

**THE JOINT MEETING OF  
ESSEX AND UNION COUNTIES  
2023 BUDGET**

**AS PRESENTED  
BY  
THE JOINT MEETING  
FINANCE & BUDGET COMMITTEE**

**BOARD CHAIRPERSON  
HON. ANIBAL RAMOS, JR.**

**FINANCE & BUDGET COMMITTEE CHAIRPERSON  
HON. BILL RUTHERFORD**

**COMMITTEE MEMBERS  
HON. BERGSON LENEUS  
HON. DEAN DAFIS  
HON. JOSEPH M. FLORIO**

**Adopted:**

**DECEMBER 15, 2022**

ITEM #1- VEHICLES

<b>2023 BUDGET</b>		<b>\$70,000</b>					
2022 BUDGET		\$ 91,000					
2022 ANNUAL ESTIMATE		\$36,065					
This item encompasses vehicles purchased, gasoline, oils and supplies/repairs performed by the auto mechanic.							
It is anticipated that replacement vehicles will be necessary as follows:							
Replacement vehicles:							
Replace 4 Maint Dept vans			\$40,000				
			\$40,000				
The estimated cost for typical gasoline, oils and repairs is :							
					\$45,000		
	Vehicles	gas & oils	Rep/etc.				
Sewers	\$0	\$10,000	\$2,250	\$12,250			
Treatmt Plt	\$40,000	\$4,500	\$9,000	\$53,500			
DWF	\$0	\$2,000	\$2,250	\$4,250			
<b>BUDGET</b>	\$40,000	\$16,500	\$13,500	<b>\$70,000</b>			

ITEM #2- EQUIPMENT RENTAL

<b>2023 BUDGET</b>		<b>\$400,000</b>				
2022 BUDGET		\$400,000	Historical expenses			
2022 ANNUAL ESTIMATE		\$493,103	2001	\$259,898	2016	\$437,029
			2002	\$235,293	2017	\$313,699
			2003	\$232,326	2018	\$554,099
			2004	\$372,107	2019	\$635,399
			2005	\$216,818	2020	\$470,256
			2006	\$150,703	2021	\$730,447
			2007	\$457,418		
			2008	\$156,253		
			2009	\$330,451		
			2010	\$25,512		
			2011	\$520,395		
			2012	\$158,044		
			2013	\$307,357		
			2014	\$119,776		
			2015	\$186,675		
<p>Work completed by utilizing Equipment rental has been:</p> <ol style="list-style-type: none"> <li>1) Off loading of equipment delivered to site (cranes &amp; forklifts)</li> <li>2) Cleaning of scum pits, scum and grit lines, centrate system at DWF</li> <li>3) Storm sewer manhole maintenance</li> <li>4) Trunk sewer maintenance</li> <li>5) rental of 30 cubic yard containers</li> </ol> <p>Equipment rental expenses are variable depending upon the needs due to equipment deliveries and the rate of "struvite" buildup in the centrate lines. For 2022 equipment rental was competitively bid in 2021 for a two year period.</p> <p>In addition, for 2021 bids were received for emergency excavation services and extended into 2022. The excavation services were used in 2021 for sewer excavations related to repairs, bypass pumping during sewer repairs and for on site excavations. The contract is awarded to the bidder(s) who offered</p>						
Equipment rental as bid	\$290,000	**				
additional excavating services	\$50,000					
Site services	\$100,000	**				
30 yd containers	\$20,000					
Debris removal	\$15,000					
Millburn Crossing	\$25,000					
TOTAL	\$500,000		Sewers	TP	DWF	
<b>BUDGET</b>	<b>\$400,000</b>		\$240,000	\$120,000	\$40,000	

ITEM # 3-INSURANCE

<b>2023 BUDGET</b>		<b>\$ 1,053,306</b>			
2022 BUDGET		<b>\$ 976,659</b>			
2022 ANNUAL ESTIMATE		<b>\$ 976,659</b>			
<b>COST DISTRIBUTION 2022 - 2023</b>					
	Sewers	Plant	Dewat	Drying	Total
Boiler		-	-	-	
Property		165,648	33,130	15,460	\$ 220,864
Gen Liability	2,743	68,568	13,714	6,400	\$ 91,423
Auto	526	13,152	2,630	1,228	\$ 17,536
Inland Marine	-		-		\$ 21,363
Boiler & Equip					\$32,975
Flood	-	7,805	1,467	-	\$ 10,200
Wk comp	15,482	387,047	77,409	36,124	\$ 516,063
Pollution	-	22,429	4,486		\$ 29,905
Umbrella	2,551	63,767	12,753	5,952	\$ 85,023
Public Officials	708	17,696	3,539	1,652	\$ 23,594
Cyber	131	3,268	654	305	\$ 4,357
Terrorism					\$ 0
Total	22,140	749,380	149,782	67,120	<b>\$ 1,053,306</b>
	<b>2023 estimate</b>				<b>Total Est. 2023</b>
Months	<b>4</b>		<b>8</b>		
Boiler		INCL		-	
Property*	73,621		147,243	220,864	\$ 220,864
Gen Liability*	30,474		60,949	91,423	\$ 91,423
Auto*	5,845.50		11,691	17,536	\$ 17,536
LTD		INCL		-	\$ -
Inland Marine*	7,121.03		14,242	21,363	\$ 21,363
Equip	10,992		21,984	32,975	\$ 32,975
Flood*	3,400		6,800	10,200	\$ 10,200
Wk Comp	172,021		344,042	516,063	\$ 516,063
Pollution*	9,968		19,937	29,905	\$ 29,905
Umbrella	28,341		56,682	85,023	\$ 85,023
Public Officials*	7,865		15,730	23,594	\$ 23,594
Cyber	1,452		2,905	4,357	\$ 4,357
Terrorism	-		-	-	\$ -
Fees & Surcharges					
				1,053,306	1,053,306
	Sewers	Plant	Dewat	Drying	Total
	3.00%	75.00%	15.0%	7.00%	100.00%
	31,599	\$ 789,979	157,996	73,731	1,053,306
<b>TOTAL</b>	<b>351,102</b>		<b>702,204</b>	<b>\$ 1,053,306</b>	<b>\$ 1,053,306</b>

ITEM #4- WATER SERVICE

2023 BUDGET		\$253,000							
2022 BUDGET		\$220,000							
2022 ANNUAL ESTIMATE		\$189,841							
HISTORICAL SUMMARY							Effective Rate Change		
	COST	CU FT CONSUMED	\$RATE/ CU FT	TP USAGE	DWF USAGE	SDF*			
1997	\$105,346	5,955,413	\$0.0177	64.73%	35.27%				
1998	\$129,335	7,096,534	\$0.0182	64.84%	35.16%		3.03%		
1999	\$168,631	7,764,332	\$0.0217	66.03%	33.97%		19.17%		
2000	\$173,323	7,519,362	\$0.0231	67.19%	32.81%		6.13%		
2001	\$187,266	8,516,441	\$0.0220	75.45%	24.55%		(4.61%)		
2002	\$193,902	7,449,304	\$0.0260	71.49%	27.78%	0.73%	18.38%		
2003	\$193,961	7,094,573	\$0.0273	72.08%	27.92%		5.03%		
2004	\$182,883	6,901,143	\$0.0265	73.04%	26.96%		(3.07%)		
2005	\$197,270	7,667,609	\$0.0257	74.90%	25.10%		(2.92%)		
2006	\$204,683	7,173,277	\$0.0285	73.70%	26.30%		10.91%		
2007	\$216,304	6,902,363	\$0.0313	75.98%	24.02%		9.83%		
2008	\$205,861	6,114,583	\$0.0337	73.08%	26.92%		7.43%		
2009	\$233,081	6,170,587	\$0.0378	69.06%	30.94%		12.19%		
2010	\$263,638	6,510,611	\$0.0405	74.33%	25.67%		7.20%		
2011	\$245,614	6,129,945	\$0.0401	74.87%	25.13%		(1.05%)		
2012	\$203,011	4,731,658	\$0.0429	70.59%	29.41%		7.08%		
2013	\$112,330	2,486,642	\$0.0452	68.42%	31.58%		4.41%	Avg last 3 years	
2014	\$89,325	2,154,294	\$0.0415	72.94%	27.06%		3.48%	Avg last 3 years	
2015	\$111,140	1,957,238	\$0.0568	57.64%	42.36%		4.99%	Avg last 3 years	
2016	\$79,084	2,392,577	\$0.0331	85.72%	14.28%		4.29%	Avg last 3 years	
2017	\$136,820	1,886,160	\$0.0725	66.60%	33.40%		4.25%	Avg last 3 years	
2018	\$116,651	2,050,089	\$0.0569	58.32%	41.68%		4.51%	Avg last 3 years	
2019	\$133,802	2,691,946	\$0.0497	64.92%	35.08%		4.35%	Avg last 3 years	
2020	\$153,566	3,292,907	\$0.0466	55.57%	44.43%		4.37%	Avg last 3 years	
2021	\$155,919	2,852,015	\$0.0547	57.54%	42.46%		4.41%	Avg last 3 years	
est 2022	\$189,841	3,978,917	\$0.0477	51.96%	48.04%		4.38%	Avg last 3 years	
2023 BUDGET	TRT PLT	DWF	DRYER	TOTAL CU FT	RATE				
	2,067,000	1,900,000	0	3,967,000	\$0.0498				
	\$102,940	\$94,623	\$0	\$197,563					
		Water Facility Charge		SAY					
TP	\$102,940	\$25,000	\$127,940	\$130,000					
DWF	\$94,623	\$25,000	\$119,623	\$120,000					
SDF	\$0	\$3,500	\$3,500	\$3,000					
				\$253,000					
BUDGET	\$253,000								

## ITEM #5- ELECTRIC SERVICE

2023 BUDGET		\$1,600,000								
2022 BUDGET		\$1,000,000								
2022 ANNUAL ESTIMATE		\$916,028								
HISTORY				AVG. SUPPLY PER MONTH			DEMAND PER MONTH			
YEAR	Utility AVG USAGE/MO	AVG EXPENSE/MO incl Trans	AVG COST/KWH	TOTAL DEMAND	UTILITY Co	Cogen	TRTMNT PLT	DWF	SDF	
1987	836,000	\$52,566	0.063	1,627,593	836,000	793,832				
1988	1,052,800	\$66,225	0.063	1,828,824	1,052,800	776,870				
1989	981,600	\$64,100	0.065	1,812,867	981,600	830,766				
1990	1,025,600	\$68,602	0.067	1,900,207	1,025,600	877,333				
1991	1,185,600	\$81,779	0.069	2,015,572	1,185,600	820,000				
1992	1,249,600	\$85,061	0.068	2,113,636	1,249,600	851,947	1,907,982	205,654		
1993	1,332,000	\$95,149	0.071	2,234,215	1,332,000	899,787	2,050,339	183,876		
1994	1,363,200	\$98,402	0.072	2,224,419	1,363,200	858,880	2,025,589	198,830		*
1995	1,228,800	\$95,449	0.078	2,135,677	1,228,800	906,933	1,953,481	182,196		**
1996	1,268,500	\$100,537	0.079	2,200,455	1,268,500	931,973	1,949,908	170,610	79,937	
1997	1,321,400	\$100,176	0.076	2,157,561	1,321,400	836,208	1,915,579	174,895	67,086	***
1998	1,527,084	\$118,269	0.077	2,153,284	1,527,084	626,200	1,945,309	193,569	14,406	
1999	1,460,299	\$112,948	0.077	2,131,241	1,460,299	670,942	1,932,958	182,376	15,907	****
2000	1,563,500	\$116,784	0.075	2,220,255	1,563,500	656,755	1,970,012	214,695	35,548	*****
2001	1,626,104	\$113,958	0.070	2,272,450	1,626,104	646,347	1,957,860	209,287	105,303	
2002	1,777,485	\$111,892	0.063	2,411,038	1,777,485	633,553	2,041,833	225,513	143,692	
2003	1,787,033	\$117,992	0.066	2,406,951	1,787,033	619,752	2,199,044	129,382	78,525	
2004	1,799,507	\$139,019	0.077	2,448,734	1,799,507	649,227	2,172,586	237,788	38,360	*****
2005	1,620,537	\$134,083	0.083	2,231,994	1,620,537	611,457	1,980,412	224,250	27,332	
2006	1,643,477	\$141,620	0.086	2,189,237	1,643,477	545,760	1,947,616	226,518	15,103	
2007	1,518,967	\$161,248	0.106	2,149,407	1,518,967	629,800	1,903,856	217,268	28,283	
2008	1,535,620	\$174,426	0.114	2,194,342	1,535,620	670,347	1,928,041	241,613	24,688	
2009	1,394,245	\$154,097	0.111	2,137,539	1,394,245	743,294	1,883,676	240,711	13,153	<<<
2010	770,366	\$90,843	0.118	2,160,227	770,366	1,389,860	1,945,189	213,318	1,720	
2011	717,614	\$79,215	0.110	2,118,215	717,614	1,400,601	1,889,251	214,913	14,051	
2012	616,000	\$62,390	0.101	2,056,597	616,000	1,440,597	1,819,340	219,600	17,657	
2013	496,400	\$51,237	0.103	2,005,464	496,400	1,509,064	1,782,213	208,072	15,179	*1
2014	546,109	\$70,016	0.128	2,016,608	546,109	1,470,499	1,823,314	177,233	16,061	
2015	454,981	\$65,080	0.143	2,010,090	454,981	1,555,109	1,784,268	215,354	10,468	*2
2016	868,327	\$70,597	0.081	2,338,356	868,327	1,470,029	2,107,011	224,643	6,703	*2
2017	797,049	\$54,767	0.069	2,402,816	797,049	1,605,767	2,217,593	177,577	7,646	*2
2018	756,800	\$58,760	0.078	2,268,446	756,800	1,511,646	2,102,869	140,362	25,215	
2019	758,400	\$63,595	0.084	2,361,420	758,400	1,603,020	2,227,809	118,543	15,069	
2020	765,900	\$74,053	0.097	2,382,596	765,900	1,616,696	2,235,067	126,912	20,617	
2021	673,400	\$76,286	0.113	2,276,629	673,400	1,603,202	2,140,616	121,666	14,347	
EST 2022	575,205	\$75,683	0.132	2,168,272	575,205	1,593,067	2,019,987	134,560	13,090	
2023 BUDGET	768,000	\$122,880	0.160	2,272,104	768,000	1,504,104	2,127,104	125,000	20,000	
Estimated savings from Cogen for 2022 MONTHLY				\$209,608						
ANNUALLY				\$2,515,293						
				****	DIGESTER #1 RETURNED 1/5/99					
* DIGESTER #2 OUT OF SERVICE				*****	DIGESTER #4 CONVERSION					
** DIGESTER #2 RETURNED 5/95				*1	DIGESTER #2 OUT OF SERVICE			*****	DIGESTER #3 OUT OF SERVICE	
*** DIGESTER #1 OUT OF SERVICE 10/97				*2	DIGESTER #1 OUT OF SERVICE			<<<	New Cogen Sept 15, 2009	

Expected electrical kw demand for 2022				ITEM #5- ELECTRIC SERVICE									
Year	Trt Plt KW Avg/mon	DWF KW Avg/mon	Dryer KW Avg/mon										
1997	1,915,579	174,895	67,086										
1998	1,945,309	193,569	14,406										
1999	1,932,958	182,376	15,907										
2000	1,970,012	214,695	35,548										
2001	1,957,860	209,287	105,303										
2002	2,041,833	225,513	143,692										
2003	2,199,044	129,382	78,525										
2004	2,172,586	237,788	38,360										
2005	1,980,412	224,250	27,332										
2006	1,947,616	226,518	15,103										
2007	1,903,856	217,268	28,283										
2008	1,928,041	241,613	24,688										
2009	1,883,676	240,711	13,153										
2010	1,945,189	213,318	1,720										
2011	1,889,251	214,913	14,051										
2012	1,819,340	219,600	17,657										
2013	1,782,213	208,072	15,179										
2014	1,823,314	177,233	16,061										
2015	1,784,268	215,354	10,468										
2016	2,107,011	224,643	6,703										
2017	2,217,593	177,577	7,646										
2018	2,102,869	140,362	25,215										
2019	2,227,809	118,543	15,069										
2020	2,235,067	126,912	20,617										
2021	2,140,616	121,666	14,347										
est 2022	2,019,987	134,560	13,090										
Avg 20, 21, 22	2,131,890	127,713	16,018										
Avg 20, 21	2,187,842	129,452	20,142										
Avg 21, 22	2,080,301	128,113	13,719										
Expected 2022	2,133,344	128,426	15,179										
say	2,200,000	150,000	15,000										
Total Demand per Month>					2,365,000								
FY 2023	28,380,000	KWH											
Generator production				Monthly Avg		Monthly Avg		Monthly Avg					
1999	670,942	2005	611,457	2011	1,400,601	2017	1,605,767						
2000	656,755	2006	545,760	2012	1,440,597	2018	1,511,622						
2001	646,347	2007	629,800	2013	1,509,114	2019	1,603,054						
2002	633,553	2008	670,347	2014	1,432,084	2020	1,616,705						
2003	619,752	2009	743,294	2015	1,555,109	2021	1,603,202						
2004	649,227	2010	1,389,860	2016	1,470,029								
		for 2023	1,600,000										
PSE&G= total demand - (Cogen production minus production loss)													
	28,380,000	19,200,000	1,000,000	>>>>>>>>>	10,180,000								
10,180,000	say:	10,180,000	@ 0.1555	\$/KwH									
cost		\$1,582,990											
add area lighting & partial lab:		\$20,000											
Add PSE&G Dist Chgs:		\$0	(inc in supply rate	93.6%	5.5%	0.9%	100.0%						
Sales Taxes													
EST	\$1,602,990		Sewers	TP	DWF	SDF							
BUDGET	\$1,600,000		\$0	\$1,200,000	\$400,000	\$0	\$0	\$1,600,000					

## ITEM #6-GAS SERVICE

2023 BUDGET		<b>\$1,162,200</b>	This item includes gas utilized at: 1) Treatment plant laboratory 2) Gas heating in select areas 3) Supplemental fuel for Cogen 4) Fuel for boiler & hot water in DWF 5) Boiler #1 in P&O Bldg.			As shown below, gas usage is variable and, like fuel oil, is temperature dependent. The usage of fuel oil vs. natural gas is economically driven based on rates and the availability of methane gas for power generation and heating.	
2022 BUDGET		\$900,000					
2022 ANNUAL ESTIMATE		\$1,128,955					
HISTORY							
YEAR	\$	Avg.RATE/CU FT	TPLT	COGEN	DWF	SDF	TOTAL CU FT
2000	\$135,568	0.0068	1,351,100	2,021,700	8,589,800	7,847,000	19,809,600
2001	\$262,055	0.0085	153,800	149,282	1,326,700	29,309,000	30,938,782
2002	\$381,409	0.0051	8,800	5,500	3,022,800	71,960,000	74,997,100
2003	\$201,102	0.0095	4,000	5,200	10,665,900	10,472,000	21,147,100
2004	\$22,188	0.0245	3,000	0	901,200	0	904,200
2005	\$22,382	0.0236	1,200	0	948,400	0	949,600
2006	\$87,811	0.0129	1,000	5,596,700	76,700	1,127,300	6,801,700
2007	\$97,769	0.0060	1,000	8,686,400	7,698,900	0	16,386,300
2008	\$300,388	0.0157	335,500	8,160,000	10,620,800	0	19,116,300
2009	\$236,916	0.0093	0	23,578,000	1,955,700	0	25,533,700
2010	\$401,855	0.0092	0	36,740,000	7,067,000	0	43,807,000
2011	\$448,757	0.0098	0	32,339,000	13,428,600	0	45,767,600
2012	\$402,109	0.0076	0	41,726,000	11,119,500	0	52,845,500
2013	\$753,165	0.0080	0	79,300,000	14,631,000	0	93,931,000
2014	\$557,755	0.0074	0	62,550,000	12,416,000	3300	74,969,300
2015	\$576,920	0.0078	1000	62,550,000	10,968,000	0	73,519,000
2016	\$492,916	0.0055	1000	75,487,000	14,027,500	0	89,515,500
2017	\$604,201	0.0054	1000	99,016,000	12,566,700	0	111,583,700
2018	\$815,730	0.0070	0	100,329,000	15,393,000	0	115,722,000
2019	\$791,213	0.0051	21000	138,633,000	15,009,000	0	153,663,000
2020	\$798,797	0.0055	522000	127,296,000	16,193,000	0	144,011,000
2021	\$985,163	0.0068	0	129,482,000	15,332,000	0	144,814,000
EST 2022	\$1,128,955	0.0074	0	135,518,400	16,638,000	0	152,156,400
Year	BTUs required	Fuel oil BTUs	Natural gas BTUs	Drier Nat Gas BTU	Cost per 1000 BTU		
2000	53,908,194,600	32,328,174,600	12,560,730,000	9,019,290,000	\$0.007596		
2001	57,378,399,900	24,892,678,800	1,711,271,100	30,774,450,000	\$0.007001		
2002	106,454,056,200	27,707,101,200	3,188,955,000	75,558,000,000	\$0.004920		
2003	49,537,996,800	27,333,541,800	11,208,855,000	10,995,600,000	\$0.007775		
2004	30,892,464,000	29,943,054,000	949,410,000	0	\$0.009020		
2005	27,004,038,000	26,006,958,000	997,080,000	0	\$0.009076		
2006	26,027,224,800	18,885,439,800	5,958,120,000	1,183,665,000	\$0.012116		
2007	27,285,841,000	19,199,844,000	8,085,997,000	0	\$0.016309		
2008	39,973,573,800	19,901,458,800	20,072,115,000	0	\$0.015594		
2009	55,648,908,600	28,837,591,200	26,811,317,400	0	\$0.010208		
2010	72,827,385,600	26,829,300,600	45,998,085,000	0	\$0.011200		
2011	57,130,757,400	9,074,777,400	48,055,980,000	0	\$0.013175		
2012	58,313,857,800	2,826,082,800	55,487,775,000	0	\$0.010692		
2013	69,907,425,800	1,328,005,800	68,579,420,000	0	\$0.009584		
2014	93,485,467,200	14,771,167,200	78,714,300,000	0	\$0.005980		
2015	86,718,123,900	8,421,723,900	78,296,400,000	0	\$0.004151		
2016	100,121,746,800	4,327,146,000	93,991,275,000	0	\$0.005299		
2017	123,293,356,800	218,988,000	117,162,885,000	0	\$0.005013		
2018	127,639,621,800	2,812,005,000	121,508,100,000	0	\$0.006819		
2019	167,455,621,800	5,571,964,800	161,346,150,000	0	\$0.005405		
2020	156,794,971,800	1,364,551,200	151,211,550,000	0	\$0.005207		
2021	158,186,221,800	5,104,553,400	152,054,700,000	0	\$0.006751		
	NG cu ft	RATE	EXTENSION	Service Chg		SAY	
P&O/Treatment Plt./Lab	0		\$0	\$132	<b>\$132</b>	<b>\$0</b>	
Cogen	136,000,000	\$0.0074	\$1,006,400	\$20,000	<b>\$1,026,400</b>	<b>\$1,026,400</b>	
DWF	17,000,000	\$0.0074	\$125,800	\$10,000	<b>\$135,800</b>	<b>\$135,800</b>	
Dryer	0		\$0	\$0	<b>\$0</b>	<b>\$0</b>	
	153,000,000		\$1,132,200	\$30,132	<b>\$1,162,332</b>	<b>\$1,162,200</b>	

ITEM #7- FUEL OIL AND KEROSENE

2023 BUDGET		\$230,000					
2022 BUDGET		\$98,100					
2022 ANNUAL ESTIMATE		\$150,000					
	gallons	expended	\$/gal		gallons	expended	\$/gal
1996	318,322	\$249,928	\$0.79	2011	138,675	\$303,926	\$2.19
1997	292,776	\$221,731	\$0.76	2012	19,874	\$81,584	\$4.11
1998	228,866	\$112,438	\$0.49	2013	9,339	\$36,361	\$3.89
1999	220,967	\$131,773	\$0.60	2014	103,876	\$344,058	\$3.31
2000	227,343	\$273,917	\$1.20	2015	39,632	\$77,942	\$1.97
2001	175,054	\$139,657	\$0.80	2016	30,430	\$37,617	\$1.24
2002	194,846	\$142,307	\$0.73	2017	11,540	\$13,826	\$1.20
2003	192,219	\$184,043	\$0.96	2018	19,775	\$54,627	\$2.76
2004	210,570	\$256,462	\$1.22	2019	39,184	\$113,961	\$2.91
2005	182,890	\$284,898	\$1.56	2020	9,596	\$17,698	\$1.84
2006	132,809	\$227,525	\$1.71	2021	35897	\$82,702	\$2.30
2007	135,020	\$253,873	\$1.88	Est 2022	50000	\$150,000	\$3.00
2008	139,954	\$403,500	\$2.88				
2009	202,796	\$331,166	\$1.63				
2010	188,673	\$302,475	\$1.60				

Fuel oil is used at the treatment plant boilerhouse for heating the digesters and plant buildings and at the DWF boilers as a "back-up source" of fuel for the boilers which are fired using natural gas as the primary fuel source.

The decision to use fuel oil or natural gas any at time is driven by evaluating and comparing costs for fuel oil versus natural gas. In past heating seasons, gas was the more economical at times.

Transportation : **\$0.13 per gallon** EST per 2 year contract FY 2023 & 2024 (up from \$0.05)

Price is allowed to fluctuate during the term of the Contract dependent upon posted price of New York Harbor Tank Car Reseller. Transportation rate remains constant during the life of the contract.

Estimated need for 2023		@	\$4.57	PER GAL			
				Fuel oil	Kerosene	BUDGET	
Treatment Plant	25,000		\$114,250	\$114,250	\$1,000	\$115,250	
DWF	25,000		\$114,250	\$114,250	\$500	\$114,750	
SDF	0		\$0	\$0	\$0	\$0	
	50,000	gallons	\$228,500			\$230,000	
	kerosene		\$1,500				
	TOTAL		\$230,000				
	BUDGET		\$230,000				

ITEM #8 - SEWER MAINTENANCE

2023 BUDGET	\$30,000					
2022 BUDGET	\$30,000					
2022 ANNUAL ESTIMATE	\$30,000					
<p>This item encompasses repairs to frames and covers, access plates, other repairs revealed during the annual sewer inspections, NJ "One Call" System and minor cleaning projects.</p> <p>Major repairs are charged against the Sewer Replacement Fund which is subsequently re-imbursed by respective members based upon the existing municipal ownership contracts of the Joint Meeting. In 1993 and 1994 TV inspections were performed to examine the status of the interior of the original 1902 trunk sewer in Sections I, II, IV and V. As a result of JM Staff review of the inspection, 28 segments or reaches were identified as needing repair. The repairs require either lining or excavation. Repairs have been made on 13 segments. Subsequent contracts will address the remaining segments.</p>						
			SEWERS			
Sewer Cleaning/TV inspections		\$20,000				
NJ One Call System		\$5,000				
Covers, frames, minor repairs		\$5,000				
	<b>BUDGET</b>		<b>\$30,000</b>			

### ITEM #9- METER REPAIRS

2023 BUDGET	\$330,000						
2022 BUDGET	\$330,000						
2022 ANNUAL ESTIMATE	\$317,000						
<p>This item involves the costs associated with the ADS sewer metering system. The costs involved for 2022 have included:</p> <p>Replacement and Maintenance services of the metering system including inspection, calibration and repairs as well as the relocation of meters to observe flow patterns in the trunk sewer.</p> <p>For 2023 the budget includes maintenance agreements to maintain the 32 flow meter sites and repairs outside the scope of the maintenance agreement.</p>							
		SEWERS					
METERS		\$330,000					

ITEM #10- EQUIPMENT

2023 BUDGET	\$337,000					
2022 BUDGET	\$351,500					
2022 ANNUAL ESTIMATE	\$233,000					
Chlorine titrator			\$30,000			
Lab Equipment: Water Bath, COD Block			\$12,000			
Motorola Radios			\$6,000			
IP Cameras and Licenses			\$10,000			
Network Switches, servers, monitors			\$35,000			
Traveling Bridge Gearboxes			\$12,000			
Sump Pumps			\$30,000			
Hypo Storage Tank			\$20,000			
Thickener VFD			\$25,000			
Exhaust Fans			\$30,000			
Main Sub Circuit Breaker			\$25,000			
Grinders			\$15,000			
Power Rail Parts			\$30,000			
#1 Kewanee - New Burner			\$32,000			
Replace Vacuum Pump Assembly			\$5,000			
Fork Lift			\$0			
Service water pump			\$20,000			
		TOTAL	\$337,000			
BUDGET						
		Sewers	TP	DWF	SDF	
2023		\$0	\$265,000	\$72,000	\$0	\$337,000

ITEM #11- CHEMICALS

2023 BUDGET		\$7,209,643	This item is comprised of:						
2022 BUDGET		\$5,812,150		1) Chlorine (Trt Plt)		7) Potassium Permanganate (Trt Plt & DWF)			
2022 ANNUAL ESTIMATE		\$3,934,763		2) Polymer (Trt Plt & DWF)		8) Insect Repellant (Trt Plt & DWF)			
				3) Struvite Treatment		9) Deodorizer (DWF)			
				4) Lime (DWF)		10) Pest Control (Trt Plt & DWF)			
				5) Sodium Bisulfite		11) Boiler Water Treatment (SDF)			
				6) Herbicide (Trt Plt)		12) Carbon Dioxide Inerting System (SDF)			
BUDGET						13) Digester Additive			
Sodium Hypochlorite	(Treatment Plant) chlorination of wastewater effluent prior to discharge								
	Contract EST for 2023 use \$1.98/gal								
		Gal				Gal			
Gals Hypo	2014	1,727,000	\$1,117,208	\$0.65		2005	689,423	\$503,279	0.73
	2015	1,277,563	\$855,967	\$0.67		2006	739,033	\$539,494	0.73
	2016	1,250,000	\$837,500	\$0.67		2007	797,488	\$693,815	0.87
	2017	1,345,767	\$901,664	\$0.67		2008	978,000	\$850,860	0.87
	2018	1,573,000	\$1,006,720	\$0.64		2009	810,000	\$838,350	1.035
	2019	2,117,056	\$1,693,645	\$0.80		2010	796,500	\$549,107	0.6894
	2020	2,356,433	\$2,050,097	\$0.87		2011	950,000	\$641,250	0.675
	2021	2,074,132	\$1,564,700	\$0.75		2012	1,076,811	\$624,973	0.755
	Est 2022	1,675,208	\$1,714,931	\$1.02		2013	1,671,771	\$927,992	0.715
BUDGET 2023		1,900,000	\$3,762,000	\$1.980					
	\$3,762,000								
Magnesium Hydroxide Slurry									
		50,000	\$176,000.00	\$3.52					
Budget	\$176,000								
Polymer									
	Used at								
	A) Treatment Plant in liquid form at Thickener gravity Belts								
	B) DWF in dry form and dissolved on site as part of the dewatering process in the centrifuges								
	Contract to supply liquid polymer for year 2023 use \$0.18/lb.								
	For 2023: 150,000 #/mo X 12 mo X \$0.18/# = \$324,000								
					SAY \$324,000				
	Contract for Dry polymer for 2023: use @ \$ 2.31/#								
	For 2023 : 37,500#/mo X 12 mo X \$ 2.10/# = \$796,500								
					SAY \$1,039,500				
POLYMER									
Thickener	\$324,000								
DWF	1,039,500								
BUDGET 2023	\$1,363,500		2022	\$1,046,000					
Struvite Treatment									
DWF 2023	\$165,000		2022	\$140,250		Used to retard the deposition of struvite in the centrate system.			
Potassium Permanganate									
	est	cost/lb							
		\$1.75							
PERMANGANATE			lbs	EST					
Trt. Plt	\$50,000		12,500	\$21,875					
DWF	\$0								
BUDGET 2023	\$50,000		0	\$0	2017	\$31,800			

ITEM #11- CHEMICALS

<b>Lime</b>	Required at DWF for pH adjustment and control and stabilization. LIME USE HAS BEEN SUSPENDED AS A RESULT OF AN ALTERNATE DISPOSAL METHOD							
<b>2023</b>	<b>\$0</b>		<b>2022</b>	<b>\$0</b>				
<b>SODIUM BISULFITE</b>	Required by the NJPDES permit for the removal of residual chlorine in the treatment plant effluent. EST \$2.04/gal x 1205 gal/day x 365 = \$897,243							
<b>BUDGET 2023</b>	<b>\$897,243</b>		<b>2022</b>	<b>\$450,000</b>				
<b>MISCELLANEOUS CHEMICALS</b>								
WEED KILLER		SEWERS	Trt. Plt.	DWF	DRYER			
BUG REPELLENT			\$1,700	\$300	\$300			
DEODORANT			\$500	\$300	\$100			
PEST CONTROL				\$800				
SODA ASH (Cogen)			\$3,500	\$1,500	\$1,000			
Carbon (SAG Media)			\$50,000					
Iron Sponge Media Cogen			\$0				replaced by SAG Media	
OTHER CHEMICALS		\$9,000	\$25,000					
<b>MISC CHEM</b>		\$9,000	\$3,000	\$1,000	\$400			
<b>BUDGET 2023</b>	<b>\$98,400</b>	\$9,000	\$83,700	\$3,900	\$1,800			
<b>Boiler Water Treatment</b>	<b>\$5,000</b>		2022 Budget	\$5,000				
<b>BUDGET 2023</b>								
<b>Carbon Dioxide System</b>	<b>\$0</b>		2022 Budget	\$0				
<b>BUDGET 2023</b>								
<b>Digester Treatment</b>								
<b>BUDGET 2023</b>	<b>\$652,500</b>		2022 Budget	\$652,500				
<b>Water Filter Chemicals</b>	<b>\$35,000</b>		2022 Budget	\$35,000				
<b>BUDGET 2023</b>								
<b>BUDGET 2022 Summary</b>	SEWERS	TREATMENT PLANT	DEWATER	DRYING	TOTAL			
SODIUM HYPOCHLORITE		\$3,762,000			\$3,762,000			
Magnesium Hydroxide Slurry		\$176,000			\$176,000			
POLYMER		\$324,000	\$1,039,500		\$1,363,500			
STRUVITE TRTMNT		0	\$165,000		\$165,000			
PERMANGANATE		\$50,000	\$0		\$50,000			
LIME		0	\$0		\$0			
SODIUM BISULFITE		\$897,243			\$897,243			
MISC. CHEM.	\$9,000	\$83,700	\$3,900	\$1,800	\$98,400			
BOILER TRT		5000		\$5,000	\$10,000			
CO2 SYSTEM				\$0	\$0			
Digester Treatment		\$652,500			\$652,500			
Water Filter Chemical		\$35,000			\$35,000			
<b>TOTAL</b>	<b>\$9,000</b>	<b>\$5,985,443</b>	<b>\$1,208,400</b>	<b>\$6,800</b>	<b>\$7,209,643</b>	\$7,209,643		
					<b>\$7,209,643</b>			

ITEM #12- SLUDGE DISPOSAL

2023 BUDGET		\$3,468,528				
2022 BUDGET		\$3,600,000				
2022 ANNUAL ESTIMATE		\$2,605,722				
			Avg tons/month	\$/ton		
1994 expended		\$4,005,879	2978	114.66		
1995 expended		\$3,730,393	2711	114.66		
1996 expended		\$2,129,547	2255	78.66		
1997 expended		\$2,174,815	2256	78.66		
1998 expended		\$1,906,592	2725	78.66		
1999 expended		\$1,838,061	2612	59.50		
2000 expended		\$1,730,872	2466	58.50		
2001 expended		\$1,274,610	1725	\$61.58		
2002 expended		\$1,363,402	1848	\$61.48	* hybrid DWF & SDF	
2003 expended		\$1,837,994	2474	\$61.91	* hybrid DWF & SDF	
2004 expended		\$2,026,738	2679	\$63.04	** Current rate expired Apr 05	
2005 expended		\$1,774,003	2266	\$65.24	hybrid price	
2006 expended		\$2,007,133	2535	\$65.98		
2007 expended		\$2,092,877	2457	\$70.98		
2008 expended		\$2,206,265	2581	\$71.23		
2009 expended		\$2,216,851	2556	\$72.28		
2010 expended		\$2,278,135	2589	\$73.32	blended price	
2011 expended		\$2,471,523	2533	\$81.31	blended price	
2012 expended		\$2,186,478	2425	\$75.14	blended price	
2013 expended		\$1,989,974	2425	\$74.60		
2014 expended		\$1,799,956	2199	\$74.60		
2015 expended		\$2,300,945	2225	\$86.17		
2016 expended		\$2,561,123	2460	\$86.76		
2017 expended		\$2,561,123	2465	\$86.58		
2018 expended		\$2,778,116	2149	\$107.74		
2019 expended		\$3,000,000	1806	\$138.43		
2020 expended		\$3,168,531	1920	\$137.53		
2021 expended		\$2,752,014	1920	\$119.45		
2022 EST		\$3,171,082	1920	\$137.64		
		PER MONTH				
		\$289,044	2100	\$137.64		
2023	\$3,468,528					
DWF						
	DWF					
BUDGET	\$3,468,528					

ITEM #13-SALARIES & WAGES

<b>2023 BUDGET</b>		<b>\$5,596,387</b>			
<b>2022 BUDGET</b>		<b>\$5,596,387</b>			
<b>2022 ANNUAL ESTIMATE</b>		<b>\$5,596,387</b>			
Covers non-union employees who do not qualify for overtime					
		<b>2022</b>	<b>2023</b>		
Plant/Dewatering		Adjusted Census			
43 employees		\$3,991,467	\$3,991,467		
Pretreatment/ Sewers					
8 employees		\$1,044,086	\$1,044,086		
9 Vacancies		\$560,833	\$560,833		
Total 51		\$5,596,386	\$5,596,386		
Sewer and pretreatment costs split					
Estimated annual cost is _____					
For 2023					
10% Supv	Sewers	\$234,964	\$234,964	Paluch/Gallego	
	Pretreatment	\$809,123	\$809,123		
	Total	\$1,044,087	\$1,044,087		
Summary					
Plant/Dewat.		4,552,300	4,552,300		
Sewers		234,964	234,964		
Pretreat.		809,123	809,123		
Total	2022>	\$5,596,387	\$5,596,387	<2023	
BUDGET					
Sewers		391,747	391,747	7%	
Dewatering					
50% of Plant/Dewat.		2,070,663	2,070,663	37%	
Plant		3,133,977	3,133,977	56%	
100% of pretreat. Plus					
50% of Plant/Dewat.					
Total		\$5,596,387	\$5,596,387		
		<b>2023 BUDGET</b>	<b>\$5,596,387</b>		

ITEM #14- TECH-PROFESSIONAL SVC

2023 BUDGET		\$1,136,000				
2022 BUDGET		\$1,111,000				
2022 ANNUAL ESTIMATE		\$949,829				
Historically	Budgeted	Expended		Budgeted	Expended	
1999	\$650,000	\$494,115	2018	\$1,353,300	\$1,430,081	
2000	\$630,000	\$312,473	2019	\$1,487,500	\$2,056,357	
2001	\$569,500	\$294,459	2020	\$1,076,500	\$1,434,967	
2003	\$501,500	\$521,489	2021	\$1,111,000	\$1,165,213	
2004	\$501,500	\$522,929	2022 EST	\$1,161,000	\$959,150	
2005	\$501,500	\$289,741				
2006	\$520,000	\$280,682				
2007	\$520,000	\$227,230				
2008	\$520,000	\$486,798				
2009	\$520,000	\$291,686				
2010	\$522,500	\$334,314				
2011	\$342,500	\$643,972				
2012	\$677,500	\$656,747				
2013	\$677,500	\$1,269,382				
2014	\$737,500	\$1,108,416				
2015	\$877,500	\$1,113,474				
2016	\$877,500	\$1,534,908				
2017	\$953,000	\$2,131,072				
In 2023 the above services will be required, however, JM's participation in the studies (nutrient, metals and PCB/Dioxin trackdown) with the NJ Harbor Dischargers Group must be provided for, along with the following anticipated projects:						
\$655,000	General Consulting Services (Specifications, Operations, Financial, NJPDES renewal)					
\$150,000	NJPDES Permit issues CSOs					
\$0	NJHDG - PCB, Toxics track downs, SWEM, metals					
\$22,000	Auditing Services					
\$25,000	Sewers					
\$25,000	Electrical Consulting					
\$10,000	Medical Exams					
\$34,000	Bioassays					
\$45,000	Lab Testing					
\$10,000	Public Relations & Education					
\$20,000	Technical support Instrumentation/controls					
\$10,000	Technical support Air Emissions					
\$60,000	Local Limits Study & Evaluation (JMEUC Permit Requirement)					
\$50,000	Grant consultants					
\$1,136,000	TOTAL					
			Sewers	TP	DWF	SDF
for 2023 Budget use		\$1,136,000	\$25,000	\$1,061,000	\$50,000	\$0

ITEM #15-LABOR

<b>2023 BUDGET</b>		<b>\$6,742,851</b>			
<b>2022 BUDGET</b>		<b>\$6,742,851</b>			
<b>2022 ANNUAL ESTIMATE</b>		<b>\$6,742,851</b>			
				2022	2023
<b>Dewatering</b>					
14 employees				\$999,852	\$999,852
<b>Pretreatment</b>					
4 employees				\$343,980	\$343,980
<b>Breakdown of sewer hours</b>					
150 hours divided by 4160 hrs. (2 staff)				2022	2022
		Sewer 5%		\$17,199	\$17,199
		Pretreatment 95%		\$326,781	\$326,781
		Total		\$343,980	\$343,980
<b>Main Plant</b>					
64 employees				\$3,992,647	\$3,992,647
12 Vacancies				800,839.00	\$800,839
<b>Dryer</b>					
2 employees				\$129,540	\$129,540
<b>Summary</b>					
Dewat				\$999,852	\$999,852
Sewers				\$343,980	\$343,980
Plant				\$4,793,486	\$4,793,486
Dryer				\$135,073	\$135,073
Total				\$6,272,391	\$6,272,391
<b>On Call Pay</b>		For mechanics, electricians & site services workers.			
		To cover Saturdays, Sundays & holidays; contractual.			
Union contract equalized on call pay for electricians and site services workers so it is comparable to that of mechanics.					
				2023	\$94,116
<b>BUDGET</b>					
<b>Overtime</b>	Estimate at 6%			2023	2022 OT
Dewat				\$999,852	\$59,991
Sewers				\$343,980	\$20,639
Plant				\$4,793,486	\$287,609
Dryer				\$135,073	\$8,104
				\$6,272,391	\$376,343
<b>Summary 2022</b>					
	Plant	Dewat	Sewers	Dryer	Total
Reg	4,793,486	999,852	343,980	135,073	6,272,391
O.T.	287,609	59,991	\$20,639	8,104	376,343
On Call	94,116	0	0	0	94,116
Total	5,175,211	1,059,844	364,619	143,177	6,742,851
Budget	5,175,211	1,059,844	364,619	143,177	6,742,851
<b>Total for 2023</b>		<b>\$6,742,851</b>			

**ITEM #16- PRINTING & STATIONERY**

<b>2023 BUDGET</b>		<b>\$20,000</b>					
<b>2022 BUDGET</b>		<b>\$20,000</b>					
<b>2022 ANNUAL ESTIMATE</b>		\$19,295					
This item consists of printing of monthly minutes, binding of annual minutes (including preparation of index), stationery, operation/personnel/maintenance/lab forms, copying blueprints, etc. Requests for quotes for printing and binding minutes were sent out.							
Historical	2000	\$27,782					
	2001	\$14,708					
	2002	\$13,897					
	2003	\$19,272					
	2004	\$11,805					
	2005	\$14,712					
	2006	\$21,962					
	2007	\$15,753					
	2008	\$28,074					
	2009	\$13,213					
	2010	\$39,034					
	2011	\$18,935					
	2012	\$34,698					
	2013	\$20,005					
	2014	\$3,716					
	2015	\$6,199					
	2016	\$4,330					
	2017	\$2,145					
	2018	\$5,633					
	2019	\$2,306					
	2020	\$18,918					
	2021	\$19,682					
		Sewers	TP	DWF	SDF		
<b>BUDGET</b>		\$1,000	\$17,000	\$2,000	\$0	\$20,000	

## ITEM #17- MISC. EXPENSES

2023 BUDGET		\$550,000	This item includes: Office/clerical supplies telephone (Sewer Meters, Trt.Pl't, DWF, SDF) data processing/computer expenses postage Classified Ads freight Dues (WEF, AEA, NACWA), seminars Wastewater operators licenses Tuition re-embursement for wastewater collection & treatment related courses Maintenance personnel training Clerical personnel training Subscriptions, reference material Admin. Overhead expenses for sewers (Auditor Entry) Temp. Employees Elizabeth Taxes (Estimated)				
2022 BUDGET		\$550,000					
2022 ANNUAL ESTIMATE		\$483,993					

ITEM #18- GENERAL MAINTENANCE

<b>2023 BUDGET</b>		<b>\$2,538,000</b>			
<b>2022 BUDGET</b>		\$2,228,000			
<b>2022 ANNUAL ESTIMATE</b>		\$2,540,063			
This item includes items necessary for the general maintenance of the entire facility (Treatment Plant, DWF, SDF) such as repair parts, hardware, supplies (janitorial, lab, electrical, boiler service, powerhouse service, etc. The expense history reflects as an indication, the age of the facilities.					
<b>HISTORICAL</b>					
	Expended	Budgeted		Expended	Budgeted
2000	\$969,295	\$928,000	2015	\$2,146,985	\$1,718,000
2001	\$1,148,269	\$930,000	2016	\$2,725,626	\$1,918,000
2002	\$957,918	\$1,097,000	2017	\$2,318,000	\$2,753,315
2003	\$1,004,829	\$1,050,500	2018	\$3,248,619	\$2,759,053
2004	\$896,915	\$1,000,000	2019	\$3,017,732	\$2,440,000
2005	\$1,037,000	\$1,170,068	2020	\$2,850,420	\$2,440,000
2006	\$1,136,000	\$1,071,326	2021	\$4,269,969	\$2,228,000
2007	\$1,264,014	\$1,125,100			
2008	\$1,087,100	\$1,282,241			
2009	\$1,192,044	\$1,232,600			
2010	\$1,390,600	\$1,511,850			
2011	\$1,495,645	\$1,320,000			
2012	\$1,872,156	\$1,446,500			
2013	\$1,421,500	\$2,708,336			
2014	\$1,466,500	\$2,333,100			
<b>Projects anticipated for 2021</b>					
Replace Boiler burners					\$52,000
Gravity Belt Press Parts					\$25,000
Shafts & Sprockets					\$12,000
Centrifugal Pump Parts					\$15,000
Torque Limiters					\$14,000
TB Power Rails					\$20,000
Replace Grit Troughs					\$42,000
Pump Rebuilds					\$50,000
Conveyor repairs					\$65,000
Skimmer Pumps parts					\$8,000
polymer system parts					\$8,000
Cogen Overhauls					\$850,000
Pug Mill parts					\$40,000
Collector Flights, chains					\$35,000
Positive Displacement Pump Parts					\$60,000
IDI Canon Lance Controls					\$15,000
Prog. Cav. Pump repairs					\$25,000
Bisulfite System repairs					\$25,000
Compressors Rebuild					\$60,000
Replace Traveling Bridge Skimmer Arms					\$60,000
Cogen Engine Heads					\$92,000
Engine PM Parts					\$90,000
				TOTAL	\$1,663,000
		TP	DWF	SDF	
Routine Maint & Repair		\$610,000	\$260,000	\$5,000	\$875,000
Major Projects		\$1,393,000	\$270,000	\$0	\$1,663,000
		<b>\$2,003,000</b>	<b>\$530,000</b>	<b>\$5,000</b>	<b>\$2,538,000</b>

ITEM #19-RESERVE CONTINGENCY

<b>2023 BUDGET</b>		<b>\$250,000</b>			
<b>2022 BUDGET</b>		<b>\$200,000</b>			
<b>2022 ANNUAL ESTIMATE</b>		<b>\$0</b>			
1. Potentail retirees for 2023					
Retirees are eligible for one-third of their unused sick time					
plus all of their unused vacation time.					
There is a cap on sick time.					
		Sick	Vacation	Total	
8 potential retirees		120,000	78,000	198,000	
age & yrs of service					
			Budget	\$198,000	
2. Contractual incentives for union employees					
Annual cash incentives for possession of various licenses, certifications					
such as S licenses, C licenses, etc.					
Estimate for year				70,000	
<b>Summary</b>					
Plant				268,000	
Dewat				0	
Sewer				0	
Dryer				0	
Total				\$268,000	
<b>BUDGET</b>				<b>\$250,000</b>	

## ITEM #20- BUILDING MAINTENANCE

<b>2023 BUDGET</b>		<b>\$50,000</b>				
<b>2022 BUDGET</b>		\$50,000				
<b>2022 ANNUAL ESTIMATE</b>		\$36,949				
This item cover those items associated with repairs to buildings and grounds facilities such as windows, locks, doors, roof inspections & repairs, elevators and plant roads. Also anticipated are repairs to concrete walkways and painting of gallery piping.						
HISTORY						
	1996	\$58,872		2017	\$70,000	
	1997	\$80,000		2018	\$120,000	
	1998	\$121,036		2019	\$43,062	
	1999	\$39,141		2020	\$32,914	
	2000	\$28,732		2021	\$459,116	
	2001	\$29,204				
	2002	\$61,735				
	2003	\$36,489				
	2004	\$80,651				
	2005	\$101,968				
	2006	\$133,589				
	2007	\$98,618				
	2008	\$78,711				
	2009	\$46,804				
	2010	\$93,979				
	2011	\$28,374				
	2012	\$39,902				
	2013	\$120,054				
	2014	\$80,016				
	2015	\$81,888				
	2016	\$87,208				
		Sewers	TP	DWF	SDF	
BUDGET		\$0	\$35,000	\$15,000	\$0	\$50,000

## ITEM #21-PENSION

<b>2023 BUDGET</b>	<b>\$1,527,219</b>				
<b>2022 BUDGET</b>	<b>\$1,298,228</b>				
<b>2022 ANNUAL ESTIMATE</b>	<b>\$1,431,880</b>				
All employees are members of the State of New Jersey Public Employees Retirement System (PERS).					
Since 1998, the State of New Jersey PERS has not assessed employers for the employer's portion of pension costs. Assessments were begun again in 2005.					
Assessment History					
2005	\$41,862				
2006	\$124,767				
2007	\$214,071				
2008	\$420,830				
2009	\$567,823				
2010	\$677,635				
2011	\$863,809				
2012	\$905,000				
2013	\$868,801				
2014	\$932,981				
2015	\$1,016,335				
2016	\$1,172,934				
2017	\$1,174,116				
2018	\$1,254,881				
2019	\$1,350,830				
2020 est	\$1,431,880				
2021 est	\$1,298,228				
2022 est	\$1,403,370				
2023 Est	\$1,527,219				
	Plant	Dewat	Sewer	Dryer	Total
Total					
Salaries					0
	76%	20%	2%	2%	100%
<b>2023 BUDGET</b>	<b>1,160,686</b>	<b>305,444</b>	<b>30,544</b>	<b>30,544</b>	<b>1,527,219</b>

ITEM #22-SOCIAL SECURITY

<b>2023 BUDGET</b>		<b>\$990,098</b>					
<b>2022 BUDGET</b>		<b>\$957,001</b>					
<b>2022 ANNUAL ESTIMATE</b>		<b>\$829,184</b>					
The rate of 7.65% appears to be unchanged for 2023							
Budget #		Sewers	Plant	Dewat	Dryer	Total	
13	Salaries	234,964	3,133,977	2,070,663		5,439,604	
15	Labor	364,619	5,175,211	1,059,844	143,177	6,742,851	
19	Contingencies	0	250,000	0	0	250,000	
27	Board	0	92,134	0	0	92,134	
Total		599,583	8,651,321	3,130,507	143,177	12,524,588	
	7.65%	45,868	693,793	239,484	10,953	990,098	
	Budget						
<b>2023 BUDGET</b>						<b>\$990,098</b>	

## ITEM #23 HOSPITAL PLAN

<b>2023 BUDGET</b>	<b>\$1,500,000</b>					
<b>2022 BUDGET</b>	<b>\$3,000,000</b>					
<b>2022 ANNUAL ESTIMATE</b>	<b>\$751,202</b>					
Hospitalization and major medical group health insurance for all employees Also covered under this category is the employee assistance program.						
<b>Increase of Approx 1.45% for active employees</b>						
		<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<u>Retiree health insurance premiums</u>						
	Non Medicare	\$474,621	\$512,591	\$512,591	\$520,023	\$527,564
	Medicare	\$386,869	\$417,818	\$417,818	\$423,877	\$430,023
		\$861,490	\$930,409	\$930,409	\$943,900	\$957,587
<u>Hospitalization/Major medical</u>		<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Salaried employees		\$715,513	\$772,754	\$772,754	\$783,959	\$795,326
30						
Pretreatment employees		\$199,593	\$215,560	\$215,560	\$218,686	\$221,857
7						
Plant employees		\$1,531,512	\$1,654,033	\$1,654,033	\$1,678,017	\$1,702,348
87						
Dryer employees		\$67,339	\$72,726	\$72,726	\$73,781	\$74,851
2						
Dewatering employees		\$306,959	\$331,515	\$331,515	\$336,322	\$341,199
11						
		\$2,820,916	\$3,046,589	\$3,046,589	\$3,090,765	\$3,135,581
137						
		<b>\$2,820,916</b>	<b>\$3,046,589</b>	<b>\$3,046,589</b>	<b>\$3,090,765</b>	<b>\$3,135,581</b>
<u>Employee Assistance Plan</u>	2 year contract thru 2021					
St. Barnabas Behavioral Health E.A.P.						
<b>BUDGET</b>						
		Annual Cost				
	2020	3,400				
	2021	3,400				
	E.A.P. budget	3,400				
<b>Summary of Group Health and Employee Assistance Plans</b>						
	Sewers	Plant	Dewat	Dryer	Total	
					*3090765	
Hosp. Plan		412,115	104,222	36,363	552,699	
Employee Asst. Plan		3,400			3,400	
Retiree Health		943,900			943,900	
Total		1,359,415	104,222	36,363	1,500,000	1,500,000
<b>BUDGET</b>	***Est Employee Contrib		1,038,065		<b>\$1,500,000</b>	

[illegible]

ITEM #25- SCREENINGS DISPOSAL

2023 BUDGET		\$280,000					
2022 BUDGET		\$262,000					
2022 ANNUAL ESTIMATE		\$242,442					
Grit and screenings are presently being disposed of under contract with Spectraserv. A 3 year contract which awarded September 2020 has a unit price of \$140.70/ton (yr1); \$143/ton (yr2); \$146/ton (yr3).							
			Grit & Screenings			Scum	
HISTORICAL	BUDGET	EXPENDED	tons	\$77.78		tons	
	1996	\$160,000	\$142,429	1831			
	1997	\$152,000	\$60,436	983	\$61.47		
	1998	\$130,000	\$128,558	2091	\$61.47		
	1999	\$130,000	\$147,654	2010	\$61.47	*660	\$50.60
	2000	\$130,000	\$155,908	2078	\$61.47	805	\$50.60
	2001	\$170,000	\$82,874	1348	\$61.47		
	2002	\$125,000	\$100,346	1498	\$67.00		
	2003	\$120,000	\$85,321	1202	\$71.00		
	2004	\$120,000	\$126,147	1777	\$71.00		
	2005	\$140,000	\$109,648	1544	\$71.00		
	2006	\$140,000	\$105,767	1490	\$71.00		
	2007	\$120,000	\$111,521	1520	\$71.00		
	2008	\$130,000	\$126,965	1428	\$84.00		
	2009	\$130,000	\$188,717	2300	\$88.50		
	2010	\$203,550	\$180,619	2041	\$88.50		
	2011	\$209,000	\$168,560	1905	\$88.50		
	2012	\$216,000	\$154,469	1643	\$94.02		
	2013	\$216,000	\$131,675	1401	\$94.00		
	2014	\$160,000	\$165,000	1755	\$94.00		
	2015	\$160,000	\$183,517	1598	\$114.84		
	2016	\$160,000	\$172,379	1501	\$114.84		
	2017	\$160,000	\$203,939	1776	\$114.84		
	2018	\$180,000	\$226,736	1812	\$114.84		
	2019	\$232,000	\$226,713	1974	\$114.84		
	2020	\$232,000	\$201,027	1733	\$116.00		
	2021	\$262,000	\$228,373	1623	\$140.70		
	Est 2022	\$263,080	\$333,099	2329	\$143.00		
		\$279,577		1915		Year 1 2021	\$140.70
						Year 2 2022	\$143.00
BUDGET 2023		\$280,000				Year 3 2023	\$146.00

## ITEM #26-UNEMPLOYMENT &amp; DISAB

[illegible]

## ITEM #27-EXECUTIVE COMMITTEE

[illegible]

ITEM #28- COUNSEL FEES

2023 BUDGET	\$300,000					
2022 BUDGET	\$400,000					
2022 ANNUAL ESTIMATE	\$300,000					
Counsel fees included in this item: General Counsel and Labor & Conflicts . This item includes expenses for General, Litigation , Procurement Documents, Air Permits and Labor, NJPDES Permit, Admin. Law Appeal .						
			BUDGET		EXPENDED	
		1996	\$240,000		\$422,805	
		1997	\$350,000		\$1,057,460	
		1998	\$765,000		\$907,927	
		1999	\$595,000		\$731,348	
		2000	\$420,000		\$439,667	
		2001	\$370,000		\$297,952	
		2002	\$325,000		\$377,828	
		2003	\$325,000		\$329,955	
		2004	\$325,000		\$386,000	
		2005	\$355,000		\$193,584	
		2006	\$300,000		\$230,792	
		2007	\$300,000		\$127,937	
		2008	\$300,000		\$202,793	
		2009	\$300,000		\$110,497	
		2010	\$300,000		\$188,819	
		2011	\$200,000		\$213,374	
		2012	\$300,000		\$2,999,941	**Occidental
		2013	\$2,700,000		\$1,205,575	**Occidental
		2014	\$2,200,000		\$270,677	
		2015	\$300,000		\$205,482	
		2016	\$300,000		\$344,945	
		2017	\$300,000		\$261,008	
		2018	\$300,000		\$224,174	
		2019	\$300,000		\$208,000	
		2020	\$300,000		\$172,512	
		2021	\$400,000		\$116,622	
		EST 2022	\$400,000		\$235,850	
		Sewers		\$10,000		
		Treatment Plant		\$260,000		
		DWF		\$20,000		
BUDGET		SDF		\$10,000		
		Total for Budget		\$300,000		

## ITEM #29-OFFICERS

[illegible]

ITEM # 30 ADMINISTRATIVE GROUP BENEFIT PLAN

<b>2023 BUDGET</b>	<b>\$498,066</b>					
<b>2022 BUDGET</b>	<b>\$345,506</b>					
<b>2022 ANNUAL ESTIMATE</b>	<b>\$339,463</b>					
Covers non-union staff, including management, clerical & supervisory for:				48 Employees		
1 Dental	Blue Cross/Blue Shield					
2 Basic life insurance and AD&D	Hartford					
3 Vision	Principal Insurance					
4 Long Term Disability	Reliance					
5 Prescription Plan	Optum (State of NJ Plan)					
<b>1 Blue Cross Direct Dental Plan</b>						
	Monthly	Term	Total	2022	2023	
	\$8,000	9 mos.	\$72,000	\$72,000	\$72,000	
	\$8,000	3 mos.	\$24,000	\$24,000	\$24,000	
		<b>Total</b>	<b>\$96,000</b>	<b>\$96,000</b>	<b>\$96,000</b>	
	2%	1920	<b>\$97,920</b>	\$157,920	\$157,920	
<b>2 Life/AD&amp;D-AIG</b>	0%	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2022</b>	<b>2023</b>
		\$2,575	\$2,575	\$2,575	\$2,575	\$2,575
<b>3 Vision-Principal</b>	no change				20000	\$20,000
<b>4 LTD-Reliance</b>	0% increase	\$14,027		\$14,027	15000	\$15,000
<b>5 State Prescription Plan-Unknown if increase-anticipate 18</b>		\$186,300	\$14,904	\$201,204	\$256,414	\$302,571.24
<u>Summary of all plans for 2023</u>		<b>3</b>	<b>149</b>	<b>6</b>	<b>158</b>	
		<b>0.04166667</b>	<b>0.875</b>	<b>0.08333333</b>	<b>100%</b>	
		Sewers	Plant	Dewat	Total	
BC/BS Dental		\$6,580	\$138,180	\$13,160	\$157,920	
Life/AD&D		\$107	\$2,253	\$215	\$2,575	
Vision		\$833	\$17,500	\$1,667	\$20,000	
LTD		\$625	\$13,125	\$1,250	\$15,000	
BUDGET RX		\$12,607	\$264,750	\$25,214	\$302,571	
	<b>Sub T</b>	<b>\$20,753</b>	<b>\$435,808</b>	<b>\$41,506</b>	<b>\$498,066</b>	
****Union Dental \$4330 per month			\$51,960			
***Union Vision \$795 per month			\$9,541			
Total		20,753	435,808	41,506	498,066	
<b>BUDGET</b>					<b>\$498,066</b>	

ITEM #31-UNION WELFARE BENEFIT FUND

2023 BUDGET	\$0				
2022 BUDGET	\$0				
2022 ANNUAL ESTIMATE	\$0			NO LONGER PAYING UNION	
				Employees now included in Group Plan	
				program	
Union contract provides for dental, vision and prescription benefits					
Joint Meeting pays the cost of the premiums.					
Distribution					
	Sewers	Plant	Dewat	Dryer	Total
# of employees	1	79	14	0	94
				0	
2020 Budget				\$0	0
TOTAL BUDGET					\$0

ITEM #32- REPLACEMENT FUND

[illegible]

**ITEM #33-PERMIT FEES**

<b>2023 BUDGET</b>	<b>\$705,000</b>					
<b>2022 BUDGET</b>	<b>\$805,000</b>					
<b>2022 ANNUAL ESTIMATE</b>	<b>\$705,000</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>This item is for NJPDES permits including the wastewater treatment facility and drying facility permits issued by the NJDEP as well as other operating permits issued by NJDEP, USEPA and USNRC. The Treatment Plant NJPDES fee is normally based on wastewater characteristics (flow, BOD, TSS) as measured prior to discharge to the Arthur Kill. The permit fee system supports the NJDEP Budget. As of the 2000 Budget this item incorporates the Miscellaneous Permit Fees (previously Item #34).</p> </div>						
	Historical NJPDES Permit Fee					
	1996	\$490,300		2010		\$500,000
	1997	\$228,173		2011		\$401,000
	1998	\$230,760		2012		\$341,877
	1999	\$229,517		2013		\$464,557
	2000	\$270,966		2014		\$506,692
	2001	\$237,595		2015		\$479,878
	2002	\$250,085		2016		\$565,109
	2003	\$316,646		2017		\$568,700
	2004	\$248,074		2018		\$505,788
	2005	\$211,648		2019		\$733,127
	2006	\$284,630		2020		\$472,540
	2007	\$305,997		2021		\$646,869
	2008	\$354,503		Est 2022		\$558,510
	2009	\$410,936				
	This item includes permits, fees, etc. to be paid to Regulatory Agencies for the following:					
	NJDEP-NJPDES PERMIT: TREATMENT PLANT				\$550,000	
	Plant Storm Sewer Permit				\$1,500	
	Underground Storage Tank (TP & DWF)				\$3,000	
	Laboratory Certification Fees (TP)				\$2,500	
	NJDEP Physical Connection Permit (TP & DWF)				\$1,000	
	Air Permit Applications-Modifications				\$15,000	
	Nuclear Level Sensors(DWF & SDF)				\$2,500	
	Hazardous Waste Disposal permit fees				\$3,000	
	NJPDES Combined Sewer				\$18,200	
	Air Emissions Fee				\$77,000	
	Miscellaneous (TP & DWF) TCPA, TWA, DPCC				\$25,000	
				Total	\$698,700	
						say
Budget			Sewers		\$19,700	\$10,000
			Treatment Plant		\$676,500	\$675,000
			Sludge Dewatering		\$19,500	\$20,000
			Sludge Drying		\$0	\$0
			TOTAL		\$715,700	\$705,000
			Budget		\$705,000	

## ITEM #34- MISC PERMITS-FEES

[illegible]

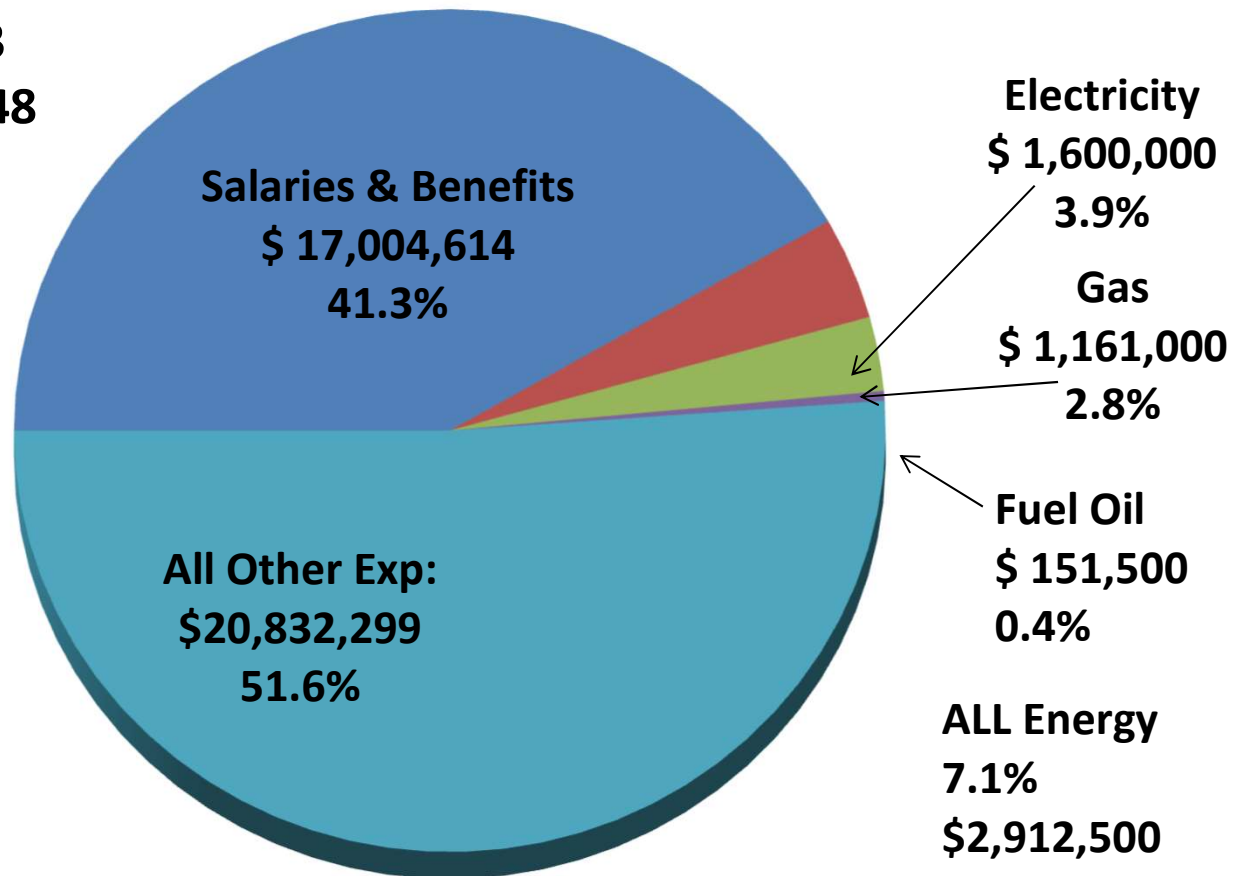
## ITEM #35- NJED AUTHORITY LOAN

<b>2023 BUDGET</b>		<b>\$0</b>				
<b>2022 BUDGET</b>		<b>\$0</b>				
<b>2022 ANNUAL ESTIMATE</b>		<b>\$0</b>				
This item covers the amount of money which must be repaid to the New Jersey Economic Development Authority on an annual basis to repay the \$4.5 million interest free loan to help fund the Drying Facility. \$250,000 per year for 18 years for a total of \$4.5 million. The first payment was made in July 1996. The loan was specifically to assist sewage agencies in mitigating costs caused by the cessation of ocean disposal of sludge. Payments are due November of each year.						
	PAYMT #	DATE	AMOUNT	TOTAL PAYMENT TO DATE	LOAN BALANCE	
	1	Jul-96	\$250,000	\$250,000	\$4,250,000	
	2	Nov-97	\$250,000	\$500,000	\$4,000,000	
	3	Nov-98	\$250,000	\$750,000	\$3,750,000	
	4	Nov-99	\$250,000	\$1,000,000	\$3,500,000	
	5	Nov-00	\$250,000	\$1,250,000	\$3,250,000	
	6	Nov-01	\$250,000	\$1,500,000	\$3,000,000	
	7	Nov-02	\$250,000	\$1,750,000	\$2,750,000	
	8	Nov-03	\$250,000	\$2,000,000	\$2,500,000	
	9	Nov-04	\$250,000	\$2,250,000	\$2,250,000	
	10	Nov-05	\$250,000	\$2,500,000	\$2,000,000	
	11	Nov-06	\$250,000	\$2,750,000	\$1,750,000	
	12	Nov-07	\$250,000	\$3,000,000	\$1,500,000	
	13	Nov-08	\$250,000	\$3,250,000	\$1,250,000	
	14	Nov-09	\$250,000	\$3,500,000	\$1,000,000	
	15	Nov-10	\$250,000	\$3,750,000	\$750,000	
	16	Nov-11	\$250,000	\$4,000,000	\$500,000	
	17	Nov-12	\$250,000	\$4,250,000	\$250,000	
	18	Nov-13	\$250,000	\$4,500,000	\$0	
<b>SDF</b>		<b>\$0</b>				

JOINT MEETING OF ESSEX UNION COUNTIES[Tab]

		COLLECTION SYSTEM	TREATMENT PLANT	SLUDGE DEWATERING FACILITY	SLUDGE DRYING FACILITY	TOTAL ALL FACILITIES
		2023	2023	2023	2023	2023 BUDGET
1	VEHICLES	\$12,250	\$53,500	\$4,250		\$70,000
2	EQUIP RENTAL	\$240,000	\$120,000	\$40,000		\$400,000
3	INSURANCE	31,599	\$ 789,979	157,996	73,731	\$1,053,306
4	WATER		\$130,000	\$120,000	\$3,000	\$253,000
5	ELECTRIC		\$1,200,000	\$400,000	\$0	\$1,600,000
6	GAS		\$1,026,400	\$135,800	\$0	\$1,162,200
7	FUEL OIL		\$115,250	\$114,750		\$230,000
8	SEWER REPAIR	\$30,000				\$30,000
9	METER REPAIRS	\$330,000				\$330,000
10	EQUIP		\$265,000	\$72,000		\$337,000
11	CHEMICALS	\$9,000	\$5,985,443	\$1,208,400	\$6,800	\$7,209,643
12	SLUDGE DISP			\$3,468,528		\$3,468,528
13	SALARIES & WAGES	\$391,747	\$3,133,977	\$2,070,663		\$5,596,387
14	TECHNICAL PROF. SERV.	\$25,000	\$1,061,000	\$50,000	\$0	\$1,136,000
15	LABOR	\$364,619	\$5,175,211	\$1,059,844	\$143,177	\$6,742,852
16	PRINTING	\$1,000	\$17,000	\$2,000		\$20,000
17	MISC EXPENSES	\$60,000	\$390,000	\$100,000	\$0	\$550,000
18	GEN PLANT MAINT		\$2,003,000	\$530,000	\$5,000	\$2,538,000
19	RESERVE CONTINGENCY		\$250,000			\$250,000
20	BUILDING MAINT		\$35,000	\$15,000		\$50,000
21	PENSION	\$30,544	\$1,160,686	\$305,444	\$30,544	\$1,527,219
22	SOCIAL SECURITY	\$45,868	\$693,793	\$239,484	\$10,953	\$990,098
23	HOSPITAL PLAN	\$0	\$1,359,415	\$104,222	\$36,363	\$1,500,000
24	UNIFORMS	\$3,200	\$129,600	\$27,200		\$160,000
25	SCREENINGS		\$280,000			\$280,000
26	UNEMPLOYMENT	\$600	\$42,800	\$6,000	\$600	\$50,000
27	EXECUTIVE COMMITTEE		\$95,451			\$95,451
28	COUNSEL FEES	\$10,000	\$260,000	\$20,000	\$10,000	\$300,000
29	OFFICERS					\$0
30	ADMIN GROUP PLAN	\$20,753	\$435,808	\$41,506		\$498,066
31	UNION WELFARE FUND	\$0	\$0	\$0	\$0	\$0
32	CAPITAL FUND		\$2,000,000			\$2,000,000
33	NJPDES PERMIT FEE	\$10,000	\$675,000	\$20,000	\$0	\$705,000
34	MISC PERMITS-FEES					\$0
35	NJED AUTHORITY LOAN				\$0	\$0
UDGET						
	TOTAL	\$1,616,180	\$28,883,313	\$10,313,085	\$320,169	\$41,132,749

**Joint Meeting 2023**  
**Budget: \$41,132,748**



Budget SUMMARY

ITEM		2023		
1	VEHICLES	\$70,000		
2	EQUIP RENTAL	\$400,000		
3	INSURANCE	\$1,053,306		
4	WATER	\$253,000		
5	ELECTRIC	\$1,600,000		
6	GAS	\$1,162,200		
7	FUEL OIL	\$230,000		
8	SEWER REPAIR	\$30,000		
9	METER REPAIRS	\$330,000		
10	EQUIP	\$337,000		
11	CHEMICALS	\$7,209,643		
12	SLUDGE DISP	\$3,468,528		
13	SALARIES & WAGES	\$5,596,387		
14	TECHNICAL PROF. SERV.	\$1,136,000		
15	LABOR	\$6,742,851		
16	PRINTING	\$20,000		
17	MISC EXPENSES	\$550,000		
18	GEN PLANT MAINT	\$2,538,000		
19	RESERVE CONTINGENCY	\$250,000		
20	BUILDING MAINT	\$50,000		
21	PENSION	\$1,527,219		
22	SOCIAL SECURITY	\$990,098		
23	HOSPITAL PLAN	\$1,500,000		
24	UNIFORMS	\$160,000		
25	SCREENINGS	\$280,000		
26	UNEMPLOYMENT	\$50,000		
27	EXECUTIVE COMMITTEE	\$95,451		
28	COUNSEL FEES	\$300,000		
29	OFFICERS	\$0		
30	ADMIN GROUP PLAN	\$498,066		
31	UNION EMP BENEFIT PLAN	\$0		
32	REPLACEMENT FUND	\$2,000,000		
33	NJPDES PERMIT FEE	\$705,000		
34	MISC PERMITS-FEES	\$0		
35	NJED AUTHORITY LOAN	\$0		
		\$41,132,748.00		
	2023	\$41,132,748		
	2022	\$38,455,000	6.96%	
The Joint Meeting Budget becomes a component of each of the served municipality budgets.				