

WATER AND SEWER CIP SUMMARY	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Year Plan
EXPENSES						
CAPITAL PROJECTS						
Balls Creek Water (Hwy 16 Water)	3,550,000					3,550,000
Buffalo Shoals Road Water (Connect 2 tanks)(SECC)	0	0	1,750,000	0	0	1,750,000
Bandys High/Mill Creek Middle/CommScope Sewer (SECC)	250,000	2,000,000				2,250,000
Countywide Utility Study	0	500,000	0	0	0	500,000
Duke Energy Water	2,500,000		0	0	0	2,500,000
Hickory-Catawba WWTP	250,000	250,000	250,000	250,000	250,000	1,250,000
Highway 150 Sewer Phase II & III	1,104,868	0	0	0	0	1,104,868
McLin/Lyle Creek Sewer Outfall Loan Project 2	0	1,000,000	1,000,000	1,000,000	0	3,000,000
Molly's Backbone/Monbo Rd./Long Island Rd. Water (SECC)	300,000	300,000	300,000	300,000	300,000	1,500,000
Mt. View Elem Sewer (Extended Area; Hickory)	0	3,136,620	0	0	0	3,136,620
Oxford Park & Greenwood Park Water Loan Program (Conover)	0	0	0	0	490,000	490,000
Oxford Park Sewer Loan Program (Conover)	0	0	0	0	675,000	675,000
River Bend Road Water Phases I, II, & III Loan Program (Conover)	0	0	0	2,153,000	0	2,153,000
Sludge Compost Facility	400,000	0	0	0	0	400,000
Wastewater Emergent Need	100,000	100,000	100,000	100,000	100,000	500,000
Zion Church Road Water Loan Program (Hickory)	0	0	0	0	846,000	846,000
TOTAL CAPITAL PROJECTS (PAY-AS-YOU-GO)	8,454,868	7,286,620	3,400,000	3,803,000	2,661,000	25,605,488
CLOSED PROJECTS						
Blackburn Plateau Water Loop	(673,648)					(673,648)
CDBG-Old Shelby Rd Water	(62,576)					(62,576)
Complex Dist. Collect System	(59,343)					(59,343)
EcoComplex Utilities	(75,000)					(75,000)
Mt View Elem Sewer Study	(1,200)					(1,200)
Community Road Water/Rock Barn Rd Water (Conover)	(300,000)					(300,000)
TOTAL CLOSED PROJECTS	(1,171,767)	0	0	0	0	(1,171,767)
DEBT SERVICE & OPERATING COSTS						
Personal Services	96,419	99,312	102,291	105,360	108,521	511,903
General Operating	257,149	262,292	267,538	272,889	278,347	1,338,215
Biosolids Management Facility	0	275,000	275,000	275,000	275,000	1,100,000
Blackburn-Plateau Water Loop Debt Payment	75,000	75,000	75,000	75,000	75,000	375,000
Hickory-Catawba Wastewater Treatment Plant Expansion Debt Payment and Operations	642,000	642,000	642,000	642,000	642,000	3,210,000
Highway 150 Sewer Debt Payment	747,680	747,680	747,680	747,680	747,680	3,738,400
Southeastern Catawba County (SECC) Wastewater Collection Debt Payment	677,082	655,203	551,735	532,670	513,410	2,930,100
TOTAL DEBT SERVICE & OPERATING PROJECTS	2,495,330	2,756,487	2,661,244	2,650,599	2,639,958	13,203,618
TOTAL EXPENSES	9,778,431	10,043,107	6,061,244	6,453,599	5,300,958	37,637,339
REVENUES						
Property Tax	1,650,000	1,691,250	1,733,531	1,776,869	1,821,291	8,672,941
1/4 cent Sales Tax	803,907	832,044	861,166	891,307	922,503	4,310,927
Duke Energy Water Repayment	2,500,000	0	0	0	0	2,500,000
Domestic Haulers	93,000	93,930	94,869	95,818	96,776	474,393
Capital Fees	198,000	199,980	201,980	204,000	206,040	1,010,000
Revenue Sharing Contracts	688,000	694,880	701,829	708,847	715,935	3,509,491
Fund Balance Applied	3,845,524	6,531,023	2,467,869	2,776,758	1,538,413	17,159,587
TOTAL REVENUES	9,778,431	10,043,107	6,061,244	6,453,599	5,300,958	37,637,339
Fund Balance minus \$5M reserve						
Available	13,352,105	6,821,082	4,353,213	1,576,455	38,042	
Loan Payments/Municipalities	46,715	107,534	107,534	775,102	898,852	1,935,737

Water & Sewer Projects	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Years	Funding Notes
CAPITAL PROJECTS							
Balls Creek Water - Provides water on NC Highway 16 between Coley Fish Pond Road and Buffalo Shoals Road, also provides to unserved portions of Balls Creek Road and Buffalo Shoals Road connecting dead-end waterlines within Newton's water system on each road.	3,550,000	0	0	0	0	3,550,000	Funding will be derived from loan program with Newton. Newton will pay 75 percent of cost over 10 years.
Buffalo Shoals Water - Provides a water line to connect two water tanks to optimize water system performance for the County's Southeastern Catawba County water system.	0	0	1,750,000	0	0	1,750,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Part of SECC system. Revenue sharing contract with City of Hickory.
Bandys High/Mill Creek Middle/ComScore Sewer - Provides sewer service to two county schools, CommScope's manufacturing facility and potentially surrounding areas, connecting to the county's Southeastern Catawba County (SECC) system.	250,000	2,000,000	0	0	0	2,250,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Part of SECC system. Revenue sharing contract with City of Hickory.
Countywide Utility Study - Study will provide the county and its municipalities a better understanding of system capabilities and deficiencies, and allow all parties to better plan for needed upgrades and expansions.	0	500,000	0	0	0	500,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. This will cover County's portion of study with each participating municipality paying its share.
Duke Energy Water - Provides water service by NC legislation mandate to unserved properties affected by Duke Energy's (Duke) coal ash basins at Marshall Steam Station.	2,500,000	0	0	0	0	2,500,000	Duke will reimburse Catawba County for any project related expenses, including design and construction.
Hickory-Catawba WWTP - Sets aside money each year to fund the future wastewater treatment plant upgrade that serves the SECC sewer system.	250,000	250,000	250,000	250,000	250,000	1,250,000	Catawba County owns 50% of the plant's treatment capacity, and as such, has a vested interest in any future expansions. This plant serves the SECC sewer system.
Highway 150 Sewer Phase II & III - Connects sewer along Highway 150 from Marshal Steam Station to Midway Marina (includes pump station), as part of the SECC system.	1,104,868	0	0	0	0	1,104,868	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Part of SECC system. Revenue sharing contract with City of Hickory.

Water & Sewer Projects	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Years	Funding Notes
McLin/Lyle Creek Sewer Outfall Project 2 - Installs force main and gravity sewer through a pump station into the first McLin/Lyle Creek project since Claremont is decommissioning its North WWTP (Wastewater Treatment Plant). Project will also open a section of the Interstate-40 corridor to sewer service and development.	0	1,000,000	1,000,000	1,000,000	0	3,000,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Do not know if this project will be a revenue sharing or loan contract.
Molly's Backbone/Monbo Road/Long Island Roads Water - Initiated by citizen requests in the area, provides water and sewer services to the SECC area along Long Island Rd., Monbo Rd. and Mollys Backbone Rd. from Sherrills Ford Rd. to Lynmore Dr.	300,000	300,000	300,000	300,000	300,000	1,500,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Part of SECC System. Revenue sharing contract with Hickory.
Mt. View Elem Sewer - Provides municipal sewer service to Mountain View Elementary School and potential for wastewater sewer service to an extended area of primarily residential development in the area	0	3,136,620	0	0	0	3,136,620	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Revenue sharing contract with City of Hickory.
Oxford Park Water & Greenwood Park Water Loan Program - Provides water service to approximately 100 parcels in Oxford Park and Greenwood Subdivisions located adjacent to each other off of NC Hwy 16.	0	0	0	0	490,000	490,000	Funding will be derived from loan program with Conover.
Oxford Park Sewer Loan Program - Provides sewer service to approximately 75 homes in Oxford Park subdivision off Hwy 16.	0	0	0	0	675,000	675,000	Funding will be derived from loan program with Conover.
Riverbend Road Water Phases 1, 2, 3 - Provides water along Riverbend Road north of Conover creating a looped system and opening large tracts of land to potential development.	0	0	0	2,153,000	0	2,153,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer. Revenue sharing contract with City of Conover.
Sludge Compost Facility - This amount covers the County's portion of the Regional Compost Sludge Facility through an inter-local agreement with Hickory and Conover.	400,000	0	0	0	0	400,000	Since Fiscal Year 2011/12, a total of \$2,946,151 has been funded to cover the operations of the sludge composting facility.

Water & Sewer Projects	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Years	Funding Notes
Wastewater Emergent Need - Begins to fund a mechanism for Catawba County to help address some of the oldest septic systems in NC.	100,000	100,000	100,000	100,000	100,000	500,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.
Zion Church Road Water Loan Program - Provides water service along Zion Church Road, creating a loop in the Mt. View area between Sandy Ford Road and NC Highway 10.	0	0	0	0	846,000	846,000	Funding will be derived from loan program with Hickory.
TOTAL CAPITAL PROJECTS (PAY-AS-YOU-GO)	8,454,868	7,286,620	3,400,000	3,803,000	2,661,000	25,605,488	
CLOSED PROJECTS							
Blackburn Plateau Water Loop - Provided municipal water and fire protection to the Apple site and the Propst Crossroads Fire Station, and enhanced fire protection in the Propst and Maiden Fire Districts, municipal water along the western and southern boundaries of the Blackburn Landfill, and provided a secondary water supply loop to the Town of Maiden and the Southeast Catawba County Water Supply system in the event of a problem with the City of Hickory's water supply main on Startown Road.	(673,648)	0	0	0	0	(673,648)	The project was completed in 2011 with the \$673,648 remaining in the project.
CDBG-Old Shelby Rd Water- Provided municipal water service to low and moderate income households through a CDBG Infrastructure Grant from the North Carolina Department of Commerce. The project provided municipal water to 131 persons of whom 123, or 94 percent were low to moderate income (LMI). The 131 persons represented 63 households, of which approximately 90 percent were LMI.	(62,576)	0	0	0	0	(62,576)	The project was complete in 2015 with the \$62,576 remaining in the project.
Complex Dist. Collect System - Provided increased water supply and enhanced fire protection to the County's Newton Campus through the extension of approximately 900 linear feet waterline.	(59,343)	0	0	0	0	(59,343)	This project, a partnership with the City of Newton, was completed in 2014 with the \$59,343 remaining in the project.

Water & Sewer Projects	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Years	Funding Notes
EcoComplex Utilities - Was going to provide analysis of the water and sewer utilities that would serve the EcoComplex and its components for a 30-year period; however, with decreased emphasis on the development of the EcoComplex the project was no longer needed.	(75,000)	0	0	0	0	(75,000)	
Mt View Elem Sewer Study - Assessed the need and subsequent plan of action for providing sewer service to Mt. View Elementary.	(1,200)	0	0	0	0	(1,200)	In partnership with the City of Hickory, the assessment was complete in Fiscal Year 2013/14 with the \$1,200 remaining in the project.
Community Road Water/Rock Barn Rd Water - Was going to provide municipal water to properties along Community Road and create a looped system for improved water quality and fire protection by extending a water line from the existing line located on Rock Barn Road east of Conover.	(300,000)	0	0	0	0	(300,000)	This project was in cooperation with the City of Conover; however, the project was not implemented due to at various times the County and the City of Conover not prepared to move forward with the project.
TOTAL CLOSED PROJECTS	(1,171,767)	0	0	0	0	(1,171,767)	
DEBT SERVICE & OPERATING							
Personal Services - 1 FTE dedicated to water & sewer.	96,419	99,312	102,291	105,360	108,521	511,903	
General Operating - Includes professional services for engineering reports on planned projects.	257,149	262,292	267,538	272,889	278,347	1,338,215	
Biosolids Management Facility - Currently, the County owns 18.5 percent, the City of Hickory owns 70.5 percent, and the City of Conover owns 11 percent of the existing sludge composting facility which is nearing the end of its useful life. This project reflects the current estimate for the County's portion of the operations, maintenance and capital expenses for a new facility at the EcoComplex when the existing Sludge Composting Facility is closed and this facility is built to take over the management of wastewater sludge.	0	275,000	275,000	275,000	275,000	1,100,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.
Blackburn-Plateau Water Loop - Debt repayment for project approved in prior years.	75,000	75,000	75,000	75,000	75,000	375,000	\$3 million from Economic Stimulus funds. \$1.5 million principal forgiveness loan for 20 years, payments are \$75,000 annually, \$1.5 million grant.

Water & Sewer Projects	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Total in 5 Years	Funding Notes
Hickory-Catawba Wastewater Treatment Plant Expansion - County's portion of debt service & operating expenses to the City of Hickory.	642,000	642,000	642,000	642,000	642,000	3,210,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.
Highway 150 Sewer - Debt repayment for project approved in prior years.	747,680	747,680	747,680	747,680	747,680	3,738,400	Project funding from Water and Sewer Fund and installment purchase obligations issued over 15yrs @ 2.5 percent interest.
Southeastern Catawba County (SECC) Waste Water Collection - Debt repayment for project approved in prior years.	677,082	655,203	551,735	532,670	513,410	2,930,100	Funding from installment purchase obligations issued over 20 yrs. @ 4.19 percent interest. Final debt payment is in 2028. Debt repaid from property tax and/or portion of the 1/4 cent sales tax devoted to water and sewer.
Total Debt Service & Operating	2,495,330	2,756,487	2,661,244	2,650,599	2,639,958	13,203,618	
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	9,778,431	10,043,107	6,061,244	6,453,599	5,300,958	37,637,339	
REVENUES							
Property Tax	1,650,000	1,691,250	1,733,531	1,776,869	1,821,291	8,672,941	
1/4 cent Sales Tax	803,907	832,044	861,166	891,307	922,503	4,310,927	
Domestic Haulers	2,500,000	-	-	-	-	2,500,000	
Capital Fees	93,000	93,930	94,869	95,818	96,776	474,393	
Revenue Sharing Contracts	198,000	199,980	201,980	204,000	206,040	1,010,000	
Loan Payments/Municipalities	688,000	694,880	701,829	708,847	715,935	3,509,491	
Fund Balance Applied	3,845,524	6,531,023	2,467,869	2,776,758	1,538,413	17,159,587	
TOTAL REVENUES	9,778,431	10,043,107	6,061,244	6,453,599	5,300,958	37,637,339	