

Expenditure by Fund	
Water and Wastewater District	\$51,786,599
Water and Wastewater Oper Fund	\$17,599,050
<b>Total</b>	<b>\$69,385,649</b>

Expenditure by Category	
Category Name	Proposed FY 2020
Operating Expenses	\$56,381,582
Debt Payments	\$14,176,854
Personnel Expenses	\$12,441,365
Contingencies and Fund Balance Contributions	\$1,757,732
Equipment, Vehicles, & Facilities Investments	\$1,664,464
Payments to Outside Organizations	\$589,464
Intrafund Charges	(\$17,625,811)
<b>Total</b>	<b>\$69,385,649</b>

Program Costs by Department	
Admin, Water & WW Operations	\$1,407,924
Business Operations	(\$12,968,334)
Engineering Division	\$2,341,170
Field Services	\$6,820,657
Maintenance, W&WW	\$1,117,376
Planning and Resource Managmt	\$921,497
Regulatory Compliance	\$225,720
Wastewater Operations	\$7,110,561
Water & Sewer District	\$51,786,599
Water Distribution Operations	\$10,622,480
<b>Total</b>	<b>\$69,385,649</b>

Revenue by Category	
Category Name	Proposed FY 2020
Charges for Services	(\$51,717,566)
Interfund Revenues	(\$15,841,318)
Miscellaneous Revenues	(\$1,826,765)
Contingencies and Fund Balance	\$0
Debt Proceeds	\$0
Federal Grants	\$0
Intergovernmental Revenues	\$0
State Grants	\$0
<b>Total</b>	<b>(\$69,385,649)</b>

FTE by Department			
Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020
100.37	115.41	129.43	143.75

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<b>Total</b>	<b>\$69,385,649</b>

Net County Cost of Proposed Expansions for FY 2020	
6" Bypass Pump	\$40,000
6" Dewatering Pump	\$40,000
CCTV Push Camera	\$10,000
CIP Engineer (1 FTE)	\$95,262
Combination Jet/Vac Unit	\$450,000
Customer Service Specialist (1 FTE) and Office Reconfiguration	\$91,982
GIS Technician (1 FTE)	\$73,160
GPS Equipment (Sewer Line Repair)	\$6,700
GPS Equipment (Water Line Repair)	\$33,500
GPS Equipment(Sewer Line Maintenance)	\$20,100
Ground Penetrating Radar (GPR)	\$30,000
Hydrant Inspection & Maint. Program (1 FTE)	\$53,523
Industrial Pretreatment Program Manager (1 FTE)	\$139,237
Lab Automation	\$60,000
Manager, Process Control and Automation (1 FTE)	\$142,509
Marshville Expansion - Field Services, Operations and Maintenance (6 FTE)	\$1,599,886
Meter Services Service Truck	\$40,000
Outfall Easement Cleaning Machine	\$25,000
Part Time Meter Technician (.43 FTE)	\$22,110
Project Management System Software	\$60,000
SL Rat Wastewater Inspection	\$50,000
Systems Analyst (1 FTE)	\$73,817
Utility Technician - Right of Way (1 FTE)	\$53,248
Water Treatment Superintendent (1 FTE)	\$139,782
<b>Total</b>	<b>\$3,349,816</b>

## Public Works

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### Department Mission

To efficiently provide safe, reliable and palatable water to the customers of the County utility system and to protect the environment through the effective collection and treatment of the wastewater. Plan, design and build the infrastructure necessary to meet current and future service demands of our water and waste water customers.

### Department Services Provided

Public Works ensures that water and wastewater capacity within the framework of defined service boundaries by providing reliable, safe, palatable water to all customers through best business practices and regulatory compliance. Public Works treats water and wastewater to meet or exceed federal and state standards and maintains water quality in the distribution system. In addition, the department maintains system assets through a comprehensive asset management program and provides management, engineering, and oversight of developer contributed infrastructure and capital improvement. This oversight ensures conformance with Union County standards, ordinances and master plans.

### Department FY 2020 Discussion

Demand for Water Distribution is driven by population change which is measured in number of gallons sold. In 2012, Union County Public Works sold 3.57 billion gallons of water and 4.23 billion in 2017, for total increase of 18.5 percent in five years. FY 2020 includes the third year of an approved three year rate increase of 6.5 percent. In 2012 there were 29,884 sewer accounts serving a population of 82,389 and in 2017 the population has grown to 90,324 (22.4 percent) while the number of sewer accounts increased to 35,273 (18 percent).

### Department Analysis

One major FY 2020 initiative is the transition of the Marshville water system to the Union County Public Works department. The Manager is recommending FY 2020 funding of \$1,599,886 to support this service expansion along with other major projects such as the installation of a combination Jet/Vac unit (\$450,000), a Process Control Manager (\$142,509), a Water Treatment Superintendent (\$139,782) to support the Yadkin project, an Industrial Pretreatment Program Manager (\$139,237), and \$878,402 of other increases.

## Public Works

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Object Code	Object Description	Actual FY 2015	Actual FY 2016	Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020	\$ Change FY 2019 - 20	% Change FY 2019 - 20
<b>Revenue</b>									
	Taxes and Fees	-392,040	-416,524	-442,132	-504,107	-409,500	-450,400	-40,900	9.99%
	State Grants	0	0	0	0	0	-16,000	-16,000	0.00%
	Charges for Services	-43,033,103	-51,301,339	-53,688,039	-56,024,610	-53,518,741	-56,711,234	-3,192,493	5.97%
	Debt Proceeds	-128,304	24,409,640	-213,882	61,266,744	-700,000	0	700,000	-100.00%
	Miscellaneous Revenues	454,361	-760,342	678,617	-1,095,837	-1,265,052	-1,985,165	-720,113	56.92%
	Interfund Revenues	-4,553,014	-5,070,315	-8,970,067	-13,362,592	-16,877,530	-21,684,064	-4,806,534	28.48%
	Contingencies and Fund Balance	0	0	0	0	-2,852,076	-7,657	2,844,419	-99.73%
	<b>Total Revenue</b>	<b>-47,652,098</b>	<b>-33,138,880</b>	<b>-62,635,502</b>	<b>-9,720,402</b>	<b>-75,622,900</b>	<b>-80,854,520</b>	<b>-5,231,620</b>	<b>6.92%</b>
<b>Expenditures</b>									
	Personnel Expenses	9,728,546	8,693,857	17,915,017	11,006,499	14,028,220	15,847,574	1,819,354	12.97%
	Operating Expenses	19,186,521	20,664,744	28,002,356	49,810,245	55,627,967	64,613,073	8,985,105	16.15%
	Equipment, Vehicles, & Facilities Investments	790,167	969,658	1,554,521	1,659,666	2,245,776	1,741,258	-504,518	-22.47%
	Payments to Outside Organizations	2,542,114	2,588,310	2,676,979	2,752,014	754,220	589,464	-164,756	-21.84%
	Debt Payments	1,873,309	2,404,912	2,260,266	5,153,254	10,394,252	14,176,854	3,782,602	36.39%
	Intrafund Charges	4,223,766	6,819,171	4,002,173	-2,658,106	-12,569,498	-19,070,264	-6,500,766	51.72%
	Contingencies and Fund Balance Contributions	0	0	0	0	4,225,370	1,787,240	-2,438,130	-57.70%
	<b>Total Expenditures</b>	<b>38,344,423</b>	<b>42,140,652</b>	<b>56,411,313</b>	<b>67,723,572</b>	<b>74,706,307</b>	<b>79,685,199</b>	<b>4,978,891</b>	<b>6.66%</b>
	<b>Total Public Works</b>	<b>-9,307,675</b>	<b>9,001,772</b>	<b>-6,224,190</b>	<b>58,003,170</b>	<b>-916,592</b>	<b>-1,169,321</b>	<b>-252,729</b>	<b>27.57%</b>

## FTE Summary

Position Type	Actual FY 2015	Actual FY 2016	Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020	\$ Change FY 2019 - 20	% Change FY 2019 - 20
Full-Time	108.00	114.00	119.00	143.00	159.16	177.16	18.00	11.31%
Part-Time	0.00	0.00	0.00	6.59	6.59	8.06	1.47	22.31%
Temp-Part-Time	6.36	6.60	8.04	1.31	1.31	0.90	-0.41	-31.30%
<b>Total Public Works</b>	<b>114.36</b>	<b>120.60</b>	<b>127.04</b>	<b>150.90</b>	<b>167.06</b>	<b>186.12</b>	<b>19.06</b>	<b>11.41%</b>

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Program Number	Program Name	Actual FY 2015	Actual FY 2016	Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020	\$ Change FY 2019 - 20	% Change FY 2019 - 20
24100	Facilities Management	3,739,113	3,657,650	4,656,835	5,219,962	5,024,079	4,698,482	-325,597	-6.48%
25100	Solid Waste Disposal	4,519,803	4,298,991	5,284,729	4,311,244	5,435,303	5,014,878	-420,425	-7.74%
25200	Solid Waste Collections	555,926	506,667	488,924	542,358	545,746	586,190	40,444	7.41%
26100	Business Operations	10,474,572	13,563,918	14,087,883	-16,415,582	-11,211,084	-12,968,334	-1,757,250	15.67%
26200	Engineering Division	1,451,827	1,637,222	1,828,255	1,850,708	2,290,038	2,341,170	51,132	2.23%
26300	Planning and Resource Managmt	131,147	156,370	582,137	508,419	1,134,994	921,497	-213,497	-18.81%
26400	Admin, Water & WW Operations	227,497	540,228	629,135	814,012	1,033,834	1,407,924	374,090	36.18%
26500	Field Services	4,330,918	4,523,420	4,826,214	4,304,380	5,162,526	6,820,657	1,658,131	32.12%
26600	Regulatory Compliance	0	75,045	66,193	94,072	119,819	225,720	105,901	88.38%
26700	Wastewater Operations	6,110,047	5,579,901	5,632,784	6,309,665	6,520,268	7,110,561	590,292	9.05%
26750	Maintenance, W&WW	0	0	0	0	0	1,117,376	1,117,376	0.00%
26800	Water Distribution Operations	6,622,302	7,433,837	7,458,947	8,547,978	9,552,745	10,622,480	1,069,734	11.20%
26900	Water & Sewer District	0	0	10,512,298	51,636,355	49,098,039	51,786,599	2,688,560	5.48%
27100	Stormwater History	181,271	167,402	356,978	0	0	0	0	0.00%
<b>Total</b>	<b>Public Works</b>	<b>38,344,423</b>	<b>42,140,652</b>	<b>56,411,313</b>	<b>67,723,572</b>	<b>74,706,307</b>	<b>79,685,199</b>	<b>4,978,891</b>	<b>6.66%</b>

## Public Works

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Program Number	Program Name	Actual FY 2015	Actual FY 2016	Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020	\$ Change FY 2019 - 20	% Change FY 2019 - 20
24110	Facilities Management	3,508,443	3,406,899	4,281,720	4,954,644	4,773,618	4,418,750	-354,868	-7.43%
24120	Sign Shop	230,670	250,751	375,114	265,319	250,461	279,732	29,271	11.69%
25110	Admin, Solid Waste Disposal	997,761	971,947	1,896,966	856,040	1,885,666	1,410,296	-475,370	-25.21%
25111	Construction & Demolition	173,458	557,694	333,524	536,762	264,460	228,349	-36,111	-13.65%
25112	Municipal Solid Waste	2,379,694	1,972,316	2,086,309	2,102,487	2,560,504	2,548,396	-12,108	-0.47%
25113	Recycling	605,959	705,691	907,082	730,608	724,673	827,837	103,164	14.24%
25114	Solid Waste Post Closure Reser	362,931	91,344	60,849	85,348	0	0	0	0.00%
25210	Admin, Solid Waste Collection	120,194	123,970	121,257	122,191	113,920	135,694	21,774	19.11%
25211	Central Collection Site	23,669	92,081	70,438	66,879	41,664	41,972	308	0.74%
25213	Remote Collection Sites	412,063	290,616	297,229	353,288	390,163	408,524	18,361	4.71%
26110	General Admin, Water/WW	9,305,772	12,009,156	12,548,047	-18,142,913	-13,289,114	-14,921,495	-1,632,381	12.28%
26111	Public Works Fiscal Management	0	197,957	189,317	236,689	270,198	242,933	-27,265	-10.09%
26112	Customer Service	1,168,800	1,356,805	1,350,519	1,490,641	1,807,832	1,710,228	-97,604	-5.40%
26211	Admin, Engineering Div.	411,632	371,081	289,972	384,328	404,024	452,636	48,612	12.03%
26212	Capital Improvement Mgmt..	425,450	558,313	607,966	624,692	756,181	865,662	109,481	14.48%
26213	New Development	614,745	707,828	930,317	841,688	1,129,832	1,022,872	-106,960	-9.47%
26310	Planning & Resource Management	131,147	156,370	582,137	508,419	1,134,994	921,497	-213,497	-18.81%
26410	Admin, W/WW Operations	0	220,232	301,349	516,342	516,875	992,748	475,873	92.07%
26411	Health & Safety	0	79,632	80,042	113,805	149,458	127,763	-21,695	-14.52%
26412	East Regional Transmission Sys	227,497	240,365	247,744	183,865	367,502	287,413	-80,089	-21.79%
26510	Administration, Field Services	186,552	558,134	350,085	211,454	261,815	1,140,476	878,661	335.60%
26511	Pump Station Operations/Maint	672,649	635,106	533,928	638,760	951,458	1,047,363	95,905	10.08%
26512	Wastewater Line Maintenance	1,079,598	1,145,232	1,686,030	1,211,793	1,545,790	2,154,158	608,368	39.36%
26513	Wastewater Line Repair	440,617	453,190	425,642	564,537	718,517	774,074	55,557	7.73%
26514	Water Line Repair	1,951,502	1,731,758	1,830,529	1,677,836	1,684,946	1,704,586	19,640	1.17%
26610	Wastewater Regulatory Compl	0	75,045	66,193	94,072	108,024	210,668	102,644	95.02%
26611	Water Regulatory Compliance	0	0	0	0	11,795	15,052	3,257	27.61%
26710	Administration, WW Operations	4,353,189	3,802,920	3,640,300	4,097,089	6,353,201	7,032,608	679,406	10.69%
26711	Crooked Creek Facility	480,299	415,366	475,121	619,046	54,329	0	-54,329	-100.00%
26712	Small Facilities	144,995	192,337	145,307	200,176	15,089	0	-15,089	-100.00%
26713	Twelve Mile Creek Facility	1,131,564	1,169,278	1,372,055	1,393,354	97,649	77,953	-19,696	-20.17%
26751	Administration	0	0	0	0	0	20,270	20,270	0.00%
26753	WRFs	0	0	0	0	0	1,097,106	1,097,106	0.00%
26810	Admin, Water Distribution	5,560,365	4,963,233	4,115,644	5,325,305	5,276,018	6,010,539	734,521	13.92%
26811	Meter Services	908,279	1,329,690	1,944,902	1,701,312	2,257,370	2,818,111	560,741	24.84%
26812	System Operations	0	332,234	485,146	602,459	792,216	657,584	-134,632	-16.99%

# Public Works

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Program Number	Program Name	Actual FY 2015	Actual FY 2016	Actual FY 2017	Actual FY 2018	Revised FY 2019	Proposed FY 2020	\$ Change FY 2019 - 20	% Change FY 2019 - 20
26813	Water Line Maintenance	0	611,424	683,515	692,232	980,833	871,980	-108,853	-11.10%
26814	Water Quality Management	153,658	197,256	229,740	226,669	246,308	264,266	17,958	7.29%
26900	Water & Sewer District	0	0	10,512,298	51,636,355	49,098,039	51,786,599	2,688,560	5.48%
27110	Stormwater History	181,271	167,402	356,978	0	0	0	0	0.00%
<b>Total</b>	<b>Public Works</b>	<b>38,344,423</b>	<b>42,140,652</b>	<b>56,411,313</b>	<b>67,723,572</b>	<b>74,706,307</b>	<b>79,685,199</b>	<b>4,978,891</b>	<b>6.66%</b>

