

FY21-25 CIP

Project ID	Project Title	FY21	FY22	FY23	FY24	FY25	Total 5-YR	10-YR	Total 10-YR
Water Projects									
99W88	New Service Installations - Water	\$17,500,000	\$17,500,000	\$17,500,000	\$17,500,000	\$17,500,000	\$87,500,000	\$87,500,000	\$175,000,000
99W04	Major Water Main Repl & Rehab	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$75,000,000	\$105,000,000	\$180,000,000
20W05	South Boulevard Water Main from Worthington Avenue to Clanton Road	\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000	\$0	\$5,000,000
99W19	Street Main Extension - Water	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$25,000,000	\$25,000,000	\$50,000,000
20W10	NCDOT Widening - Water	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$20,000,000	\$28,000,000	\$48,000,000
99W09	Water Lines For Street Improvement	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	\$17,500,000	\$25,000,000	\$42,500,000
16W23	Water Meter Program	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$16,500,000	\$16,500,000	\$33,000,000
19W01	Water Dist Design & Reliability Improvements	\$3,000,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$21,000,000	\$0	\$21,000,000
21W02	Water Transmission Improvement	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000	\$15,000,000	\$30,000,000
15W08	WTP Rehab & Upgrades	\$2,200,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$12,200,000	\$12,500,000	\$24,700,000
03W15	Valve Rehab and Replacement	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$10,000,000	\$15,000,000	\$25,000,000
16W15	Vest Station Rehab/Upgrade	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000	\$0	\$2,000,000
21W01	Franklin WTP Filters 1-12 Rehab	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000	\$0	\$2,000,000
00W03	Catawba Pump Station Rehab/Upgrade	\$2,699,999	\$0	\$0	\$0	\$0	\$2,699,999	\$0	\$2,699,999
06W03	Dukes WTP Generator	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000
16W08	Catawba River Water Pump Station Cell 4 - Pump Addition	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$3,000,000	\$4,000,000
17W03	Plaza/Idlewild Booster Pump Station Upgrades	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$1,700,000	\$2,700,000
01W13	Franklin WTP Main Bldg Renovation	\$500,000	\$4,000,000	\$4,000,000	\$0	\$0	\$8,500,000	\$0	\$8,500,000
15W01	Water Quality Sampling Stations	\$500,000	\$1,000,000	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000
20W06	Water Mains for Transit Projects	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000	\$5,000,000	\$6,000,000
18W25	WT/Distribution Facilities Roofing	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,000
20W02	Franklin WTP Reliability Improvements Project	\$250,000	\$2,000,000	\$0	\$0	\$7,000,000	\$9,250,000	\$10,000,000	\$19,250,000
99W05	Elevated Water Storage Tank Rehab	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000	\$1,000,000	\$2,000,000
16W14	Energy Optimization	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
02W02	Developer Const-Water Reimbursable	\$80,600	\$80,600	\$0	\$0	\$0	\$161,200	\$0	\$161,200
05W06	Water Distribution Flow Monitoring	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000	\$0	\$1,000,000
16W03	Catawba Raw Water Pump Station Cell 1 Rehabilitation	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$8,700,000	\$9,700,000
16W04	Franklin WTP Water Quality Improvement	\$0	\$5,000,000	\$7,500,000	\$0	\$7,500,000	\$20,000,000	\$7,500,000	\$27,500,000
16W13	Franklin Water Treatment Plant- Pump Replacement and Addition	\$0	\$0	\$2,500,000	\$2,500,000	\$0	\$5,000,000	\$0	\$5,000,000
16W21	Verhoeff Drive Water Main	\$0	\$0	\$0	\$0	\$1,300,000	\$1,300,000	\$0	\$1,300,000
16W22	Hambright Road Water Main	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$500,000
18W08	Pressure Zone Boundary Changes	\$0	\$16,000,000	\$0	\$0	\$0	\$16,000,000	\$0	\$16,000,000
18W09	978 North-South Transmission Main	\$0	\$0	\$0	\$0	\$0	\$0	\$6,500,000	\$6,500,000
18W10	Mallard Connector Main	\$0	\$0	\$0	\$0	\$0	\$0	\$23,100,000	\$23,100,000
18W11	Franklin WTP West Main Extension	\$0	\$0	\$0	\$0	\$0	\$0	\$3,350,000	\$3,350,000
18W12	960 Zone North-South Transmission Main	\$0	\$12,000,000	\$0	\$0	\$0	\$12,000,000	\$0	\$12,000,000
18W13	960 Zone West-East Transmission Main	\$0	\$0	\$0	\$7,000,000	\$7,000,000	\$14,000,000	\$0	\$14,000,000
18W14	Idlewild BPS Supply Main	\$0	\$5,000,000	\$0	\$0	\$0	\$5,000,000	\$0	\$5,000,000
18W16	East Rocky River Rd to Shearer Road Davidson Extension 16/12 Water Main	\$0	\$0	\$0	\$0	\$3,100,000	\$3,100,000	\$0	\$3,100,000
18W18	Lee S. Dukes WTP Expansion	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000,000	\$6,000,000
18W19	Sardis Booster Pump Station Supply Line	\$0	\$0	\$0	\$0	\$0	\$0	\$12,775,000	\$12,775,000
18W20	Plaza Storage Tank Reinforcement Main	\$0	\$0	\$0	\$0	\$0	\$0	\$8,200,000	\$8,200,000
18W26	Sardis BPS to Lebanon Tank Transmission Main	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000,000	\$14,000,000
19W02	Davidson Water Transmission Main to Iredell County	\$0	\$6,000,000	\$0	\$0	\$0	\$6,000,000	\$0	\$6,000,000
19W04	978 Zone Booster Pump Station	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000,000	\$12,000,000
19W05	978 Zone Transfer Support Water Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$40,209,500	\$40,209,500
19W06	978 Zone PCCP Replacement Main	\$0	\$0	\$0	\$2,600,000	\$1,400,000	\$4,000,000	\$4,200,000	\$8,200,000
20W01	Dukes WTP Reliability Improvements Project	\$0	\$0	\$0	\$0	\$650,000	\$650,000	\$6,600,000	\$7,250,000
20W04	Brief Road Water Main Extension	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$0	\$1,500,000
20W08	Water Dist Elevated Storage Tanks	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000,000	\$20,000,000
21S07	Catawba Raw Water Pump Station Generators	\$0	\$0	\$2,000,000	\$0	\$0	\$2,000,000	\$0	\$2,000,000
21W03	Water Master Plan	\$0	\$0	\$2,000,000	\$0	\$0	\$2,000,000	\$0	\$2,000,000
Water Totals		\$75,780,599	\$112,080,600	\$78,500,000	\$73,600,000	\$91,450,000	\$431,411,199	\$523,334,500	\$954,745,699
Sewer Projects									
08S08	Stowe Regional WRRF	\$33,000,000	\$60,000,000	\$50,000,000	\$50,000,000	\$57,000,000	\$250,000,000	\$0	\$250,000,000
99S30	Sanitary Sewer Rehabilitation	\$19,500,000	\$19,500,000	\$19,500,000	\$19,500,000	\$19,500,000	\$97,500,000	\$97,500,000	\$195,000,000
19S13	Little Sugar Creek Tributary to CBD Sewer	\$15,000,000	\$12,000,000	\$0	\$0	\$0	\$27,000,000	\$0	\$27,000,000
15S01	WWTP Rehab & Upgrades	\$12,400,000	\$9,800,000	\$7,800,000	\$7,800,000	\$7,800,000	\$45,600,000	\$39,000,000	\$84,600,000
18S14	Mount Holly Lift Station/Forcemain	\$10,500,000	\$0	\$0	\$0	\$0	\$10,500,000	\$0	\$10,500,000
20S07	Dairy Branch Tributary Sewer Improvements	\$10,000,000	\$2,000,000	\$0	\$0	\$0	\$12,000,000	\$0	\$12,000,000
19S04	Mallard Creek WWTP RUVI	\$9,000,000	\$10,000,000	\$0	\$0	\$0	\$19,000,000	\$0	\$19,000,000

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20S21	Irwin Creek Tributaries to Dewitt Lane and Yeoman Road Sanitary Sewer	\$9,000,000	\$12,000,000	\$0	\$0	\$0	\$21,000,000	\$0	\$21,000,000
20S19	Briar Creek Relief Sewer - Phase 4	\$8,500,000	\$7,200,000	\$0	\$0	\$0	\$15,700,000	\$0	\$15,700,000
99S40	New Service Installations - Sewer	\$8,295,000	\$8,295,000	\$8,295,000	\$8,295,000	\$8,295,000	\$41,475,000	\$41,475,000	\$82,950,000
20S05	Toby Creek Basin Sewer Improvements	\$8,000,000	\$0	\$0	\$0	\$10,000,000	\$18,000,000	\$25,000,000	\$43,000,000
18S01	Sewer Capacity Improvements	\$7,000,000	\$12,000,000	\$12,000,000	\$12,000,000	\$12,000,000	\$55,000,000	\$48,000,000	\$103,000,000
20S10	Paw Creek Pump Station Improvements	\$7,000,000	\$0	\$0	\$0	\$0	\$7,000,000	\$0	\$7,000,000
99S04	Street Main Extension - Sewer	\$7,000,000	\$7,000,000	\$7,000,000	\$7,000,000	\$7,000,000	\$35,000,000	\$35,000,000	\$70,000,000
06S14	McMullen Creek Basin Sanitary Sewer Improvements	\$6,500,000	\$3,600,000	\$1,700,000	\$5,200,000	\$0	\$17,000,000	\$79,500,000	\$96,500,000
17S11	Upper Little Sugar Creek Trunk Sewer	\$6,000,000	\$6,000,000	\$6,000,000	\$24,000,000	\$24,000,000	\$66,000,000	\$168,000,000	\$234,000,000
17S10	McAlpine RPI (Aeration & Clarifier Rehab)	\$5,000,000	\$30,000,000	\$10,000,000	\$0	\$0	\$45,000,000	\$0	\$45,000,000
19S12	McDowell WWTP Maintenance & Upgrade	\$4,500,000	\$0	\$0	\$0	\$13,500,000	\$18,000,000	\$0	\$18,000,000
18S06	Mallard WWTP Expansion & Improvement	\$4,300,000	\$6,500,000	\$26,100,000	\$27,400,000	\$13,600,000	\$77,900,000	\$127,300,000	\$205,200,000
21S01	Goose Creek Sewer Extension to Fairview Rd	\$4,300,000	\$0	\$0	\$0	\$0	\$4,300,000	\$0	\$4,300,000
17S05	Large Diameter Sanitary Sewer Rehab	\$4,000,000	\$4,000,000	\$4,000,000	\$6,000,000	\$8,000,000	\$26,000,000	\$110,000,000	\$136,000,000
20S12	Coffey Creek Interceptor Condition Assessment and Rehabilitation	\$4,000,000	\$0	\$0	\$0	\$0	\$4,000,000	\$0	\$4,000,000
20S22	NCDOT Widening - Sewer	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$20,000,000	\$25,000,000	\$45,000,000
99S15	Sewer In Streets To Be Widened	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	\$17,500,000	\$25,000,000	\$42,500,000
17S16	Trunk Sewer Stream Bank Repairs	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000	\$15,000,000	\$30,000,000
21S09	Biosolids Program	\$2,400,000	\$11,200,000	\$22,900,000	\$22,100,000	\$21,400,000	\$80,000,000	\$0	\$80,000,000
02S81	Lift Station Improvements	\$2,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$14,000,000	\$12,000,000	\$26,000,000
16S06	Pump Station Elimination Program	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$4,000,000	\$0	\$4,000,000
17S01	Vacuum Truck Debris Receiving Stations	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$4,000,000	\$0	\$4,000,000
20S08	Derita Branch Tributary Sewer Improvements	\$2,000,000	\$10,000,000	\$0	\$0	\$0	\$12,000,000	\$0	\$12,000,000
09S05	Matthews Commons Gravity Sewer	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000
19S14	Sani-Sewer Capacity Assurance Support	\$1,500,000	\$1,625,000	\$1,750,000	\$1,875,000	\$2,000,000	\$8,750,000	\$7,500,000	\$16,250,000
19S11	Mallard Creek Basin Sanitary Sewer Improvements	\$1,200,000	\$19,900,000	\$11,800,000	\$30,700,000	\$22,000,000	\$85,600,000	\$28,100,000	\$113,700,000
01S12	Developer Const-Sewer Reimbursable	\$1,183,985	\$1,750,237	\$2,870,237	\$2,870,237	\$1,686,251	\$10,360,947	\$4,500,000	\$14,860,947
15S07	McAlpine WWTP Dewatering Improvements	\$1,100,000	\$6,800,000	\$0	\$0	\$0	\$7,900,000	\$0	\$7,900,000
14S07	Hidden Valley Trunk Sewer Replacement	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000
19S08	Davidson South Street Sewer Replacement	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000
21S08	Nutrient Harvesting at WWTP	\$1,000,000	\$500,000	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000
99S13	Site Work at All WWTPs	\$1,000,000	\$500,000	\$500,000	\$250,000	\$250,000	\$2,500,000	\$0	\$2,500,000
18S13	WWTP/Collection Facilities Roofing	\$500,000	\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000
20S20	Sewer Mains for Transit Projects	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000
01S18	Campus Ridge Road Gravity Sewer	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000	\$0	\$4,000,000
01S48	North Fork of Crooked Creek Trunk Sewer	\$0	\$0	\$0	\$0	\$10,600,000	\$10,600,000	\$0	\$10,600,000
06S13	McDowell Basin Trunk Sewers	\$0	\$0	\$0	\$0	\$0	\$0	\$33,350,000	\$33,350,000
07S03	Middle Clear Creek LS	\$0	\$0	\$0	\$0	\$10,000,000	\$10,000,000	\$0	\$10,000,000
07S05	Upper Clear Creek Tributary Sewer	\$0	\$0	\$0	\$0	\$1,300,000	\$1,300,000	\$0	\$1,300,000
09S01	McCullough Branch LS Improvements	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$0	\$1,500,000
09S02	Lake Road Trunk Sewer	\$0	\$0	\$0	\$0	\$650,000	\$650,000	\$0	\$650,000
09S03	Clear Creek Tributary Sewer	\$0	\$0	\$0	\$0	\$3,300,000	\$3,300,000	\$0	\$3,300,000
11S05	Mountain Island Tributary Extension	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000	\$0	\$1,200,000
13S03	McKee Creek Tributary Extension	\$0	\$0	\$0	\$0	\$1,300,000	\$1,300,000	\$0	\$1,300,000
14S03	Little Hope Creek Sanitary Sewer Improvements	\$0	\$8,000,000	\$8,000,000	\$8,000,000	\$0	\$24,000,000	\$0	\$24,000,000
14S06	Cane Creek Southeast Tributary Trunk Sewer	\$0	\$0	\$0	\$0	\$900,000	\$900,000	\$0	\$900,000
16S10	Cane Creek Trunk Sewer North	\$0	\$0	\$0	\$0	\$1,100,000	\$1,100,000	\$0	\$1,100,000
17S08	McAlpine WWTP Digester Facility Rehab	\$0	\$6,200,000	\$0	\$0	\$0	\$6,200,000	\$0	\$6,200,000
17S09	WWTP UV Disinfection System Improvement	\$0	\$3,800,000	\$3,800,000	\$0	\$550,000	\$8,150,000	\$4,500,000	\$12,650,000
18S04	Davidson Western Rocky River Sanitary Sewer Outfall	\$0	\$0	\$0	\$0	\$3,500,000	\$3,500,000	\$0	\$3,500,000
18S15	Belmont Lift Station and Forcemain	\$0	\$0	\$10,000,000	\$11,000,000	\$5,000,000	\$26,000,000	\$0	\$26,000,000
18S18	Bailey Road Gravity Main	\$0	\$0	\$0	\$0	\$1,460,000	\$1,460,000	\$0	\$1,460,000
18S19	Davidson Eastern Rocky River Sanitary Sewer Outfall	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$0	\$1,500,000
19S09	Beaver Dam Creek West Branch Outfall - Ph 2	\$0	\$0	\$0	\$0	\$2,500,000	\$2,500,000	\$0	\$2,500,000
19S15	Duck Creek Basin Pump Station	\$0	\$0	\$0	\$0	\$0	\$0	\$9,400,000	\$9,400,000
20S03	Beaverdam Creek Lift Station Improvements New PS	\$0	\$2,200,000	\$1,900,000	\$0	\$0	\$4,100,000	\$21,000,000	\$25,100,000
20S18	McAlpine WWTP Preliminary and Primary Treatment Facilities Improvements	\$0	\$1,000,000	\$6,000,000	\$6,000,000	\$0	\$13,000,000	\$0	\$13,000,000
21S02	Sugar Creek IPS/Preliminary Treatment Reliability Improvements	\$0	\$500,000	\$2,000,000	\$6,500,000	\$6,500,000	\$15,500,000	\$0	\$15,500,000
21S03	Odor Control at WWTPs	\$0	\$410,000	\$10,700,000	\$1,500,000	\$0	\$12,610,000	\$15,500,000	\$28,110,000
21S04	Moore's Chapel Gravity Sewer, Lift Station and Force Main	\$0	\$0	\$0	\$0	\$9,000,000	\$9,000,000	\$0	\$9,000,000
21S05	Inter Basin Transfer Management Project	\$0	\$0	\$0	\$0	\$0	\$0	\$72,000,000	\$72,000,000
21S06	Goose Creek Sewer Extension to Cresthill Dr	\$0	\$0	\$0	\$0	\$1,900,000	\$1,900,000	\$0	\$1,900,000
Sewer Totals		\$235,178,985	\$302,280,237	\$248,115,237	\$271,490,237	\$309,291,251	\$1,366,355,947	\$1,043,625,000	\$2,409,980,947

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Other									
20M08	Zone 4 Field Operations Center	\$12,000,000	\$11,500,000	\$6,000,000	\$0	\$0	\$29,500,000	\$0	\$29,500,000
20M04	Zone 2 FO Facility Expansion	\$2,650,000	\$0	\$0	\$0	\$0	\$2,650,000	\$0	\$2,650,000
02W71	GIS Facilities Mapping	\$1,732,000	\$1,515,000	\$1,515,000	\$1,620,000	\$1,325,000	\$7,707,000	\$6,625,000	\$14,332,000
12W02	Utility Management System	\$1,700,000	\$2,550,000	\$1,950,000	\$1,700,000	\$24,600,000	\$32,500,000	\$4,000,000	\$36,500,000
21M02	Control System Enhancements	\$1,000,000	\$1,000,000	\$750,000	\$500,000	\$500,000	\$3,750,000	\$0	\$3,750,000
20M09	Security Improvements	\$750,000	\$625,000	\$425,000	\$425,000	\$425,000	\$2,650,000	\$2,125,000	\$4,775,000
02W11	Technology Improvements	\$500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,500,000	\$5,000,000	\$9,500,000
15W06	Building and Facility Support	\$500,000	\$585,000	\$400,000	\$300,000	\$300,000	\$2,085,000	\$300,000	\$2,385,000
12W03	Meter Management Technology Improvement	\$200,000	\$50,000	\$50,000	\$50,000	\$50,000	\$400,000	\$50,000	\$450,000
18W01	E-Builder Capital Program	\$200,000	\$200,000	\$200,000	\$100,000	\$100,000	\$800,000	\$500,000	\$1,300,000
13W02	LIMS Program	\$75,000	\$75,000	\$50,000	\$50,000	\$50,000	\$300,000	\$250,000	\$550,000
18W02	AVL System Implementation	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
01S03	Work And Asset Management System	\$0	\$0	\$75,000	\$75,000	\$75,000	\$225,000	\$300,000	\$525,000
12W01	AMR Replacement Program	\$0	\$1,620,000	\$12,200,000	\$16,200,000	\$16,200,000	\$46,220,000	\$36,450,000	\$82,670,000
20M02	Brookshire Campus Expansion	\$0	\$0	\$0	\$5,000,000	\$10,000,000	\$15,000,000	\$75,000,000	\$90,000,000
20M03	Water And Wastewater WIMS Program	\$0	\$0	\$75,000	\$50,000	\$75,000	\$200,000	\$300,000	\$500,000
Other Totals		\$21,337,000	\$20,720,000	\$24,690,000	\$27,070,000	\$54,700,000	\$148,517,000	\$130,900,000	\$279,417,000
Total Expenses All Projects		\$332,296,584	\$435,080,837	\$351,305,237	\$372,160,237	\$455,441,251	\$1,946,284,146	\$1,697,859,500	\$3,644,143,646