

**THE JOINT MEETING OF
ESSEX AND UNION COUNTIES
2020 BUDGET**

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

**BOARD CHAIRPERSON
HON. VICTOR DE LUCA**

**FINANCE & BUDGET COMMITTEE CHAIRPERSON
HON. JOSEPH M. FLORIO**

**COMMITTEE MEMBERS
HON. JACQUELYN E. JOHNSON
HON. STEPHEN BOWMAN
HON. JERRY GUARINO**

Adopted:

December 19, 2019

ITEM #1- VEHICLES

2020 BUDGET		\$65,000					
2019 BUDGET		\$119,000					
2019 ANNUAL ESTIMATE		\$78,489					
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 2 Maint Dept vans			\$24,000				
			\$24,000				
The estimated cost for typical gasoline, oils and repairs is :							
					\$45,000		
	Vehicles	gas & oils	Rep/etc.				
Sewers	\$0	\$9,000	\$2,250	\$11,250			
Treatmt Plt	\$20,000	\$18,000	\$9,000	\$47,000			
DWF	\$0	\$4,500	\$2,250	\$6,750			
BUDGET	\$20,000	\$31,500	\$13,500	\$65,000			

ITEM #2- EQUIPMENT RENTAL

2020 BUDGET		\$400,000				
2019 BUDGET		\$300,000	Historical	expenses		
2019 ANNUAL ESTIMATE		\$499,055	2001	\$259,898		
			2002	\$235,293		
			2003	\$232,326		
			2004	\$372,107		
			2005	\$216,818		
			2006	\$150,703		
			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		
			2016	\$437,029		
			2017	\$313,699		
			2018	\$554,099		
<p>Work completed by utilizing Equipment rental has been:</p> <ol style="list-style-type: none"> 1) Off loading of equipment delivered to site (cranes & forklifts) 2) Cleaning of scum pits, scum and grit lines, centrate system at DWF 3) Storm sewer manhole maintenance 4) Trunk sewer maintenance 5) rental of 30 cubic yard containers <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 2020 equipment rental was competitively bid.</p> <p>In addition, for 2020 bids were received for emergency excavation services. The excavation services were used in 2019 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 services for the lowest cumulative rates.</p>						
Equipment rental as bid	\$290,000	**				
additional excavating services	\$50,000					
Site services	\$100,000	**				
30 yd containers	\$20,000					
Debris removal Millburn Crossing	\$15,000					
TOTAL	\$25,000					
BUDGET	\$500,000		Sewers	TP	DWF	
	\$400,000		\$240,000	\$120,000	\$40,000	

ITEM # 3-INSURANCE

2020 BUDGET		\$ 892,404			
2019 BUDGET		\$ 860,130			
2019 ANNUAL ESTIMATE		\$835,374			
COST DISTRIBUTION 2019 - 2020					
	Sewers	Plant	Dewat	Drying	Total
Boiler		-	-	-	
Property		128,798	25,760	17,173	\$ 171,731
Gen Liability	892	44,605	8,921	5,055	\$ 59,473
Auto	244	12,182	2,436	1,381	\$ 16,243
LTD					\$ 0
Inland Marine	-		-		\$ 0
Equip					\$22,999
Flood	-	8,430	1,977	-	\$ 10,407
Wk comp	6,714	335,679	67,136	38,044	\$ 447,572
Pollution	-	13,707	13,707		\$ 27,413
Umbrella	786	39,303	7,861	4,454	\$ 52,404
Public Officials	258	12,903	2,581	1,462	\$ 17,204
Crime	191	1,144	286	286	\$ 1,906
Terrorism	800	4,800	1,200	1,200	\$ 8,000
Fees & Surcharges	218	10,918	2,184	1,237	\$ 14,557
Total	10,102	612,468	134,047	70,293	\$ 849,909
	2020 estimate				Total Est. 2020
Months	4		8		
Boiler		INCL		-	
Property*	57,244		114,487	171,731	\$ 180,318
Gen Liability*	19,824		39,649	59,473	\$ 62,447
Auto*	5,414.33		10,829	16,243	\$ 17,055
LTD		INCL	-	-	\$ -
Inland Marine*	-		-	-	\$ -
Equip	7,666		15,333	22,999	\$ 24,149
Flood*	3,469		6,938	10,407	\$ 10,927
Wk Comp	149,191		298,381	447,572	\$ 469,951
Pollution*	9,138		18,275	27,413	\$ 28,784
BUDGET	17,468		34,936	52,404	\$ 55,024
Public Officials*	5,735		11,469	17,204	\$ 18,064
Crime*	635		1,271	1,906	\$ 2,001
Terrorism	2,667		5,333	8,000	\$ 8,400
Fees & Surcharges	4,852		9,705	14,557	\$ 15,285
					892,404
	Sewers	Plant	Dewat	Drying	Total
	3.00%	75.00%	15.0%	7.00%	100.00%
	26,772	\$ 669,303	133,861	62,468	892,404
TOTAL	283,303		566,606	\$ 849,909	\$ 892,404

ITEM #4- WATER SERVICE

2020 BUDGET		\$160,000							
2019 BUDGET		\$139,500							
2019 ANNUAL ESTIMATE		\$148,612							
HISTORICAL SUMMARY				\$RATE/ CU FT	TP USAGE	DWF USAGE	SDF*	Effective Rate Change	
	COST	CU FT CONSUMED							
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
2020 BUDGET	TRT PLT	DWF	DRYER	TOTAL CU FT	RATE				
	1,000,000	900,000	0	1,900,000	\$0.0593				
	\$59,341	\$53,407	\$0	\$112,749					
		Water Facility Charge		SAY					
TP	\$59,341	\$25,000	\$84,341	\$84,000					
DWF	\$53,407	\$25,000	\$78,407	\$73,000					
SDF	\$0	\$3,500	\$3,500	\$3,000					
				\$160,000					
BUDGET	\$160,000								

ITEM #5- ELECTRIC SERVICE

2020 BUDGET		\$1,000,000									
2019 BUDGET		\$1,000,000									
2019 ANNUAL ESTIMATE		\$771,319									
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		
Est 2019	768,525	\$64,277	0.084	2,360,795	768,525	1,592,270	2,233,357	117,171	10,267		
BUDGET	768,000	\$68,000	\$0.09	2,155,142	768,000	1,387,142	2,002,188	124,675	28,279		
estimated savings from Cogen for 2019 MONTHLY				\$122,820	*	DIGESTER #2 OUT OF SERVICE					***** DIGESTER #3 OUT OF SERVICE
ANNUALLY				\$1,473,839	**	DIGESTER #2 RETURNED 5/95					<<< New Cogen Sept 15, 2009
					***	DIGESTER #1 OUT OF SERVICE 10/97					
					****	DIGESTER #1 RETURNED 1/5/99					
					*****	DIGESTER #4 CONVERSION					
					*1	DIGESTER #2 OUT OF SERVICE					
					*2	DIGESTER #1 OUT OF SERVICE					

			ITEM #5- ELECTRIC SERVICE						
Expected electrical kw demand for 2020									
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						
Est 2019	2,233,357	117,171	10,267						
Avg 17, 18, 19	2,184,606	180,860	13,188						
Avg 17, 18	2,160,231	201,110	7,174						
Avg 18, 19	2,168,113	158,969	16,430						
Expected 2020	2,170,984	180,313	15,179						
say	2,200,000	200,000	15,000						
Total Demand per Month>			2,415,000						
FY 2020	28,980,000	KWH							
Generator production		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	est 2019	1,592,270		
2002	633,553	2008	670,347	2014	1,432,084				
2003	619,752	2009	743,294	2015	1,555,109				
2004	649,227	2010	1,389,860	2016	1,470,029				
			for 2020	1,500,000					
PSE&G= total demand - (Cogen production minus production loss)									
	28,980,000	18,000,000	1,000,000	>>>>>>>>>	11,980,000				
11,980,000	say:	11,980,000	@	0.095	\$/KwH				
cost		\$1,138,100							
add area lighting & partial lab:		\$20,000							
Add PSE&G Dist Chgs:		\$0	(inc in supply rate	92.9%	5.8%	1.3%	100.0%		
Sales Taxes									
EST	\$1,158,100		Sewers	TP	DWF	SDF			
BUDGET	\$1,000,000		\$0	\$929,028	\$57,850	\$13,122	\$0	\$1,000,000	

ITEM #6-GAS SERVICE

2020 BUDGET		\$900,000	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.	
2019 BUDGET		\$595,700						
2019 ANNUAL ESTIMATE		\$699,066						
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	
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			
	NG cu ft	RATE	EXTENSION	Service Chg		SAY		
P&O/Treatment Pit./Lab	0		\$0	\$132	\$132	\$0		
Cogen	142,000,000	\$0.0059	\$830,700	\$27,300	\$858,000	\$800,000		
DWF	16,000,000	\$0.0059	\$93,600	\$17,000	\$110,600	\$100,000		
Dryer	0		\$0	\$0	\$0	\$0		
	158,000,000		\$924,300	\$44,432	\$968,732	\$900,000		

ITEM #7- FUEL OIL AND KEROSENE

2020 BUDGET	\$111,900					
2019 BUDGET	\$81,500					
2019 ANNUAL ESTIMATE	\$103,000					
				gallons	expended	\$/gal
			1996	318,322	\$249,928	\$0.79
			1997	292,776	\$221,731	\$0.76
			1998	228,866	\$112,438	\$0.49
			1999	220,967	\$131,773	\$0.60
			2000	227,343	\$273,917	\$1.20
			2001	175,054	\$139,657	\$0.80
			2002	194,846	\$142,307	\$0.73
			2003	192,219	\$184,043	\$0.96
			2004	210,570	\$256,462	\$1.22
			2005	182,890	\$284,898	\$1.56
			2006	132,809	\$227,525	\$1.71
			2007	135,020	\$253,873	\$1.88
			2008	139,954	\$403,500	\$2.88
			2009	202,796	\$331,166	\$1.63
			2010	188,673	\$302,475	\$1.60
			2011	138,675	\$303,926	\$2.19
			2012	19,874	\$81,584	\$4.11
			2013	9,339	\$36,361	\$3.89
			2014	103,876	\$344,058	\$3.31
			2015	39,632	\$77,942	\$1.97
			2016	30,430	\$37,617	\$1.24
			2017	11,540	\$13,826	\$1.20
			2018	19,775	\$54,627	\$2.76

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 : **\$0.0724 per gallon** per 1 year contract FY 2020

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 2020		@	\$2.76	PER GAL		
				Fuel oil	Kerosene	BUDGET
Treatment Plant	30,000		\$82,800	\$82,800	\$1,000	\$83,800
DWF	10,000		\$27,600	\$27,600	\$500	\$28,100
SDF	0		\$0	\$0	\$0	\$0
	40,000	gallons	\$110,400			\$111,900
	kerosene		\$1,500			
	TOTAL		\$111,900			
	BUDGET		\$111,900			

ITEM #9- METER REPAIRS

2020 BUDGET	\$330,000						
2019 BUDGET	\$317,000						
2019 ANNUAL ESTIMATE	\$250,000						
<p>This item involves the costs associated with the ADS sewer metering system. The costs involved for 2019 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 2020 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

2020 BUDGET	\$740,000					
2019 BUDGET	\$900,500					
2019 ANNUAL ESTIMATE	\$425,000					
Chlorine titrator			\$12,000			
Network and Standalone Printers						
Network Switches						
Dell Servers/Computers/Laptops/Monitors			\$30,000			
ISCO Samplers (6)			\$48,000			
Traveling Bridge Gearboxes			\$25,000			
Grit Collector Gearbox						
Nash Compressor Rebuild			\$30,000			
Sump Pumps			\$50,000			
Hypo Storage Tank			\$15,000			
Submersible Pump Replacements			\$50,000			
New Sludge Pump			\$40,000			
Lab Equipment			\$25,000			
Bar Screen Parts			\$50,000			
Level Sensors						
Traveling Bridge motors and transformers						
DS-416 Circuit Breakers			\$200,000			
Grinders						
Power Rail Parts						
Replace Boiler						
Replace Graphite Furnace (Lab)			\$125,000			
Ash Oven						
New Service Water Pump VFD						
Hypochlorite Pumps			\$20,000			
Access Control Systems Lab & P&O Buildings						
Air Operated Valves MSP						
Rebuild Water Champ			\$20,000			
		TOTAL	\$740,000			
BUDGET						
		Sewers	TP	DWF	SDF	
2020		\$0	\$490,000	\$250,000	\$0	\$740,000

ITEM #11- CHEMICALS

2020 BUDGET		\$4,098,738	This item is comprised of:					
2019 BUDGET		\$3,471,488		1) Chlorine (Trt Plt)		7) Potassium Permanganate (Trt Plt & DWF)		
2019 ANNUAL ESTIMATE		\$2,911,793		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 for 2020 use \$0.87/gal							
		Gal						
Gals Hypo	2005	689,423	\$503,279	0.73				
	2006	739,033	\$539,494	0.73				
	2007	797,488	\$693,815	0.87				
	2008	978,000	\$850,860	0.87				
	2009	810,000	\$838,350	1.035				
	2010	796,500	\$549,107	0.6894				
	2011	950,000	\$641,250	0.675				
	2012	1,076,811	\$624,973	0.755				
	2013	1,671,771	\$927,992	0.715				
	2014	1,727,000	\$1,117,208	\$0.65				
	2015	1,277,563	\$855,967	\$0.67				
	2016	1,250,000	\$837,500	\$0.67				
	2017	1,345,767	\$901,664	\$0.67				
	2018	1,573,000	\$1,006,720	\$0.64				
	est 2019	2,065,000	\$1,652,000	\$0.80				
BUDGET 2020:		2,100,000	\$1,827,000	\$0.87				
Polymer	<p>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</p> <p>Contract to supply liquid polymer for year 2020 use \$0.14/lb. For 2020: 150,000 #/mo X 12 mo X \$0.12/# = \$252,000</p> <p style="text-align: right;">SAY \$250,000</p> <p>Contract for Dry polymer for 2020: use @ \$ 1.77/# For 2020 : 37,500#/mo X 12 mo X \$ 1.77/# = \$796,500</p> <p style="text-align: right;">SAY \$796,000</p>							
POLYMER								
Thickener		\$250,000						
DWF		\$796,000						
BUDGET 2020		\$1,046,000		2019	\$750,000			
Struvite Treatment								
DWF 2020		\$40,000		2019	\$40,000			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		50,000	\$87,500			
DWF		\$0						
BUDGET 2020		\$50,000		0	\$0	2017	\$31,800	

ITEM #11- CHEMICALS

Lime	Required at DWF for pH adjustment and control and stabilization. LIME USE HAS BEEN SUSPENDED AS A RESULT OF AN ALTERNATE DISPOSAL METHOD				
BUDGET 2020	\$0	2019 Budget	\$0		
SODIUM BISULFITE	Required by the NJPDES permit for the removal of residual chlorine in the treatment plant effluent. EST \$1.13/gal x 750 gal/day x 365 = \$309,338				
BUDGET 2020	\$309,338	2019 Budget	\$309,000		
MISCELLANEOUS CHEMICALS					
WEED KILLER		SEWERS	Trt. Pit.	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)			\$138,000		
Iron Sponge Media Cogen			\$0		replaced by SAG Media
OTHER CHEMICALS		\$9,000	\$140,000		
MISC CHEM		\$9,000	\$3,000	\$1,000	\$400
BUDGET 2020	\$301,400	\$9,000	\$286,700	\$3,900	\$1,800
Boiler Water Treatment	\$10,000	2019 Budget	\$5,000		
BUDGET 2020	\$0	2019 Budget	\$0		
Carbon Dioxide System	\$0	2019 Budget	\$0		
BUDGET 2020					
Digester Treatment	\$480,000	2019 Budget	\$480,000		
Water Filter Chemicals	\$35,000	2019 Budget	\$35,000		
BUDGET 2020					
BUDGET 2020 Summary	SEWERS	TREATMENT PLANT	DEWATER	DRYING	TOTAL
SODIUM HYPOCHLORITE		\$1,827,000			\$1,827,000
POLYMER		\$250,000	\$796,000		\$1,046,000
STRUVITE TRTMNT		0	\$40,000		\$40,000
PERMANGANATE		\$50,000	\$0		\$50,000
LIME		0	\$0		\$0
SODIUM BISULFITE		\$309,338			\$309,338
MISC. CHEM.	\$9,000	\$286,700	\$3,900	\$1,800	\$301,400
BOILER TRT		5000		\$5,000	\$10,000
CO2 SYSTEM				\$0	\$0
Digester Treatment		\$480,000			\$480,000
Water Filter Chemical		\$35,000			\$35,000
TOTAL	\$9,000	\$3,243,038	\$839,900	\$6,800	\$4,098,738

ITEM #12- SLUDGE DISPOSAL

2020 BUDGET		\$3,700,000				
2019 BUDGET		\$3,912,300				
2019 ANNUAL ESTIMATE		\$2,764,743				
			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 6expended		\$2,561,123	2465	\$86.58		
2018 expended		\$2,778,116	2149	\$107.74		
2019 EST		\$2,259,609	1646			
		PER MONTH				
		\$326,025	2500	\$130.41		
2020	\$3,912,300					
DWF						
	DWF					
BUDGET	\$3,700,000					

ITEM #13-SALARIES & WAGES

2020 BUDGET		\$3,857,829		
2019 BUDGET		\$3,482,289		
2019 ANNUAL ESTIMATE		\$2,377,674		
Covers non-union employees who do not qualify for overtime				
		2019	2020	Budget
Plant/Dewatering				
33 employees		\$2,835,152	\$2,891,855	\$2,891,855
Pretreatment/ Sewers				
7 employees		\$660,080	\$696,704	\$696,704
Total 37		\$3,495,232	\$3,588,559	\$3,588,559
Sewer and pretreatment costs split Estimated annual cost is _____				
For 2020				
10% Supv	Sewers	\$231,161	\$241,077	Paluch/Gallego
	Pretreatment	\$415,976	\$696,700	
	Total	\$647,137	\$937,777	
Summary				
Plant/Dewat.		2,835,152	2,891,855	
Sewers		231,161	241,077	
Pretreat.		415,976	696,700	
			28,197	ADJ
Total 2020		\$3,482,289	\$3,857,829	
BUDGET				
Sewers		243,760	270,048	7%
Dewatering				
50% of Plant/Dewat.		1,288,447	1,427,397	37%
Plant		1,950,082	2,160,384	56%
100% of pretreat. Plus 50% of Plant/Dewat.				
	Total	\$3,482,289	\$3,857,829	
		2020 BUDGET	\$3,857,829	

ITEM #14- TECH-PROFESSIONAL SVC

2020 BUDGET		\$1,076,500				
2019 BUDGET		\$1,487,500				
2019 ANNUAL ESTIMATE		\$967,424				
Historically Budgeted	Expended		Budgeted			
1999	\$650,000	\$494,115	2018	\$1,353,300	\$1,430,081	
2000	\$630,000	\$312,473				
2001	\$569,500	\$294,459				
2003	\$501,500	\$521,489				
2004	\$501,500	\$522,929				
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				
<p>In 2020 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:</p>						
\$565,000	General Consulting Services (Specifications, Operations, Financial, NJPDES renewal)					
\$125,000	NJPDES Permit issues CSOs					
\$12,000	NJHDG - PCB, Toxics track downs, SWEM, metals					
\$22,000	Auditing Services					
\$25,000	Sewers					
\$15,000	Electrical Consulting					
\$3,000	Medical Exams					
\$34,000	Bioassays					
\$25,500	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)					
\$1,076,500	TOTAL					
			Sewers	TP	DWF	SDF
for 2020 Budget use	\$1,076,500	\$25,000	\$1,001,500	\$50,000	\$0	

ITEM #15-LABOR

2020 BUDGET		\$7,172,591			
2019 BUDGET		\$6,985,370			
2019 ANNUAL ESTIMATE		\$8,427,888			
				2019	2020
Dewatering					
14 employees				\$1,042,783	\$945,210
Pretreatment					
4 employees (Jantas/Heminghouse/Stafford/Gallegos)				\$318,825	\$325,181
Breakdown of sewer hours					
150 hours divided by 4160 hrs. (2 staff)				2019	2020
		Sewer 5%		\$15,941	\$16,259
		Pretreatment 95%		\$302,374	\$308,922
		Total		\$318,288	\$325,181
Main Plant					
83 employees				\$5,305,020	\$5,274,446
Dryer					
2 employees				\$119,766	\$122,461
Summary					
Dewat				\$1,042,783	\$945,210
Sewers				\$318,288	\$325,181
Plant				\$5,382,415	\$5,274,446
Dryer				\$136,943	\$127,691
Total				\$6,880,429	\$6,672,528
On Call Pay		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.					
				2020	\$92,000
BUDGET					
Overtime	Estimate at 6%			2020	2020 OT
Dewat				945,210	\$56,713
Sewers				325,181	\$19,511
Plant				5,274,446	\$316,467
Dryer				127,691	\$7,346
				6,672,528	\$400,036
Summary 2020					
	Plant	Dewat	Sewers	Dryer	Total
Reg	5,274,446	945,210	325,181	127,691	6,672,528
O.T.	316,467	56,713	\$19,511	7,346	400,036
On Call	92,000	8027	0	0	100,027
Total	5,682,913	1,009,949	344,692	135,037	7,172,591
Budget	5,682,913	1,009,949	344,692	135,037	7,172,591
Total for 2020		\$7,172,591			

ITEM #17- MISC. EXPENSES

2020 BUDGET		\$657,500						
2019 BUDGET		\$583,227						
2019 ANNUAL ESTIMATE		\$654,255						
				This item includes: Office/clerical supplies telephone (Sewer Meters, Trt. Plt, 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)				
HISTORY		Budget	Expended					
	2002	\$362,331	\$347,500					
	2003	\$416,266	\$345,500					
	2004	\$278,366	\$365,000					
	2005	\$330,545	\$391,000					
	2006	\$375,000	\$320,000					
	2007	\$354,826	\$375,000					
	2008	\$507,697	\$375,000					
	2009	\$316,343	\$375,000					
	2010	\$311,786	\$385,000					
	2011	\$373,674	\$385,000					
	2012	\$386,768	\$385,000					
	2013	\$441,691	\$385,000					
	2014	\$564,275	\$385,000					
	2015	\$548,518	\$583,227					
	2016	\$445,142	\$583,227					
	2017	\$583,227	\$479,818					
	2018	\$583,227	\$1,077,905				(Includes property purchase)	
	2019	\$583,227	\$666,409					
BUDGET	Includes anticipated auditor charge off of Sewer Admin Overhead expenses						99,000	
BUDGET			Sewers	TP	DWF	SDF		
			\$120,000	\$450,000	\$87,500	\$0	\$657,500	

ITEM #18- GENERAL MAINTENANCE

2020 BUDGET		\$2,440,000			
2019 BUDGET		\$2,440,000			
2019 ANNUAL ESTIMATE		\$2,324,579			
<p>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.</p>					
HISTORICAL					
	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	Est 2019	\$2,366,948	\$2,440,000
2005	\$1,037,000	\$1,170,068			
2006	\$1,136,000	\$1,071,326			
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			
Projects anticipated for 2020					
Replace Boiler					\$32,000
Gravity Belt Press Parts					\$65,000
Shafts & Sprockets					\$12,000
Centrifugal Pump Parts					\$5,000
Torque Limiters					\$14,000
TB Power Rails					\$20,000
Replace Grit Troughs					\$42,000
Pump Rebuilds					\$30,000
Conveyor repairs					\$60,000
Skimmer Pumps parts					\$8,000
polymer system parts					\$8,000
Cogen Overhauls					\$600,000
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					\$12,000
Compressors Rebuild					\$60,000
Replace Traveling Bridge Skimmer Arms					\$260,000
Cogen Engine Heads					\$92,000
Engine PM Parts					\$70,000
				TOTAL	\$1,565,000
		TP	DWF	SDF	
Routine Maint & Repair		\$610,000	\$260,000	\$5,000	\$875,000
Major Projects		\$1,075,000	\$490,000	\$0	\$1,565,000
		\$1,685,000	\$750,000	\$5,000	\$2,440,000

ITEM #19-RESERVE CONTINGENCY

2020 BUDGET		\$250,000		
2019 BUDGET		\$243,000		
2019 ANNUAL ESTIMATE		\$0		
1. Potentail retirees for 2020				
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 age & yrs of service		120,000	78,000	198,000
			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
Summary				
Plant				268,000
Dewat				0
Sewer				0
Dryer				0
Total				\$268,000
BUDGET				\$250,000

ITEM #21-PENSION

2020 BUDGET	\$1,409,984					
2019 BUDGET	\$1,319,098					
2019 ANNUAL ESTIMATE	\$1,541,857					
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 est	\$1,330,174					
2020 est	\$1,409,984					
		Plant	Dewat	Sewer	Dryer	Total
Total Salaries						0
		76%	20%	2%	2%	100%
2020 BUDGET	1,071,588	281,997	28,200	28,200	28,200	1,409,984

ITEM #22-SOCIAL SECURITY

2020 BUDGET		\$935,393				
2019 BUDGET		\$825,450				
2019 ANNUAL ESTIMATE		\$821,286				
The rate of 7.65% appears to be unchanged for 2020						
Budget #		Sewers	Plant	Dewat	Dryer	Total
13	Salaries	241,077	2,160,384	1,427,397		3,828,858
15	Labor	344,692	5,682,913	1,009,949	135,037	7,172,591
19	Contingencies	0	250,000	0	0	250,000
27	Board	0	92,134	0	0	92,134
Total		585,769	8,185,431	2,437,346	135,037	11,343,583
	7.65%	44,811	693,794	186,457	10,330	935,393
	Budget					
2020 BUDGET						\$935,393

ITEM #23 HOSPITAL PLAN

2020 BUDGET	\$3,000,000					
2019 BUDGET	\$3,980,398					
2019 ANNUAL ESTIMATE	\$2,997,710					
Hospitalization and major medical group health insurance for all employees Also covered under this category is the employee assistance program.						
Increase of Approx 3% for active employees						
			2018	2019	2020	
<u>Retiree health insurance premiums</u>						
	Non Medicare		\$474,621	\$512,591	\$512,591	
	Medicare		\$386,869	\$417,818	\$417,818	
			\$861,490	\$930,409	\$930,409	
<u>Hospitalization/Major medical</u>						
			2018	2019	2020	
Salaried employees			\$715,513	\$772,754	\$772,754	
30						
Pretreatment employees			\$199,593	\$215,560	\$215,560	
7						
Plant employees			\$1,531,512	\$1,654,033	\$1,654,033	
88						
Dryer employees			\$67,339	\$72,726	\$72,726	
2						
Dewatering employees			\$306,959	\$331,515	\$331,515	
11						
			\$2,820,916	\$3,046,589	\$3,046,589	
138						
			\$2,820,916	\$3,046,589	\$3,046,589	
<u>Employee Assistance Plan</u> 2 year contract thru 2019						
St. Barnabas Behavioral Health E.A.P.						
BUDGET						
			Annual Cost			
	2019		3,400			
	2020		3,400			
	E.A.P. budget		3,400			
Summary of Group Health and Employee Assistance Plans						
		Sewers	Plant	Dewat	Dryer	Total
Hosp. Plan			1,661,949	331,515	72,726	2,066,191
Employee Asst.Plan			3,400			3,400
Retiree Health			930,409			930,409
Total			2,595,758	331,515	72,726	3,000,000
BUDGET						
						\$3,000,000

ITEM #24-UNIFORMS-SAFETY SHOES

2020 BUDGET		\$265,000				
2019 BUDGET		\$265,000				
2019 ANNUAL ESTIMATE		\$154,220				
				uniforms	safety shoes	
TOTAL				\$150,000	\$115,000	\$265,000
SUMMARY						
	SEWERS	TP	DWF	SDF		
SAY	\$5,300	\$214,650	\$45,050	\$0	\$265,000	
	total	\$265,000				
BUDGET	\$265,000					

ITEM #26-UNEMPLOYMENT & DISAB

2020 BUDGET	\$50,000					
2019 BUDGET	\$50,000					
2019 ANNUAL ESTIMATE	\$32,796					
Employer factor is 0.25% of 1st \$33,500 for 2020						
2020 limit is set by law at	\$33,500.00					
		Plant	Dewat	Sewers	Dryer	Total
# of employees	118	16	2	2	138	
	\$9,617	\$1,304	\$163	\$163	\$11,247	
Disability Budgeted	\$8,400	\$1,200	\$200	\$200	\$10,000	
Unemployment liability	\$34,400	\$4,800	\$400	\$400	\$40,000	
BUDGET	\$42,800	\$6,000	\$600	\$600	\$50,000	

ITEM #27-EXECUTIVE COMMITTEE

2020 BUDGET	\$98,013				
2019 BUDGET	\$93,977				
2019 ANNUAL ESTIMATE	\$93,977				
For 2012, board voted not to increase their rate.					
For 2013, board voted not to increase their rate.					
For 2014, board voted not to increase their rate.					
For 2015, board voted to increase their rate by 2%.					
For 2016, board voted to increase their rate by 2%.					
For 2017, board voted to increase their rate by 2%					
For 2018, board voted to increase their rate by 2%					
For 2019, board voted to increase their rate by 2%					
For 2020, board voted to increase their rate by 2.25%					
Member's annual amount is \$7,191					
Chairperson's annual amount is \$14,261.					
		2017	2018	2019	2,020
			2%		
Chairperson		\$13,707	\$13,982	\$14,261	14,582
Members (10)		\$68,426	\$69,795	\$71,191	72,793
Board Counsel Berkeley		\$10,000	\$10,200	\$10,404	10,638
Total		\$92,134	\$93,977	\$95,856	98,013
100 % charged to plant.					
BUDGET			\$98,013		

ITEM #28- COUNSEL FEES

2020 BUDGET	\$300,000					
2019 BUDGET	\$300,000					
2019 ANNUAL ESTIMATE	\$232,749					
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	
		EST 2019	\$300,000		\$250,000	
		Sewers		\$10,000		
		Treatment Plant		\$260,000		
		DWF		\$20,000		
BUDGET		SDF		\$10,000		
		Total for Budget		\$300,000		

ITEM # 30 ADMINISTRATIVE GROUP BENEFIT PLAN

2020 BUDGET		\$425,560			
2019 BUDGET		\$425,562			
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 LTD		Reliance			
5 Prescription Plan		Express Scripts (State of NJ Plan)			
1 Blue Cross Direct Dental Plan			Monthly	Term	Total
			\$4,247	9 mos.	\$38,223
			\$4,247	3 mos.	\$12,741
			Total		\$50,964
			2%	1019	\$51,983
2 Life/AD&D-AIG (New Vendor)	0%	2018	2019	2020	
		\$2,575	\$2,575	\$2,575	
3 Vision-Principal	no change	\$9,000			\$9,000
4 LTD-Reliance	0% increase	\$14,027			\$14,027
5 State Prescription Plan-Unknown if increase-anticipate 8%		\$186,300	14904		201,204
<u>Summary of all plans for 2019</u>			2	42	4
			48		
			Sewers	Plant	Dewat
			Total		
BC/BS Dental		\$4,719	\$91,759	\$8,389	\$104,867
Life/AD&D		\$115	\$2,253	\$206	\$2,575
Vision		\$1,142	\$22,218	\$2,031	\$25,392
LTD		\$631	\$12,274	\$1,122	\$14,027
BUDGET RX		\$9,774	\$190,050	\$17,376	\$217,200
		Sub T	\$16,381	\$318,553	\$29,125
					\$364,061
****Union Dental \$4330 per month				\$51,960	
***Union Vision \$795 per month				\$9,541	
Total		16,381	380,054	29,125	425,560
BUDGET					\$425,560

ITEM #31-UNION WELFARE BENEFIT FUND

2020 BUDGET	\$0				
2019 BUDGET	\$0			NO LONGER PAYING UNION	
2019 ANNUAL ESTIMATE	\$0			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

2020 BUDGET	\$1,600,000				
2019 BUDGET	\$1,600,000				
2019 ANNUAL ESTIMATE	\$1,600,000				
<p>The ten year capital improvement plan calls for annually funding this account. In January each year replacement funds will be placed in the Treatment Plant account to be utilized in the individual facilities as called for in the approved capital improvement plan.</p>					
<p>The CAPITAL Funds for the O&M Budget for 2019 are: based upon the presented Capital Improvement Plan</p>					
		Treatment Plant			
		TOTAL		\$1,600,000	

ITEM #33-PERMIT FEES

2020 BUDGET	\$815,700					
2019 BUDGET	\$736,700					
2019 ANNUAL ESTIMATE	\$770,366					
<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>						
Historical NJPDES Permit Fee						
	1996	\$490,300		2009		\$410,936
	1997	\$228,173		2010		\$500,000
	1998	\$230,760		2011		\$401,000
	1999	\$229,517		2012		\$341,877
	2000	\$270,966		2013		\$464,557
	2001	\$237,595		2014		\$506,692
	2002	\$250,085		2015		\$479,878
	2003	\$316,646		2016		\$565,109
	2004	\$248,074		2017		\$568,700
	2005	\$211,648		2018		\$505,788
	2006	\$284,630				
	2007	\$305,997				
	2008	\$354,503				
This item includes permits, fees, etc. to be paid to Regulatory Agencies for the following:						
NJDEP-NJPDES PERMIT: TREATMENT PLANT						
						\$650,000
	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		\$798,700
						say
Budget		Sewers			\$19,700	\$19,700
		Treatment Plant			\$776,500	\$776,500
		Sludge Dewatering			\$19,500	\$19,500
		Sludge Drying			\$0	\$0
		TOTAL			\$815,700	\$815,700
		Budget			\$815,700	

ITEM #35- NJED AUTHORITY LOAN

2020 BUDGET	\$0				
2019 BUDGET	\$0				
2019 ANNUAL ESTIMATE	\$0				
<p>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.</p>					
	PAYM'T #	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
SDF			\$0		

JOINT MEETING OF ESSEX UNION COUNTIES

FACILITY SUMMARY BREAKOUT

		COLLECTION SYSTEM	TREATMENT PLANT	SLUDGE DEWATERING FACILITY	SLUDGE DRYING FACILITY	TOTAL ALL FACILITIES
		2020 BUDGET	2020 BUDGET	2020 BUDGET	2020 BUDGET	2020 BUDGET
1	VEHICLES	\$11,250	\$47,000	\$6,750		\$65,000
2	EQUIP RENTAL	\$240,000	\$120,000	\$40,000		\$400,000
3	INSURANCE	26,772	\$ 669,303	133,861	62,468	\$892,404
4	WATER		\$84,000	\$73,000	\$3,000	\$160,000
5	ELECTRIC		\$929,028	\$57,850	\$13,122	\$1,000,000
6	GAS		\$800,000	\$100,000	\$0	\$900,000
7	FUEL OIL		\$83,800	\$28,100		\$111,900
8	SEWER REPAIR	\$60,000				\$60,000
9	METER REPAIRS	\$330,000				\$330,000
10	EQUIP		\$490,000	\$250,000		\$740,000
11	CHEMICALS	\$9,000	\$3,243,038	\$839,900	\$6,800	\$4,098,738
12	SLUDGE DISP			\$3,700,000		\$3,700,000
13	SALARIES & WAGES	\$270,048	\$2,160,384	\$1,427,397		\$3,857,829
14	TECHNICAL PROF. SERV.	\$25,000	\$1,001,500	\$50,000	\$0	\$1,076,500
15	LABOR	\$344,692	\$5,682,913	\$1,009,949	\$135,037	\$7,172,591
16	PRINTING	\$1,000	\$21,000	\$2,000		\$24,000
17	MISC EXPENSES	\$120,000	\$450,000	\$87,500	\$0	\$657,500
18	GEN PLANT MAINT		\$1,685,000	\$750,000	\$5,000	\$2,440,000
19	RESERVE CONTINGENCY		\$250,000			\$250,000
20	BUILDING MAINT		\$60,000	\$30,000		\$90,000
21	PENSION	\$28,200	\$1,071,588	\$281,997	\$28,200	\$1,409,984
22	SOCIAL SECURITY	\$44,811	\$693,794	\$186,457	\$10,330	\$935,393
23	HOSPITAL PLAN	\$0	\$2,595,758	\$331,515	\$72,726	\$3,000,000
24	UNIFORMS	\$5,300	\$214,650	\$45,050		\$265,000
25	SCREENINGS		\$232,000			\$232,000
26	UNEMPLOYMENT	\$600	\$42,800	\$6,000	\$600	\$50,000
27	EXECUTIVE COMMITTEE		\$98,013			\$98,013
28	COUNSEL FEES	\$10,000	\$260,000	\$20,000	\$10,000	\$300,000
29	OFFICERS					\$0
30	ADMIN GROUP PLAN	\$16,381	\$380,054	\$29,125		\$425,560
31	UNION WELFARE FUND	\$0	\$0	\$0	\$0	\$0
32	CAPITAL FUND		\$1,600,000			\$1,600,000
33	NJPDES PERMIT FEE	\$19,700	\$776,500	\$19,500	\$0	\$815,700
34	MISC PERMITS-FEES					\$0
35	NJED AUTHORITY LOAN				\$0	\$0
	BUDGET					
	TOTAL	\$1,562,754	\$25,742,124	\$9,505,951	\$347,283	\$37,158,112