

Priority	Project	Project Description	Reason	Projected Expense	Actual Expense	Status
1	Baptist Childrens Home Collector Line	Replace deteriorated concrete gravity line along Baptist Children's Home Road. Map Sheet E6	Permit Compliance, SSO Reduction	\$542,566	\$541,814	Complete
2	Fairgrove Water Lines Replacements	Replace approximately 16,579 linear feet of old 2" galvanized water main with 6" PVC water main.	Increase flow and apparent pressure, add hydrants to area system. Increase reliability. Decrease occurrence of line breaks and leaks.	\$1,187,846	\$1,186,353	Complete
3	East Davidson Pump Station	Upgrade of old, undersized pump station to handle flows, eliminate SSO's, and increase efficiency . Two new pumps with VFD controls, and replace nonfunctioning comminutor with new macerator.	Permit Compliance, SSO Reduction, Smooth out flows to WWTP	\$1,293,863	\$651,148	Complete
4	North Hamby Creek Outfall Phase I	Replace deteriorated, undersized concrete gravity outfall from WWTP back to Carmalt Street.	Permit Compliance, SSO Reduction	\$3,500,057		Nearing Completion
5	Northside Pump Station	Replace across-the-line pump controls with VFD controllers and replace nonfunctioning comminutor with new macerator.	Increase Efficiency, Reduce wear and tear on equipment, Smooth out flows to WWTP, Reduce electrical and maintenance expenses.	\$792,422	\$724,178	Complete
6	Water Plant Clearwell Improvements	Replace clearwell roofs and baffles and update some control valves.	Request from State of North Carolina. Increase mixing in clearwells.	\$1,284,301		Under Construction
7	Lawndale Subdivision Water Lines Replacement	Replace approximately 8,200 linear feet of old 2" galvanized water main and connect area to higher pressure zone.	Increase flow and pressure to this subdivision, add hydrants.	\$800,000		Design Engineering and Permitting underway. Application for funding in 2014 was denied. Will reapply for funding in 2015 cycle.
8	Water Plant Tube Settler Replacement	Replace old tube settlers. May change to plate settlers.	Existing tube settlers are old, made of plastic, and deteriorating.	\$863,009		Planned
9	Pilot Water Lines Replacement	Replace approximaetly 30,000 linear feet of old 2" galvanized water main with 6" PVC water main.	Increase flow and apparent pressure, add hydrants to area system. Increase reliability. Decrease occurrence of line breaks and leaks.	\$1,580,158		Surveying completed. Design Engineering of replacement lines to follow when funds are allocated.
10	Water Plant Alum Sludge Handling System	Build Alum Sludge Handling System at Water Plant Site	Alum Sludge currently enters the sanitary sewer system, creating operational problems in the collection system and at the Wastewater Treatment Plant.	\$1,435,817		Planned
11	Water Plant Filter Valve 1 Replacement	Replace Filter Valve #1.	Failing	\$408,714		Planned
12	North Hamby Creek Outfall Phase II	Replace multiple segments of deteriorated and incorrectly sized gravity outfall from Concord Street toward County Line Road.	Permit Compliance, SSO Reduction	\$5,264,661		Surveying completed. Design Engineering is underway.
13	Water Plant Filter Valve 2 Replacement	Replace Filter Valve #2.	Failing	\$429,150		Planned
14	New 24" Raw Water Line	Install new 24" raw water line from raw water pump station at Lake Tom-A-Lex to Water Plant	Existing lines are old and increasingly experience breaks. Maintain integrity and reliability of operations.	\$5,267,832		Planned

15	Water Plant Structural Improvements	Replace remaining flat roofs on buildings and repair concrete in Sedimentation Basins.	Roofs leak. Concrete spalling.	\$341,578		Planned
16	New Raw Water Pump & Motor	Replace one existing pump & motor at Raw Water Pump Station	Increase reliability and efficiency	\$902,303		Planned
17	North Hamby Creek Outfall Phase III	Replace any remaining segments of the old North Hamby Creek Outfall still needed	Permit Compliance, SSO Reduction	\$5,628,402		Surveying underway.
18	Hank's Branch Outfall Phase I	Replace deteriorated gravity line in area bordered by Fairview Road, Church Street, Brown Street, and Long Street.	Permit Compliance, SSO Reduction	\$4,221,301		Planned
19	Water Plant. Air backwash system for filters.	Replace existing conventional backwash system with an air water system	Reduce operating costs, cleaner filters, reduce backwash time and frequency.	\$1,489,460		Planned
20	Hank's Branch Outfall Phase II	Address upsizing of sections of piping in Hank's Branch Outfall from end to end.	Permit Compliance, Continuity of hydraulic flow	\$4,432,366		Planned
21	In-Town Water Line Replacements	Replace old 2" galvanized water main with 6" PVC water main.	Increase flow and apparent pressure, add hydrants to area system. Increase reliability. Decrease occurrence of line breaks and leaks.	\$2,565,509		Planned
22	Hunt's Fork Creek I&I Investigation	Analyze Hunt's Fork Creek Outfall for I&I sources.	Reduce I&I&E, SSO Reduction, Wet Weather flow reduction, Increase Efficiency			Planned
23	Hasty Area Water Line Replacements	Replace old 2" galvanized water main with 6" PVC water main.	Increase flow and apparent pressure, add hydrants to area system. Increase reliability. Decrease occurrence of line breaks and leaks.	\$2,262,779		Planned
24	Hasty Creek Outfall I&I Investigation	Analyze Hasty Creek Outfall for I&I sources.	Reduce I&I&E, SSO Reduction, Wet Weather flow reduction, Increase Efficiency			Planned
25	Hunt's Fork Creek Outfall Hydraulic Analysis	End to end hydraulic analysis and modeling	Permit Compliance, Continuity of hydraulic flow, SSO Reduction			Planned
26	Hasty Creek Outfall Hydraulic Analysis	End to end hydraulic analysis and modeling	Permit Compliance, Continuity of hydraulic flow, SSO Reduction			Planned
27	South Hamby Creek Outfall Hydraulic Analysis	End to end hydraulic analysis and modeling	Permit Compliance, Continuity of hydraulic flow, SSO Reduction, Reduce I&I&E			Planned

Updated 02/09/15