	Tons/Year		83,918.5071	•
3.	Estimated	l Industrial Flow	1,005.1750	MG/Year	2.7464	MGD
4.		l Industrial BOD	2,767.7282	Tons/Year	15,124.1978	Lbs/Day
5.	Estimated	Industrial TSS	1,343.6680	Tons/Year	7,342.4481	•
6.	Estimated	I Total Operating Exp	penses in 1997		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2007 Duy
					\$11,710,008	STP
					3,872,860	SDWF
					2,249,035	SDF
					847,845	Sewers
					\$18,679,748	Total

7. Estimated Total Dwelling Units in System

146,331	JM Members
47,181	Elizabeth
193,512	Total

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

Flow	28.0479150%
BOD	46.1978315%
Suspended Solids	25.7542535%

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 1997 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 1997 1

Treatment Plant

		Domestic &	
_	Total for 1997	<u>Commercial</u>	Industrial
Flow	25,251.9490 MG/Yr. ¹	24,246.7740 MG/Yr.	1,005.1750 MG/Yr.
BOD	15,539.3914 Tons/Yr. ¹	12,771.6632 Tons/Yr.	2,767.7282 Tons/Yr.
Suspended Solid	15,357.0868 Tons/Yr. ¹	14,013.4188 Tons/Yr.	1,343.6680 Tons/Yr.

⁽¹⁾ Based upon data from November 1, 1995 thru October 31, 1996 (366 days)

Cost Allocation

	Domestic &	
<u>Total for 1997</u>	Commercial	Industrial
Flow \$5,001,477.00	\$4,802,389.00	\$199,088.00
BOD 8,237,952.50	6,770,687.00	1,467,265.50
Suspended Solid <u>4,592,473.50</u>	4,190,655.00	401,818.50
\$17,831,903.00	\$15,763,731.00	\$2,068,172.00
100.000000%	88.40184360%	11.59815640%

Elizabeth Contribution

Flow	•	6,741.1090	MG/Yr.
BOD	-	6,623.0349	Tons/Yr.
TSS	-	3,629.0538	Tons/Yr.

Trunk Sewer Flow 1

	Domestic &	
Total for 1997	<u>Commercial</u>	Industrial
18,510.8400 MG/Yr. ²	17,701.1260 MG/Yr.	809.714 MG/Yr

⁽¹⁾ Based upon data from November 1, 1995 thru October 31, 1996 (366 days)

(2) (25,251.949 - 6,741.1090)

COST ALLOCATION

\$847,845.00 \$810,757.98 \$37,087.02

Member municipalities will be assessed \$5.54 (\$810,757.98/146,331) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$243.87 per MG for flow, \$530.13 per ton of BOD, and \$299.05 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	\$199,088.00	1	1,005.1750 =	\$198.0630239	/MG
BOD	\$1,467,265.50	1	2,767.7282 =	\$530.1335225	/Ton
Suspended Solids	\$401,818.50	1	1,343.6680 =	\$299.0459697	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$45.80/MG of flow for trunk sewer use (\$37,087.02/809.714 = \$45.803/MG). This brings the total flow cost to \$243.87/MG (\$198.063 + \$45.803) for the indicated industries of member municipalities.

Based upon the user charges for 1997, 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 1996 industrial waste survey of the service area. These are estimates for 1997 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 \$18,679,748 for 1997. 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 34.8953679% 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

1997

Municipality	Dwelling Units 1	User Charges Industrial
East Orange	7,238	\$ -
Hillside	8,413	108,379
Irvington	26,710	34,520
Maplewood	9,095	1,425
Millburn	9,702 4	-
Newark	16,972	-
Roselle Park	4,736	455
South Orange	6,833	-
Summit	13,398 2	123,772 ³
Union	24,222	1,353,991
West Orange	19,012	14,297
Elizabeth	47,181 193,512	468,420 \$ 2,105,259

⁽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 (3067)

⁽³⁾ Includes Murray Hill

⁽⁴⁾ Includes Livingston (431)

Table III Joint Meeting of Essex and Union Counties Computation of Estimated Percent

Contribution By City of Elizabeth
For Period 11/1/95-10/31/96 and Projected Contrib

	For I	Period 11/	1/95	5-10/31/96 and	Proj	ected Contribut	ion f	or 1997	
	Treatment Plant			Elizabeth Pu	mpiı	ng Station		Joint M	feeting
Flow:	25,251.949 1	MG		6,741.109	MC	j		18,510.84	MG
				Industrial		D&C		Industrial	<i>D&C</i>
				174.279		6,566.83		809.714	17,701.126
			\$	34,518.23	\$	1,300,646.21	\$	197,461.42	\$ 4,316,696.43
	\$ 198.0630239								
Unit Charge	\$ 243.8656406 I	Per MG fo	or Jo	oint Meeting	dandahan nya		—		
BOD:	15539.3914	Γons		6,623.0349	To	18		8,916.3565	Tons
				Industrial	-	<i>D&C</i>		Industrial	D&C
				695.0108		5,928.0241		2,042.3843	6,873.9722
77 1: 01			\$	368,448.52	\$	3,142,644.30	\$	1,082,736.38	
Unit Charge	530.1335225 I	Per Ton							
TSS:	15,357.0868	Γons		3,629.0538	To	าร		11,728.0330	Tons
				Industrial		D&C		Industrial	D&C
	•			139.0217		3,490.0321		1,192.5981	10,535.4349
			\$	41,573.88	\$	1,043,680.03	\$	356,641.66	
Unit Charge	299.0459697 I	Per Ton							
Oint Ona Bo	255.0455057	er Ton			\$	5,931,511.17	\$	1,636,839.46	
Personal Property of the Parish			مسسسا		<u>`</u>	0,501,511.1,	ΙΨ	_1,030,037.40	
	City of Elizabeth (C	Contributio	n fr	om Pumping St	ation)	\$	5,931,511.17	
	City of Elizabeth (In	ndustry Tr	ibut	ary to Joint Me	eting	Trunk)			
	Flow:	21.1820	MG	Year at	\$	198.0630239		4,195.37	
	BOD:	30.3331	Ton	s/Year at		530.1335225		16,080.59	
	TSS:	12.0482	Ton	s/Year at		299.0459697		3,602.97	
	Joint Meeting Indus	trial						1,636,839.46	
	Subtotal						\$	7,592,229.56	
	Total 1997 Budget				\$	18,679,748.00			
	Subtotal (above)				-	(7,592,229.56)			
	Subtotal (EDU's)				\$	11,087,518.44			

Joint Meeting EDU's (X + Y) + Elmora EDU's (X)=

(Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)

146,331 (X + \$5.540575681) + 3905 (X) = \$ 11,087,518

Equivalent Units-Member Municipalities

146,331

Elmora EDU's = 3,905

\$68.4041139270

Per Unit = X

\$73.9446896080

Per Unit = X+Y

11,087,518

Joint Meeting EDU Assessment

Elmora Area Assessment

\$ 10,820,400.38

\$ 267,118.06

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 5,931,511.17

Elmora EDU's

267,118.06

Elmora Industrial

23,878.93

\$ 6,222,508.16

Total Anticipated Payment from Member Municipalities

EDU's

10,820,400.38

Industrial

1,636,839.46

\$ 12,457,239.84

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

\$ 6,222,508.16

\$ 17,831,903.00 =

34.8953679%

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

SSES - November 1996 % 54,327 (Percent) 52,086 % 54,327 2.61% 31,531 % 797,026 38.27% 191,181 % 797,026 38.27% 191,181 % 797,026 38.27% 195,485 9.58% 145,880 % 152,240 7.31% % 207,146 % 216,248 10.38% 62,463 % 65,147 3.13% 84,615 % 88,296 4.24% % 88,296 4.24% % 88,296 4.24% % 88,296 4.24% % 238,013 11.43% 148,475 1,995,628 % 2,082,515 100.00%				Base Vear - 1982	r - 1982			Race Vear 1982	1987		
Captility CACCOMPT		Canacity By	Conscitty Dr.	DECCE ITE	cere 1				2002		
Contract Copp.		Capacity by	Capacity by		- 2252			Phase 116 - S	252		
Columbity CMGD Cercent CPDD		Contract	Contract	Infiltr	ation	SSES - Nover	nber 1996	Inflow		SSES - Novemb	er 1996
Fig. 15.0 Fig. 16.0 Fig.	Municipality	(MGD)	(Percent)	(GPD)	(Percent)	(GPD)	(Percent)	(GPD)	(Percent)	(GPD)	(Percent)
Fame 5.50 4.88% 70,747 2.11% 34,327 2.61% 3,007,440 5.79% 3,007,440						52,086				5,281,839	
Fig. 12.20 10.83% 79,012 2.36% 32,980 1.58% 1,185,120 2.28% 1,185,120	East Orange	5.50	4.88%	70,747	2.11%	54,327	2.61%	3,007,440	5.79%	3,007,440	6.14%
Table 12.0 10.83% 79,012 2.36% 32,980 1.88% 1,185,120 2.28% 1,185,120						31,531				2,081,767	
18 61 16.52% 1,115,672 33.31% 797,026 38.27% 8,612,640 16.57% 7,820,640 15,729,341 15,7	Hillside	12.20	10.83%	79,012	2.36%	32,980	1.58%	1,185,120	2.28%	1,185,120	2.42%
Marie 18.61 16.52% 1,115,672 33.31% 797,026 38.27% 8,612,640 16.57% 7,820,640 19,800 19,485 9,38% 5,449,680 10,48% 5,449,680 9,565,806 9,565,806 19,609 5,72% 15,22% 191,609 5,72% 15,22% 13,76% 234,484 7.00% 216,248 10,38% 1,550,520 5,22% 2,441,520 2,441,600 2,44						763,727				13,729,341	
wood 7.08 6.29% 389,078 11.62% 199,485 9.58% 5,449,680 10.48% 5,449,680 1 In 6.00 5.33% 191,609 5.72% 152,240 7.31% 7,729,520 5.25% 2,449,680 1 In 6.00 5.33% 191,609 5.72% 152,240 7.31% 7,729,520 5.25% 2,441,520 5.25% 2,445,520 5.25% 2,	Irvington	18.61	16.52%	1,115,672	33.31%	797,026	38.27%	8,612,640	16.57%	7,820,640	15.96%
wood 7.08 6.29% 389,078 11.62% 199,485 9.58% 5,449,680 10.48% 5,449,680 1 145,880 15.240 7.31% 15.240 7.31% 2,729,520 5,23% 2,441,520						191,181				9,565,806	
145,880 145,880 145,880 145,880 145,880 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,240 15,20 13,76% 234,484 7,00% 216,248 10,38% 1,576,080 3,03% 1,576,080 3,03% 1,576,080 3,28,404 1,959,440 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,540 1,959,840 1,959	Maplewood	7.08	6.29%	389,078	11.62%	199,485	9.58%	5,449,680	10.48%	5,449,680	11.12%
m 6.00 5.33% 191,609 5.72% 152,240 7.31% 2.729,520 5.25% 5.2441,520 440,938 k 15.50 13.76% 234,484 7.00% 216,248 10.38% 1,959,540 3.77% 1,959,840 a Park 9.44 8.38% 106,187 3.17% 65,147 3.13% 1,576,080 3.03% 1,576,982 Orange 7.00 6.22% 410,876 12.27% 83,906 4.03% 2,183,760 42.0% 2,178,000 Arriage 7.50 6.66% 171,657 5.13% 88,296 4.24% 3,651,120 7,02% 2,78,166 10.30 9.14% 329,127 9.83% 238,013 11.43% 14,534,640 27.96% 14,246,640 25,015,616 10.30 11.99% 250,811 7.48% 154,847 7,097,040 13,65% 6,744,600 11,854,031 112.63 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.0						145,880		2	(4,283,967	(
207,146 k 15.50 13.76% 234,484 7.00% 216,248 10.38% 1,959,540 3.77% 1,959,840 c 24,63 c Park 9.44 8.38% 106,187 3.17% 65,147 3.13% 1,576,080 3.03% 1,576,080 Orange 7.00 6.22% 410,876 12.27% 83,906 4.03% 2,183,760 4.20% 2,178,000 it 7.50 6.66% 171,657 5.13% 88,296 4.24% 3,651,120 7.02% 2,578,160 10.30 9.14% 329,127 9.83% 238,013 11.43% 14,534,640 27.96% 1,246,640 2.000% 3,349,260 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,515 100.00% 8,887,720 100.00% 8,887,720 100.00% 2,082,515 100.00% 8,887,720 100.00% 8,887,720 100.00%	Millburn	00.9	5.33%	191,609	5.72%	152,240	7.31%	2,729,520	\$25%	2,441,520	4.98%
k 15.50 13.76% 234,484 7.00% 216,248 10.38% 1,959,540 3.77% 1,959,840 2,709,955						207,146)	3,440,938)
FPark 9.44 8.38% 106,187 3.17% 65,147 3.13% 1,576,080 3.03% 1,00.00% 3,349,260 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,515 100.00% 2,082,720 10	Newark	15.50	13.76%	234,484	7.00%	216,248	10.38%	1,959,540	3.77%	1,959,840	4.00%
Fark 9.44 8.38% 106,187 3.17% 65,147 3.13% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.03% 1,576,080 3.80,424 3.32,028 4.03% 2.183,760 4.20% 2.178,000 2.28,100 2.28,100 10.30 9.14% 329,127 9.83% 2.38,013 11.43% 14,534,640 2.7.96% 14,246,640 2.50,811 7.48% 154,847 7.007,040 13.65% 6,744,600 11.854,031 11.853 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720 10						62,463				2,769,955	
State 7.00 6.22% 410,876 12.27% 83,906 4.03% 2,183,760 4.20% 2,178,000	Roselle Park	9.44	8.38%	106,187	3.17%	65,147	3.13%	1,576,080	3.03%	1,576,080	3.22%
Orange 7.00 6.22% 410,876 12.27% 83,906 4.03% 2,183,760 4.20% 2,178,000 it 7.50 6.66% 171,657 5.13% 88,296 4.24% 3,651,120 7,02% 2,378,160 10.30 9.14% 329,127 9.83% 238,013 11.43% 14,534,640 27.96% 14,246,640 2 10.30 11.99% 250,811 7.48% 154,847 7,097,040 13.65% 6,744,600 1 112.63 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720 10						80,424				3,828,043	
11.63 100.00% 3,349,260 100.00% 11.657 10.30 10.00%	South Orange	7.00	6.22%	410,876	12.27%	83,906	4.03%	2,183,760	4.20%	2,178,000	4.45%
it 7.50 6.66% 171,657 5.13% 88,296 4.24% 3,651,120 7,02% 2,378,160 228,100 208,100 228,100 228,100 208,11.43% 11.43% 11.43% 14,534,640 27.96% 14,246,640 27.96% 11.854,031 11.854,031 11.854,031 11.854,031 11.854,031 11.854,031 11.854,031 11.854,031 11.856,023,440 11.863 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720 10						84,615				4,172,137	(
228,100 10.30 9.14% 329,127 9.83% 238,013 11.43% 14,534,640 27.96% 14,246,640 11,854,031 11.63 100.00% 3,349,260 100.00% 2,082,515 100.00% 21,986,580 100.00% 28,987,720 1	Summit	7.50	%99'9	171,657	5.13%	88,296	4.24%	(3,651,120)	7.02%	2,378,160	4.85%
10.30 9.14% 329,127 9.83% 238,013 11.43% 14,534,640 27.96% 14,246,640 11,854,031 11,955,628 11,955,628 11,955,628 11,955,628 11,955,628 11,955,628 11,955,628 11,854,031 11,854,031 11,854,031						228,100				25,015,616)
148,475 13.50 11.99% 250,811 7.48% 154,847 7.44% 7.097,040 13.65% 6,744,600 112.63 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720 1	Union	10.30	9.14%	329,127	9.83%	238,013	11.43%	14,534,640	27.96%	14,246,640	29.08%
13.50 11.99% 250,811 7.48% 154,847 7.44% 7,097,040 13.65% 6,744,600 1,995,628 1,995,628 86,023,440 86,023,440 86,023,440 112.63 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720 1						148,475				11,854,031	
1,995,628 86,023,440 100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720	West Orange	13.50	11.99%	250,811	7.48%	154,847	7.44%	7,097,040	13.65%	6,744,600	13.78%
100.00% 3,349,260 100.00% 2,082,515 100.00% 51,986,580 100.00% 48,987,720						1,995,628				86,023,440	
		112.63	100.00%	3,349,260	100.00%	2,082,515	100.00%	51,986,580	100.00%	48,987,720	100.00%

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

1287920

(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) 1996 - Infiltration related to base year total = 2.083 MGD / 52.79 MGD = 3.94582307%

- Adjusted for period 11/1/95 - 10/31/96; (3.94582307% x 18,510.8400 = 730.40 MG / Year / 366 = 1,995,628 GPD)

(5) 1996 inflow adjusted for period $11/1/95 - 10/31/96 - (58.335" / 33.22") \times (48,987,720) = 86,023,440 GPD -9-$

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 1996 - Summary of Infiltration and Inflow

	Phasa IIR		1005		100¢) W	700+	
	THE SCHILL		1220		Tuase IID		1996	
	SSES	1995	Infiltration	1996	SSES	1995	Inflow	1996
	Infiltration	Infiltration	Removed	Infiltration	Inflow	Inflow	Removed	Inflow
Municipality	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
East Orange	70,747	54,327	1	54,327	3,007,440	3,007,440	•	3,007,440
Hillside	79,012	32,980	ı	32,980	1,185,120	1,185,120	1	1,185,120
Irvington	1,115,672	797,026	1	797,026	8,612,640	7,820,640	•	7,820,640
Maplewood	389,078	199,485	ı	199,485	5,449,680	5,449,680	ı	5,449,680
Millbum	191,609	152,240	ı	152,240	₹ 29,52	2,441,520	,	2,441,520
Newark	234,484	216,248	ı	216,248	1,959,540	1,959,840	•	1,959,840
Roselle Park	106,187	65,147	ı	65,147	1,576,080	1,576,080	ı	1,576,080
South Orange	410,876	83,906	ı	83,906	2,183,760	2,183,760	5,760	2,178,000
Summit	171,657	91,196	2,900	88,296	3,651,120	2,458,800	80,640	2,378,160
Union	329,127	238,013		238,013	14,534,640	14,246,640	•	14,246,640
West Orange Total	250,811 3,349,260	2,085,415	2,900	154,847	7,097,040	6,744,600	86,400	6,744,600

Table V

Joint Meeting of Essex and Union Counties

			Cost Allocation	1 - Flow, BOD & TS.	Cost Allocation - Flow, BOD & TSS with Infiltration / Inflow	nflow	
		-	Total	ī	Domestic & Commercial	<u>la</u> i	Industrial
Flow			18,510.8400 MG	MG	17,701.1260 MG	MG	809.7140 MG
			\$4,223,159.35		\$4,025,697.93		
							\$197,461.42
Infiltration		3.9458231%	730.41		698.46	\$158,848.03	31.95
Inflow		12.9966549%	2,405.79		2,300.55	\$523,205.10	105.24
BOD	梅	\$530.1335225 Per Ton	8.916.3565 Tons	Tons	6.873.9722	Tons	2 042 3843 Tons
			\$4,726,859.48				
TSS	梅	\$299.0459697 Per Ton	11,728.0330 Tons	Tons	10,535.4349		1,192.5981
			\$3,507,221.00		\$3,150,579.35		\$356,641.66
Total			\$12,457,239.83	1	\$10,820,400.38		\$1,636,839.46
(1) Amount	ınticipat	(1) Amount anticipated from Members after allocation of	Jo	34.8953679% to	34.8953679% to City of Elizabeth	\$ 6,222,508.16	
"Base Year - 1982" Infiltration: 3.35 M	1982" 3.35 M	"Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD =	6.34590%	6.34590% (Per H&S Phase IIB Report)	Report)		
Inflow:	113 MC	113 MGD (Excluding Elizabeth) / 137 MGD (Total) =	GD (Total) =		82.4817518%	82.4817518% 1 inch of rain = 50 mg of inflow (Per H&S Phase IIB Report)	1&S Phase IIB Report)
"1995 - 1996" Infiltration: 3	2.083 N	"1995 - 1996" Infiltration: 2.083 MGD/52.79MGD =	3.94582307%	×	18,510.8400 730 (November 1, 1995 - October 31, 1996)	730.4 MG / Year stober 31, 1996)	

2,405.79 MG / Year

Rainfall=58.335 Inches X 50 MG X 82.482%

Inflow:

 Total D&C
 \$10,820,400.38

 Less: Infiltration
 (138,848.03)

 Less: Inflow
 (523,205.10)

 Net after infiltration and inflow
 \$10,138,347.25

 Equivalent Dwelling Units
 146,331

 User Charge Per Unit
 \$69.2836599900226

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
1997

			Ď	Domestic & Commercial	nercial			
		User Charge						
	Dwelling	\$ 69.28365999	Infil	Infiltration		Inflow		
Municipality	Units	Per Unit	Percent 1	Amount	Percent 2	Amount	Total Cost	Unit Cost
East Orange	7,238	\$501,475.13	2.61%	\$4,145.93	6.14%	\$32,124.79	\$537,745.85	\$74.2948
Hillside	8,413	582,883.43	1.58%	2,509.80	2.42%	12,661.56	598,054.79	71.0870
Irvington	26,710	1,850,566.56	38.27%	60,791.14	15.96%	83,503.53	1,994,861.23	74.6859
Maplewood	9,095	630,134.89	9.58%	15,217.64	11.12%	58,180.41	703,532.94	77.3538
Millburn	9,702 3	672,190.07	7.31%	11,611.79	4.98%	26,055.61	709,857.47	73.1661
Newark	16,972	1,175,882.28	10.38%	16,488.43	4.00%	20,928.20	1,213,298.91	71.4883
Roselle Park	4,736	328,127.41	3.13%	4,971.94	3.22%	16,847.20	349,946.55	73.8907
South Orange	6,833	473,415.25	4.03%	6,401.58	4.45%	23,282.63	503,099.46	73.6279
Summit	13,398	928,262.48	4.24%	6,735.16	4.85%	25,375.45	960,373.09	71.6803
Union	24,222	1,678,188.82) 11.43%	18,156.33	29.08%	152,148.04	1,848,493.19	76.3146
West Orange	19,012	(1,317,220.95)	7.44%	11,818.29	13.78%	72,097.66	1,401,136.90	73.6975
	146,331	\$10,138,347.27	100.00%	\$158,848.03	100.00%	\$523,205.08	\$10,820,400.38	l
	(1) See Table I	(1) See Table IV - Infiltration for November of the Prior Year	ovember of the	Prior Year		3 2		\$72.7161 1996 \$79.2640 1995
	(2) See Table 1	(2) See Table IV - Inflow for November of the Prior Year	nber of the Pri	or Year				
	(3) Includes Li (4) Includes No	(3) Includes Livingston (431) (4) Includes New Providence (3067)		:				\$78.9418 1993

(-12-

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
1997

		•		Ind	Industrial					
				ŀ		Flow (N	flow (MG / Year)			
	BOD	BOD 1	TSS	TSS	Dry	Infiltration	Inflow		Flow 3	Total
Municipality	(Tons / Year)	(S/Year)	(Tons / Year)	(S/Year)	Weather	3.945823%	12.996655%	Total	(\$/Year)	Cost
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	\$0.00	80.00
Hillside	161.8971	85,827.08	35.7817	10,700.37	40.37	1.92	6.32	48.60	11,852.11	108,379.57
Irvington	38.7282	20,531.12	17.8587	5,340.57	29.46	1.40	4.61	35.46	8,648.45	34,520.14
Maplewood	1.3742	728.51	0.6768	202.39	1.68	0.08	0.26	2.03	493.83	1,424.73
Millbum	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	00.00	0.00	00:00
Roselle Park	0.1426	75.60	0.1815	54.28	1.11	0.05	0.17	1.33	324.83	454.70
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	00.00	0.00	0.00
Summit 4	82.3885	43,676.91	52.9456	15,833.17	218.87	10.40	34.25	263.51	64,261.52	123,771.60
Union	1,750.0265	927,747.71	1081.9702	323,558.83	349.73	16.62	54.73	421.07	102,684.26	1,353,990.80
West Orange	7.8272	7.8272 4,149.46	3.1836	952.04	31.32	1.49	4.90	37.71	9,196.42	14,297.92
	CF0C:3F0,4	41,002,100.27	10/7:7/11	20,011,00					•	2

(1) At \$530.1335225/Ton (2) At \$299.0459697/Ton (3) At \$243.8656406/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

1997

		Domestic & Co	mmercial		
Municipality	Total Assessments ¹	User Charge Domestic Sewage 69.28365999	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$537,745.85	\$501,475.13	\$0.00	\$36,270.72	4.3167%
Hillside	706,434.36	582,883.43	108,379.57	15,171.36	5.6709%
Irvington	2,029,381.37	1,850,566.56	34,520.14	144,294.67	16.2908%
Maplewood	704,957.67	630,134.89	1,424.73	73,398.05	5.6590%
Millburn	709,857.47	672,190.07	0.00	(37,667.40)	5.6984%
Newark	1,213,298.91	1,175,882.28	0.00	37,416.63	9.7397%
Roselle Park	350,401.25	328,127.41	454.70	21,819.14	2.8128%
South Orange	503,099.46	473,415.25	0.00	29,684.21	4.0386%
Summit	1,084,144.69	928,262.48	123,771.60	32,110.61	8.7029%
Union	3,202,483.99	1,678,188.82	1,353,990.80	170,304.37	25.7078%
West Orange	1,415,434.82	1,317,220.95	14,297.92	83,915.95	11.3624%
	\$12,457,239.84	\$10,138,347.27	\$1,636,839.46	\$682,053.11	100.0000%
Elizabeth	6,222,508.16	÷			
Total	\$ 18,679,748.00				

⁽¹⁾ Reflects anticipated payment of \$6,222,508.16 from the City of Elizabeth which is 34.8953679% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 1997 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 1997 Assessment with 1996 Assessment

				Compa	arison
Municipality	1996	1997		Amount	Percentage
East Orange	\$527,217.56	\$537,745.85	(+)	\$10,528.29	2.00%
Hillside	738,655.61	706,434.36	(-)	(32,221.25)	-4.36%
Irvington	1,994,311.14	2,029,381.37	(+)	35,070.23	1.76%
Maplewood	687,874.75	704,957.67	(+)	17,082.92	2.48%
Millburn	683,083.89	709,857.47	(+)	26,773.58	3.92%
Newark	1,202,193.13	1,213,298.91	(+)	11,105.78	0.92%
Roselle Park	344,440.38	350,401.25	(+)	5,960.87	1.73%
South Orange	494,876.86	503,099.46	(+)	8,222.60	1.66%
Summit	1,077,103.35	1,084,144.69	(+)	7,041.34	0.65%
Union	2,897,416.10	3,202,483.99	(+)	305,067.89	10.53%
West Orange	1,401,150.14	1,415,434.82	(+)	14,284.68	1.02%
	\$12,048,322.91	\$12,457,239.84	(+)	\$408,916.93	3.39%
Elizabeth	6,644,781.09	6,222,508.16	(-)	\$ (422,272.93)	-6.35%
Total	\$18,693,104.00	\$18,679,748.00	<u>(-)</u>	(\$13,356,00)	-0.07%

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

1993	31.92015140%
1994	32.84626490%
1995	33.09447430%
1996	37.06967270%
1997	34.89536790%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 1997 as a result of the Agreement with the City of Elizabeth which requires 34.8953679% of the 1997 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 34.8953679% 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 1996.

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 1997 are apportioned as follows:

	1997	1996		1997	1996
East Orange	4.3167%	4.3759%	Roselle Park	2.8128%	2.8588%
Hillside	5.6709%	6.1308%	South Orange	4.0386%	4.1074%
Irvington	16.2908%	16.5526%	Summit	8.7029%	8.9399%
Maplewood	5.6590%	5.7093%	Union	25.7078%	24.0483%
Millburn	5.6984%	5.6695%	West Orange	11.3624%	11.6294%
Newark	9.7397%	9.9781%	Total	100.0000%	100.0000%

Respectfully submitted,

a Relph L medol

A. Ralph LaMendola

Chief Engineer

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A 1997 Budget

,		eatment Plant	ewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1	,548,000	\$ 144,000	\$ 108,000	\$ •	\$ 1,800,000
Gas Service		91,000	10,000	957,000	-	1,058,000
Fuel, Oil & Kerosene		198,800	66,200	60,000	-	325,000
Water Service		71,000	44,000	22,000	-	137,000
Chemicals		360,500	581,500	36,800	2,000	980,800
Sludge Disposal		-	838,000	300,000	•	1,138,000
Insurance		296,500	82,000	30,000	10,000	418,500
Administration	1	1,012,975	511,625	10,000	32,550	1,567,150
Labor	3	3,750,000	737,000	277,500	17,500	4,782,000
Benefits	1	1,353,290	300,800	82,370	12,550	1,749,010
Equipment		95,000	30,000	20,000	-	145,000
Printing & Stationery		13,250	6,890	5,300	1,060	26,500
Maintenance, Supplies & Spare Parts	1	1,144,780	337,720	20,600	683,000	2,186,100
Screening Disposal		152,000	-	-	-	152,000
Reserve Contingency		46,188	-	-	-	46,188
Miscellaneous Expenses		91,225	50,125	23,465	32,685	197,500
Technical & Professional Services		350,000	78,000	20,000	2,000	450,000
Replacement Fund		625,000	50,000	25,000	50,000	750,000
NJPDES & Miscellaneous Permit Fee		510,500	5,000	251,000	4,500	771,000
	\$ 1	1,710,008	\$ 3,872,860	\$ 2,249,035	\$ 847,845	\$ 18,679,748
		62.69%	20.73%	12.04%	4.54%	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	\$ 1,583,975	80%		1,267,180	-	10%	\$	158,398	10%	<u> </u>	158,397
Power	1,548,000	40%	\$	619,200		5%	\$	77,400	55%	\$	851,400
Chlorine	135,000	40%	\$	54,000					60%	\$	81,000
Maintenance, Equipment, Supplies, Spare Parts,											
& Replacement Fund	1,910,968	28%	\$	535,071		27%	\$	515,961	45%	\$	859,936
Fuel, Oil & Kerosene	198,800	40%	\$	79,520		30%	\$	59,640	30%	\$	59,640
Administration, Labor & Benefits											
(Payroll Retirement)	6,116,265	40%		2,446,506		10%	\$	611,627	50%	\$	3,058,132
Sludge Processing ²	217,000			The state of		50%	<u>\$</u>	108,500	50%	<u>\$</u>	108,500
Total	\$11,710,008 100%			5,001,477 .7111322%				1,531,526 0787784%			5,177,005 .2100894%
	83,650										
(1) General Expenditures											
(From the Approved Bud	get)		(2)	Sludge Proce	essin	g					
Insurance Technical & Professional	Services	\$ 296,500 350,000		ymer MnO4	\$	202,000 15,000					
Stationery & Printing		13,250	12	М		13,000					
Gas		91,000									
Water		71,000									
Miscellaneous		91,225									
Service Contracts		152,000									
Permit Fees		510,500									
Weed Killer, Bug Spray &	de Deodorant	8,500									
		\$1,583,975			\$	217,000					

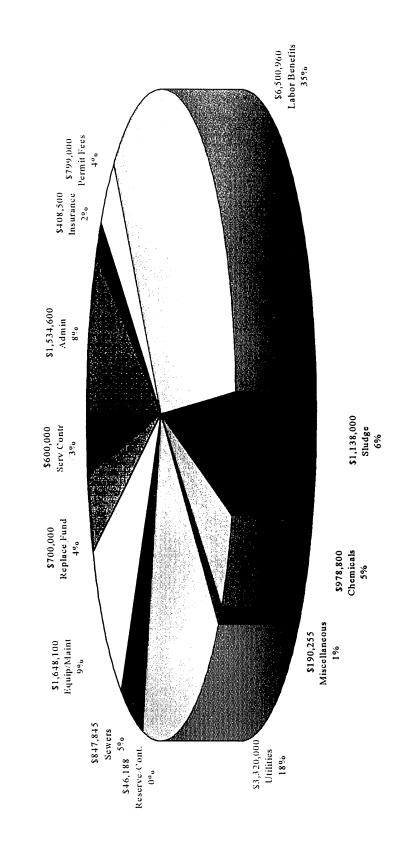
Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A (Continued)

Operations and Management Allocations

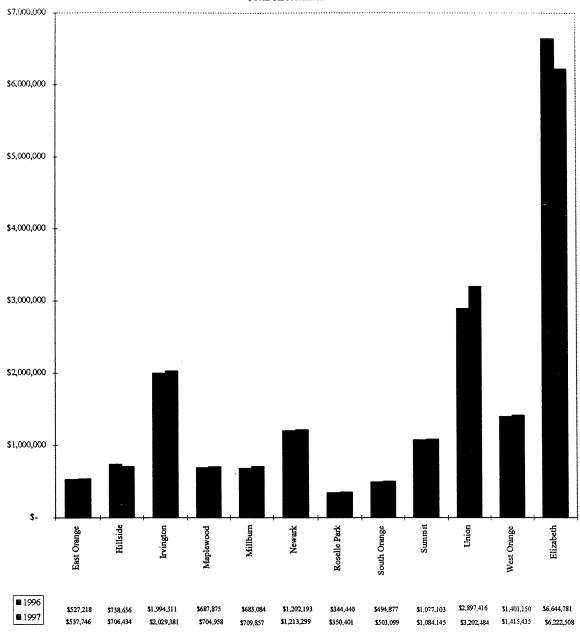
	Estimated			
	Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 11,710,008	\$ 5,001,477	\$ 1,531,526	\$ 5,177,005
Dewatering Facility	3,872,860		1,936,430	1,936,430
Drying Facility	2,249,035		1,124,518	1,124,518
	\$ 17,831,903	\$ 5,001,477	\$ 4,592,474	\$ 8,237,953
Subtotal	100.00%	28.0479150%	25.7542535%	46.1978315%
Sewers 1	\$ 847,845			
Total	\$ 18,679,748			

⁽¹⁾ Joint Meeting Members Only

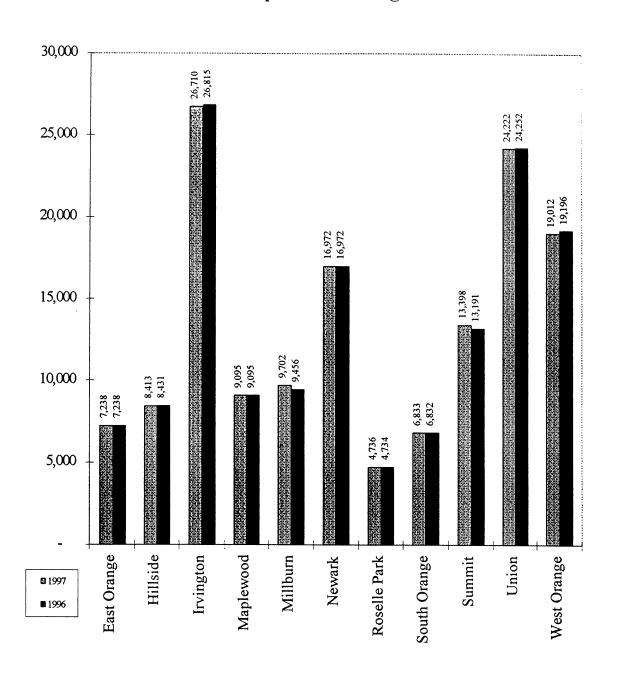
Joint Meeting of Essex & Union Counties 1997 O&M Budget

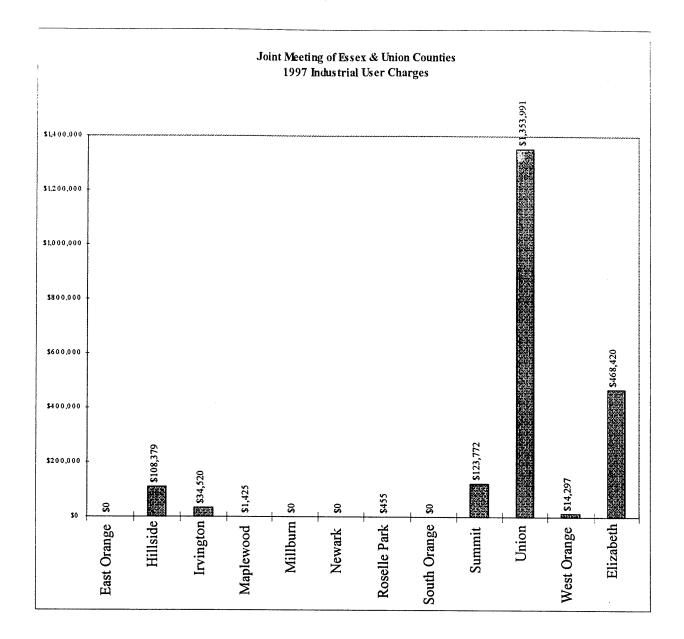


Joint Meeting of Essex & Union Counties 1997 O&M Expenses Total Assessment



Joint Meeting of Essex & Union Counties 1997 Equivalent Dwelling Units





		Cost Factors	
Municipality	Flow per MG	BOD per Ton	TSS per Ton
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
Elizabeth	198.0630239	530.1335225	299.0459697
Hillside	243.8656406	530.1335225	299.0459697
Irvington	243.8656406	530.1335225	299.0459697
Maplewood	243.8656406	530.1335225	299.0459697
Millburn	243.8656406	530.1335225	299.0459697
Murray Hill	243.8656406	530.1335225	299.0459697
Roselle Park	243.8656406	530.1335225	299.0459697
Summit	243.8656406	530.1335225	299.0459697
Union	243.8656406	530.1335225	299.0459697
West Orange	243.8656406	530.1335225	299.0459697

User Charge Report

			Municipali	ty: Elizabeth		
		Flow per MG		Factors per Ton	TSS per Ton	
		198.0630239		1335225	299.0459697	
IU #:	0010 Ape	x Chemical C	orporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	35.300	21.727	0.2990	0.0440	0.0271	
	Totals: Cost An	alysis:	0.2990 59.2208	0.0440 23.3259		90.6509
IU #:	0025 Int	erbake Foods				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
7()*	450.647	259.800	33.7450	63.4135	36.5582	
	Totals: Cost And	alysis:		63.4135 33,617.6221	36.5582 10,932.5824	51,233.8412
IU #:	0030 Con	cord Beverag	e		Ç	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	1,792.857	100.111	41.8850	313.1412	17.4855	
	Totals: Cost And	alysis:	41.8850 8,295.8698	313.1412 166,006.6474	17.4855 5,228.9683	179,531.4855
IU #:	0037 Deb	El Foods Co	rp			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	851.250	136.000	6.2790	22.2886	3.5609	
(Totals: Cost Ana	alysis:	6.2790 1,243.6377	22.2886 11,815.9340	3.5609 1,064.8728	14,124.4446

			Municipalit	y: Elizabeth		
		Flow per MG		Factors per Ton	TSS per Ton	
		198.0630239	530.1	.335225	299.0459697	
IU #	: 0055 Emka	ay Chemical	Company		***************************************	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	545.125	38.500	1.4030	3.1893	0.2252	***************************************
	Totals: Cost Ana	alysis:	1.4030 277.8824	3.1893 1,690.7548	0.2252 67.3452	2,035.9824
IU #:	: 0058 Exac	ct Anodizing	Corp.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	7.714	149.143	4.3250	0.1391	2.6898	
	Totals: Cost Ana	alysis:	4.3250 856.6226	0.1391 73.7416	2.6898 804.3738	1,734.7380
IU #:	0062 Garc	ia Laundry				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	739.167	282.833	2.1690	6.6856	2.5582	
	Totals: Cost Ana	alysis:	2.1690 429.5987	6.6856 3,544.2607	2.5582 765.0194	4,738.8788
IU #:	0067 Pure	pac Pharmac	eutical Co.			***************************************
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	1,573.667	55.000 149.000	2.8390 18.3430	18.6301 11.7030	0.6511 11.3971	
()	Totals: Cost Ana	alysis:	21.1820 4,195.3710	30.3331 16,080.5932	12.0482 3,602.9657	23,878.9298

09/01	/95	Thru	0.8	/31	196

			09/01/95	 Thru 08/31/96		
			Municipalit	ty: Elizabeth		
		Flow per MG	Cost BOD p	Factors per Ton	TSS per Ton	
		198.0630239	530.1	1335225	299.0459697	
IU #:	0078 Magı	nolia Beef C	ompany			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	315.667	274.875	1.6380	2.1561	1.8775	
	Totals: Cost Ana	alysis:	1.6380 324.4272			2,028.9069
IU #:	0095 OK 1	rowel & Unif	orm Supply (Co		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	352.778	128.444	15.2470	22.4296	8.1665	
	Totals: Cost Ana	alysis:	15.2470 3,019.8669	22.4296 11,890.6829		17,352.7087
IU #:	0100 Pape	etti's Hygra	de Egg Compa	iny		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
4 5	631.786 315.538	181.867 127.923	27.1330 5.0680	71.4831 6.6685	20.5772 2.7035	
	Totals: Cost Ana	alysis:	32.2010 6,377.8274	78.1516 41,430.7830	23.2807 6,961.9995	54,770.6099
IU #:	0105 Jers	sey Pride Foo	ods			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	1,806.538	468.417	7.9530	59.9121	15.5346	
(_)	Totals: Cost Ana	alysis:	7.9530 1,575.1952	59.9121 31,761.4126	15.5346 4,645.5595	37,982.1674

09	/01	/95	Thru	ΛR	/21	106
00	/ U.L.	120	TIIL U	UB.	/ J L .	196

			09/01/95]	Chru 08/31/96		
			Municipalit	y: Elizabeth		
		Flow per MG	Cost Factors BOD per Ton		TSS per Ton	
		198.0630239	530.1	.335225	299.0459697	
IU #:	0115 Pha	rmacaps, Inc	•			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 3	3,234.400	205.000	7.3550	99.2002	6.2874	
	Totals: Cost And	alysis:	7.3550 1,456.7535	99.2002 52,589.3515	6.2874 1,880.2216	55,926.3266
IU #:	0120 Phe	lps Dodge Mad	gnet Wire Co	•		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	34.733	21.556	1.0460	0.1515	0.0940	
	Totals: Cost Ana	alysis:	1.0460 207.1739	0.1515 80.3152	0.0940 28.1103	315.5995
IU #:	0148 Supe	erior Powder	Coating			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	62.036	105.704	1.1790	0.3050	0.5197	
Totals: Cost Analysis:		1.1790 233.5163	0.3050 161.6907	0.5197 155.4142	550.6212	
IU #:	0155 Stor	ne Container				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 2	248.625 147.286	138.750 139.571	3.2400 0.4630	3.3591 0.2844	1.8746 0.2695	
(,,)	Totals: Cost Ana	alysis:	3.7030 733.4274	3.6435 1,931.5415	2.1441 641.1845	3,306.1533

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er	Charge	Re	eport	

12/11/96 _____

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09/01/95 Thru 08/31/96

Municipality: Elizabeth

----- Cost Factors ------Flow per MG BOD per Ton TSS per Ton --------198.0630239 530.1335225 299.0459697

IU #: 0165 Wakefern Food Corp.

Site	BOD	TSS	Flow	BOD	TSS	Annual
	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
98	349.011	311.832	13.8520	20.1599	18.0123	
Totals:		13.8520	20.1599	18.0123	18,817.5135	
Cost Analysis:		2,743.5690	10,687.4388	5,386.5057		

Flow BOD TSS Annual (MG) (Tons) (Tons) Payment Elizabeth Totals: 195.4610 725.3439 151.0699 C t Analysis: 38,713.5967 468,419.5582

09/01	195	Thru	ΛR	/31	196
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()			09/01/95 T	hru 08/31/96		
			Municipali	ty: Hillside		
		Flow per MG	~	er Ton	TSS per Ton	
		243.8656406	530.1	335225	299.0459697	
IU #:	1003 Acc	ufleet		1. A construction of the second s		
Site	(mg/L) BOD	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	193.500	50.600	2.1740	1.7542	0.4587	
	Totals: Cost An	alysis:	2.1740 530.1639	1.7542 929.9602	0.4587 137.1724	1,597.2965
IU #:	1010 Ari	ston, Inc				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	208.000	226.667	0.5510	0.4779	0.5208	
	Totals: Cost An	alysis:	0.5510 134.3700	0.4779 253.3508	0.5208 155.7431	543.4639
IU #:	1012 Atl	antic Metal	Products			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 2 99	17.225 27.967 153.000	31.600 19.457 149.000	5.6660 4.3690 0.8920	0.4070 0.5095 0.5691	0.7466 0.3545 0.5542	
	Totals: Cost An	alysis:	10.9270 2,664.7199	1.4856 787.5664	1.6553 495.0108	3,947.2970
IU #:	1015 Bri	stol-Myers P	roducts R&D		***************************************	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	124.444	121.111	9.4320	4.8946	4.7635	
	Totals: Cost An	alysis:	9.4320 2,300.1407	4.8946 2,594.7915	4.7635 1,424.5055	6,319.4377

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09/01/95 Thru 08/31/96

Municipality: Hillside

	Cost Factors	
Flow per MG	BOD per Ton	TSS per Ton
243.8656406	530.1335225	299.0459697

IU #: 1020 Bristol-Myers Products - Pilot

Site 5	BOD (mg/L) 205.600	TSS (mg/L) 122.545	Flow (MG) 0.2310	BOD (Tons) 0.1980	TSS (Tons) 0.1180	Annual Payment
Totals: Cost Analysis:		lysis:	0.2310 56.3330	0.1980 104.9664	0.1180 35.2874	196.5868

IU #: 1025 Certified Processing

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	807.333	15.100	2.7560	9.2783	0.1735	
	Totals: Cost Ana	lysis:	2.7560 672.0937	9.2783 4,918.7379	0.1735 51.8845	5,642.7160

IU #: 1032 McCain Citrus, Inc.

Cost Analysis:

Site	BOD	TSS	Flow	BOD	TSS	Annual
	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
3	3,852.086	286.356	8.6550	139.0270	10.3350	
99	153.000	149.000	0.2040	0.1302	0.1268	
	Totals: Cost Ana	lysis:	8.8590 2,160.4057	139.1572 73,771.8966	10.4618 3,128.5591	79,060.8615

IU #: 1035 ECD, Inc.

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	24.567	988.571	3.4530	0.3537	14.2344	
()	Totals:		3.4530	0.3537	14.2344	

187.5082

4,256.7400

5,286.3162

842.0681

Joint	Meeting	of	Essex	&	Union	Counties
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12/11	•	Joint M =========	leeting of Es User Cha	rge Report		Page 3
				======== hru 08/31/96	===========	========
			Municipali	ty: Hillside		
		Flow per MG	Cost BOD p		TSS per Ton	
		243.8656406		335225	299.0459697	
IU #:	1037 Fak	oric Wash		444 (444 844)		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	, ,	Annual Payment
1	360.167	46.429	1.3930	2.0921	0.2697	***************************************
	Totals: Cost An	nalysis:	1.3930 339.7048		0.2697 80.6527	1,529.4499
IU #:	1045 Hil	lside Indust	rial Complex			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
(:)	39.000	79.857	8.3610	1.3597	2.7842	
	Totals: Cost An	aalysis:	8.3610 2,038.9606	1.3597 720.8226		3,592.3870
IU #:	1050 Man	nhattan Drug	Company, Inc	•		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	437.111	176.667	0.4640	0.8458	0.3418	स्या सक सक सक सक सक सक सक
	Totals: Cost An		0.4640 113.1537	0.8458 448.3869	0.3418 102.2139	663.7545

BOD

161.8971

85,827.0799

(Tons)

TSS

35.7817

10,700.3732

(Tons)

Annual

Payment

108,379.5671

Flow

(MG)

48.6010

11,852.1140

Hillside Totals:

Cost Analysis:

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09/01/9	95 Thru	08/31/96		

			09/01/95 Th	ru 08/31/96		
		1	Municipality	: Irvington		
		Flow per MG	Cost F BOD pe		TSS per Ton	
					199 her 100	
		243.8656406	530.13	35225	299.0459697	
IU #:	2008 Arc	hon Vitamin C	orporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	113.250 467.000	100.500 80.000	0.1920 0.0890	0.0907 0.1733	0.0805 0.0297	
	Totals: Cost An	alysis:	0.2810 68.5262	0.2640 139.9552	0.1102 32.9549	241.4364
IU #:	2035 Ind	ustrial Retain	ning Ring			
S:-je	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	218.182	450.111	1.1780	1.0718	2.2111	
	Totals: Cost An	alysis:	1.1780 287.2737	1.0718 568.1971	2.2111 661.2205	1,516.6914
IU #:	2036 Int	ergel				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	348.000	120.000	1.0450	1.5165	0.5229	
	Totals: Cost And	alysis:	1.0450 254.8396	1.5165 803.9475	0.5229 156.3711	1,215.1582
IU #:	2040 Jab	el, Incorpora	ted			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	221.313	93.625	0.9120	0.8417	0.3561	
(Totals: Cost Ana	alysis:	0.9120 222.4055	0.8417 446.2134		775.1091

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(°°) 09/01/95 Thru 08/31/96		

			09/01/95 T	hru 08/31/96		
			Municipalit	y: Irvington		
		Flow per MG		Factors er Ton	TSS per Ton	
		243.8656406	530.1	.335225	299.0459697	
IU #:	2050 Ma	x Marx Color	Corporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	482.000	120.286	9.7190	19.5346	4.8750	
	Totals Cost A	: nalysis:	9.7190 2,370.1302	19.5346 10,355.9463	4.8750 1,457.8491	14,183.9256
IU #:	2055 Re	vlon, Incorpo	rated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
() 99	148.943 153.000	382.000 149.000	1.7640 5.0360	1.0956 3.2130	2.8099 3.1290	
	Totals Cost A	: nalysis:	6.8000 1,658.2864	4.3086 2,284.1333	5.9389 1,776.0041	5,718.4238
IU #:	2057 Sa	l's Cleaners				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	175.375	56.000	2.6790	1.9592	0.6256	
	Totals Cost A	: nalysis:	2.6790 653.3161	1.9592 1,038.6376		1,879.0368
IU #:	2060 Sta	andard Unifor	m Service			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	172.286	60.071	12.8500	9.2318	3.2189	
1)	Totals: Cost Ai	: nalysis:	12.8500 3,133.6735	9.2318 4,894.0867		8,990.3592

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er (Charge	Re	eport	

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09/01/95 Thru 08/31/96

Municipality: Irvington

----- Cost Factors -----Flow per MG BOD per Ton TSS per Ton --------243.8656406

530.1335225 299.0459697

Flow BOD TSS Annual (MG) (Tons) (Tons) Payment Irvington Totals: 35.4640 38.7282 17.8587 Cost Analysis: 8,648.4511 20,531.1171 5,340.5723 34,520.1404

	Joint Meeting of Essex & Union Counties		
12/11/96	User Charge Report	D	4
		Page	1
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09/01/95 Thru 08/31/9	90	96
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			Municipalit	cy: Maplewood		
		Flow per MG		per Ton	TSS per Ton	
		243.8656406	530.1	1335225	299.0459697	
IU #:	3020 Gle	ason Cleaners				
Site	(mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	208.364	95.909	1.5330	1.3320	0.6131	
	Totals: Cost Analysis:		1.5330 373.8460	1.3320 706.1379	0.6131 183.3451	1,263.3290
IU #:	3045 Uni	versal Chain	Company			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	20.564	31.027	0.4920	0.0422	0.0637	**********
	Totals: Cost An	alysis:	0.4920 119.9819	0.0422 22.3716	0.0637 19.0492	161.4028
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
•		s: 2. 493.	0250 8279	1.3742 728.5095	0.6768 202.3943	1,424.7317

09	/01	/95	Thru	0.8	/31	/96
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		Flow per M	G BOD p	Factors er Ton	TSS per Ton	
		243.865640		335225	299.0459697	
IU #:	5010 Luce	ent Technol	ogies			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
1	15.638	23.300	57.4870	3.7486	5.5855	
	Totals: Cost Ana	alysis:	57.4870 14,019.1041			17,676.6839
IU #:	5015 Elec	ctrical Ind	ustries, Inc.	and the second s	***************************************	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
([)	7.186	8.329	13.1420	0.3938	0.4564	
	Totals: Cost Ana	Totals: Cost Analysis:		0.3938 208.7666	0.4564 136.4846	3,550.1334
IU#:	5020 Fabl	ok Mills,	Incorporated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	214.600	110.700	10.0870	9.0267	4.6564	
	Totals: Cost Ana	lysis:	10.0870 2,459.8727	9.0267 4,785.3563	4.6564 1,392.4777	8,637.7066
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	y Hill Tota Analysis:		0.7160 3.8590 6	13.1691 ,981.3814	10.6983 3,199.2835	29,864.5239

Recelle Park Totals:

t Analysis:

454.7029

09/01/95 Thru 08/31/96

Municipality: Roselle Park

		Flow per MG		Factors er Ton	TSS per Ton				
		243.8656406	530.13	0.1335225 299.0459697					
IU #: 6005 Hexacon Electric Company									
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
1 99	4.357 153.000	13.200 149.000	1.1410 0.1910	0.0207 0.1219	0.0628 0.1187	*****			
Mary I response to the later of	Totals: Cost Analysis:		1.3320 324.8290	0.1426 75.5970		454.7029			
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			

0.1426

75.5970

0.1815

54.2768

1.3320

324.8290

09	/01	/95	Thru	0.8	/31	196
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		Flow per M	G BOD R	per Ton	TSS per Ton	
Salahan ang ang ang ang ang ang ang ang ang a		243.865640			299.0459697	
IU #:	5505 Cel	anese Resea	rch Company			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
1	77.222	86.111	27.3650	8.8120	9.8263	
	Totals: Cost And	alysis:	27.3650 6,673.3833	8.8120 4,671.5366	9.8263 2,938.5154	14,283.4353
IU #:	5510 Ciba	a-Geigy Cor	poration			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
99	87.125 153.000	39.313 149.000	139.1000 15.0970	50.5366 9.6320	22.8031 9.3802	
	Totals: Cost Analysis:		154.1970 37,603.3502		32.1833 9,624.2862	79,125.0282
IU #:	5515 Colu	ımbia Clean	ers Inc.			
Site	(mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 2	37.375 51.286	71.000 32.833	0.4320 0.8020	0.0673 0.1715	0.1279 0.1098	
·	Totals: Cost Analysis:		1.2340 300.9302	0.2388 126.5959	0.2377 71.0832	498.6093
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	Totals: Analysis:		2.7960 7.6636 36	69.2194 ,695.5243	42.2473 12,633.8848	93,907.0728

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(909)			05/01/95 1	111 d 00/21/30					
		Municipality: Union							
		Flow per MG	Cost Factors BOD per Ton		TSS per Ton				
		243.8656406	530.1	335225	299.0459697				
IU #:	7015 ACu	Powder Intern	ational						
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
3a 4a	148.000 87.714	95.857 49.857	0.1900 0.7490	0.1173 0.2740	0.0759 0.1557				
	Totals: Cost Analysis:		0.9390 228.9898	0.3913 207.4412	0.2316 69.2590	505.6901			
IU #:	7025 All	ied Processin	g Corp.						
S;+e	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
1	26.850	21.244	0.3080	0.0345	0.0273				
Totals: Cost An			0.3080 75.1106	0.0345 18.2896	0.0273 8.1640	101.5642			
IU #:	7035 Ame	rican Product	s Company						
Site	(mg/L) BOD	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
1	286.714	424.571	1.8790	2.2465	3.3267	THE STOP SEC 440 440 440 440			
		Totals: Cost Analysis:		2.2465 1,190.9450		2,644.0047			
IU #:	7045 Tra	nsTechnology	/ Breeze						
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
1	100.000	81.000	2.8420	1.1851	0.9599				
()	Totals: Cost An		2.8420 693.0662	1.1851 628.2612	0.9599 287.0542	1,608.3816			

09	/01	195	Thru	0.8	/31	196
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			Municipal	ity: Union		
		Flow per MG	Cost BOD p	Factors er Ton	TSS per Ton	
		243.8656406	530.1	335225	299.0459697	
IU #:	7060 Cha	mpion Envelo	pe Corporati	on		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	342.300	212.000	1.6790	2.3966	1.4843	
	Totals: Cost Analysis:		1.6790 409.4504	2.3966 1,270.5180	1.4843 443.8739	2,123.8423
IU #:	7065 Cul	ligan Water	Conditioning			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	4.071	22.014	3.5920	0.0610	0.3297	
	Totals: Cost Analysis:		3.5920 875.9654	0.0610 32.3381	0.3297 98.5955	1,006.8990
IU #:	7070 Dur	ex, Incorpor	ated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	28.571	41.429	12.7570	1.5199	2.2039	
	Totals: Cost And	alysis:	12.7570 3,110.9940	1.5199 805.7499	2.2039 659.0674	4,575.8113
IU #:	7080 For	emost Manufa	cturing Co.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	32.333	287.333	18.7920	2.5337	22.5162	
()	Totals: Cost Ana	alysis:	18.7920 4,582.7231	2.5337 1,343.1993	22.5162 6,733.3789	12,659.3013

3

1 2			Municipa	lity: Union		
		Flow per Mo	•	per Ton	TSS per Ton	
		243.865640	6 530.:	1335225	299.0459697	
IU #:	7092 Int	erlux/Court	auld Coating			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	90.667	77.500	6.5110	2.4617	2.1042	
	Totals: Cost An	alysis:	6.5110 1,587.8092	2.4617 1,305.0297	2.1042 629.2525	3,522.0914
IU #:	7105 Sto	nco Lighting	3			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	52.000	148.500	2.4010	0.5206	1.4868	
	Totals: Cost Analysis:		2.4010 585.5214	0.5206 275.9875	1.4868 444.6215	1,306.1305
IU #:	7110 NEI	/DoAll				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	84.000	17.522	1.5930	0.5580	0.1164	
	Totals: Cost An	alysis:	1.5930 388.4780	0.5580 295.8145	0.1164 34.8090	719.1014
IU #:	7145 Sch	ering Corpor	ation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
5	82.239	42.818	200.8040	68.8630	35.8535	
(')	Totals: Cost Ana	alysis:	200.8040 48,969.1961	68.8630 36,506.5848	35.8535 10,721.8447	96,197.6255

1 12			09/01/95	mru 08/31/96	•	
			Municipa	lity: Union		
		Flow per M	Cost G BOD	Factors per Ton	TSS per Ton	
		243.865640	6 530.	530.1335225		
IU#:	7150 SS	Studios, Inc	corporated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
1	163.667	52.667	0.4760	0.3249	0.1045	
	Totals: Cost Ar	: nalysis:	0.4760 116.0800			319.570°
[U #:	7167 Tur	rbo Braze Co	rporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
	23.080	37.000	1.7850	0.1718	0.2754	
	Totals: Cost Ar	alysis:	1.7850 435.3002	0.1718 91.0769	0.2754 82.3573	608.734
[U #:	7170 Tus	scan Dairy Fa	arms, Incorp			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
2a 2	,426.688	1,471.875	164.7110	1,666.7579	1,010.9498	
	Totals: Cost An	nalysis:	164.7110 40,167.3535	1,666.7579 883,604.2367	1,010.9498 302,320.4633	1,226,092.053
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
	Potals: nalysis:	421 102,684		L,750.0265 7,747.7129	1,081.9702 323,558.8276	1,353,990.8020

Munici	pality	: West	Orange
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	 F1	ow per MG	BOD	t Factors per Ton	TSS per Ton	
	24	3.8656406		.1335225	299.0459697	
IU #	: 8030 Organo	n, Incorpo	orated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	78.770	24.270	22.723	0 7.4638	2.2997	
	Totals: Cost Analy	sis:	22.723 5,541.359			10,185.8856
IU #	: 8040 Turtle	Back Zoo				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	5.814	14.143	14.988	0 0.3634	0.8839	
	Totals: Cost Analy	sis:	14.988 3,655.058			4,112.0355
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	Orange Totals Analysis:	: 37. 9,196.	.7110 .4172	7.8272 4,149.4611	3.1836 952.0427	14,297.9210
		A)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	d Totals: Analysis:	1,005. 236,175.		2,767.7282 67,265.5000	1,343.6680 401,818.5000	2,105,259.0200