

**SEWERAGE & WATER BOARD
OF NEW ORLEANS**



**ADOPTED 2017 CAPITAL BUDGET &
2017 – 2026 CAPITAL PROGRAM**

Sewerage & Water Board of New Orleans
2017 Adopted Capital Budget and 2017-2026 Capital Program
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SEWERAGE & WATER BOARD OF NEW ORLEANS
 TEN YEAR CAPITAL PROGRAM (2017 - 2026)
 SUMMARY BY DEPARTMENTS (X \$1000)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM
WATER DEPARTMENT											
Waterworks	\$94,429	\$59,553	\$82,422	\$38,818	\$38,935	\$26,505	\$27,545	\$111,120	\$129,770	\$119,895	\$728,992
Water Distribution	10,935	13,735	10,985	10,785	10,785	10,785	10,785	10,785	10,785	10,785	111,150
Prorata of Power Projects	41,530	15,570	9,072	3,780	2,380	5,180	280	280	280	280	78,632
Water Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Prorata of General Budget Items	28,869	19,767	10,479	8,160	8,629	8,791	9,315	7,507	7,353	7,330	116,200
TOTAL WATER DEPARTMENT	\$177,763	\$110,625	\$114,958	\$63,543	\$62,729	\$53,261	\$49,925	\$131,692	\$150,188	\$140,290	\$1,054,974
Water Department Anticipated Cash Flow	\$106,658	137,480	113,225	84,109	63,055	57,048	51,259	98,985	142,790	144,249	998,858
SEWERAGE DEPARTMENT											
Sewerage System	\$68,749	\$64,718	\$64,735	\$57,835	\$61,455	\$47,372	\$36,012	\$41,630	\$33,235	\$32,785	\$508,526
Sewerage Treatment	9,885	5,185	7,740	5,435	850	2,500	0	0	650	7,000	39,245
Prorata of Power Projects	14,900	11,308	1,099	3,196	990	540	40	40	40	40	32,193
Sewer Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Prorata of General Budget Items	16,410	9,092	9,296	7,131	7,600	7,365	8,252	6,740	6,257	6,233	84,376
TOTAL SEWERAGE DEPARTMENT	\$111,944	\$92,303	\$84,870	\$75,597	\$72,895	\$59,777	\$46,304	\$50,410	\$42,182	\$48,058	\$684,340
Sewerage Department Anticipated Cash Flow	\$67,166	100,159	87,843	79,306	73,976	65,024	51,693	48,768	45,473	45,708	665,117
DRAINAGE DEPARTMENT											
Canals	\$12,570	\$43,795	\$10,655	\$4,458	\$102,030	\$78,110	\$77,730	\$78,450	\$9,930	\$2,850	\$420,578
Pumping Stations	17,904	13,574	21,850	36,684	21,640	54,930	13,380	3,435	54,079	56,389	293,865
Prorata of Power Projects	30,574	15,066	11,918	14,101	12,430	18,630	14,980	1,480	1,480	1,480	122,139
Drainage Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Prorata of General Budget Items	16,481	8,357	7,784	6,506	6,965	6,126	7,435	6,749	6,469	6,249	79,121
TOTAL DRAINAGE DEPARTMENT	\$79,529	\$82,792	\$54,207	\$63,749	\$145,065	\$159,796	\$115,525	\$92,114	\$73,958	\$68,968	\$935,703
Drainage Department Anticipated Cash Flow	\$47,717	81,487	65,641	59,932	112,539	153,904	133,233	101,478	81,220	70,964	908,116
TOTAL CAPITAL PROJECTS REQUESTED	\$369,236	\$285,720	\$254,035	\$202,889	\$280,689	\$272,834	\$211,754	\$274,216	\$266,328	\$257,316	\$2,675,017
TOTAL ANTICIPATED CASH FLOWS	\$221,542	\$319,126	\$266,709	\$223,347	\$249,569	\$275,976	\$236,186	\$249,231	\$269,483	\$260,921	2,572,091

NOTE: All budget components have been rounded to thousands.
 05-Dec-16

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 2017 - 2026 CAPITAL PROGRAM ALLOCATED BETWEEN
 WATER, SEWER, AND DRAINAGE
 GENERAL BUDGET ITEMS (x \$1000)

C.P.# GENERAL BUDGET ITEMS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM
800 Property Acquisition	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1,000
803 Property Acquisition	900	900	900	650	650	100	100	100	100	100	4,650
807 Improvements to Central Yard & St. Joseph Street	10,336	1,923	175	0	33	330	1,057	1,649	990	990	17,483
808 Improvement to Customer Service Satellite	100	500	0	0	0	0	0	0	0	0	600
810 Major Equipment Purchases	14,309	3,230	3,239	3,230	3,239	3,279	3,334	3,329	3,329	3,330	43,848
811 Plant Stationary Equipment	300	100	100	100	100	100	100	100	100	80	1,180
812 Computer Systems Development	5,509	4,028	4,789	238	128	218	128	218	128	181	15,565
820 Overhead Charged to Capital	8,913	8,913	8,913	8,913	8,913	8,913	8,913	8,913	8,913	8,913	89,130
823 Purchase of Water Meters	2,000	2,000	4,000	4,000	4,000	4,000	2,000	2,000	2,000	2,000	28,000
824 Purchase of Meter Boxes and Meter Box Parts	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	21,680
825 Automatic Meter Readers	10,000	10,000	0	0	0	0	0	0	0	0	20,000
842 Revenue Department Equipment Purchases	0	0	0	60	0	0	0	0	0	0	60
843 Minor Equipment Purchases	5,027	1,453	1,778	938	2,463	2,174	6,200	1,518	1,351	1,049	23,951
862 Fire Hydrants and Related Parts	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
879 Green Infrastructure	500	500	500	500	500	0	0	0	0	0	2,500
881 Stormwater Sampling and Monitoring	200	0	0	0	0	0	0	0	0	0	200
TOTAL GENERAL BUDGET ITEMS	\$61,762	\$37,215	\$27,562	\$21,797	\$23,194	\$22,282	\$25,000	\$20,995	\$20,079	\$19,811	\$279,697

2017 - 2026 Water Capital Fund

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 2017 - 2026 CAPITAL PROGRAM
 WATER DEPARTMENT (x \$1000)

C.P.#	WATERWORKS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM
110	Normal Extensions & Replacements	\$18,884	\$16,320	\$5,745	\$4,920	\$5,470	\$5,945	\$12,545	\$5,120	\$5,770	\$14,895	\$95,614
112	Modifications to Oak St Raw Water Intake Station	1,200	5,500	5,000	0	0	0	0	0	80,000	100,000	191,700
122	Sycamore and Claiborne Filter Rehabilitation	6,625	5,050	0	0	0	0	0	0	30,000	0	41,675
135	Improvements to Chemical System	7,370	2,100	3,000	0	0	0	0	0	0	0	12,470
156	Advanced Water Treatment (Carr.)	8,815	700	20,120	120	120	560	5,000	0	0	0	35,435
157	Advanced Water Treatment (Algiers)	6,940	3,900	1,000	0	0	0	0	1,000	9,000	0	21,840
158	Water Treatment Carr.	200	200	0	0	0	0	0	100,000	0	0	100,400
159	Water Plant Security Improvements	2,495	1,980	3,320	0	0	0	0	0	0	0	7,795
160	SELA Water Relocation Costs	1,300	603	237	578	2,145	0	0	0	0	0	4,863
175	Water Hurricane Recovery Bonds	\$40,600	\$23,200	\$44,000	\$33,200	\$31,200	\$20,000	\$10,000	\$5,000	\$5,000	\$5,000	\$217,200
	TOTAL WATERWORKS	\$94,429	\$59,553	\$82,422	\$38,818	\$38,935	\$26,505	\$27,545	\$111,120	\$129,770	\$119,895	\$728,992
C.P.#	WATER DISTRIBUTION											
214	Normal Extensions & Replacements	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$2,535	\$25,350
216	Water System Replacement Program	5,100	5,100	5,200	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,400
221	Feeder Main Extensions-General	100	100	50	50	50	50	50	50	50	50	600
239	Mains D P W Contracts	3,200	6,000	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	34,800
	TOTAL WATER DISTRIBUTION	\$10,935	\$13,735	\$10,985	\$10,785	\$10,785	\$10,785	\$10,785	\$10,785	\$10,785	\$10,785	\$111,150
600	Water Share of Power Projects	41,530	15,570	9,072	3,780	2,380	5,180	280	280	280	280	78,632
701	Water Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
800	Water Share - General Budget Items	28,869	19,767	10,479	8,160	8,629	8,791	9,315	7,507	7,353	7,330	116,200
	TOTAL WATER DEPARTMENT	\$177,763	\$110,625	\$114,958	\$63,543	\$62,729	\$53,261	\$49,925	\$131,692	\$150,188	\$140,290	\$1,054,974

**Water Department
2017-2026
Capital Improvement Program Financing**

Line No.	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Funds Available at Beginning of Year	106,959,700	52,134,600	56,127,500	9,243,000	10,375,100	6,492,600	33,196,500	14,254,000	81,900	40,100
2	Revenue Bond Proceeds	0	94,000,000	0	18,000,000	0	42,000,000	0	10,000,000	0	0
3	Operation Fund Transfers	17,000,000	20,000,000	24,000,000	29,000,000	26,000,000	22,000,000	17,000,000	13,000,000	9,000,000	5,000,000
4	Participation By Others	33,944,000	40,265,000	41,917,000	40,648,000	33,035,000	25,515,000	15,035,000	8,035,000	6,035,000	6,035,000
5	Interest Income	888,900	611,300	423,500	159,700	137,500	225,700	281,500	103,800	13,200	9,600
6	Total Funds Available	158,792,600	207,010,900	122,468,000	97,050,700	69,547,600	96,233,300	65,513,000	45,392,800	15,130,100	11,084,700
7	Major Capital Additions	(106,658,000)	(137,480,000)	(113,225,000)	(84,109,000)	(63,055,000)	(57,048,000)	(51,259,000)	(98,985,000)	(142,790,000)	(144,249,000)
8	Deferred Capital Improvements	0	0	0	0	0	0	0	55,100,000	127,700,000	133,200,000
9	Bond Issuance Expense	0	(1,410,000)	0	(270,000)	0	(630,000)	0	(150,000)	0	0
10	Capitalized Interest Requirement	0	(5,170,000)	0	(990,000)	0	(2,310,000)	0	(550,000)	0	0
11	Revenue Bond Reserve Fund	0	(6,823,400)	0	(1,306,600)	0	(3,048,800)	0	(725,900)	0	0
12	Total Application of Funds	(106,658,000)	(150,883,400)	(113,225,000)	(86,675,600)	(63,055,000)	(63,036,800)	(51,259,000)	(45,310,900)	(15,090,000)	(11,049,000)
13	End of Year Balance	52,134,600	56,127,500	9,243,000	10,375,100	6,492,600	33,196,500	14,254,000	81,900	40,100	35,700

**Water Department
2017-2026
Projected Revenue Requirements**

Line No.	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Revenue from Charges	86,002,900	85,826,700	85,648,700	85,465,200	85,277,800	85,082,800	84,880,900	84,670,000	84,448,600	84,252,000
2	Total Additional Revenue (a)	8,463,400	17,741,900	27,973,900	39,180,200	39,093,100	39,002,500	38,908,700	38,810,700	38,707,700	38,616,300
3	Total Service Charge Revenue	94,466,300	103,568,600	113,622,600	124,645,400	124,370,900	124,085,300	123,789,600	123,480,700	123,156,300	122,868,300
4	Other Operating Revenue	4,959,000	4,988,600	5,038,600	5,060,800	5,071,200	5,081,200	5,094,200	5,101,600	5,106,500	5,116,700
5	Total Operating Revenue	99,425,300	108,557,200	118,661,200	129,706,200	129,442,100	129,166,500	128,883,800	128,582,300	128,262,800	127,985,000
6	Operation & Maintenance	(69,100,800)	(71,473,700)	(73,918,000)	(76,435,500)	(79,028,700)	(81,699,600)	(84,450,500)	(87,284,100)	(90,202,400)	(93,208,500)
7	Non-Cash Expense Accruals	(1,889,326)	(2,071,372)	(2,272,452)	(2,492,908)	(2,487,418)	(2,481,706)	(2,475,792)	(2,469,614)	(2,463,126)	(2,457,366)
8	Net Operating Revenue	28,435,174	35,012,128	42,470,748	50,777,792	47,925,982	44,985,194	41,957,508	38,828,586	35,597,274	32,319,134
Debt Service											
Senior Lien Revenue Bonds											
9	Existing	(12,640,600)	(13,333,600)	(13,394,600)	(13,473,600)	(13,471,300)	(13,470,400)	(13,470,100)	(13,470,800)	(13,470,500)	(13,468,800)
10	Projected	0	0	(2,843,100)	(6,823,400)	(7,367,800)	(8,130,000)	(9,400,300)	(11,178,800)	(11,481,300)	(11,904,700)
11	Total Senior Lien Revenue Bonds	(12,640,600)	(13,333,600)	(16,237,700)	(20,297,000)	(20,839,100)	(21,600,400)	(22,870,400)	(24,649,600)	(24,951,800)	(25,373,500)
Subordinate Revenue Bonds											
12	Gulf Opportunity Zone Act Loan	(639,900)	(639,900)	(639,900)	(639,900)	(639,900)	(639,900)	(639,900)	(639,900)	(639,900)	(320,000)
13	Total Debt Service	(13,280,500)	(13,973,500)	(16,877,600)	(20,936,900)	(21,479,000)	(22,240,300)	(23,510,300)	(25,289,500)	(25,591,700)	(25,693,500)
14	Other Non-Operating Revenue	400,500	400,500	400,500	400,500	400,500	400,500	400,500	400,500	400,500	400,500
15	Transfer to Construction	(17,000,000)	(20,000,000)	(24,000,000)	(29,000,000)	(26,000,000)	(22,000,000)	(17,000,000)	(13,000,000)	(9,000,000)	(5,000,000)
16	Due from/(to) Other Departments	(436,000)	(436,000)	0	0	0	0	0	0	0	0
17	Transfer to Operating Reserve Fund	0	0	0	0	0	(188,400)	(658,600)	(678,300)	(698,700)	(719,600)
18	Transfer from/(to) Rate Stabilization Fund	0	0	0	0	0	0	0	0	0	0
19	Net Annual Balance	(1,880,826)	1,003,128	1,993,648	1,241,392	847,482	956,994	1,189,108	261,286	707,374	1,306,534
20	Beginning of Year Cash Balance (b)	6,830,284	4,949,458	5,952,586	7,946,234	9,187,626	10,035,108	10,992,102	12,181,210	12,442,496	13,149,870
21	End of Year Balance	4,949,458	5,952,586	7,946,234	9,187,626	10,035,108	10,992,102	12,181,210	12,442,496	13,149,870	14,456,404
22	Beginning of Year Cash Balance (b)	37,307,129	35,426,303	36,429,431	38,423,079	39,664,471	40,511,953	41,657,347	43,505,055	44,444,641	45,850,715
23	Customer Deposits	0	0	0	0	0	0	0	0	0	0
24	Operating Reserve Fund	0	0	0	0	0	188,400	658,600	678,300	698,700	719,600
25	Net annual Balance	(1,880,826)	1,003,128	1,993,648	1,241,392	847,482	956,994	1,189,108	261,286	707,374	1,306,534
26	End of Year Balance	35,426,303	36,429,431	38,423,079	39,664,471	40,511,953	41,657,347	43,505,055	44,444,641	45,850,715	47,876,849
27	Days of O&M Cash on Hand	182	181	184	183	181	181	183	181	181	183
Coverage Requirements											
Rate Covenant Coverage											
28	Senior Debt (c)	246.9%	282.7%	278.2%	263.2%	241.9%	219.8%	194.3%	167.5%	152.5%	150.4%
29	All Debt (d)	235.0%	269.8%	267.6%	255.2%	234.7%	213.4%	189.0%	163.3%	148.7%	148.5%
Additional Bond Coverage											
30	Senior Debt (c)	410.7%	294.0%	274.5%	248.7%	247.3%	204.5%	192.5%	180.2%	167.5%	154.4%
31	All Debt (d)	392.1%	285.0%	266.1%	241.6%	240.2%	199.3%	187.7%	175.7%	163.3%	150.5%

(a) Reflects revenue from an eight-year series of annual 10% rate increases effective January 1, 2013; adopted by the City Council in 2012.
(b) Reflects beginning of year balance in unrestricted and undesignated cash and cash equivalents and cash and cash equivalents designated for capital projects, less operating reserve requirement.
(c) The General Bond Resolution requires net revenue to equal or exceed 125% of debt service.
(d) The General Bond Resolution requires net revenue to equal or exceed 110% of debt service.

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 WATER DEPARTMENT (x \$1000)
 SUPPORTING SCHEDULE OF PARTICIPATION BY OTHERS

C. P. #	PARTICIPATION BY OTHERS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM	
175	Water Hurricane Recovery Bonds	40,600	23,200	44,000	33,200	31,200	20,000	10,000	5,000	5,000	5,000	217,200	FEMA
214	Normal Extensions & Replacements (Water Distribution)	1,035	1,035	1,035	1,035	1,035	1,035	1,035	1,035	1,035	1,035	10,350	FORCE ACCT
676	Modifications to Power Generating System HMGP	14,293	5,157	5,232	0	0	0	0	0	0	0	24,682	FEMA
807	Improvements to Central Yard & St Joseph St	646	0	0	0	0	0	0	0	0	0	646	FEMA
TOTAL ANTICIPATED PARTICIPATION		\$56,574	\$29,392	\$50,267	\$34,235	\$32,235	\$21,035	\$11,035	\$6,035	\$6,035	\$6,035	\$252,878	
WATER PARTICIPATION CASH FLOW		\$33,944	40,265	41,917	40,648	33,035	25,515	15,035	8,035	6,035	6,035	250,464	

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 WATER DEPARTMENT (x \$1000)
 2017 CAPITAL PROGRAM BY QUARTER

C.P.#	WATERWORKS	2017 TOTAL PROGRAM	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
110	Normal Extensions & Replacements	\$18,884	\$4,721	\$4,721	\$4,721	\$4,721
112	Modifications to Oak St Raw Water Intake Station	\$1,200	\$300	\$300	\$300	\$300
122	Filter Rehabilitation	6,625	1,656	1,656	1,656	1,656
135	Improvements to Chemical System	7,370	1,843	1,843	1,843	1,843
156	Advanced Water Treatment (Carr.)	8,815	2,204	2,204	2,204	2,204
157	Advanced Water Treatment (Algiers)	6,940	1,735	1,735	1,735	1,735
158	Advanced Water Treatment (Carrollton)	200	50	50	50	50
159	Water Plant Security Improvements	2,495	624	624	624	624
160	SELA Water Relocation Costs	1,300	325	325	325	325
175	Water Hurricane Recovery Bonds	40,600	10,150	10,150	10,150	10,150
	TOTAL WATERWORKS	94,429	23,607	23,607	23,607	23,607
C.P.# WATER DISTRIBUTION						
214	Normal Extensions & Replacements	2,535	634	634	634	634
216	Water System Replacement Program	5,100	1,275	1,275	1,275	1,275
221	Feeder Main Extensions-General	100	25	25	25	25
239	Mains In D P W Contracts	3,200	800	800	800	800
	TOTAL WATER DISTRIBUTION	10,935	2,734	2,734	2,734	2,734
600	Water Share of Power Projects	41,530	10,383	10,383	10,383	10,383
701	Water Reserve for Emergencies	2,000	500	500	500	500
800	Water Share - General Budget Items	28,869	7,217	7,217	7,217	7,217
	TOTAL WATER DEPARTMENT	\$177,763	\$44,441	\$44,441	\$44,441	\$44,441

Sewerage and Water Board of New Orleans

Water (w/Gen/Power) Capital Projects Prioritization 2017-26

Funded by Participation by Others															
Capital Project	Council District	Capital Project Title	Description	Calculated Score	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total 2017-26
175-11	Citywide	Water Hurricane Recovery Bond FEMA	Water Hammer Mitigation-8 new water distribution pumps at Claiborne, Panola and Low Lift Pump Stations.	10.00	20,000,000	3,200,000	14,000,000	3,200,000	1,200,000						41,600,000
175-12	Citywide	Water Hurricane Recovery Bond FEMA (33/33/33 W/S/D)	Labor for Maintenance Services FEMA	10.00	600,000										600,000
175-13	Citywide	Networks Water System Replacement Program (Inspect, monitoring, assessment & replacement) FEMA	Replacement of water distribution system on East Bank FEMA	10.00	20,000,000	20,000,000	30,000,000	30,000,000	30,000,000	20,000,000	10,000,000	5,000,000	5,000,000	5,000,000	175,000,000
214-01	Citywide	Networks Engineering & Inspection of Developer Installed Water Mains - Forced Accts	Water Service Line/Metering Installation Force Accts (45/45/10)	10.00	1,035,000	1,035,000	1,035,100	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	10,350,100
676-01	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Retrofit Boilers 1, 3 - 6 including auxiliary equipment and systems construction and engineering Contract 1370 (HMGP)	10.00	13,123,841										13,123,841
676-02	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Refurbish Turbines 3, including controls upgrade Contract 1373(HMGP)	10.00		5,157,120									5,157,120
676-03	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Refurbish Turbines 5, including controls upgrade Contract 1372(HMGP)	10.00			5,231,920								5,231,920
676-07	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Hardening of power plant Contract 1371	10.00	105,000										105,000
676-08	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Emergency fuel storage construction and engineering Contract 1369	10.00	180,000										180,000

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676-09	A, B	Modifications to the Power Generating System (34/15/53) HMGP	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	850,000										850,000
676-10	A, B	Modifications to the Power Generating System (34/15/53) HMGP	C 6248 Feeders from CWTP HMGP	10.00	34,000										34,000
807-19	D	Improvements to Central Yard & St. Joseph Street FEMA 33/33/34 W/S/D	Central Yard: Repairs/replacement of Garage 1 & 2, Body Shop, including frame rack, paint booth, shop equipment FEMA	10.00	645,725										645,725
Total Sewerage Capital Program - Funded by Others					\$ 56,573,566	\$ 29,392,120	\$ 50,267,020	\$ 34,235,000	\$ 32,235,000	\$ 21,035,000	\$ 11,035,000	\$ 6,035,000	\$ 6,035,000	\$ 6,035,000	\$ 252,877,706

Funded by Sewerage & Water Board of New Orleans

110-02	E	Normal Extensions & Replacements-NO East Elevated Water Tank	Repair, paint and return to service the NO East Elevated Water Tank	10.00	6,000,000	600,000									6,600,000
110-22	C	Normal Extensions & Replacements	Algiers WPP: Concrete ground storage tanks are due for routine cleaning and inspection. Add new valve drains.	10.00	500,000					100,000					600,000
110-28	Citywide	Normal Extensions & Replacements	CWPP/AWPP Storm Proofing: Improvements to facilities required to be manned for hurricanes to protect the health and welfare of employees required to work not covered by COE	10.00	300,000	400,000									700,000
110-39	Citywide	Normal Extensions & Replacements	Low Lift: Replace main crane. The equipment is obsolete and a safety hazard	10.00	400,000										400,000
110-50	Citywide	Normal Extensions & Replacements 33/33/34 W/S/D	Labor for Maintenance Services of miscellaneous repairs	10.00	500,000	550,000	550,000	600,000	600,000	650,000	650,000	700,000	700,000	750,000	6,250,000
110-58	E	Modifications to Water Distribution System	Installation of a Secondary Chlorination Mobile Facility within Venetian Isles water distribution system	10.00	1,500,000	150,000									1,650,000
122-08	Citywide	Sycamore & Claiborne Filter Modifications	Air System replacement (Claiborne) and minor piping/valving modifications (Sycamore) includes complete	10.00	375,000	50,000									425,000
135-08	Citywide	Improv to Chemical Handling & Feed Systems	New Bulk Chemical Storage and Feed Facility - Contract 1391	10.00	7,000,000	700,000									7,700,000
159-01	Citywide	Security/ Monitoring	Provide security systems at various facilities, including Water Plants and all remote facilities, both perimeter and inside the facilities. FEMA	10.00	2,000,000		2,000,000								4,000,000

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159-02	Citywide	Conversion of Head House to Emergency Operations Center 33W/33S/33D	Rehabilitate the existing Head House Facility into an Emergency Operation Center designed to FEMA Safe House Standards. Engineering and construction cost included.	10.00	495,000	1,980,000	1,320,000								3,795,000
160-00	A,B,D	SELA Relocation Costs	Entergy Temporary Relocations & S&WB Forensic Engineering	10.00	1,300,000	603,333	236,550	577,500	2,145,000						4,862,383
214-02	Citywide	Networks Engineering & Inspection of Developer Installed Water Mains Paid by Developer	Main Extension(Water portion) Paid by Developer	10.00	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
216-02	Citywide	Networks Water System Replacement Program (SCADA flow meters)	Water main replacement program- replacement of valves, etc. Linked with 175-13	10.00	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	50,000,000
613-10	Citywide	Program Management/Construction Management fees for managing the entire HMGP	Due to the funding limitaitons of the HMGP Grant, the PM/CM fees will be funded from SWBNO System funds. The funding also includes costs for Engineering Services During Construction.	10.00	6,685,000	6,685,000	3,500,000	3,500,000	1,750,000	1,750,000					23,870,000
613-14	Citywide	Modifications to the Power Generating System 100 W	Stations A & B High Lift Pump - repair/replace steam driven pumping units and ancillary components	10.00	100,000										100,000
676-06	Citywide	Modifications to the Power Generating System (80W/20S)	Oak Street Pump Station Retrofit Contract 1368 design, construction and engineering services. Project funded under System Funds due to funding cap of HMGP. NTP scheduled for Spring 2017 timeframe.	10.00	18,400,000	1,840,000									20,240,000
676-09	A, B	Modifications to the Power Generating System (34/15/53) HMGP	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	1,700,000										1,700,000
701-00	Citywide	Water Reserve for Emergencies	Contingency	10.00	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,000,000
803-02	Citywide	Property Acquisition Professional Services Contract 33/33/24 W/S/D	Consulting firm to perform title research, environmental assessment, real estate reports, etc. associated with acquiring various properties for ongoing SWBNO facility projects.	10.00	150,000	150,000	150,000	150,000	150,000						750,000
810-06	D	Major Equipment Purchases 33/33/34 W/S/D	Garage I Replacement of 2 hydraulic lifts	10.00							16,500	16,500	16,500	16,500	66,000
812-15	Citywide	New Development Contract Work 33/33/34 W/S/D	Programming done for implementations of new systems and system expansions such as CAM replacement, Financial System replacement or bringing up new modules of current software.	10.00	297,000	165,000	165,000	33,000	33,000	33,000	33,000	33,000	33,000	33,000	858,000
820-00	Citywide	Overhead charged to Capital 33/33/34 W/S/D	Portion of overhead attributed to capital from operations and maintenance	10.00	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	29,710,000

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843-17	Citywide	Data Center UPS Battery Replacement 33/33/34 W/S/D	Replacement of UPS Battery System purchased in 2006	10.00	49,500			2,475	2,475			49,500			103,950
843-26	Citywide	Server Expansion 33/33/34 W/S/D	Additional Server Purchases	10.00	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	72,600
843-33	Citywide	Personal Computers 33/33/34 W/S/D	Phased replacement of all personal computers throughout the Board	10.00	36,300	9,900	66,000	19,800	13,200	13,200	13,200	66,000	19,800	13,200	270,600
843-48	Citywide	Scanning all hard copies of plans, field books into an electronic database format	Program Development, Document Scanning, and Records Management	10.00	1,000,000	500,000	500,000								2,000,000
112-06	Citywide	Modifications to Oak St Raw Water Intake Station	Oak Street Pump Station Retrofit Contract 1368 design, construction and engineering services (HMGP non FEMA)	10.00	1,200,000	5,000,000	5,000,000							80,000,000	91,200,000
843-42	Citywide	Update Network Infrastructure	Purchase of new routers and switches beyond useful life	10.00	35,000										35,000
156-07	Citywide	Advanced Water Treatment at CWPP	Water Treatment Plant Master Plan	9.84	75,000										75,000
157-01	C	Water Treatment Improvements - Algiers	Water Treatment Plant Master Plan	9.84	50,000										50,000
112-08	C	Modifications to Algiers Raw Water Intake Station	Intake spill protection at Algiers Raw Water Intake Station	9.82		500,000									500,000
812-05	Citywide	CAM Replacement 50/50 W/S	Replacement of Customer Billing system	9.78	450,000										450,000
812-07	Citywide	Financial System Replacement 33/33/34 W/S/D	Replacement of Financial system (Budget, A/R, GJ, Warehouse, Fixed Assets, etc.)	9.78	825,000	330,000									1,155,000
843-45	Citywide	Mainframe/dasd	Replacement of obsolete mainframe and dasd storage unit	9.76	46,667										46,667
110-40	Citywide	Normal Extensions & Replacements	Purchase parts for 16" - 30" Valves, bull gears, spreaders, valve stem, yokes, and disc	9.71	200,000	200,000	200,000	200,000	200,000	200,000	300,000	300,000	300,000	300,000	2,400,000
156-05	Citywide	Advanced Water Treatment at CWPP	Addiion of solar mixers to the storage tanks to prevent nitrifications	9.67			120,000	120,000	120,000	60,000					420,000
156-06	Citywide	Advanced Water Treatment at CWPP	Structural or process improvements to address to TOC removal	9.67						500,000	5,000,000				5,500,000
157-06	C	Water Treatment Improvements - Algiers	Addiion of chlorine contact chambers to meet Long Term 1 Enhanced Surface Water Treatment Rule	9.67							1,000,000	9,000,000			10,000,000
843-28	Citywide	Vault Server Refresh 33/33/34 W/S/D	"Refresh/Replace" Vault server	9.66	24,750										24,750
112-05	Citywide	Modifications to New River Raw Water Intake Station	Rehabilitation of New River Station	9.66										20,000,000	20,000,000

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843-32	Citywide	Network UPS Replacement 33/33/34 W/S/D	Replacement of Uninterruptible Power Systems for the Network Devices	9.57	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	66,000
843-19	Citywide	EOC Satellite Hookup-Carrollton 33/33/34 W/S/D	Enhancement of communications during emergencies.	9.53		660									660
824-00	B	Improvements to Central Yard & St. Joseph Street 50/50 W/S	Furnishing brass water service fittings, meter, boxes, and meter box parts	9.50	1,084,000	1,084,200	1,084,200	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	10,840,400
110-01	Citywide	Normal Extensions & Replacements-Facility Maintenance	Facility Maintenance repairs to water purification plants	9.50	750,000	750,000	750,000	550,000	550,000	600,000	600,000	600,000	600,000	600,000	6,350,000
624-01	Citywide	Normal Extensions & Replacements 35/5/60 W/S/D	Normal Extensions and Replacement to Existing Electrical Distribution, Control, and Utilization Equipment and Facilities as needed to ensure reliability and functional capability of the Power Network	9.50	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	2,800,000
843-25	Citywide	Server Refresh 33/33/34 W/S/D	Upgrade and Replacement of all Board Servers as they reach the 5-7 year age	9.48	33,000	16,665	16,665	16,665	16,665	16,665	16,665	16,665	16,665	16,665	182,985
812-14	Citywide	Desktop Software 33/33/34 W/S/D	Upgrades / New Copies of Windows Operating System and New Version of Office; crystal report writer software, etc.	9.46	115,500	165,000		29,700		29,700		29,700			369,600
157-02	C	Water Treatment Improvements - Algiers	Replace onsite chlorine generation process with liquid NaHOCl facility, design and replacement (WQMP)	9.43	100,000	2,000,000									2,100,000
214-03	Citywide	Normal Extensions & Replacements	Waterline leak detection	9.43	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
122-02	Citywide	Sycamore & Claiborne Filter Modifications-	Sycamore Filters Replacement Study and preliminary design to assess alternatives for a new Filter Complex to replace existing Sycamore filters	9.42	250,000										250,000
843-39	Citywide	High Volume Scanners 33/33/34 W/S/D	Replacement of High Volume Scanners used for Networks and Revenue documents	9.31	3,300	11,550				3,300	3,300				21,450
843-49	Citywide	Replace Fiber @ SWB	Replacement of Fiber, boardwide	9.31	49,500										49,500
110-23	C	Normal Extensions & Replacements	Algiers WPP; Repair/replace ferric pump house, piping, and instrumentation	9.23				500,000							500,000
157-11	C	Water Treatment Improvements - Algiers	Filter media removal and replacement for the 20 filters and new filter controls and instrumentation improvements (P-008 WQMP)	9.23	1,020,000										1,020,000
157-12	C	Water Treatment Improvements - Algiers	Fluoride Facility electrical system replacement	9.23	80,000										80,000

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843-16	Citywide	Miere Printer (checks 33/33/34 W/S/D)	Check printer	9.19	2,250										2,250
825-00	Citywide	Normal Extensions & Replacements	Mobile automatic meter readers installation (linked with 823)	9.19	10,000,000	10,000,000									20,000,000
843-27	Citywide	Oracle Server Refresh 33/33/34 W/S/D	"Refresh /Replace" Oracle Database server	9.13	6,600										6,600
843-38	Citywide	Printers 33/33/34 W/S/D	Replacement Printers	9.13	16,500	6,930	9,900	9,900	6,930	6,930	5,280	5,280	5,280	5,280	78,210
812-09	Citywide	Windows Server Software and applicable Client Access Licenses 33/33/34 W/S/D	Upgrade of Network server software, and applicable user licenses	9.00	33,000	1,584	9,900	11,385	4,950	4,950	4,950	4,950	4,950	4,950	85,569
812-12	Citywide	Miscellaneous Software 33/33/34 W/S/D	Unspecified software often needed "immediately" by user to complete important project.	9.00	6,930	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	36,630
812-28	Citywide	Microsoft SCCM	Network Monitoring Software	8.91	24,750										24,750
810-05	D	Major Equipment Purchases 33/33/34 W/S/D	Garage I Diagnostic equipment and upgraded every other year	8.80	1,650		1,815		1,815						5,280
812-13	Citywide	Web Developer Software 33/33/34 W/S/D	Upgrades and Replacement of software used by web developer for web design and maintenance.	8.76		1,980									1,980
110-49	Citywide	Normal Extensions & Replacements	Forensics structural engineering services for analysis of water system facilities	8.75	34,000										34,000
810-7	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Equipment for Michoud dumping site	8.75	100,000										100,000
810-8	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Proprietary keying system for the entire Board	8.75	166,666										166,666
110-05	Citywide	Normal Extensions & Replacements- L4 Basin Repair	Carrollton WPP: Repair L4 & leak btw L4 and C5 The leak between L4 and C5 has resulted in loss of 33% of Carrollton's disinfection contact basin capacity and has made it very difficult to perform routine basin maintenance	8.74		1,500,000									1,500,000
110-06	Citywide	Normal Extensions & Replacements- G & C Basin Repairs	Carrollton WPP: Repair Leaks from G (G4) and C (C5/6) Basins	8.74	250,000	250,000	250,000	250,000	300,000	300,000	325,000	325,000	325,000	325,000	2,900,000
843-35	B	Board Room AV Renovation 33/33/34 W/S/D	Renovation, upgrade and replacement of Audio-Visual Equipment in the Board Room- microphones, cameras, encoder, etc.	8.72					49,500						49,500

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156-01	Citywide	Advanced Water Treatment at CWPP	New Sludge Line to River at MWPP - Contract 1333: Addition of a second 30" waste sludge line for redundancy; provide sludge pumping and basin draining simultaneously; replacement of all sludge pumps, piping, valves and appurtenances within the Pump House for the G-Basins	8.70	6,000,000	500,000									6,500,000
156-02	Citywide	Advanced Water Treatment at CWPP	Sedimentation Basin Study-evaluate alternatives to repair of existing basins (WQMP)	8.66	150,000	200,000	20,000,000								20,350,000
156-03	Citywide	Advanced Water Treatment at CWPP	Improvements to G Sedimentation Basins- Add speed control to G-Basin Flocculators (P-002 WQMP)	8.66	920,000										920,000
156-04	Citywide	Advanced Water Treatment at CWPP	Improvements to G Sedimentation Basins- Replace static mixers with vertical mixers (P-001 WQMP)	8.66	710,000										710,000
156-08	Citywide	Advanced Water Treatment at CWPP	Improvements to G Sedimentation Basins- Replace settled water effluent channel isolation gates and related structural improvements (P-003WQMP)	8.66	870,000										870,000
156-09	Citywide	Advanced Water Treatment at CWPP	Improvements to G & L Sedimentation Basins-Replacing the control panels for motorrakes in basins G3, G4, L3 and L4 (E-001 WQMP)	8.66	90,000										90,000
843-14	Citywide	System Wide General Wiring 33/33/34 W/S/D	General Wiring for new data drops and special wiring runs.	8.64	4,950	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300		31,350
843-24	Citywide	Security- Badge Reading System Servers and Software 33/33/34 W/S/D	Replacement of Security Badge servers, software, etc.	8.64	127,050	24,750						49,500	33,000		234,300
110-42	Citywide	Normal Extensions & Replacements-Basin Repairs	Carrollton WPP: Repair L & G Basins flocculator drives (failed gearboxes)	8.61	400,000	400,000									800,000
110-17	Citywide	Normal Extensions & Replacements	Carrollton & Algiers WPP: Structural or process improvements to address TOC removal	8.60	500,000	500,000									1,000,000
843-30	Citywide	IP Unified Communication 33/33/34 W/S/D	Voice over IP Telephone System	8.59	8,250										8,250
812-25	Citywide	Environmental Compliance Software	Fats, Oil, and Grease (FOG) additional module for current system	8.55	2,805										2,805
843-31	Citywide	Rewiring (800 @ 275ea) 33/33/34 W/S/D	Data line (drops) rewiring throughout the Board	8.54	74,000										74,000

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843-36	Citywide	Travel AV / Offsite AV Projectors, etc. 33/33/34 W/S/D	Replacement of current and purchase of additional pc projectors and related equipment for use at scattered sites around the Board and offsite from the Board.	8.52	825		825		825		825		825		4,125
843-53	Citywide	Facility Maintenance Parts Fabricating Equipment	3d printer / scanner	8.48	24,750										24,750
110-14	Citywide	Normal Extensions & Replacements - CWPP Filter Backwash Recycle Pumps	Carrollton WPP-Replacement of the Filter Backwash Recycle Pumps - Contract 1345 Purchase and installation of 4 pumps for the facility. Existing pumps at or near failure. (P 004 WQMP)	8.40	470,000										470,000
122-03	Citywide	Sycamore & Claiborne Filter Modifications-	Sycamore Filter Modification-Rehabilitation of Filters 1-28 at the Sycamore Filter Gallery: Filter media replacement, underdrain inspection and maintenance, replacement of valve, actuator, meter and loss of head instrument	8.40	5,000,000	5,000,000							30,000,000		40,000,000
812-24	Citywide	Update Network Infrastructure-Firewall	Replace firewall with more secure hardware and software.	8.37	20,000										20,000
812-29		Security Guard Tracking Software	Trak Tek Software	8.35	1,782										1,782
812-10	Citywide	Cassworks Replacement 40/40/20 WSD	Upgrade or Replacement of Cassworks CMMS system	8.33	400,000	600,000	1,500,000								2,500,000
135-01	Citywide	Improv to Chemical Handling & Feed Systems	Carrollton WPP: Lime Slurry System Assessment, Design and Replacement	8.32	70,000	200,000	2,000,000								2,270,000
135-04	C	Improv to Chemical Handling & Feed Systems	Algiers WPP: Lime Slurry System Assessment, Design and Replacement	8.32	50,000	100,000	1,000,000								1,150,000
157-07	C	Water Treatment Improvements - Algiers	Eimco 3 & 4 Clarifiers Launderers and Trough replacement (P-007 WQMP)	8.23	500,000										500,000
157-08	C	Water Treatment Improvements - Algiers	Eimco Clarifier 2 - replacement of control panel (E003 WQMP)	8.23	90,000										90,000
110-13	Citywide	Normal Extensions & Replacements	Carrollton WPP: Routine repairs and modifications to the Carrollton rail system. Required for chemical delivery.	8.22	150,000		150,000		150,000		150,000		150,000		750,000
110-34	Citywide	Normal Extensions & Replacements	New River Station Install water pump casings, packing glands, bearings, and impellers for wear on all pumps	8.21	400,000	200,000									600,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>Total 2017-26</u>
122-01	Citywide	Sycamore & Claiborne Filter Modifications	Rehabilitation of Claiborne Filters 1 & 5: Filter media replacement, underdrain inspection and maintenance, replacement of valve, actuator, meter and loss of head instrumentation	8.20	1,000,000										1,000,000
843-12	Citywide	Mobile Computing- \$5,000 per truck 50/50 W/S	Purchase of laptop, retrofitting of trucks, etc.	8.19	37,500	12,500	37,500	12,500	5,000	5,000	37,500	12,500	5,000	5,000	170,000
110-12	Citywide	Normal Extensions & Replacements	Carrollton WPP: Improvements to Chemical House including drainage repairs, replacing all electrical systems (E-002 WQMP)	8.18	520,000										520,000
110-03	Citywide	Normal Extensions & Replacements-Water Purification Plant Maintenance	Misc. processes, equipment and facility repairs at CWP and AWP	8.13	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	13,000,000
110-54	Citywide	Normal Extensions & Replacements-Water Purification Plant Maintenance	Replacement of 50,000 feet of 8" diameter waterline to Venetian Isle, including providing a looping of system to improve water quality	8.13						700,000	7,000,000				7,700,000
843-37	Citywide	Plotters 33/33/34 W/S/D	Replacement Plotters	8.13	8,250	4,950	4,950				4,950	4,950			28,050
842-01	Citywide	Revenue Department Equipment Purchases 50/50 W/S	Replace Opex remittance processing and mail extraction equipment	7.90				30,000							30,000
110-43	C	Normal Extensions & Replacements	Algiers WPP: Ground Storage tanks requires installation of mixers to minimize nitrification problems occurred during water weather months	7.69	150,000										150,000
157-04	C	Water Treatment Improvements - Algiers	Eimco 2 Clarifier Painting at the Algiers Plant. Blasting and painting with corrosion resistant coatings. A functioning Eimco 2 is necessary for redundancy	7.69		250,000									250,000
157-05	C	Water Treatment Improvements - Algiers	Eimco 1 Clarifier replacement. The clarifier has extensive corrosion	7.69	5,000,000	500,000									5,500,000
110-26	C	Normal Extensions & Replacements	Algiers WPP: Miscellaneous repairs and modifications to the High Lift pumps	7.58	500,000		500,000		500,000		500,000		500,000		2,500,000
843-44	Citywide	Disaster Recovery / Failover Site	Duplicate hardware for all Cogsdale systems; AC, Fire Suppression, Water Proofing Data Room at Carrollton	7.47	115,500										115,500
239-00	Citywide	Networks Participation for Water Mains on DPW Paving Proj SWBNO	Networks Participation for Water Mains on DPW Paving Proj SWBNO	7.29	3,200,000	6,000,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	34,800,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>Total 2017-26</u>
862-00	Citywide	Fire Hydrants and Related Paris 100 W	Replace fire hydrants	7.29	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
613-07	Citywide	Modifications to the Power Generating System 35/5/60 W/S/D	Inspect and refurbish Turbine No.1	7.24					350,000	3,150,000					3,500,000
843-56	Citywide	Network Backup Redesign	Additional hardware storage for network	7.19	33,000										33,000
158-01	Citywide	Water Treatment Improvements - CWPP	Build new Water Treatment Process Train Bldg. at Carrollton	7.17	200,000	200,000						100,000,000			100,400,000
843-10	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Upgrade telephone equipment at various locations throughout SWB (DPS 13, SPS C, DPS 6, Algiers WTP, DPS 4; CWP Admin & Engineering	7.15	33,000	33,000	33,000	33,000							132,000
823-00	Citywide	Purchase of Water Meters 50/50 W/S	Replace or install new water meters (Linked with 110-41)	7.13	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	1,000,000	1,000,000	1,000,000	14,000,000
110-20	Citywide	Normal Extensions & Replacements	Carrollton WPP: Repair to existing water valves within plant	7.12	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
157-09	C	Water Treatment Improvements - Algiers	Raw Water Piping Modifications. To allow for flushing of the redundant raw water piping without shutting down production in the plant	7.12			1,000,000								1,000,000
613-11	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Repairs to CWPP Frequency Changer	7.10		960,000	60,000								1,020,000
812-26		Alertus Software	Software for Security Dept	7.09	3,300										3,300
613-17	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Structural design and repairs to water treatment system in Power House	6.97	72,000	648,000									720,000
803-01	Citywide	Property Acquisition 100% W	CP H0740 Property Maintenance: St. Charles Parish site in St. Rose LA (fencing, security, grass cutting, carpentry, drainage, septic tank, cleanout, general upkeep of grounds, chemical treatment of weeds)	6.96	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
807-01	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Joseph: Replace 2nd floor IT air conditioning unit pumps, drive motors and controls	6.96	2,000,000										2,000,000
110-45	Citywide	Normal Extensions & Replacements	Air Relief Valve Installation	6.90	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000
135-06	Citywide	Improv to Chemical Handling & Feed Systems	Carrollton WPP: Provide secondary containment for the 10,000 gal ammonia storage tank	6.79	100,000	1,000,000									1,100,000

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807-02	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replacement of switchgear for generator hook-up.	6.76	660,000										660,000
807-07	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace window seals (Atrium is leaking)	6.75	6,600	6,600									13,200
807-14	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Install new fencing from Garage 1 to Gas Station	6.75	6,600										6,600
807-16	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace electric gate near warehouse	6.75	16,000										16,000
807-06	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: New Wash Station (pressure washer, steam cleaner) oil grease separator (close to the fuel line)	6.57	51,150										51,150
112-07	Citywide	Modifications to Oak St Raw Water Intake Station	Design and construction of new Oak Street Raw Water Intake Facility	6.51								80,000,000			80,000,000
843-51		Data Center Re-Organization	Data Center Rack Renewal, Shelving, etc.	6.40	4,950										4,950
807-15	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: security system, including cameras and card access	6.10		100,000									100,000
157-10	C	Water Treatment Improvements - Algiers	Replacement of the Raw Water Pumps at Algiers River Station No. 2-The current pumps are undersized for the demand. New larger pumps will provide redundant raw water pumping capacity should the intake at Algiers Station #1 be damaged	6.08	100,000	1,000,000									1,100,000
110-09	Citywide	Normal Extensions & Replacements	Carrollton WPP: Steel Tanks 1/2; 3/4; 5/6 Interior Repairs Previous inspection noted extensive corrosion in the interior steel infrastructure of the six steel ground storage tanks. Repairs and corrosion resistant coatings are necessary to ensure the long term via, add new valve drains	5.89	250,000		250,000		275,000	275,000		275,000	275,000		1,600,000
843-48	Citywide	Smart Boards: EOC	Smart Board displays for EOC / CY Alternative Emergency Operations Center	5.85	9,900										9,900
810-01	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (large trucks, cranes, etc.)	5.80	3,833,333	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	7,523,333
810-07	D	Major Equipment Purchases 33/33/34 W/S/D	Garage II Replacement of 2 heavy equipment lift for wheel alignment, front end rack	5.80						16,600	16,500	16,500	16,500	16,500	82,600

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>Total 2017-26</u>
843-01	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (small trucks, cars, etc.) at 15 each year	5.80	500,000	200,000	200,000	220,000	220,000	240,000	240,000	260,000	260,000	280,000	2,620,000
843-50	Citywide	Specialty Printers-EOC	Large Printer/Scanner/ Copier Machines	5.67	1,815										1,815
843-47	Citywide	A V Systems at Carrollton and Central Yard	Install A V system similar to Board Room system at Carrollton and upgrade A V in CY conference room.	5.67	39,600							19,800	19,800	19,800	99,000
110-46	E	Normal Extensions & Replacements	New Orleans East Booster Station	5.66										10,000,000	10,000,000
110-48	Citywide	Normal Extensions & Replacements	Miscellaneous repairs to Chemical lines	5.63	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
807-05	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replace elevator controls, cable and governance of east elevator.	5.63	400,000										400,000
843-52	Citywide	Wide Format Printer / Scanner	Printer Scanner for Facility Maintenance Drawings	5.57	8,250										8,250
807-04	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replace plumbing in the 18 restrooms floor by floor	5.54	40,000	10,000	10,000								60,000
110-53	Citywide	Normal Extensions & Replacements	Carrollton WPP: Expansion of SCADA System	5.53		500,000									500,000
216-03	Citywide	Networks Water System Replacement Program (Inspect, monitoring, assessment & replacement)	Additional insertion flow meters (50 at \$9,000 each) in distribution system, including radio and remote logger	5.51	100,000	100,000	200,000								400,000
135-07	Citywide	Improv to Chemical Handling & Feed Systems	Carrollton WPP: Replace feeders for ammonia system	5.47	100,000	100,000									200,000
812-3	Citywide	Computer Systems Development 33/33/34 W/S/D	Support Services: Replace or upgrade Cyndrus vehicle management system	5.47			165,000								165,000
807-12	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Secure perimeter with new chain link fence. Includes deep footing for support and security	5.43	33,000										33,000
808-02	A, D	Improvements to Customer Service Satellite Stations 50/50 W/S	Rental for new Orleans East Satellite Bldg.	5.33		100,000									100,000
135-03	Citywide	Improv to Chemical Handling & Feed Systems	New River Intake: Renovation of abandoned Potassium Permanganate facility to carbon feed system	5.06	50,000										50,000

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843-06	D	Minor Equipment Purchases 33/33/34 W/S/D	Grounds Maintenance: Posthole driver, iron wheel for curves edges	5.00	33,000										33,000
110-08	Citywide	Normal Extensions & Replacements- Concrete Storage Tank	Carrollton WPP: Concrete ground storage tanks (4) are due for routine cleaning and inspection, add new valve drains	4.99	40,000		275,000			300,000					615,000
807-13	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Renovation of old warehouse	4.80					33,000	330,000					363,000
812-01	D	Computer Systems Development 33/33/34 W/S/D	Warehouse: Install scanning equipment for inventory, labeling barcodes and associated software	4.61	3,300										3,300
807-22	B	Improvements to Central Yard & St. Joseph Street -33/33/34 W/S/D	Repaving of parking lot	4.54	33,000										33,000
157-1	C	Water Treatment Improvements - Algiers	PLCs Purchase and Installation for Process Monitoring: treatment operations	4.48			150,000								150,000
110-16	Citywide	Normal Extensions & Replacements	Carrollton WPP: G3/G4 Inlet Flow Measuring Devices/ High Lift Venturi. Replacement of the venturi for the 48" lines feeding the G basin passage as they are no longer provide useable flow data.	4.41	300,000										300,000
110-31	Citywide	Normal Extensions & Replacements	Carrollton WPP: Conversion of gaseous chlorine to NaHOCl in filler gallery	4.30	100,000	1,000,000									1,100,000
110-25	C	Normal Extensions & Replacements	Algiers Elevated Tank Cleaning and Inspection: The tank is due for routine cleaning and inspection	4.23	50,000				75,000						125,000
110-24	C	Normal Extensions & Replacements	Algiers WPP: Expansion of SCADA	4.08	150,000										150,000
110-56	Citywide	Normal Extensions & Replacements	Carrollton WPP: Laboratory equipment	4.07	150,000										150,000
110-57	Citywide	Normal Extensions & Replacements	Water line replacements (non-FEMA) to meet future demands (fire flow, capacity)	4.07	2,500,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	13,000,000
843-41	C	New West Bank Yard 33/33/34 W/S/D	Design and construction of new west bank yard, include land acquisition	3.93					500,000	500,000	2,000,000				3,000,000
843-42	Citywide	Update Network Infrastructure	Purchase of new routers and switches beyond useful life	3.93	4,950	4,950	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	62,700
812-02	Citywide	Computer Systems Development 33/33/34 W/S/D	Fuel Islands: Replace existing fuel access system	3.92		165,000									165,000
221-00	Citywide	Networks Feeder Main Extensions	(Extension of transmission mains to new areas of development or to boost pressure in current service area)	3.89	100,000	100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	600,000
807-21	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Body Shop and Garage renovation	3.81			360,000								360,000

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808-01	C	Improvements to Customer Service Satellite Stations 50/50 W/S	Installation of security cameras and access cards	3.75		200,000									200,000											
110-32	Citywide	Normal Extensions & Replacements	Carrollton WPP: Repairs to Dorr Unit office Complex; This abandoned complex could be used for housing essential personnel during emergencies as well as training facilities for operation personnel	3.55		5,000,000									5,000,000											
807-17	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Fuel Island -Provide for installation of canopy and lights	3.49			16,500					330,000	330,000	330,000	1,006,500											
807-18	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Fuel Island -Upgrade or replace fuel island	3.12							330,000				330,000											
TOTAL					\$	121,189,133	\$	81,233,012	\$	64,690,865	\$	29,307,985	\$	30,494,420	\$	32,226,405	\$	38,889,730	\$	125,656,905	\$	144,153,380	\$	134,254,655	\$	802,096,490
TOTAL WATER CAPITAL PROGRAM					\$	177,762,699	\$	110,625,132	\$	114,957,885	\$	63,542,985	\$	62,729,420	\$	53,261,405	\$	49,924,730	\$	131,691,905	\$	150,188,380	\$	140,289,655	\$	1,054,974,196

2017 - 2026 Sewerage Capital Fund

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 2017 - 2026 CAPITAL PROGRAM
 SEWERAGE DEPARTMENT (x \$1000)

C.P.# SEWERAGE SYSTEM	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM
313 Ext & Replace - Sewer Force Mains EPA Consent Decree	\$8,700	\$6,600	\$9,350	\$9,000	\$11,750	\$8,000	\$10,750	\$14,750	\$13,500	\$13,500	\$105,900
317 Ext & Replace - Gravity Mains EPA Consent Decree	22,200	29,000	25,700	23,700	23,700	16,700	3,700	3,700	1,700	1,700	151,800
318 Rehabilitation Gravity Sewer System	9,335	8,035	9,335	8,035	9,435	8,035	9,535	9,535	9,535	9,535	90,350
319 Extension and Replacements - Sanitary Sewer Mains Algiers	2,000	2,000	3,000	2,500	3,000	3,000	3,000	3,000	0	0	21,500
326 Ext & Rep. to Pumping Stations EPA Consent Decree	3,960	5,990	6,790	2,300	3,600	1,650	2,150	2,200	2,200	1,750	32,590
339 Mains In D P W Contracts EPA Consent Decree	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	53,000
358 WWTP Normal Extensions & Replacements	0	0	10	0	0	0	0	0	0	0	10
360 SELA Sewerage Relocation Costs	844	643	0	0	0	17	577	2,145	0	0	4,226
368 Wetland Assimilation	4,300	300	0	0	0	0	0	0	0	0	4,600
375 Sewerage Hurricane Recovery Bonds	9,110	5,850	4,250	6,000	3,670	3,670	0	0	0	0	32,550
382 Paving Repair Contracts	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
383 Sewerage Hurricane Recovery Bonds (Non FEMA)	2,000	0	0	0	0	0	0	0	0	0	2,000
TOTAL SEWERAGE SYSTEM	68,749	64,718	64,735	57,835	61,455	47,372	36,012	41,630	33,235	32,785	508,526
SEWERAGE TREATMENT											
348 Ext & Replace -Treatment Plants	8,580	3,595	4,805	5,225	850	0	0	0	0	0	23,055
381 Modification & Extension of WBSTP to 20/50 MGD	1,305	1,590	2,935	210	0	2,500	0	0	650	7,000	16,190
TOTAL SEWERAGE TREATMENT	9,885	5,185	7,740	5,435	850	2,500	0	0	650	7,000	39,245
600 Sewer Share of Power Projects	14,900	11,308	1,099	3,196	990	540	40	40	40	40	32,193
702 Sewer Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
800 Sewer Share of General Budget Items	16,410	9,092	9,296	7,131	7,600	7,365	8,252	6,740	6,257	6,233	84,376
TOTAL SEWERAGE DEPARTMENT	\$111,944	\$92,303	\$84,870	\$75,597	\$72,895	\$59,777	\$46,304	\$50,410	\$42,182	\$48,058	\$684,340

**Sewerage Department
2017-2026
Capital Improvement Program Financing**

Line No.	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Funds Available at Beginning of Year	90,802,900	46,041,600	73,268,500	20,971,400	50,502,900	16,542,900	26,054,700	11,051,200	26,461,700	10,208,100
2	Revenue Bond Proceeds	0	101,000,000	0	70,000,000	0	40,000,000	0	36,000,000	0	20,000,000
3	Operation Fund Transfers	9,000,000	20,000,000	28,000,000	38,000,000	34,000,000	33,000,000	34,000,000	30,000,000	28,000,000	28,000,000
4	Participation by Others	12,717,000	14,329,000	7,072,000	6,399,000	5,679,000	4,705,000	2,503,000	1,035,000	1,035,000	1,035,000
5	Interest Income	687,700	521,200	473,900	304,900	337,000	183,000	186,500	160,500	184,400	95,900
6	Total Funds Available	113,207,600	181,891,800	108,814,400	135,675,300	90,518,900	94,430,900	62,744,200	78,246,700	55,681,100	59,339,000
7	Major Capital Additions	(67,166,000)	(100,159,000)	(87,843,000)	(79,306,000)	(73,976,000)	(65,024,000)	(51,693,000)	(48,768,000)	(45,473,000)	(45,708,000)
8	Bond Issuance Expense	0	(1,515,000)	0	(1,050,000)	0	(600,000)	0	(540,000)	0	(300,000)
9	Revenue Bond Reserve Fund	0	(6,949,300)	0	(4,816,400)	0	(2,752,200)	0	(2,477,000)	0	(1,376,100)
10	Total Application of Funds	(67,166,000)	(108,623,300)	(87,843,000)	(85,172,400)	(73,976,000)	(68,376,200)	(51,693,000)	(51,785,000)	(45,473,000)	(47,384,100)
11	End of Year Balance	46,041,600	73,268,500	20,971,400	50,502,900	16,542,900	26,054,700	11,051,200	26,461,700	10,208,100	11,954,900

**Sewerage Department
2017-2026
Projected Revenue Requirements**

Line No.	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Revenue from Charges	103,675,100	103,811,900	103,947,600	104,064,000	103,943,100	103,776,800	103,563,900	103,306,800	103,006,400	102,661,700
2	Total Additional Revenue (a)	10,118,200	21,382,600	33,743,200	47,310,100	47,254,400	47,177,600	47,079,200	46,960,200	46,821,100	46,661,600
3	Total Service Charge Revenue	113,793,300	125,194,500	137,690,800	151,374,100	151,197,500	150,954,400	150,643,100	150,267,000	149,827,500	149,323,300
4	Other Operating Revenue	1,866,400	1,910,000	1,941,000	1,970,300	2,001,200	2,033,800	2,068,200	2,104,500	2,142,800	2,183,300
5	Total Operating Revenue	115,659,700	127,104,500	139,631,800	153,344,400	153,198,700	152,988,200	152,711,300	152,371,500	151,970,300	151,506,600
6	Operation & Maintenance	(69,897,700)	(71,574,500)	(73,301,800)	(75,080,900)	(76,913,200)	(78,800,800)	(80,744,800)	(82,747,000)	(84,809,500)	(86,933,800)
7	Non-Cash Expense Accruals	(2,275,866)	(2,503,890)	(2,753,816)	(3,027,482)	(3,023,950)	(3,019,088)	(3,012,862)	(3,005,340)	(2,996,550)	(2,986,466)
8	Net Operating Revenue	43,486,134	53,026,110	63,576,184	75,236,018	73,261,550	71,168,312	68,953,638	66,619,160	64,164,250	61,586,334
	Debt Service										
	Senior Lien Revenue Bonds										
9	Existing	(24,806,500)	(23,139,100)	(21,714,000)	(21,730,500)	(20,552,500)	(18,435,000)	(14,525,600)	(14,074,300)	(12,162,600)	(12,162,300)
10	Projected	0	(2,895,500)	(6,949,300)	(8,956,100)	(11,765,700)	(12,912,500)	(14,517,900)	(15,550,000)	(16,994,900)	(17,568,300)
11	Subtotal	(24,806,500)	(26,034,600)	(28,663,300)	(30,686,600)	(32,318,200)	(31,347,500)	(29,043,500)	(29,624,300)	(29,157,500)	(29,730,600)
	Subordinate Revenue Bonds										
12	Gulf Opportunity Zone Act Loan	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(6,235,200)	(3,117,600)
13	Total Debt Service	(31,041,700)	(32,269,800)	(34,898,500)	(36,921,800)	(38,553,400)	(37,582,700)	(35,278,700)	(35,859,500)	(35,392,700)	(32,848,200)
14	Other Non-Operating Revenue	462,100	462,100	462,100	462,100	462,100	462,100	462,100	462,100	462,100	462,100
15	Transfer to Construction	(9,000,000)	(20,000,000)	(28,000,000)	(38,000,000)	(34,000,000)	(33,000,000)	(34,000,000)	(30,000,000)	(28,000,000)	(28,000,000)
16	Due from/(to) Other Departments	(486,000)	0	0	0	0	0	0	0	0	0
17	Transfer to Operating Reserve Fund	(182,300)	(2,744,300)	(413,500)	(425,900)	(438,700)	(451,800)	(465,400)	(479,300)	(493,700)	(508,600)
18	Transfer from/(to) Rate Stabilization Fund	0	0	0	0	0	0	0	0	0	0
19	Net Annual Balance	3,238,234	(1,525,890)	726,284	350,418	731,550	595,912	(328,362)	742,460	739,950	691,634
20	Beginning of Year Cash Balance (b)	32,402,514	35,640,748	34,114,858	34,841,142	35,191,560	35,923,110	36,519,022	36,190,660	36,933,120	37,673,070
21	End of Year Balance	35,640,748	34,114,858	34,841,142	35,191,560	35,923,110	36,519,022	36,190,660	36,933,120	37,673,070	38,364,704
22	Beginning of Year Cash Balance (b)	32,402,514	35,823,048	37,041,458	38,181,242	38,957,560	40,127,810	41,175,522	41,312,560	42,534,320	43,767,970
23	Operating Reserve Fund	182,300	2,744,300	413,500	425,900	438,700	451,800	465,400	479,300	493,700	508,600
24	Net annual Balance	3,238,234	(1,525,890)	726,284	350,418	731,550	595,912	(328,362)	742,460	739,950	691,634
25	End of Year Balance	35,823,048	37,041,458	38,181,242	38,957,560	40,127,810	41,175,522	41,312,560	42,534,320	43,767,970	44,968,204
26	Days of O&M Cash on Hand	181	183	183	182	183	184	180	181	182	183
	Coverage Requirements										
	Rate Covenant Coverage										
27	Senior Debt (c)	228.0%	297.4%	350.8%	410.2%	384.4%	387.2%	409.9%	393.5%	391.2%	374.5%
28	All Debt (d)	182.2%	240.0%	288.1%	340.9%	322.2%	322.9%	337.4%	325.1%	322.3%	339.0%
	Additional Bond Coverage										
29	Senior Debt (c)	390.0%	316.9%	346.0%	343.3%	384.4%	396.3%	417.9%	401.9%	399.8%	391.2%
30	All Debt (d)	311.7%	260.3%	284.2%	287.8%	322.2%	330.5%	344.0%	332.0%	329.4%	322.3%

(a) Reflects revenue from an eight-year series of annual 10% rate increases effective January 1, 2013; adopted by the City Council in 2012.

(b) Reflects beginning of year balance in unrestricted and undesignated cash and cash equivalents and cash and cash equivalents designated for capital projects, less operating reserve requirement.

(c) The General Bond Resolution requires net revenue to equal or exceed 125% of debt service.

(d) The General Bond Resolution requires net revenue to equal or exceed 110% of debt service.

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 SEWERAGE DEPARTMENT (x \$1000)
 SUPPORTING SCHEDULE OF PARTICIPATION BY OTHERS

C. P. #	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM	
318 Rehabilitation Gravity Sewer System	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$1,035	\$10,350	Force Acct
368 Wetland Assimilation	4,000	0	0	0	0	0	0	0	0	0	4,000	Coastal Wetl:
375 Sewerage Hurricane Recovery Bonds	9,110	5,850	4,250	4,000	3,670	3,670	0	0	0	0	30,550	FEMA
676 Modifications to Power Generating System HMGP	6,850	2,867	0	2,106	0	0	0	0	0	0	11,823	FEMA
807 Improvements to Central Yard & St Joseph St	200	0	0	0	0	0	0	0	0	0	200	FEMA
TOTAL ANTICIPATED PARTICIPATION	\$21,195	\$9,752	\$5,285	\$7,141	\$4,705	\$4,705	\$1,035	\$1,035	\$1,035	\$1,035	\$56,923	
SEWER PARTICIPATION CASH FLOW	\$12,717	14,329	7,072	6,399	5,679	4,705	2,503	1,035	1,035	1,035	56,509	

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 SEWERAGE DEPARTMENT (x \$1000)
 2017 CAPITAL PROGRAMS BY QUARTER

C.P.# SEWERAGE SYSTEM	2017 TOTAL PROGRAM	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
313 Ext & Replace - Sewer Force Mains EPA Consent Decree	\$8,700	\$2,175	\$2,175	\$2,175	\$2,175
317 Extensions & Replacements - Gravity Mains	22,200	5,550	5,550	5,550	5,550
318 Rehabilitation Gravity Sewer System	9,335	2,334	2,334	2,334	2,334
319 Extension and Replacements - Sanitary Sewer Mains Algiers	2,000	500	500	500	500
326 Extensions & Replacements to Sewer Pumping Stations	3,960	990	990	990	990
339 Mains In D P W Contracts	5,300	1,325	1,325	1,325	1,325
360 SELA Sewerage Relocation Costs	844	211	211	211	211
368 Wetland Assimilation	4,300	1,075	1,075	1,075	1,075
375 Sewerage Hurricane Recovery Bonds	9,110	2,278	2,278	2,278	2,278
382 Paving Repair Contracts	1,000	250	250	250	250
383 Sewerage Hurricane Recovery Bonds (Non FEMA)	2,000	500	500	500	500
TOTAL SEWERAGE SYSTEM	68,749	17,187	17,187	17,187	17,187
C.P.# SEWAGE TREATMENT					
348 Extensions & Replacements - Treatment Plants	8,580	2,145	2,145	2,145	2,145
381 Modification & Extension of WBSTP to 20/50 MGD	1,305	326	326	326	326
TOTAL SEWAGE TREATMENT	9,885	2,471	2,471	2,471	2,471
600 Sewer Share of Power Projects	14,900	3,725	3,725	3,725	3,725
702 Sewer Reserve for Emergencies	2,000	500	500	500	500
800 Sewer Share of General Budget Items	16,410	4,103	4,103	4,103	4,103
TOTAL SEWERAGE DEPARTMENT	\$111,944	\$27,986	\$27,986	\$27,986	\$27,986

Sewerage and Water Board of New Orleans

Sewerage (w/Gen/Pow) Capital Projects Prioritization 2017-26

Funded by Participation by Others

Capital Project	Council District	Capital Project Title	Description	Calculated Score	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL 2017-2026
318-01	Citywide	Rehabilitation of Gravity Sewer System Participation by Others 45/45/10	Installation of new water, sewer and drain connections at scattered sites throughout Orleans Parish (sewer portion). Participation by Others - 100% paid by Customers	10.00	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	1,035,000	10,350,000
368-00	Citywide	Wetland Assimilation (Other funding)	Wetland Assimilation (Others Grant)	10.00	4,000,000										4,000,000
375-02	Citywide	Sewerage Hurricane Recovery Bonds FEMA	Labor for Maintenance Services FEMA	10.00	600,000										600,000
375-08	Citywide	Sewerage Hurricane Recovery Bonds FEMA	Sludge Dryer at EBSTP (FEMA) Installation of Sludge Dryer	10.00	200,000	1,600,000									1,800,000
375-11	A	Sewerage Hurricane Recovery Bonds FEMA	SPS 8 Replacement-station needs to be relocated above ground FEMA HMGP Contract 3664	10.00	4,310,000	250,000	250,000								4,810,000
375-19	Citywide	Sewerage Hurricane Recovery Bonds FEMA	Future Repairs related to ESSA (Emergency Sewer Service Assessment) II - FEMA	10.00	4,000,000	4,000,000	4,000,000	4,000,000	3,670,000	3,670,000					23,340,000
676-01	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Retrofit Boilers 1, 3 - 6 including auxiliary equipment and systems construction and engineering Contract 1370 (HMGP)	10.00	5,850,000										5,850,000
676-02	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Refurbish Turbines 3, including controls upgrade Contract 1373(HMGP)	10.00		2,866,933									2,866,933
676-03	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Refurbish Turbines 5, including controls upgrade Contract 1372(HMGP)	10.00				2,106,027							2,106,027
676-07	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Hardening of power plant Contract 1371	10.00	250,000										250,000
676-08	Citywide	Modifications to the Power Generating System (34/15/53) HMGP	Emergency fuel storage construction and engineering Contract 1369	10.00	500,000										500,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>													
676-09	A, B	Modifications to the Power Generating System (34/15/53) HMGP	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	250,000										250,000													
807-19	D	Improvements to Central Yard & St. Joseph Street FEMA 33/33/34 W/S/D	Central Yard: Repairs/replacement of Garage 1 & 2, Body Shop, including frame rack, paint booth, air compressor, shop equipment FEMA	10.00	200,000										200,000													
Total Sewerage Capital Program - Funded by Others					\$	21,195,000	\$	9,751,933	\$	5,285,000	\$	7,141,027	\$	4,705,000	\$	4,705,000	\$	1,035,000	\$	1,035,000	\$	1,035,000	\$	1,035,000	\$	1,035,000	\$	56,922,960

Funded by Sewerage & Water Board of New Orleans

317-04	Citywide	Network Extensions and Repl of Gravity - Pavement Portion Only	Lower Ninth Ward Sewer Rehabilitation - Pavement restoration to be performed by DPW	10.00	5,000,000	5,000,000	1,500,000																						11,500,000
326-01	Citywide	Networks Extensions & Repl of Sewage Pumping Stations 33/33/33 W/S/D	Labor for Maintenance Services Sewer Funds	10.00	500,000	550,000	550,000	600,000	600,000	650,000	650,000	700,000	700,000	750,000															6,250,000
360-00	A,B,D	SELA Relocation Costs	Entergy Temporary Relocations & S&WB Forensic Engineering	10.00	843,500	643,333				17,000	577,500	2,145,000																4,226,333	
368-00	Citywide	Wetland Assimilation (Other funding)	Wetland Assimilation (Others Grant)	10.00	300,000	300,000																						600,000	
375-05	A	Sewerage Hurricane Recovery Bonds FEMA	SPS 3 Replacement-station needs to be relocated and expanded above ground, tied to 800-2 land acquisition FEMA	10.00				2,000,000																				2,000,000	
383-00	Citywide	Sewerage Hurricane Recovery Bonds non-FEMA	Sludge Dryer at EBSTP (non-FEMA)	10.00	2,000,000																							2,000,000	
613-10	Citywide	Program Management/Construction Management fees for managing the entire HMGP	Due to the funding limitations of the HMGP Grant, the PM/CM fees will be funded from SWBNO System funds. The funding also includes costs for Engineering Services During Construction.	10.00	1,910,000	1,910,000	1,000,000	1,000,000	500,000	500,000																		6,820,000	
613-18	Citywide	New 230KV Substation location of the western side of the CWP.	Professional engineering services related to the assessment, environmental review, and preliminary design of a new Entergy New Orleans 230 KV Substation on the Joliet to Southport 230KV transmission line.	10.00	750,000	375,000																						1,125,000	

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>
676-06	Citywide	Modifications to the Power Generating System (80W/20S)	Oak Street Pump Station Retrofit Contract 1368 design, construction and engineering services. Project funded under System Funds due to funding cap of HMGP. NTP scheduled for Spring 2017 timeframe.	10.00	4,600,000	460,000									5,060,000
676-09	A, B	Modifications to the Power Generating System (34/15/53) HMGP	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	750,000										750,000
702-00	Citywide	Water Reserve for Emergencies	Contingency	10.00	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,000,000
803-02	Citywide	Property Acquisition Professional Services Contract 33/33/24 W/S/D	Consulting firm to perform title research, environmental assessment, real estate reports, etc associated with acquiring various properties for ongoing SWBNO facility projects.	10.00	500,000	500,000	500,000	250,000	250,000						2,000,000
812-15	Citywide	New Development Contract Work 33/33/34 W/S/D	Programming done for implementations of new systems and system expansions such as CAM replacement, Financial System replacement or bringing up new modules of current software.	10.00	297,000	165,000	165,000	33,000	33,000	33,000	33,000	33,000	33,000	33,000	858,000
820-00	Citywide	Overhead charged to Capital 33/33/34 W/S/D	Portion of overhead attributed to capital from operations and maintenance	10.00	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	29,710,000
843-17	Citywide	Data Center UPS Battery Replacement 33/33/34 W/S/D	Replacement of UPS Battery System purchased in 2006.	10.00	49,500			2,475	2,475			49,500			103,950
843-26	Citywide	Server Expansion 33/33/34 W/S/D	Additional Server Purchases	10.00	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	72,600
843-33	Citywide	Personal Computers 33/33/34 W/S/D	Phased replacement of all personal computers throughout the Board	10.00	36,300	9,900	66,000	19,800	13,200	13,200	13,200	66,000	19,800	13,200	270,600
812-07	Citywide	Financial System Replacement 33/33/34 W/S/D	Replacement of Financial system (Budget, A/R, GI, Warehouse, Fixed Assets, etc.)	9.78	825,000	330,000									1,155,000
317-01	Citywide	Network Extensions and Repl of Gravity	SSERP Management	9.71	1,500,000	1,300,000	1,500,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	11,300,000
317-13	Citywide	Network Extensions and Repl of Gravity	SSERP Rehabilitation Repair/Replacement of the sewer system to be performed in conjunction with DPW JIR Program.	9.71	15,000,000	22,000,000	22,000,000	22,000,000	22,000,000	15,000,000	2,000,000	2,000,000			122,000,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>
318-02	Citywide	Rehabilitation of Gravity Sewer System	Restoration of gravity sewer mains by point repair, full line replacement, CIPP lining and paving restoration at scattered sites throughout Orleans parish.	9.67	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	50,000,000
318-03	Citywide	Rehabilitation of Gravity Sewer System	Manhole to Manhole sanitary sewer main replacement at various locations throughout Orleans Parish	9.67	3,300,000	2,000,000	3,300,000	2,000,000	3,400,000	2,000,000	3,500,000	3,500,000	3,500,000	3,500,000	30,000,000
326-03	B, C	Networks Extensions & Repl of Sewage Pumping Stations	SPS A-Replace switchgear followed by repair of 4-60 cycle and 2 25-cycle motors pumping units	9.66	1,000,000	500,000	1,000,000	500,000	1,000,000		500,000	500,000	500,000		5,500,000
843-28	Citywide	Vault Server Refresh 33/33/34 W/S/D	"Refresh/Replace" Vault server	9.66	24,750										24,750
843-32	Citywide	Network UPS Replacement 33/33/34 W/S/D	Replacement of Uninterruptible Power Systems for the Network Devices	9.57	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	66,000
843-19	Citywide	EOC Satellite Hookup-Carrollton 33/33/34 W/S/D	Enhancement of communications during emergencies.	9.53		660									660
824-00	B	Improvements to Central Yard & St. Joseph Street 50/50 W/S	Fumidhing brass water service fittings, meter, boxes, and meter box parts	9.50	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,000	1,084,300	1,084,300	10,840,600
624-01	Citywide	Normal Extensions & Replacements 35/5/60 W/S/D:	Normal Extensions and Replacement to Existing Electrical Distribution, Control, and Utilization Equipment and Facilities as needed to ensure reliability and functional capability of the Power Network.	9.50	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000
843-25	Citywide	Server Refresh 33/33/34 W/S/D	Upgrade and Replacement of all Board Servers as they reach the 5-7 year age	9.48	33,000	16,665	16,665	16,665	16,665	16,665	16,665	16,665	16,665	16,665	182,985
812-14	Citywide	Desktop Software 33/33/34 W/S/D	Upgrades / New Copies of Windows Operating System and New Version of Office; crystal report writer software, etc.	9.46	115,500	165,000		29,700		29,700		29,700			369,600
348-01	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	FBI Exhaust Improvements at EBSTP	9.42	1,500,000										1,500,000
326-12	B, C	Networks Extensions & Repl of Sewage Pumping Stations	Design, engineering services and construction to permanent repair structural for SPS A.	9.32	300,000	2,700,000									3,000,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>
843-39	Citywide	High Volume Scanners 33/33/34 W/S/D	Replacement of High Volume Scanners used for Networks and Revenue documents	9.31	3,300	11,550				3,300	3,300				21,450
843-49		Replace Fiber @ SWB	Replacement of Fiber, boardwide	9.31	49,500										49,500
843-27	Citywide	Oracle Server Refresh 33/33/34 W/S/D	"Refresh /Replace" Oracle Database server	9.13	6,600										6,600
843-38	Citywide	Printers 33/33/34 W/S/D	Replacement Printers	9.13	16,500	6,930	9,900	9,900	6,930	6,930	5,280	5,280	5,280	5,280	78,210
348-02	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Rehabilitate OASIS Trains #1 - 4 at EBSTP	9.08	1,500,000	1,500,000	1,750,000	1,750,000							6,500,000
348-16	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Purchase spare pumps for emergencies: RAS pump, sludge pumps, schwing pumps	9.07	300,000	300,000	500,000	500,000	500,000						2,100,000
326-10	Citywide	Networks Extensions & Repl of Sewage Pumping Stations	Update of SCADA systems for SPSs	9.01	10,000	1,000,000	1,000,000								2,010,000
812-09	Citywide	Windows Server Software and applicable Client Access Licenses 33/33/34 W/S/D	Upgrade of Network server software, and applicable user licenses	9.00	33,000	1,584	9,900	11,385	4,950	4,950	4,950	4,950	4,950	4,950	85,569
812-12	Citywide	Miscellaneous Software 33/33/34 W/S/D	Unspecified software often needed "immediately" by user to complete important project.	9.00	6,930	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	36,630
812-28		Microsoft SCCM	Network Monitoring Software	8.91	24,750										24,750
810-05	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage I Diagnostic equipment and upgraded every other year	8.80	1,650		1,815		1,815						5,280
812-13	Citywide	Web Developer Software 33/33/34 W/S/D	Upgrades and Replacement of software used by web developer for web design and maintenance.	8.76		1,980									1,980

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326-04	Citywide	Networks Extensions & Repl of Sewage Pumping Stations	Miscellaneous Repairs to SPS (Repair of water lines, discharge lines, vacuum lines, bubblers, roofs, doors, fences and storm windows, canopies, paving)	8.75	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
326-05	A	Networks Extensions & Repl of Sewage Pumping Stations	SPS Blvd X-Replace pumps	8.75	500,000										500,000
326-06	A	Networks Extensions & Repl of Sewage Pumping Stations	SPS 1 Replacement - station needs to be relocated and expanded above ground, tied to 800-2	8.75		200,000	2,000,000								2,200,000
326-07	Citywide	Networks Extensions & Repl of Sewage Pumping Stations (33/33/34 W/S/D)	Forensics Structural engineering services for analysis of sewer pump stations	8.75	50,000	40,000	40,000								130,000
348-15	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Install new sludge receiving station to process West Bank Sludge	8.75	200,000										200,000
800-02	A	Property Acquisition 100% S	Land Acquisition for SPS 1; tied to 327-7 S	8.75	500,000	500,000									1,000,000
810-7	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Equipment for Michoud dumping site	8.75	100,000										100,000
810-8	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Proprietary keying system for the entire Board	8.75	166,668										166,668
843-35	H	Board Room AV Renovation 33/33/34 W/S/D	Renovation, upgrade and replacement of Audio-Visual Equipment in the Board Room--microphones, cameras, encoder, etc.	8.72					49,500						49,500
843-14	Citywide	System Wide General Wiring 33/33/34 W/S/D	General Wiring for new data drops and special wiring runs.	8.64	4,950	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	31,350
843-24	Citywide	Security- Badge Reading System Servers and Software 33/33/34 W/S/D	Replacement of Security Badge servers, software, etc.	8.64	127,050	24,750						49,500	33,000		234,300
843-30	Citywide	IP Unified Communication 33/33/34 W/S/D	Voice over IP Telephone System	8.59	8,250										8,250

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843-36	Citywide	Travel AV / Offsite AV Projectors, etc. 33/33/34 W/S/D	Replacement of current and purchase of additional pc projectors and related equipment for use at scattered sites around the Board and offsite from the Board.	8.52	825		825		825		825		825		4,125
843-53		Facility Maintenance Parts Fabricating Equipment	3d printer / scanner	8.48	24,750										24,750
812-12	Citywide	Miscellaneous Software 33/33/34 W/S/D	Unspecified software often needed "immediately" by user to complete important project.	8.46	5,000	7,000	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300	38,400
313-04	A	Networks Extensions and Repl of Sewer FM	Contract 30011 Sewer FM Replacement on Memphis (Fillmore to Lane St.)	8.44	1,700,000										1,700,000
313-06	C	Networks Extensions and Repl of Sewer FM	Replace 20" CI SFM on Holiday from Gen Meyer to Gen DeGaul	8.44		3,600,000									3,600,000
313-07	D	Networks Extensions and Repl of Sewer FM	Replace 18" SFM from Bridge Plaza SPS to Kansas Valve A12V2SS	8.44	1,500,000										1,500,000
313-08	E	Networks Extensions and Repl of Sewer FM	Replace 12" CI Sewer FM on Hayne Blvd from Jourdan Rd to 0Downman Rd to Hayne	8.44	1,500,000										1,500,000
313-10	D	Networks Extensions and Repl of Sewer FM	Replace 24" AC SFM on Morrison Rd from Liggett SPS to Shorewood SPS to Oak island	8.44				6,000,000	6,000,000	6,000,000					18,000,000
348-06	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Improvements to EBSTP Headworks-Repair automation; replace header pipe for north pump house; influent channel cleaning	8.42	750,000	250,000	700,000								1,700,000
812-29		Security Guard Tracking Software	Trak Tek Software	8.35	1,782										1,782
812-10	Citywide	Cassworks Replacement 40/40/20 WSD	Upgrade or Replacement of Cassworks CMMS system	8.33	400,000	600,000	1,500,000								2,500,000
319-01	C	Normal Extension and Replacement of Sewer Mains in Algiers Basin	Installation of Emergency Disconnects at Algiers Sewer Pumping Stations	8.22	500,000	500,000	500,000								1,500,000
843-12	Citywide	Mobile Computing- \$5,000 per truck 50/50 W/S	Purchase of laptop, retrofitting of trucks, etc.	8.19	37,500	12,500	37,500	12,500	5,000	5,000	37,500	12,500	5,000	5,000	170,000
843-37	Citywide	Plotters 33/33/34 W/S/D	Replacement Plotters	8.13	8,250	4,950	4,950				4,950	4,950			28,050

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842-01	Citywide	Revenue Department Equipment Purchases .50/50 W/S	Replace Opex remittance processing and mail extraction equipment	7.90				30,000							30,000
843-54		Scantron Scanner-FOG	Scanning system to read data from restaurants, etc on grease trap cleaning, etc	7.83	9,000										9,000
610-00	A	Additions & Replacement to Underground Power Distribution Feeders 100%	New 60 cycle feed from DPS 1 to DPS 2 to A includes new duct bank from 2 to A; provides reliability	7.79		5,500,000									5,500,000
339-00	Citywide	Network Installation of Sewer Mains in DPW Paving Proj	Installation of sewer mains on DPW Paving contracts-verify payback is in another source	7.68	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	53,000,000
382-00	Citywide	Networks Paving Replacement	Paving of sewer lines	7.68	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
326-02	D, E	Networks Extensions & Repl of Sewage Pumping Stations	SPS 9, 16 and 23 electrical repairs to below grade equipment (Contract 3783) design and construction	7.61					1,000,000						1,000,000
313-02	Citywide	Networks Extensions and Repl of Sewer FM	CCTV of sewer FM	7.60	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
313-03	D, E	Networks Extensions and Repl of Sewer FM	Replacement of: large diameter forcemains	7.60	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000			10,000,000	10,000,000	10,000,000	35,000,000
348-04	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Electrical System Evaluation Study and Upgrades at EBSTP	7.49	1,800,000	600,000	500,000	500,000							3,400,000
348-07	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Improvements to EBSTP Return Activated Sludge	7.49	800,000										800,000
348-09	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Install MOV on influent valves to facilitate faster opening and closing	7.49		180,000									180,000
348-10	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Improvements to Sludge Handling at EBSTP	7.49	200,000										200,000
348-13	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Rehabilitation of Oxygen Reactor Area EBSTP-LOX tank replacement	7.49	150,000			750,000							900,000

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348-17	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Solids Processing: Demolition of Multiple Hearth at EBSTP	7.49	350,000										350,000
348-18	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Install automatic transfer switch for Entergy service to Plant	7.49			400,000								400,000
348-19	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	SCADA System Upgrades at EBSTP	7.49	150,000	150,000		150,000							450,000
348-20	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Grease processing system-install system to process and feed FOG into FBI	7.49				250,000							250,000
348-21	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Rehabilitate belt filter process	7.49				350,000							350,000
348-22	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Actuators for Storm Pump Valves	7.49	120,000										120,000
348-23	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Remove accumulation from Mixed Liquor channel at exit of bio-reactors	7.49				150,000							150,000
843-44	Citywide	Disaster Recovery / Failover Site	Duplicate hardware for all Cogsdale systems; AC, Fire Suppression, Water Proofing Data Room at Carrollton	7.47	115,500										115,500
326-13	A	Networks Extensions & Repl of Sewage Pumping Stations	SPS 21 repair to wiring of high level unit	7.44	100,000										100,000
348-14	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Replace main air compressor at EBSTP	7.35			180,000								180,000

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381-03	C	Improvements to the WBSTP	Construction of NaHOCl tank storage system & pump delivery; eliminating storage of liquid chlorine, Contract 3606	7.35	1,000,000										1,000,000
348-11	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Miscellaneous capital need for EBSTP - Plant wide alarm system, painting and repairs, bracing for generator building door	7.31	210,000	75,000	75,000	75,000	75,000						510,000
326-09	C	Networks Extensions & Repl of Sewage Pumping Stations	Park Timbers SPS- elevate electrical switchgear	7.27			200,000								200,000
348-12	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Final Clarifier Improvements EBSTP-line the influent line from the OASIS to clarifiers, replace drive units	7.24	550,000	440,000	700,000	550,000							2,240,000
613-07	Citywide	Modifications to the Power Generating System 35/5/60 W/S/D	Inspect and refurbish Turbine No 1	7.24				50,060	450,000						500,060
843-56		Network Backup Redesign	Additional hardware storage for network	7.19	33,000										33,000
326-14	C	Networks Extensions & Repl of Sewage Pumping Stations	Huntlee SPS - rehabilitation of station	7.19			500,000								500,000
810-01	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (large trucks, cranes, etc.)	7.18	3,833,334	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	7,523,334
812-30		Document Control Software- GP Systems	Software System to efficiently catalog all files attached into Cogsdale / GP systems	7.14	36,300	4,950									41,250
823-00	Citywide	Purchase of Water Meters 50/50 W/S	Replace or install new water meters	7.13	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	1,000,000	1,000,000	1,000,000	14,000,000
326-11	C	Networks Extensions & Repl of Sewage Pumping Stations	Garden Oaks SPS- elevate electrical switchgear	7.10				200,000							200,000
326-15	C	Networks Extensions & Repl of Sewage Pumping Stations	Horace SPS - rehabilitation of station	7.10			500,000								500,000
326-16	C	Networks Extensions & Repl of Sewage Pumping Stations	Holiday SPS - rehabilitation of station	7.10	500,000										500,000
613-11	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Repairs to CWPP Frequency Changer	7.10		150,000	5,000								155,000

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812-26		Alertus Software	Software for Security Dept	7.09	3,300										3,300
313-12	Citywide	Networks Extensions and Repl of Sewer FM	Replacing water hydraulic operated valve/operations throughout system: By SPS A: 269V04SS, 269V05SS, 269V06SS, 269V07SS, 269V08SS, 269V09SS, 269V10SS, 269V11SS, 269V14SS; SPS B: 435V1SS; on Florida Ave just west of St Bernard Ave (Lakeview SFM); 293V5SS; A17V1SS at Gen Meyer and Holiday; 387V1SS Florida and Metropolitan, 54"; 432V1SS Bulk Terminal, 54"; Install new 54" valve on Dodt and Dwyer ; 482V1SS Bullard and Dwyer; 231V1SS, 231V2SS, 231V3SS Brooks and Memphis St.; 508V3SS Shorewood	6.99	500,000	500,000	2,000,000	500,000	2,000,000	500,000	2,000,000	2,000,000	2,000,000	2,000,000	14,000,000
613-17	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Structural design and repairs to water treatment system in Power House	6.97		6,000	54,000								60,000
807-01	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Joseph: Replace 2nd floor IT air conditioning unit pumps, drive motors and controls	6.96	2,000,000										2,000,000
381-01	C	Improvements to the WBSTP	Westbank Sewage Treatment Plant Expansion	6.91									650,000	7,000,000	7,650,000
381-04	C	Improvements to the WBSTP	Rehabilitate clarifiers	6.91			200,000	85,000							285,000
381-05	C	Improvements to the WBSTP	Miscellaneous Repairs at WBSTP (repairs to #2 air compressor)	6.91	100,000										100,000
381-06	C	Improvements to the WBSTP	Headworks Repair at WBSTP (grit pump replacement, install weir covers)	6.91	50,000	200,000									250,000
381-07	C	Improvements to the WBSTP	Effluent Pumps Repair at WBSTP	6.91	35,000	35,000	35,000								105,000
381-08	C	Improvements to the WBSTP	Trickling Filter Improvements at WBSTP- Main Pump Rehabilitation	6.91	120,000	120,000		125,000							365,000
381-10	C	Improvements to the WBSTP	Emergency Generator and Switchgear at WBSTP	6.91		985,000									985,000
381-13	C	Improvements to the WBSTP	Solids Handling Improvements at WBSTP	6.91		250,000									250,000
381-15	C	Improvements to the WBSTP	Stormwater Management at WBSTP	6.91						2,500,000					2,500,000

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348-03	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Pave Access Road from Florida Ave to Plant Gate; paving inside the plant	6.82		100,000		200,000							300,000
807-07	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace window seals (Atrium is leaking)	6.75	6,600	6,600									13,200
807-14	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Install new fencing from Garage I to Gas Station	6.75	6,600										6,600
807-16	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace electric gate near warehouse	6.75	16,500										16,500
807-06	H	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Replace/repair west hydraulic elevator	6.57	51,150										51,150
317-02	Citywide	Network Extensions and Repl of Gravity	Sewer extension	6.41	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
317-03	Citywide	Network Extensions and Repl of Gravity	CCTV of gravity sewers	6.41	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
843-51		Data Center Re-Organization	Data Center Rack Renewal, Shelving, etc	6.40	4,950										4,950
313-11	D	Networks Extensions and Repl of Sewer FM	Replace 16" AC SFM from Paris Rd SPS to Chef Menteur	6.17							6,000,000				6,000,000
807-15	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Central Yard: Install security system, including cameras in Warehouse, replace card access, etc.	6.10			100,000								100,000
313-05	D	Networks Extensions and Repl of Sewer FM	Replace Sewer FM from Folgers to Michoud SPS	5.90			3,600,000								3,600,000
843-48		Smart Boards: EOC	Smart Board displays for EOC / CY Alternative Emergency Operations Center	5.85	9,900										9,900
810-06	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage I Replacement of 2 hydraulic lifts	5.80							16,500	16,350	16,500	16,500	65,850
810-07	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage II Replacement of 2 heavy equipment lift for wheel alignment, front end rack	5.80						16,500	16,500	16,500	16,500	16,500	82,500
843-01	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (small trucks, cars, etc.) at 15 each year	5.80	500,000	200,000	200,000	220,000	220,000	240,000	240,000	260,000	260,000	280,000	2,620,000

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313-01	Citywide	Networks Extensions and Repl of Sewer FM	Condition assessment, rehab & replace of sewer force mains	5.79	2,000,000	1,000,000	2,250,000	1,000,000	2,250,000	1,000,000	2,250,000	2,250,000	1,000,000	1,000,000	16,000,000
843-50		Specialty Printers-EOC	Large Printer/Scanner/ Copier Machines	5.67	1,815										1,815
843-47	Citywide	A V Systems at Carrollton and Central Yard	Install A V system similar to Board Room system at Carrollton and upgrade A V in CY conference room	5.67	39,600							19,800	19,800	19,800	99,000
807-05	D	Improvements to Central Yard & St. Joseph Street FEMA 33/33/34 W/S/D	St. Josephs: Replace elevator controls, cable and governance of east elevator.	5.63	100,000										100,000
843-52		Wide Format Printer / Scanner	Printer Scanner for Facility Maintenance Drawings	5.57	8,250										8,250
843-47	Citywide	A V Systems at Carrollton and Central Yard	Install A V system similar to Board Room system at Carrollton and upgrade A V in CY conference room	5.53	50,000										50,000
812-03	Citywide	Computer Systems Development 33/33/34 W/S/D	Support Services: Replace or upgrade Cyndrus vehicle management system	5.47			165,000								165,000
807-04	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replace plumbing in the 18 restrooms floor by floor	5.43	40,000	6,800	7,000								53,800
807-12	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Secure perimeter with new chain link fence. Includes deep footing for support and security.	5.43	33,000										33,000
807-02	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replacement of switchgear upgrade and automatic transfer switch and house generator	5.40	660,000										660,000
808-02	E	Improvements to Customer Service Satellite Stations 50/50 W/S	Rental for new Orleans East Satellite Bldg	5.33	100,000										100,000
381-02	C	Improvements to the WBSTP	Construction of containment levee and DPS, Contract 3602.	5.11			2,700,000								2,700,000
319-02	C	Normal Extension and Replacement of Sewer Mains in Algiers Basin	Design, engineering, const mgmt., const, testing, inspect and certification for the rehab of the sanitary sewer manholes and line segments within the Algiers Basin	5.02	1,500,000	1,500,000	2,500,000	2,500,000	3,000,000	3,000,000	3,000,000	3,000,000			20,000,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>
348-05	Citywide	Normal Extensions and Replacements - Waste Water Treatment Plants (Eastbank)	Replace Utility water pumps and strainers	5.00					275,000						275,000
807-13	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Renovation of old warehouse	5.00							33,500	330,000			363,500
843-06	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Grounds Maintenance: Posthole driver, iron wheel for curve edges	5.00	33,000										33,000
358-00	Citywide	WWTP Normal Extensions & Replacements	Capacity analysis and evaluation EBSTP	4.87			10,000								10,000
807-22	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Repaving of parking lot	4.54	33,000										33,000
812-01	Citywide	Computer Systems Development 33/33/34 W/S/D	Warehouse: Install scanning equipment for inventory, labeling barcodes and associated software	4.54	3,300										3,300
843-41	C	New West Bank Yard 33/33/34 W/S/D	Design and construction of new west bank yard, include land acquisition	3.93					500,000	500,000	2,000,000				3,000,000
843-42	Citywide	Update Network Infrastructure	Purchase of new routers and switches beyond useful life	3.93	4,950	4,950	6,600	6,600	6,600	6,600	6,600	6,600	6,600	6,600	62,700
812-02	Citywide	Computer Systems Development 33/33/34 W/S/D	Fuel Islands: Replace existing fuel access system	3.92		165,000									165,000
807-21	D	Improvements to Central Yard & St. Joseph Street FEMA 33/33/34 W/S/D	Central Yard: Body Shop and Garage renovation by raising to safe water level Currently unfunded by FEMA	3.81		660,000									660,000

<u>Capital Project</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>TOTAL 2017-2026</u>	
808-01	C	Improvements to Customer Service Satellite Stations 50/50 W/S	Installation of security cameras and access cards	3.75		200,000									200,000	
807-17	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Fuel Island -Provide for installation of canopy and lights	3.49			16,500					330,000	330,000	330,000	1,006,500	
807-18	D	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard: Fuel Island -Upgrade or replace fuel island	3.12							330,000				330,000	
TOTAL						\$90,748,714	\$82,551,562	\$79,585,415	\$68,455,845	\$68,189,720	\$55,071,605	\$45,269,030	\$49,375,055	\$41,146,980	\$47,023,255	\$627,417,181
TOTAL SEWERAGE CAPITAL PROGRAM					\$	111,943,714	\$ 92,303,495	\$ 84,870,415	\$ 75,596,872	\$ 72,894,720	\$ 59,776,605	\$ 46,304,030	\$ 50,410,055	\$ 42,181,980	\$ 48,058,255	\$ 684,340,141

2017 - 2026 Drainage Capital Fund

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 TEN-YEAR CAPITAL PROGRAM
 DRAINAGE DEPARTMENT (x \$1000)

C.P.# CANALS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM
418 Normal Extensions & Replacements	\$730	\$730	\$730	\$730	\$730	\$730	\$730	\$730	\$730	\$730	\$7,300
439 Major Drainage Participation in D P W Projects	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
453 Improvements to Metairie Relief Canal (S&WB 76% Part.)	5,500	0	0	0	0	0	0	0	0	0	5,500
466 Louisiana Avenue Canal (SELA)	250	500	500	0	0	0	0	0	0	0	1,250
471 SELA Program Management (**)	1,500	1,500	1,500	1,500	1,500	0	0	0	0	0	7,500
478 So. Claiborne-Lowerline To Monticello St. (SELA)	575	500	0	0	0	0	0	0	0	0	1,075
483 Airline and Monticello Canal Improvements	0	0	50	228	22,800	380	0	720	7,200	120	31,498
486 Napoleon Avenue Canal Improvements (SELA)	300	250	0	0	0	0	0	0	0	0	550
492 Donner Canal Improvements (SELA)	250	2,500	2,500	0	75,000	75,000	75,000	75,000	0	0	305,250
496 General De Gaulle Canal (SELA)	0	35,000	3,375	0	0	0	0	0	0	0	38,375
497 Florida Avenue Canal - DPS # 19 to Peoples (SELA)	910	300	0	0	0	0	0	0	0	0	1,210
498 Dwyer Intake Canal (St. Charles Canal to Dwyer DPS) (SELA)	25	0	0	0	0	0	0	0	0	0	25
499 Jefferson Avenue Canal (SELA)	530	515	0	0	0	0	0	0	0	0	1,045
TOTAL DRAINAGE CANALS	\$12,570	\$43,795	\$10,655	\$4,458	\$102,030	\$78,110	\$77,730	\$78,450	\$9,930	\$2,850	\$420,578
C.P.# PUMPING STATIONS											
511 Normal Extensions & Replacements - Stations	\$15,700	\$13,310	\$20,186	\$20,240	\$14,640	\$20,880	\$3,380	\$3,435	\$45,579	\$16,707	\$174,057
512 Expansion of DPS #15	0	0	1,200	14,500	0	0	0	0	0	0	15,700
535 DPS # 6 Improvements	604	264	264	1,504	0	0	0	0	8,500	16,500	27,636
546 DPS #4 West - Build a 1000 CFS Station (SELA)	0	0	0	0	0	0	0	0	0	23,182	23,182
573 DPS # 13 Improvements (SELA)	0	0	0	440	7,000	34,050	10,000	0	0	0	51,490
575 Hurricane Recovery Bonds	1,600	0	0	0	0	0	0	0	0	0	1,600
578 Permanent Pump Stations at the Lake,Elaine DPS Repairs	0	0	200	0	0	0	0	0	0	0	200
TOTAL DRAINAGE PUMPING STATION	17,904	13,574	21,850	36,684	21,640	54,930	13,380	3,435	54,079	56,389	293,865
600 Drainage Share of Power Projects	30,574	15,066	11,918	14,101	12,430	18,630	14,980	1,480	1,480	1,480	122,139
703 Drainage Reserve for Emergencies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
800 Drainage Share of General Budget Items	16,481	8,357	7,784	6,506	6,965	6,126	7,435	6,749	6,469	6,249	79,121
TOTAL DRAINAGE DEPARTMENT	\$79,529	\$82,792	\$54,207	\$63,749	\$145,065	\$159,796	\$115,525	\$92,114	\$73,958	\$68,968	\$935,703

**Drainage Department
2017-2026
Capital Improvement Program Financing**

Line No	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Funds Available at Beginning of Year	5,010,900	109,600	26,300	85,800	85,000	90,200	14,700	13,700	47,700	66,100
2	Revenue Bond Proceeds	0	0	0	0	0	0	0	0	0	0
3	Operation Fund Transfers	0	0	0	0	0	0	0	0	0	0
4	Participation by Others	20,090,000	36,903,000	17,500,000	6,730,000	51,243,000	65,828,000	56,632,000	56,912,000	27,338,000	18,782,000
5	Interest Income	25,700	700	500	1,200	1,200	500	0	0	400	1,200
6	Total Funds Available	25,126,600	37,013,300	17,526,800	6,817,000	51,329,200	65,918,700	56,646,700	56,925,700	27,386,100	18,849,300
7	Major Capital Additions	(47,717,000)	(81,487,000)	(65,641,000)	(59,932,000)	(112,539,000)	(153,904,000)	(133,233,000)	(101,478,000)	(81,220,000)	(70,964,000)
8	Deferred Capital Improvements	22,700,000	44,500,000	48,200,000	53,200,000	61,300,000	88,000,000	76,600,000	44,600,000	53,900,000	52,200,000
9	Bond Issuance Expense	0	0	0	0	0	0	0	0	0	0
10	Revenue Bond Reserve Fund	0	0	0	0	0	0	0	0	0	0
11	Total Application of Funds	(25,017,000)	(36,987,000)	(17,441,000)	(6,732,000)	(51,239,000)	(65,904,000)	(56,633,000)	(56,878,000)	(27,320,000)	(18,764,000)
12	End of Year Balance	109,600	26,300	85,800	85,000	90,200	14,700	13,700	47,700	66,100	85,300

**Drainage Department
2017-2026
Projected Revenue Requirements**

Line No	Description	Fiscal Year Ending December 31,									
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Tax Revenue	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400	35,703,400
2	Other Revenue	1,345,000	1,330,800	1,280,700	1,192,900	1,076,700	1,009,000	1,009,000	1,009,000	1,009,000	1,009,000
3	Total Operating Revenue	37,048,400	37,034,200	36,984,100	36,896,300	36,780,100	36,712,400	36,712,400	36,712,400	36,712,400	36,712,400
4	Operation & Maintenance	(34,452,400)	(39,605,900)	(40,914,100)	(42,261,600)	(43,649,400)	(45,078,900)	(46,551,300)	(48,067,800)	(49,629,900)	(51,238,700)
5	Non-Cash Expense Accruals	(714,068)	(714,068)	(714,068)	(714,068)	714,068	714,068	714,068	714,068	714,068	714,068
6	Net Operating Revenue	1,881,932	(3,285,768)	(4,644,068)	(6,079,368)	(6,155,232)	(7,652,432)	(9,124,832)	(10,641,332)	(12,203,432)	(13,812,232)
	Debt Service										
	Senior Lien Revenue Bonds										
7	Existing	(2,024,100)	(2,028,400)	(2,028,600)	(2,036,000)	(2,062,100)	(874,600)	0	0	0	0
8	Projected	0	0	0	0	0	0	0	0	0	0
9	Subtotal	(2,024,100)	(2,028,400)	(2,028,600)	(2,036,000)	(2,062,100)	(874,600)	0	0	0	0
10	Gulf Opportunity Zone Act Loan	(407,600)	(407,600)	(407,600)	(407,600)	(407,600)	(407,600)	(407,600)	(407,600)	(407,600)	(203,300)
11	SELA Capital Repayment	0	0	(1,251,900)	(3,850,800)	(3,850,800)	(8,803,000)	(8,803,000)	(8,803,000)	(8,803,000)	(8,803,000)
12	Total Debt Service	(2,431,700)	(2,436,000)	(3,688,100)	(6,294,400)	(6,320,500)	(10,085,200)	(9,210,600)	(9,210,600)	(9,210,600)	(9,006,300)
13	Other Non-Operating Revenue	969,156	969,156	969,156	969,156	969,156	969,156	969,156	969,156	969,156	969,156
14	Transfer to Construction	0	0	0	0	0	0	0	0	0	0
15	Due from (to) Other Departments	(921,000)	0	0	0	0	0	0	0	0	0
16	Transfer to Operating Reserve Fund	(316,800)	731,300	(635,400)	(161,300)	(166,100)	(171,100)	(176,200)	(181,500)	(187,000)	(192,600)
17	Net Annual Balance	(818,412)	(4,021,312)	(7,998,412)	(11,565,912)	(11,672,676)	(16,939,576)	(17,542,476)	(19,064,276)	(20,631,876)	(22,041,976)
18	Beginning of Year Cash Balance (b)	36,274,206	35,455,794	31,434,482	23,436,070	11,870,158	197,482	(16,742,094)	(34,284,570)	(53,348,846)	(73,980,722)
19	End of Year Balance	35,455,794	31,434,482	23,436,070	11,870,158	197,482	(16,742,094)	(34,284,570)	(53,348,846)	(73,980,722)	(96,022,698)
20	Beginning of Year Cash Balance	40,936,306	40,117,894	36,096,582	28,098,170	4,799,816	(6,872,860)	(23,812,436)	(41,354,912)	(60,419,188)	(81,051,064)
21	Operating Reserve Fund	0	0	0	0	0	0	0	0	0	0
22	Net annual Balance	(818,412)	(4,021,312)	(7,998,412)	(11,565,912)	(11,672,676)	(16,939,576)	(17,542,476)	(19,064,276)	(20,631,876)	(22,041,976)
23	End of Year Balance	40,117,894	36,096,582	28,098,170	16,532,258	(6,872,860)	(23,812,436)	(41,354,912)	(60,419,188)	(81,051,064)	(103,093,040)
24	Days of O&M Cash on Hand	425	333	251	143	(57)	(193)	(324)	(459)	(596)	(734)
25	Annual Test (c)	1057.5%	1055.2%	1055.1%	1051.3%	1038.0%	2447.3%	N/A	N/A	N/A	N/A
26	Additional Bonds Test (d)	1046.7%	1046.7%	1046.7%	1046.7%	1046.7%	N/A	N/A	N/A	N/A	N/A

(a) The Three-Mill Ad Valorem Tax expired in 2016.

(b) Reflects beginning of year balance in unrestricted and undesignated cash and cash equivalents and cash and cash equivalents designated for capital projects, less operating reserve requirement.

(c) The General Bond Resolution requires Nine-Mill Ad Valorem Tax Revenue to equal or exceed 100% of annual debt service.

(d) The General Bond Resolution requires Nine-Mill Ad Valorem Tax Revenue to equal or exceed 133% of maximum annual debt service.

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 DRAINAGE DEPARTMENT (x \$1000)
 SUPPORTING SCHEDULE OF PARTICIPATION BY OTHERS

C. P. #	PARTICIPATION BY OTHERS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL TEN-YEAR PROGRAM	
418	Normal Extensions & Replacements	\$230	\$230	\$230	\$230	\$230	\$230	\$230	\$230	\$230	\$230	\$2,300	Force Acct
453	Improvements to Metairie Relief Canal (S&WB 76% Part.)	500	0	0	0	0	0	0	0	0	0	500	Jeff Parish
483	Airline and Monticello	0	0	50	228	22,800	380	0	720	7,200	120	31,498	Jeff Parish
492	Donner Canal Improvements (SELA)	0	0	0	0	56,250	56,250	56,250	56,250	0	0	225,000	C O E
496	General DeGaulle Canal (SELA)	0	26,250	2,500	0	0	0	0	0	0	0	28,750	C O E ; RPC
511	Normal Extensions & Replacements - DPS	5,500	0	0	0	0	0	0	0	0	0	5,500	FEMA
535	DPS # 6 Improvements	264	264	264	144	0	0	0	0	0	8,000	8,936	Jeff Parish
546	DPS # 4 West - Build a 1000 CSF Station (SELA)	0	0	0	0	0	0	0	0	0	18,000	18,000	C O E
575	Hurricane Recovery Bonds	1,600	0	0	0	0	0	0	0	0	0	1,600	FEMA
613	Modifications to Power Generating System	459	0	0	0	0	0	0	0	0	0	459	C O E
676	Modifications to Power Generating System HMGP	24,580	12,439	0	8,586	0	0	0	0	0	0	45,605	FEMA
807	Improvements to Central Yard & St Joseph St	350	0	0	0	0	0	0	0	0	0	350	FEMA
TOTAL ANTICIPATED PARTICIPATION		\$33,483	\$39,183	\$3,044	\$9,188	\$79,280	\$56,860	\$56,480	\$57,200	\$7,430	\$26,350	\$368,498	
DRAINAGE PARTICIPATION CASH FLOW		\$20,090	36,903	17,500	6,730	51,243	65,828	56,632	56,912	27,338	18,782	357,958	

SEWERAGE AND WATER BOARD OF NEW ORLEANS
 DRAINAGE DEPARTMENT (x \$1000)
 2017 CAPITAL PROGRAM BY QUARTER

C.P.# DRAINAGE CANALS	2017 TOTAL PROGRAM	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
418 Normal Extensions & Replacements	\$730	\$183	\$183	\$183	\$183
439 Major Drainage Participation in D P W Projects	2,000	500	500	500	500
453 Improvements to Metairie Relief Canal (S&WB 76% Part.)	5,500	1,375	1,375	1,375	1,375
466 Louisiana Avenue Canal (SELA)	250	63	63	63	63
471 SELA Program Management (**)	1,500	375	375	375	375
478 So. Claiborne-Lowerline To Monticello St. (SELA)	575	144	144	144	144
486 Napoleon Avenue Canal Improvements (SELA)	300	75	75	75	75
492 Donner Canal Improvements (SELA)	250	63	63	63	63
496 General De Gaulle Canal (SELA)	0	0	0	0	0
497 Florida Avenue Canal - DPS # 19 to Peoples (SELA)	910	228	228	228	228
498 Dwyer Intake Canal (St. Charles Canal to Dwyer DPS) (SELA)	25	6	6	6	6
499 Jefferson Avenue Canal (SELA)	530	133	133	133	133
TOTAL DRAINAGE CANALS	12,570	3,143	3,143	3,143	3,143
C.P.# DRAINAGE PUMPING STATIONS					
511 Normal Extensions & Replacements - Stations	15,700	3,925	3,925	3,925	3,925
512 Expansion of DPS #15	0	0	0	0	0
535 DPS # 6 Improvements	604	151	151	151	151
546 DPS #4 West - Build a 1000 CFS Station (SELA)	0	0	0	0	0
573 DPS # 13 Improvements (SELA)	0	0	0	0	0
575 Hurricane Recovery Bonds	1,600	400	400	400	400
578 Permanent Pump Stations at the Lake,Elaine DPS Repairs	0	0	0	0	0
TOTAL DRAINAGE PUMPING STATION	17,904	4,476	4,476	4,476	4,476
600 Drainage Share of Power Projects	30,574	7,644	7,644	7,644	7,644
703 Drainage Reserve for Emergencies	2,000	500	500	500	500
800 Drainage Share of General Budget Items	16,481	4,120	4,120	4,120	4,120
TOTAL DRAINAGE DEPARTMENT	\$79,529	\$19,882	\$19,882	\$19,882	\$19,882

Sewerage and Water Board of New Orleans

Drainage (w/Gen/Pow) Capital Projects Prioritization 2017-26

Funded by Participation by Others															
Capital Project #	Council District	Capital Project Title	Description	Calculated Score	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total 2017-2026
418-02	Citywide	Normal Extensions & Repairs of Canals	Force Account Work that will be funded 100% via participation by others (developers, property owners, etc.)	10.00	230,000	230,000	230,000	230,000	230,000	230,000	230,000	230,000	230,000	230,000	2,300,000
453-00	A	Metairie Relief Canal - Jefferson Parish	Widen the existing Metairie Relief Canal from Palmetto to Airline Highway. Jefferson Parish has proposed this project. SWBNO 76% / Jefferson parish 24% (\$10,000,000)	10.00	500,000										500,000
483-00	A	Airline and Monticello Jefferson Parish Portion	Construction of a new canal at Airline Drive in coordination with Jefferson Parish. This project will include crossing Airline Drive and will complete the improvements to the Monticello Canal. SWBNO 76%, Jefferson 24% - \$33.5M Scheduling this work must be coordinated with Jefferson Parish and Project 453	10.00			50,000	228,000	22,800,000	380,000		720,000	7,200,000	120,000	31,498,000
492-00	C	SELA Algiers Drainage Improvements - Estimated Total Program Cost \$300M (75% Federal Cost Share)	Engineering, construction and inspection including channel excavation, construction of new culverts, and construction of concrete open canal flumes associated with the Donner, Algiers Outfall and Nolan Canals. This work is included in the proposed Algiers Basin - Plan E drainage improvement area. Eng. Est. \$300,000,000 Corps of Engineer SELA Program 75%	7.74					56,250,000	56,250,000	56,250,000	56,250,000			225,000,000
496-01	C	General DeGaulle Canal Improvements: Construction of Concrete Flume from Sandra to Behrman Pl excluding already completed crossings - Estimated Total Program Cost \$35M (75% Cost Share)	Design, construction and inspection of drainage improvements within the General DeGaulle right of way. This work is included in the overall Algiers Basin-Plan E improvement area. Eng. Est. \$300,000,000 Corps of Engineer SELA Program 75%	7.74		26,250,000	2,500,000								28,750,000
511-01	D	Normal Extensions & Replacement-DPS FEMA	DPS 17/Station "D" - Structural repairs of the building (rollup door), upgrade HVAC at the drainage and sewerage operations offices (FEMA)	10.00	5,500,000										5,500,000
535-01	A	Improvements at DPS 6 - Jefferson Parish portion (24% of \$500K)	DPS 6 - Repairs and Modifications to Vertical Pumps 1, 2 & 3	6.49	120,000	120,000	120,000								360,000

<u>Capital Project #</u>	<u>Council District</u>	<u>Capital Project Title</u>	<u>Description</u>	<u>Calculated Score</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>Total 2017-2026</u>
535-02	A	Major Improvements at DPS 6 - Jefferson Parish portion (24% of \$25M)	DPS 6 - Additional 2000 cfs capacity	6.49									8,000,000		8,000,000
535-03	A	Facility Improvements at DPS 6 - Jefferson Parish Portion (24% of \$600K)	DPS - Various facility repairs outside of pumps and motors	5.10	144,000	144,000	144,000	144,000							576,000
546-00	D	New Drainage Station 4W COE (24% Federal Cost Share)	DPS 4W - A new drainage facility is required to supplement the western portion of the drainage basin served by DPS 4. This station will have 1000 cfs capacity with 100% on-site power generation. This project (Contract 5140) is in the construction phase. Costs are associated with engineering services during construction. Design is nearly complete by Design Engineering, Inc. with funding to be provided under the future COE SELA program \$22M.	5.57										18,000,000	18,000,000
575-01	Citywide	Water Hurricane Recovery Bond FEMA (33/33/33 W/S/D)	Labor for Maintenance Services FEMA	10.00	600,000										600,000
575-02	Citywide	Water Hurricane Recovery Bond FEMA (100%)	Installation of new generators at the various underpass drainage pumping stations	10.00	1,000,000										1,000,000
613-01	Citywide	Modifications to the Power Generating System FEMA 100% under Public Assistance Program	Contract 1350-Rehab/replace Turbine #4 Steam Path, condenser, Rotor (This 20 Megawatt unit is currently available for emergency use with a reduced capacity of 8,000 KW); install 8 transmitters tied into high lift chart readers; update governor control system	10.00	300,000										300,000
613-02	Citywide	Modifications to the Power Generating System FEMA funded under Public Assistance Program	Contract 1378- Rehab of Boilers 1 and 3, Duct and Elevators (FEMA)	10.00	159,000										159,000
676-01	Citywide	Modifications to the Power Generating System FEMA under the HMGP (FEMA funding topped at \$150M). All costs exceeding \$150M cap must come from SWBNO System Funds. (.53D/.34W/.13S)	Contract 1370 Retrofit Boilers 1, 3 - 6 including auxiliary equipment/ electrical and I&C systems (HMGP)	10.00	23,850,000										23,850,000

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676-02	Citywide	Modifications to the Power Generating System, FEMA under the HMGP (FEMA funding topped at \$150M). All costs exceeding \$150M cap must come from SWBNO System Funds. (53D/34W/13S)	Contract 1373 Refurbish Turbine 3, including controls upgrade (HMGP)	10.00		11,908,798									11,908,798											
676-03	Citywide	Modifications to the Power Generating System, FEMA under the HMGP (FEMA funding topped at \$150M). All costs exceeding \$150M cap must come from SWBNO System Funds. (53D/34W/13S)	Contract 1372 Refurbish Turbine 5, including controls upgrade (HMGP)	10.00				8,586,110							8,586,110											
676-07	Citywide	Modifications to the Power Generating System 100% D HMGP	Contract 1371 Hardening of power plant including inspecting and refurbishing the overhead cranes at low lift, structural repairs to the boiler room	10.00	200,000										200,000											
676-08	Citywide	Modifications to the Power Generating System 100% D HMGP	Contract 1369 Rehabilitation of current above ground fuel storage tank to provide seven (7) days of fuel for boilers, and turbines	10.00	265,000	265,000									530,000											
676-09	A, B	Additions & Replacement to Underground Power Distribution Feeders HMGP	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	265,000	265,000									530,000											
807-19	D	Improvements to Central Yard & St. Joseph Street FEMA 33/33/34 W/S/D	Central Yard: Repairs/replacement of Garage 1 & 2, Body Shop, including frame rack, paint booth, shop equipment FEMA	10.00	350,000										350,000											
Total Drainage Capital Program - Funded by Others					\$	33,483,000	\$	39,182,798	\$	3,044,000	\$	9,188,110	\$	79,280,000	\$	56,860,000	\$	56,480,000	\$	57,200,000	\$	7,430,000	\$	26,350,000	\$	368,497,907

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Funded by Sewerage & Water Board of New Orleans															
466-04	B	Louisiana Avenue Canal Entergy Temporary Relocations & S&WB Forensic Engineering (20/20/60 -W/S/D)	Construction of covered canal in Louisiana Avenue right of way from S Claiborne to Constance. This project will be constructed as a single project and take five years to complete. Paving costs associated with this construction project will be paid by DPW construction and engineering) and are currently estimated at \$22 million. The estimate for damage claims is listed under Extra Work. Eng. Est. \$123,000,000 Corps of Engineer SELA Program 65%	10.00	250,000	500,000	500,000								1,250,000
478-01	A	S. Claiborne Ave Canal Phase I (Monticello St to Leonidas St) - Contract 4180CE SWBNO Engineering Fees	Design, const & inspection of new drainage canal on S. Claiborne between Lowerline & Monticello. This work will be completed in two phases (Contract 4180CE). Construction will take four years to complete. Extra Work is consultant costs, damage claims and landscaping. Corps of Engineer SELA Program. 65%	10.00	50,000										50,000
478-01	A	S. Claiborne Ave Canal Phase I (Monticello St to Leonidas St) - Contract 4180CE Entergy Temporary Relocations & S&WB Forensic Engineering (20/20/60)	Design, const & inspection of new drainage canal on S. Claiborne between Lowerline & Monticello. This work will be completed in two phases (Contract 4180CE). Construction will take four years to complete. Extra Work is consultant costs, damage claims and landscaping. Corps of Engineer SELA Program. 65%	10.00	250,000	250,000									500,000
478-02	A	S. Claiborne Ave Canal Phase II (Leonidas St to Lowerline St) - Contract 4181CE SWBNO Engineering Fees	Design, const & inspection of new drainage canal on S. Claiborne between Lowerline & Monticello (Contract 4181CE) Construction in each phase will take four years to complete. Extra Work is for consultant, damage claims and landscaping in each phase. Corps of Engineer SELA Program 65%	10.00	25,000										25,000
478-02	A	S. Claiborne Ave Canal Phase II (Leonidas St to Lowerline St) - Contract 4181CE Entergy Temporary Relocations & S&WB Forensic Engineering	Design, const & inspection of new drainage canal on S. Claiborne between Lowerline & Monticello (Contract 4181CE) Construction in each phase will take four years to complete. Extra Work is for consultant, damage claims and landscaping in each phase. Corps of Engineer SELA Program 65%	10.00	250,000	250,000									500,000

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486-01	B	Napoleon Ave Canal Phase II(S Claiborne Ave to Carondelet St) - Contract 4176CE <u>SWBNO - Engineering Fees</u>	Design, construction and inspection of an additional canal in Napoleon Avenue right of way to increase the drainage capacity in the Uptown Basin (Contract 4176CE) Const. will take two years to complete. Contract Award \$55,121,351 Corps of Engineer SELA Program 65%	10.00	25,000										25,000
486-01	B	Napoleon Ave Canal Phase II (S Claiborne Ave to Carondelet St) - Contract 4176CE Entergy Temporary Relocations & S&WB Forensic Engineering (20/20/60)	Design, construction and inspection of an additional canal in Napoleon Avenue right of way to increase the drainage capacity in the Uptown Basin (Contract 4176CE) Const. will take two years to complete. Contract Award \$55,121,351 Corps of Engineer SELA Program 65%	10.00	150,000	150,000									300,000
486-02	B	Napoleon Ave Canal Phase III (Carondelet St to Constance) - Contract 4177CE <u>SWBNO Engineering Fees</u>	Design, construction and inspection of an additional canal in Napoleon Avenue right of way to increase the drainage capacity in the Uptown Basin (Contract 4177CE) Construction will take two years to complete. Eng. Est. \$46,101,745 Corps of Engineer SELA Program 65%	10.00	25,000										25,000
486-02	B	Napoleon Ave Canal Phase III (Carondelet St to Constance) - Contract 4177CE Entergy temporary relocations & S&WB Forensic Engineering (20/20/40)	Design, construction and inspection of an additional canal in Napoleon Avenue right of way to increase the drainage capacity in the Uptown Basin (Contract 4177CE) Construction will take two years to complete. Eng. Est. \$46,101,745 Corps of Engineer SELA Program 65%	10.00	100,000	100,000									200,000
497-01	D	Florida Avenue Canal Phase I (DPS No. 19 to Mazant St) - Contract 4160CE <u>SWBNO</u>	Costs associated with construction of Phase I (DPS No. 19 to Mazant St - Contract 4160CE) Corps of Engineer SELA Program 100%	10.00	10,000										10,000
498-00	E	Dwyer Intake Canal Improvements - Contract 4173CE	This project (Contract 4173CE) is currently under construction. Consulting fees are associated with engineering design during construction. Funding for claims is including in Extra Work.	10.00	25,000										25,000
499-01	A, B	Jefferson Ave Canal Phase I (S Claiborne Ave to Dryades) - Contract 4178CE <u>SWBNO Engineering fees</u>	Design, construction and inspection of a covered canal within the Jefferson Avenue right of way between S. Claiborne and Constance (Contract 4178CE) Corps of Engineer SELA Program 65% Eng. Est. \$65,726,775	10.00	20,000	10,000									30,000

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499-02	D	Jefferson Ave Canal Phase II (Dryades to Constance) - Contract 4179CE <u>SWBNO Engineering Fees</u>	Design, construction and inspection of a covered canal within the Jefferson Avenue right of way between S. Claiborne and Constance. Phase II (Dryades to Constance - Contract 4179CE) will start in 2012. Corps of Engineer SELA Program 65%	10.00	10,000	5,000									15,000
511-28	C	Normal Extensions & Replacement-DPS	DPS 14-Investigate and repair pump automation issue	8.75	50,000										50,000
511-42	Citywide	Normal Extensions & Replacement-DPS	Purchase of spare parts (PC) for new generators at various sites	8.75	50,000	50,000	55,000	55,000	55,000	60,000	60,000	60,000	65,000	65,000	575,000
610-03	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 408 (7,160 lf)	8.54			9,000,000								9,000,000
610-04	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 508 (7,590 lf) based on locating in existing duct bank	8.25				3,500,000							3,500,000
610-05	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 412 (11,500 lf)	8.19					10,100,000						10,100,000
610-06	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 312 (11,430 lf) based on locating in existing duct bank	8.13						2,500,000					2,500,000
610-07	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 314 (9,460 lf)	8.10						9,000,000					9,000,000
610-08	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 414 (9,460 lf) based on locating in existing duct bank	8.07							3,000,000				3,000,000
610-09	A, B	Additions & Replacement to Underground Power Distribution Feeders	Replace feeder 612-B (14,220 lf)	8.04							10,500,000				10,500,000
612-00	A, B, D	Furnishing Emergency Generation for Drainage Underpass Pumping Stations 100% D	Purchase and installation of backup generators at various Underpass Stations (Canal Blvd, St. Bernard Ave., Paris Ave., Press Dr., Old Carrollton, New Carrollton and Hospital St)	7.45	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
613-02	Citywide	Modifications to the Power Generating System SWBNO	Contract 1378- Rehab of Boilers 1 and 3, Duct and Elevators (<u>SWBNO</u>)	10.00	1,000,000										1,000,000
613-07	Citywide	Modifications to the Power Generating System 35/5/60 W/S/D	Inspect and refurbish Turbine No.1	7.24					600,000	5,400,000					6,000,000

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613-09	Citywide	Modifications to the Power Generating System 100% D SWBNO	Contract 6253 HMGP Turbine/Generator No. 5 Inspection	10.00	800,000											800,000
613-10	Citywide	Program Management/Construction Management fees for managing the entire HMGP	Due to the funding limitations of the HMGP Grant, the PM/CM fees will be funded from SWBNO System funds. The funding also includes costs for Engineering Services During Construction.	10.00	955,000	955,000	500,000	500,000	250,000	250,000						3,410,000
613-11	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Repairs to CWPP Frequency Changer	7.10			560,000	35,000								595,000
613-17	Citywide	Modifications to the Power Generating System 60/5/35 W/S/D	Structural design and repairs to water treatment system in Power House	6.97		42,000	378,000									420,000
613-18	Citywide	New 230KV Substation location of the western side of the CWP.	Professional engineering services related to the assessment, environmental review, and preliminary design of a new Entergy New Orleans 230 KV Substation on the Joliet to Southport 230KV transmission line.	10.00	300,000	150,000										450,000
624-01	Citywide	Normal Extensions & Replacements 35/5/60 W/S/D	Normal Extensions and Replacement to Existing Electrical Distribution, Control, and Utilization Equipment and Facilities as needed to ensure reliability and functional capability of the Power Network.	9.50	480,000	480,000	480,000	480,000	480,000	480,000	480,000	480,000	480,000	480,000	480,000	4,800,000
676-09	A, B	Additions & Replacement to Underground Power Distribution Feeders SWBNO	Design Build Contract 6249 to replace feeders RS-T6, RSC, RSE, CFC, 406, 202, 506, 404, 416, 302 (HMGP)	10.00	1,000,000											1,000,000
703-00	Citywide	Water Reserve for Emergencies	Contingency	10.00	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,000,000
803-02	Citywide	Property Acquisition Professional Services Contract 33/33/24 W/S/D	Consulting firm to perform title research, environmental assessment, real estate reports, etc. associated with acquiring various properties for ongoing SWBNO facility projects.	10.00	150,000	150,000	150,000	150,000	150,000							750,000
807-01	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Joseph: Replace 2nd floor IT air conditioning unit pumps, drive motors and controls	6.96	2,000,000											2,000,000
807-02	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Replacement of switchgear for generator hook-up.	6.76	660,000											660,000

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807-04	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	St. Josephs: Miscellaneous repairs (plumbing , leaking windows, etc)	5.54	40,000	7,000	7,000								54,000
807-05	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Central Yard/St Josephs: Replace and/or repair elevators	5.63	100,000										100,000
807-06	B	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Replace/repair west hydraulic elevator	6.57	51,150										51,150
807-07	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace window seals (Atrium is leaking)	6.75	6,600	6,600									13,200
807-12	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Secure perimeter with new chain link fence. Includes deep footing for support and security.	5.43	33,000										33,000
807-13	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Central Yard: Renovation of old warehouse	4.80							33,000	329,400			362,400
807-14	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Install new fencing from Garage 1 to Gas Station	6.75	6,600										6,600
807-15	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Central Yard: Install security system, including cameras in Warehouse, replace card access, etc. ; tweak description	6.10		100,000									100,000
807-16	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace electric gate near warehouse	6.75	16,500										16,500
807-17	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Central Yard: Fuel Island -Provide for installation of canopy and lights	3.49			16,500				330,000	330,000	330,000		1,006,500
807-18	B	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Fuel Island: Upgrade or replace fuel island	3.49							330,000				330,000
807-21	D	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Central Yard: Body Shop and Garage renovation	3.81		660,000									660,000
807-22	B	Improvements to Central Yard & St. Joseph Street .33/33/34 W/S/D	Repaving of parking lot	4.54	33,000										33,000

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810-01	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (large trucks, etc)	10.00	3,833,333	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	7,523,333
810-02	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Heavy construction equipment replacement such as excavators, backhoes, cranes, front end loaders, etc.	9.52	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,000,000
810-05	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage I Diagnostic equipment and upgraded every other year	8.80	5,000		5,000		5,000		5,000				20,000
810-06	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage I Replacement of 2 hydraulic lifts	5.80							16,500	16,500	16,550	16,500	66,050
810-07	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Garage II Replacement of 2 heavy equipment lift for wheel alignment, front end rack	5.80						16,475	16,500	16,500	16,500	17,000	82,975
810-7	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Equipment for Michoud dumping site	8.75	100,000										100,000
810-8	Citywide	Major Equipment Purchases 33/33/34 W/S/D	Proprietary keying system for the entire Board	8.75	166,666										166,666
811-01	Citywide	Plant Stationary Equipment 100% D	Replacement of bridge cranes, etc. 1, 2, 3, I	4.97	200,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	79,985	1,079,985
811-02	Citywide	Plant Stationary Equipment 100% D	Laser alignment machine for pump/motors	5.06	100,000										100,000
812-01	Citywide	Computer Systems Development 33/33/34 W/S/D	Warehouse: Install scanning equipment for inventory, labeling barcodes and associated software	4.54	3,300										3,300
812-02	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Fuel Island: Upgrade or replace fuel island	4.54		165,000									165,000
812-03	B	Improvements to Central Yard & St. Joseph Street 33/33/34 W/S/D	Replace or upgrade Cyndrus vehicle management system	4.54			165,000								165,000
812-07	Citywide	Financial System Replacement 33/33/34 W/S/D	Replacement of Financial system (Budget, A/R, GJ, Warehouse, Fixed Assets, etc.)	9.78	850,000	340,000								34,000	1,224,000
812-09	Citywide	Windows Server Software and applicable Client Access Licenses 33/33/34 W/S/D	Upgrade of Network server software, and applicable user licenses	9.00	34,000	1,632	10,200	11,730	5,100	5,100	5,100	5,100	5,100	5,100	83,062
812-10	Citywide	Cassworks Replacement 40/40/20 WSD	Upgrade or Replacement of Cassworks CMMS system	8.33	200,000	300,000	750,000								1,250,000

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812-12	Citywide	Miscellaneous Software 33/33/34 W/S/D	Unspecified software often needed "immediatcly" by user to complete important project.	9.00	7,140	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	17,170	51,510
812-13	Citywide	Web Developer Software 33/33/34 W/S/D	Upgrades and Replacement of software used by web developer for web design and maintenance.	8.76		2,040								7,480	9,520
812-14	Citywide	Desktop Software 33/33/34 W/S/D	Upgrades / New Copies of Windows Operating System and New Version of Office; crystal report writer software, etc.	9.46	119,000	170,000		30,600		30,600		30,600		3,400	384,200
812-15	Citywide	New Development Contract Work 33/33/34 W/S/D	Programming done for implementations of new systems and system expansions such as CAM replacement, Financial System replacement or bringing up new modules of current software.	10.00	306,000	170,000	170,000	34,000	34,000	34,000	34,000	34,000	34,000	34,000	884,000
812-24	Citywide	Update Network Infrastructure-Firewall	Replace firewall with more secure hardware and software.	8.37	20,606										20,606
812-25	Citywide	Environmental Compliance Software	Fats, Oil, and Grease (FOG) additional Module for current system.	8.55	2,890										2,890
812-26		Alertus Software	Software for Security Dept	7.09	3,400										3,400
812-28		Microsoft SCCM	Network Monitoring Software	8.91	25,500										25,500
812-29		Security Guard Tracking Software	Trak Tek Software	8.35	1,836										1,836
820-00	Citywide	Overhead charged to Capital 33/33/34 W/S/D	Portion of overhead attributed to capital from operations and maintenance.	10.00	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	2,971,000	29,710,000
843-01	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Vehicle replacement (small and medium tr	5.80	500,000	200,000	200,000	220,000	220,000	240,000	240,000	260,000	260,000	279,500	2,619,500
843-06	Citywide	Minor Equipment Purchases 33/33/34 W/S/D	Grounds Maintenance: Posthole driver, iron wheel for curve edges	5.00	33,000										33,000
843-14	Citywide	System Wide General Wiring 33/33/34 W/S/D	General Wiring for new data drops and special wiring runs.	8.64	5,100	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400		32,300
843-16	Citywide	Micro Printer (checks) 33/33/34 W/S/D	Check Printer	9.19	2,576										2,576
843-17	Citywide	Data Center UPS Battery Replacement 33/33/34 W/S/D	Replacement of UPS Battery System purchased in 2006.	10.00	51,000			2,550	2,550			51,000			107,100
843-19	Citywide	EOC Satellite Hookup-Carrollton 33/33/34 W/S/D	Enhancement of communications during emergencies.	9.53		680									680

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843-24	Citywide	Security- Badge Reading System Servers and Software33/33/34 W/S/D	Replacement of Security Badge servers, software, etc.	8.64	130,900	25,500						51,000	34,000		241,400
843-25	Citywide	Server Refresh 33/33/34 W/S/D	Upgrade and Replacement of all Board Servers as they reach the 5-7 year age	9.48	34,000	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170	5,100	176,460
843-26	Citywide	Server Expansion 33/33/34 W/S/D	Additional Server Purchases	10.00	7,480	7,480	7,480	7,480	7,480	7,480	7,480	7,480	7,480	3,400	70,720
843-27	Citywide	Oracle Server Refresh 33/33/34 W/S/D	"Refresh /Replace" Oracle Database server	9.13	6,800										6,800
843-28	Citywide	Vault Server Refresh 33/33/34 W/S/D	"Refresh /Replace" Vault server	9.66	25,500										25,500
843-30	Citywide	IP Unified Communication 33/33/34 W/S/D	Voice over IP Telephone System	8.59	8,500										8,500
843-32	Citywide	Network UPS Replacement 33/33/34 W/S/D	Replacement of Uninterruptible Power Systems for the Network Devices	9.57	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800		61,200
843-33	Citywide	Personal Computers 33/33/34 W/S/D	Phased replacement of all personal computers throughout the Board	10.00	37,400	10,200	68,000	20,400	13,600	13,600	13,600	68,000	20,400		265,200
843-34	Citywide	Personal Computers 33/33/34 W/S/D	Provide PC at each remote facilities for communication and electronic logging for daily operations at each site	6.33	200,000		200,000		200,000		200,000		200,000		1,000,000
843-35	B	Board Room AV Renovation 33/33/34 W/S/D	Renovation, upgrade and replacement of Audio-Visual Equipment in the Board Room--microphones, cameras, encoder, etc.	8.72					51,000						51,000
843-36	Citywide	Travel AV / Offsite AV Projectors, etc. 33/33/34 W/S/D	Replacement of current and purchase of additional pc projectors and related equipment for use at scattered sites around the Board and offsite from the Board.	8.52	850		850		850		850		850	13,600	17,850
843-37	Citywide	Plotters 33/33/34 W/S/D	Replacement Plotters	8.13	8,500	5,100	5,100				5,100	5,100			28,900

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843-38	Citywide	Printers 33/33/34 W/S/D	Replacement Printers	9.13	17,000	7,140	10,200	10,200	7,140	7,140	5,440	5,440	5,440		75,140
843-39	Citywide	High Volume Scanners 33/33/34 W/S/D	Replacement of High Volume Scanners used for Networks and Revenue documents	9.31	3,400	11,900				3,400	3,400				22,100
843-41	C	New West Bank Yard 33/33/34 W/S/D	Design and construction of new west bank yard, include land acquisition	3.93					250,000	250,000	1,000,000				1,500,000
843-42	Citywide	Update Network Infrastructure	Purchase of new routers and switches beyond useful life	3.93	5,100	5,100	6,800	6,800	6,800	6,800	6,800	6,800	6,800	20,400	78,200
843-44	Citywide	Disaster Recovery / Failover Site	Duplicate hardware for all Cogsdale systems; AC, Fire Suppression, Water Proofing Data Room at Carrollton	7.47	119,000									6,800	125,800
843-47	Citywide	A V Systems at Carrollton and Central Yard	Install A V system similar to Board Room system at Carrollton and upgrade A V in CV conference room	5.67	40,800							20,400	20,400		81,600
843-48	Citywide	Smart Boards: EOC	Smart Board displays for EOC / CY Alternative Emergency Operations Center	5.85	10,200										10,200
843-49	Citywide	Replace Fiber @ SWB	Replacement of Fiber, boardwide	9.31	51,000										51,000
843-50	Citywide	Specialty Printers-EOC	Large Printer/Scanner/ Copier Machines	5.67	1,870										1,870
843-51	Citywide	Data Center Re-Organization	Data Center Rack Renewal, Shelving, etc.	6.40	5,100										5,100
843-52	Citywide	Wide Format Printer / Scanner	Printer Scanner for Facility Maintenance Drawings	5.57	8,500										8,500
843-53	Citywide	Facility Maintenance Parts Fabricating Equipment	3d printer / scanner	8.48	25,500										25,500
843-55	Citywide	Digital Touch System (d100%)	42" Touch Screen Monitor for use with Climate Adaptation Support Tool as an interactive touch table.	5.14	5,000										5,000
843-56	Citywide	Network Backup Redesign	Additional hardware storage for network	7.19	34,000										34,000
879-00	Citywide	Green Infrastructure	Development and implementation of green infrastructure projects	7.79	500,000	500,000	500,000	500,000	500,000						2,500,000
881-00	Citywide	Stormwater sampling and monitoring	Stormwater sampling vehicle; purchase and installation of manhole monitoring sensors	6.84	200,000										200,000
Total					\$ 24,956,397	\$ 14,299,142	\$ 22,256,900	\$ 14,075,530	\$ 21,450,290	\$ 26,816,365	\$ 24,474,540	\$ 10,289,090	\$ 10,014,290	\$ 9,794,335	\$ 178,426,879

Capital Project #	Council District	Capital Project Title	Description	Calculated Score	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total 2017-2026
Unfunded															
453-00	A	Metairie Relief Canal - SWBNO Portion	Widen the existing Metairie Relief Canal from Palmetto to Airline Highway. Jefferson Parish has proposed this project. SWBNO 76% / Jefferson parish 24% (\$10,000,000)	10.00	5,000,000										5,000,000
471-00	Citywide	SELA Program Mgmt	Professional services contract to administer the SELA programs.	10.00	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000						7,500,000
497-02	D	Florida Avenue Canal Phase II & III (St. Ferdinand to Mazant St) - Contract 4163CE/4164CE Entergy Temporary Relocations & S&WB Forensic Engineering (20/20/60)	Design, construction and inspection of an open concrete canal within the Florida Avenue right of way between Peoples Avenue and DPS# 19. Construction of phase II (Piety St to Mazant St - Contract 4163CE) will begin in 2012. Eng. Est. \$100,544,622 Corps of Engineer SELA Program 65%	10.00	300,000	300,000									600,000
497-04	D	Florida Avenue Canal Phase IV (Florida Ave/Peoples Canal) - Contract 4165CE Entergy temporary relocations & S&WB Forensic Engineering (20/20/60)	Design, construction and inspection of an open concrete canal within the Florida Avenue right of way between Peoples Avenue and DPS# 19. Phase III (St Ferdinand St to Piety St - Contract 4164CE) will begin in 2014. Eng. Est. \$116,203,720 Corps of Engineer SELA Program 65% .	10.00	600,000										600,000
499-01	A, B	Jefferson Ave Canal Phase I (S Claiborne Ave to Dryades) - Contract 4178CE Entergy Temporary Relocations & Forensic Engineering (20/20/60)	Design, construction and inspection of a covered canal within the Jefferson Avenue right of way between S. Claiborne and Constance (Contract 4178CE) Corps of Engineer SELA Program 65% Eng. Est. \$65,726,776	10.00	250,000	250,000									500,000
499-02	D	Jefferson Ave Canal Phase II (Dryades to Constance) - Contract 4179CE Entergy Temporary Relocations & S&WB Forensic Engineering (20/20/60)	Design, construction and inspection of a covered canal within the Jefferson Avenue right of way between S. Claiborne and Constance. Phase II (Dryades to Constance - Contract 4179CE) will start in 2012. Corps of Engineer SELA Program 65%	10.00	250,000	250,000									500,000
511-20	Citywide	Normal Extensions & Replacement-DPS (34/33/33)	Labor for Maintenance Services	10.00	500,000	550,000	550,600	600,000	600,000	650,000	650,000	700,000	700,000	750,000	6,250,600
511-34	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to New Carrollton Underpass Pumping Station	10.00	500,000										500,000

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511-35	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to Broad Street Underpass Pumping Station	10.00	500,000										500,000
511-36	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to Paris Underpass Pumping Station	10.00	500,000										500,000
511-37	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to Hospital Underpass Pumping Station	10.00	500,000										500,000
511-38	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to Press Underpass Pumping Station	10.00	500,000										500,000
511-39	Citywide	Normal Extensions & Replacement-DPS	Hurricane Katrina Repairs to Marconi Underpass Pumping Station	10.00	500,000										500,000
578-03	A, D	COE Permanent Pump Stations at the Lake	Repairs to permanent pump stations at 17th St., London and Orleans	10.00			200,000								200,000
511-03	A	Normal Extensions & Replacement-DPS	DPS 7 - Repairs to Discharge Tubes for Pumps A, C and D	9.64	300,000	6,500,000									6,800,000
511-33	Citywide	Normal Extensions & Replacement-DPS	Dwyer Pumping Station- Refurbishment of diesel engine	8.93	150,000										150,000
511-02	D	Normal Extensions & Replacement-DPS	DPS 4 -Assessment, repairs and/or replacement to suction basin canal; screen cleaners for pumps 1 and 2, vacuum header and 60 cycle vacuum pump	8.88	450,000	1,000,000									1,450,000
511-19	Citywide	Normal Extensions & Replacement-DPS	Miscellaneous repairs to DPS (restrooms, HVAC, doors, roofs, piping, bubblers, painting etc.) including post Corp stormproofing work	8.75	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
511-26	C	Normal Extensions & Replacement-DPS	DPS 11- Site work to fill cavity under the entire station, Repair of D Pump, Conversion of 25Hz motor to 60Hz on old side of DPS,	8.75	1,500,000	500,000	500,000								2,500,000
511-31	D	Normal Extensions & Replacement-DPS	DPS 19- Assessment and repairs to roof	8.75	200,000										200,000
511-32	Citywide	Normal Extensions & Replacement-DPS (33/33/34)	Forensics Structural engineering services for analysis	8.75	150,000	150,000	150,000	150,000							600,000
511-41	Citywide	Normal Extensions & Replacement-DPS	Switchgear and motor inspection and cleaning	8.75	150,000	160,000	160,000	165,000	165,000	170,000	170,000	175,000	175,000	180,000	1,670,000

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511-23	B	Normal Extensions & Replacement-DPS	DPS 2- Enclose generator platform and refurbishment of storage facility on Lafitte Corridor	8.62		200,000									200,000
511-16	Citywide	Normal Extensions & Replacement-DPS	Emergency repairs, engineering, inspections and testing svcs	8.21	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
511-08	E	Normal Extensions & Replacement-DPS	DPS 5 - Repairs to Discharge Tubes; structural repairs	8.18		500,000	4,600,000								5,100,000
511-12	E	Normal Extensions & Replacement-DPS	DPS 5 - Install new screen cleaner on west side of Florida Ave Canal and Jordan Ave Canal	8.18					600,000	9,400,000					10,000,000
511-06	E	Normal Extensions & Replacement-DPS	Grant DPS - Repairs to bridge and station	8.00	60,000	540,000									600,000
511-09	E	Normal Extensions & Replacement-DPS	Grant DPS - Replacement of the existing four outside pumping units	8.00		220,000	220,000	220,000	220,000						880,000
511-14	E	Normal Extensions & Replacement-DPS	DPS 16/St Charles - Purchase and installation of new screens and screen cleaners	7.77					9,000,000	8,600,000					17,600,000
511-27	C	Normal Extensions & Replacement-DPS	DPS 11- Replacement of the four existing screen cleaners	7.77			400,000	6,000,000							6,400,000
511-17	C	Normal Extensions & Replacement-DPS	DPS 3 - Replacement/refurbishing of four constant duty pump(50cfs)	7.76	440,000	440,000									880,000
511-18	A, B	Normal Extensions & Replacement-DPS	DPS 1 Replacement/refurbishing of Constant Duty Pump No. 1 (50cfs)	7.76	220,000										220,000
511-22	B	Normal Extensions & Replacement-DPS	DPS 2 - Replacement/refurbishing of Constant Duty Pumps No. 2 and 3 (50cfs)	7.76	440,000										440,000
511-24	A	Normal Extensions & Replacement-DPS	DPS 6 - Replacement/refurbishing of two constant duty pump(50cfs)	7.76	440,000										440,000
492-00	C	SELA Algiers Drainage Improvements - Estimated Total Program Cost \$300M (25% SWBNO Cost Share)	Engineering, construction and inspection including channel excavation, construction of new culverts, and construction of concrete open canal flumes associated with the Donner, Algiers Outfall and Nolan Canals. This work is included in the proposed Algiers Basin - Plan E drainage improvement area. Eng. Est. \$300,000,000 Corps of Engineer SELA Program 65%	7.74					18,750,000	18,750,000	18,750,000	18,750,000			75,000,000

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492-00	C	Donner Canal, Algiers Outfall Canal & Nolan Canal Improvements SWBNO Relocation, Entergy temporary and engineering fees (33/33/34)	Engineering, construction and inspection including channel excavation, construction of new culverts, and construction of concrete open canal flumes associated with the Donner, Algiers Outfall and Nolan Canals. This work is included in the proposed Algiers Basin - Plan E drainage improvement area. Eng. Est. \$300,000,000 Corps of Engineer SELA Program 75%	7.74	250,000	2,500,000	2,500,000								5,250,000
496-01	C	General DeGaulle Canal Improvements: Construction of Concrete Flume from Sandra to Behrman PI excluding already completed crossings - Estimated Total Program Cost \$35M (25% Cost Share)	Design, construction and inspection of drainage improvements within the General DeGaulle right of way. This work is included in the overall Algiers Basin-Plan E improvement area. Eng. Est. \$300,000,000 Corps of Engineer SELA Program 25%	7.74		8,750,000	875,000								9,625,000
439-00	Citywide	Major Drainage Participation in DPW Paving Projects	Engineering design, survey and inspection of Large Drainage Lines (36" and greater) SWBNO	7.68	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,000,000
511-04	C	Normal Extensions & Replacement-DPS	DPS 3 - Rehabilitate 3 wooden gates, repairs to discharge tubes 1, 2 and 3	7.66		400,000	6,600,000								7,000,000
511-05	C	Normal Extensions & Replacement-DPS	DPS 7 - Purchase and installation of three 240 CFS vertical pumps in the existing pump pits(possibly covering existing pits)	7.66			2,000,000	2,000,000	2,000,000						6,000,000
511-07	B	Normal Extensions & Replacement-DPS	DPS 2 - Repairs to Discharge Tubes	7.20			400,000	6,600,000							7,000,000
511-29	D	Normal Extensions & Replacement-DPS	DPS 17 New diesel engine generator and building to run "E" pump in case of power failure	6.96							500,000	500,000	12,000,000	1,200,000	14,200,000
511-11	D	Normal Extensions & Replacement-DPS	Amid DPS 20-Contract 5233 Repair to Discharge Pipes	6.73			200,000	2,000,000							2,200,000
511-21	D	Normal Extensions & Replacement-DPS	Amid DPS 20 - Purchase and installation /Repair to Pumping Unit No. 1	6.73			2,000,000								2,000,000
535-01	A	Improvements at DPS 6 SWBNO	DPS 6 - Repairs and Modifications to Vertical Pumps 1, 2 & 3	6.49	340,000										340,000
535-02	A	Improvements at DPS 6 SWBNO	DPS 6 -Additional 2000 cfs capacity	6.49								8,500,000	8,500,000		17,000,000

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573-02	C	DPS 13 Improvements	DPS 13 - Increase capacity with new 1100 cfs vertical pumps	6.49					1,000,000	33,050,000					34,050,000
511-15	Citywide	Normal Extensions & Replacement-DPS	Drainage Operations Data Acquisition (DODA)	6.33			250,000	350,000							600,000
511-43	Citywide	Normal Extensions & Replacement-DPS	Surveillance camera system for various DPS	5.74	100,000		100,000								200,000
511-44	Citywide	Normal Extensions & Replacement-DPS	NO East DPS (14, 15, 16, 18, 20, Elaine, Grant) - Rehabilitation of facility alarm system	5.74		100,000		100,000							200,000
546-00	D	New Drainage Station 4W SWBNO	DPS 4W - A new drainage facility is required to supplement the western portion of the drainage basin served by DPS 4. This station will have 1000 cfs capacity with 100% on-site power generation. This project (Contract 5140) is in the construction phase. Costs are associated with engineering services during construction. Design is nearly complete by Design Engineering, Inc. with funding to be provided under the future COE SELA program \$20,726,400. on Hold	5.57										5,182,000	5,182,000
512-01	Citywide	Expansion of DPS 15	DPS 15 - Upgrade pumping capacity and renovation of existing facility	5.10			1,200,000	14,500,000							15,700,000
535-03	A	Improvements at DPS 6 SWBNO	DPS 6 - Painting outside equipment	5.10					680,000						680,000
535-04	A	Improvements at DPS 6 SWBNO	DPS 6 - Remove the trash screen, fence, etc., and cover the Ave. C suction bay	5.10					680,000						680,000
573-02	C	DPS 13 Improvements	DPS 13 - Repairs and modifications to equipment (screen cleaners, discharge pipes, anti-reverse mechanism for constant duty pumps motors 1 and 2 , etc.)	5.10				440,000	6,000,000	1,000,000	10,000,000				17,440,000
418-01	Citywide	Normal Extensions & Repairs of Canals	Reconstruction of drainage lines ≥36"	5.00	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
511-13	E	Normal Extensions & Replacement-DPS	DPS 5 Storm proofing /or expansion of DPS 5 with 60 cycle building	5.00									8,400,000	1,400,000	9,800,000
511-25	D	Normal Extensions & Replacement-DPS	DPS 10 Generator & Storm proofing	5.00									10,252,805	1,771,685	12,024,490

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511-30	A, E	Normal Extensions & Replacement-DPS	DPS 18, Grant, Monticello & Prichard Storm Proofing	5.00									3,135,948	689,909	3,825,857
511-40	C, E	Normal Extensions & Replacement-DPS	DPS 11, 14 16 Storm proofing	5.00									600,000	7,000,000	7,600,000
511-45	Citywide	Normal Extensions & Replacement-DPS	Installation of wells to provide redundant water sources at 15 DPS	3.99									8,250,000	1,650,000	9,900,000
TOTAL					\$ 21,090,000	\$ 29,310,000	\$ 28,905,600	\$ 40,485,000	\$ 44,335,000	\$ 76,120,000	\$ 34,570,000	\$ 24,625,000	\$ 56,513,753	\$ 32,823,594	\$ 388,777,947
TOTAL DRAINAGE CAPITAL PROGRAM					\$ 79,529,397	\$ 82,791,940	\$ 54,206,500	\$ 63,748,640	\$ 145,065,290	\$ 159,796,365	\$ 115,524,540	\$ 92,114,090	\$ 73,958,043	\$ 68,967,929	\$ 935,702,734