	Columbia 5-Y	ear IMP Action Plan ¹							
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	FY2021	FY2022	FY2023	Future Plans
	Waster	water Treatment							
			Protect public health and safety.	 Installed slide gate valve at WWTP outlet box. June 2019 \$20,455.00 Installed pipe between I&I basin and sludge 				 Contracted to have Mission Controllers installed at pump stations to better monitor wet well levels 	 Utilize pump station controls to identify inflow and infiltration.
Wet Weather Improvements*	Implement early measures to enhance peak flow capacity at	 Modify existing CWWTP structures to provide additional wet 	Improve quality of life.	lagoon so both can act as wet weather basins. July 2018 \$32,047.20					
	CRWWTP.	weather flow storage.	 Provide sustainable services for the future. Improve water quality.						
			Regulatory compliance.						
Digester Rehabilitation*	Rehabilitate aging biosolids digestion facilities.	Target design completion by 2019. Target construction completion	services for the future.			 Complete construction of Digester Complex Rehabilitation Project. Substantial completion March 9, 2021. Final payment September 30, 2021 			THIS PROJECT IS COMPLETE
		by 2021.		using a CIPP liner. September 2018 ~\$6,500		• WTU 2 emergency berm repair in progress due	Completed WTU 2 emergency berm repair from		Discuss impacts of wetland maintenance
Constructed Wetlands Maintenance	Initiate constructed wetlands maintenance efforts to improve treatment efficiency.	Develop plan and detailed cost estimates for implementing improvement actions.	 Provide sustainable services for the future. 			to flooding event in June 2021. ~\$50,000	flooding event in June 2021. ~\$60,000		disturbance with Geotechnical engineer, consider a study.
Other Actions taken at WWTP or in Sewer				 Rehabilitated a badly deteriorated manhole located with the plant piping system using a CIPP liner. November 2018 ~\$20,480 			 Drafted RFQ for design-build to install mechanical screens for wetland pump station. Cost of Service Study Storm Water completed Dec 2021 	 Contracted with a design build team of McClure Engineering and Martin General Contractors to install mechanical screens for the wetland pump station. 	 Complete design-build to install mechanical screens for wetland pump station. Contract with consultant to update 5 year action plan.

	Columbia 5-Y	ear IMP Action Plan ¹							
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	FY2021	FY2022	FY2023	Future Plans
	Wastev	water Collection	Benefits						
		 Rehabilitate up to 1% of collection system structures per year, depending upon contractor availability and pricing. 	Protect public health and safety.	 Began construction of the FY18 Main & Manhole Rehabilitation project. September 2018 ~\$2,404,712.63 	 Sewer collection system maintenance summary for FY2020 is attached 	 Sewer collection system maintenance summary for FY2021 is attached 	Sewer collection system maintenance summary for FY2022 is attached	 Sewer collection system maintenance summary for FY2023 is attached 	 Complete Sewer Rehabilitation #10 ~\$7,000,000 Issue PO for Sewer Rehab #11 ~\$2,700,000
					Completed FY18 Sewer Main & Manhole Rehabilitation project.	 Signed a contract, renewable for up to 5 years, for Sewer and Stormwater Rehabilitation and Cleaning Services with Ace Pipe Cleaning. 	Completed FY19 Sewer Rehabilitation; lined 30,511 feet in FY22. Completed Sewer Rehabilitation #8 project; lined 39,100 feet.	 Substantial completion of Sewer Rehabilitations #9 with 54,483 feet in FY23. 	 Funding for Rehabilitation Projects planned in CIP document through FY2030 ~\$,2,700,000 annually
System Renewal*	Continue system renewal at current rates with appropriation of dedicated funding to provide effective wastewater collection.	 Secure dedicated annual funding for continued renewal. Current bond funding runs out in 2019. 		 Constructed the Upper Merideth Sewer Relocation and Stream Stabilization Project. April 2019 ~\$351,397 	• Developed new technical specifications and RFP for a multi-year contract for Sewer and Stormwater Rehabilitation and Cleaning Services.	• Completed 90% of FY19 Sewer Rehabilitation Project ~\$3,166,000; Lined 46,452 feet pipe	 Initiate PO for Sewer Rehabilitation #9 \$2,991,205 Applied for MDNR ARPA funding for sewer rehabilitation work. 	 Initiate PO for Sewer Rehabilitation #10 \$7,095,168.69 Unsuccessful application for MDNR ARPA funding for sewer rehabilitation work. 	63/70 Sewer Relocation
			• Provide sustainable services for the future.	 17,278 feet sewer CCTV inspected (FY2019) 167 sanitary structures raised/replaced; 668 feet 	• 179,861 feet sewer CCTV inspected	• 225,460 feet sewer CCTV inspected	190,705 feet sewer CCTV inspected	 150,935 feet sewer CCTV inspected 212 sanitary structures raised/replaced; 196 feet 	63/ Grindstone Sewer relocation
			Improve water quality.	sewer repaired/replaced (FY2019)		 254 sanitary structures raised/replaced; 532 feet sewer repaired/replaced 	sewer repaired/replaced	sewer repaired/replaced • Completed construction of Court Hickory Sewer Relocation • Completed construction of S. Providence Sewer	
		Oractioner Deine to Oraconer						Relocation	
	Implement identified PCCE	 Continue Private Common Collector elimination, depending on ability to gain easements, as well as contractor availability and 	Protect public health and safety.	 Constructed the following private common collector elimination (PCCE) projects: 	Constructed the following private common collector elimination (PCCE) projects:	Constructed the following private common collector elimination (PCCE) projects:	 Constructed the following private common collector elimination (PCCE) projects: 	 Constructed the following private common collector elimination (PCCE) projects: 	 Proposed construction of the following private common collector elimination (PCCE) projects:
Private Common Collector Elimination (PCCE)*	projects in the CIP with appropriation of dedicated funding to reduce illicit sewage discharges.	 pricing. Secure dedicated funding. Current bond funding runs out in 2019. 	Improve quality of life.	• PCCE #24	• PCCE #3 Phase 2	• PCCE #3 Phase 3 - 90% complete	PCCE #3 Phase 4A and Phase 4B	PCCE #3 Stewart, Ridge, & Medavista Phase 5	PCCE #28 Hickory Hill
	-		Provide sustainable	• PCCE #39	• PCCE #8 Phase 4	• PCCE #8 Phase 5- 90% complete	PCCE #18 Spring Valley Rd	PCCE #23 Lakeshore & Edgewood	• PCCE #31 Oakwood
			services for the future.Improve water quality.	• PCCE #8 Phase 1, 2, 3	• PCCE #16 Phase 2	• PCCE #16 Phase 3 - 90% complete	PCCE #21 Stanford Dr	• PCCE #25 Glenwood	• PCCE #35 Richmond
				• PCCE #3 Phase 1	• PCCE #22			PCCE #27 Grace Ellen	• PCCE #38 N. 8th St.
				PCCE #16 Phase 1 and 2	 Allocated prior year appropriation to future PCCE projects in Dec 2019. 				 Funding for PCCE Projects to PCCE #50 planned in CIP document through FY2030
		 Obtain Council approval for backflow prevention program with allocation of \$100,000 per year for 5 years. 	Protect public health and safety.	 Implemented Cost Reimbursement Program for the Installation of Pressure Sewers and Backflow Devices or Removal of Plumbing Fixtures. July 2017 	 Sewer collection system maintenance summary for FY2020 is attached 	 Sewer collection system maintenance summary for FY2021 is attached 	Sewer collection system maintenance summary for FY2022 is attached	 Sewer collection system maintenance summary for FY2023 is attached 	 Continue to fund reimbursement programs
Reduce Building Backups*	Implement backflow prevention program to reduce building backups.	 Implement community outreach to build awareness of backflow prevention program. 	Improve quality of life.	 3 applications received. Funded \$1002.01 in reimbursements 	O applications received.	• 4 applications received. Funded \$1000 in reimbursements	• 1 reimbursement application received.	• 1 reimbursement application received.	•\$50,000 available for reimbursements in FY2024
			Provide sustainable services for the future.	Published article in City Source newsletter December 2018 and July 2019		 Individually contacted all owners that reported a backup during wet weather event about reimbursement program. 			
			Improve water quality.	 Dry Weather: 8 SSO; 7 backups FY19 	 Dry Weather: 6 SSO; 5 backups 	Dry Weather: 7 SSO; 3 backups	Dry Weather: 4 SSO; 2 backups	Dry Weather 7 SSO; 11 backups	
		Assess benefits and cost- effectiveness of previous and modified private I/I program.		 Revised ordinance for Cost Reimbursement Program for Private Source Inflow and Infiltration Reduction. Dec 2017 and July 2019 	 Sewer collection system maintenance summary for FY2020 is attached 	 Sewer collection system maintenance summary for FY2021 is attached 	Sewer collection system maintenance summary for FY2022 is attached	 Sewer collection system maintenance summary for FY2023 is attached 	 Develop flow model to identify capacity and I/I issues
		 Implement community outreach to build awareness of modified program. 	Improve quality of life.	• 5 applications received. Funded \$4485 in reimbursements	• 2 applications received. Funded \$675 in reimbursements	• 4 reimbursement applications received.	 1 reimbursement application received. 	 1 reimbursement application received 	•\$50,000 available for reimbursements in FY2023
	Reevaluate private I/I program to reduce peak wet weather flows.	program.		 Published an article in City Source newsletter January 2019 and July 2019 	Published an article in City Source newsletter December 2019	Updated website	 Discovered and removed open 24" diameter sewer pipe adjacent to Hinkson Creek. (20 to 30 mgd during a flooding event) 	 Capped a 6" cleanout pipe near airport lagoon causing l&l Maintenance to divert stormwater away from Pump Station 	
			Improve water quality.			 Installed 89 LCRs with FY19 Rehabilitation project 	 Lined a sewer main near Hulen Lake that was leaking approximately 1 mgd. 	 Eliminated 380 feet of broken and leaking 12" VCP Eliminated manholes 3B52 & 3B57 and 	
			Regulatory compliance.	• Wet Weather: 20 SSO; 2 backups FY2019	• Wet Weather: 2 SSO; 0 backups	• Wet Weather: 41 SSO; 9 backups	• Wet Weather: 6 SSO; 0 backups	abandoned associated pipes • Wet Weather: 0 SSO, 0 backups	

	Columbia 5-Y	ear IMP Action Plan ¹							
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	FY2021	FY2022	FY2023	Future Plans
System Expansion	Provide adequate and cost- effective wastewater services to developing areas for watershed protection.	 Fund expansion projects currently identified in the CIP, as needed. 	Protect quality of life.	• Constructed the Upper Hinkson Creek Outfall Extension Phase 1. August 2017 ~\$9,792,638	Sewer permit extension summary for FY2020 is attached	Sewer permit extension summary for FY2021 is attached	Sewer permit extension summary for FY2022 is attached	Sewer permit extension summary for FY2023 is attached	 Continue to review and permit sewer extensions
		 Develop systematic approach for evaluating sewer extensions to better identify sewer mains that should be upsized to convey future capacity. 	Provide sustainable services for the future.		 Constructed the Fifth to Wilkes Relief Sewer Phase 1. July 2020 ~\$384,280 		 Completed Innovyze contract to develop wastewater collection base model in Innovyze's InfoSWMM software. ~\$54,000 	 Contract with Olsson to complete a dry & wet weather calibration of sewer model using Innovyze's InfoSWMM software 	 Engineer to finalize calibration of model.
			Improve water quality.		 Hired Innovyze to aid in the development of a wastewater collection model in Innovyze's InfoSWMM software. Feb 2020 ~\$54,000 Hired a Sewer Technician to aid in modeling efforts on November 18. 2019 		 Contract with Olsson to prepare flow monitoring plan to calibrate the sewer model. Substantially completed Rt B Economic Development Sewer project \$832,178 	Contract with TREKK to collect 3 months of flow monitoring data	
Wet Weather Planning*		Conduct comprehensive flow monitoring through 2020 to calibrate collection system model.	Protect public health and safety.		enores on November 18, 2019		beveropment sewer project 3632,178		
	Develop collection system model and evaluate future system capacity enhancement	Develop model by 2021.	Improve quality of life.		 Hired Innovyze to aid in the development of a wastewater collection model in Innovyze's InfoSWMM software. Feb 2020 ~\$54,000 		 Completed Innovyze contract to develop wastewater collection base model in Innovyze's InfoSWMM software. \$54,000 	 Contract with TREKK to collect 3 months of flow monitoring data 	 Engineer to finalize calibration of model.
	strategies.	• Evaluate system capacity enhancement strategies through 2022.	Provide sustainable services for the future.		 Hired a Sewer Technician to aid in modeling efforts on November 18, 2019 		 Contract with Olsson to prepare flow monitoring plan to calibrate the sewer model. 	 Contract with Olsson to complete a dry & wet weather calibration of sewer model using Innovyze's InfoSWMM software 	
			Improve water quality.Regulatory compliance.				Completed Tupelo Larch relocation. \$201,425		
		 Develop prioritized cleaning program. 	 Protect public health and safety. 	883,311 feet sewer cleaned FY2019	• Sewer collection system maintenance summary for FY2020 is attached	• Sewer collection system maintenance summary for FY2021 is attached	• Sewer collection system maintenance summary for FY2021 is attached	 Sewer collection system maintenance summary for FY2023 is attached 	Continue sewer collection system maintenance and inspections
System Cleaning	Enhance sewer cleaning program to practicably mitigate overflows and backups due to blockages.	 Purchase new jet truck. Plan for new building for field operations and collections personnel. 	 Improve quality of life. Provide sustainable services for the future. 	 Purchased jet truck June 2018 	 Purchased jet truck December 2019 597,866 feet sewer cleaned 	 Purchased jet truck December 2020 668,395 feet sewer cleaned by City staff 	• 465,365 feet sewer cleaned by City staff	• 421,424 feet of sewer cleaned by City staff	 Re-evaluate new equipment and facilities due to inability to hire staff. Continue to evaluate cost: benefit of contracting maintenance work.
	DIUCKAUES.		Improve water quality.			 Contracted with Ace Pipe Cleaning to perform routine maintenance ~\$130,000 and 101,820 feet cleaned 	 Contracted with Ace Pipe Cleaning to perform routine maintenance 15,549 feet cleaned in FY22 ~\$94,369 contract 	 Contracted with Ace Pipe Cleaning to perform routine maintenance 31,500 feet cleaned in FY23 ~\$199,427 contract 	

	Columbia 5-1	ear IMP Action Plan ¹							
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	FY2021	FY2022	FY2023	Future Plans
	Stormw	ater Management	Benefits						
		Continue to develop and distribute public education messages as outlined in the Stormwater Management Plan.	Protect public health and safety.	Published an article in City Source newsletter in June 2018	Published an article in City Source newsletter in October 2019, June 2020, and Aug 2020	 Provided calendar year 2020 MS4 Annual Report on April 27, 2021; published to website 	 Provided calendar year 2021 MS4 Annual Report on April 28, 2022; published to website 	 Provided calendar year 2022 MS4 Annual Report on October 23, 2023; published to website 	• Update MS4 Storm water Management Plan (SWMP) and implement required public outreach.
		 Hire technician to support MS4 program with focus on IDDE. 	Improve quality of life.	 Hired a Storm Water MS4 Technician on January 28, 2019 	 Inspected 92,567 feet sewer line for damage. 	 Inspected 272,293 feet sewer line for damage. 	 Inspected 190,705 feet sewer line for damage. 	 Inspected 150,935 feet sewer line for damage 	 Publish articles in City Source newsletter and on social media
		 Conduct stream walks and outfall inspections in all City streams within 5-year action plan period. 	Provide sustainable services for the future.	 Completed 22 illicit discharge investigations 	 Completed 23 illicit discharge investigations 	 Completed 17 illicit discharge investigations 	 Completed 20 illicit discharge investigations 	 Completed 32 illicit discharge investigations 	Continue IDDE inspections
	Enhance Public Education and Outreach, Illicit Discharge	 Develop map of stormwater outfalls. 	Improve water quality.	 Developed a stormwater outfall map for MS4 permit renewal, 2307 outfalls identified. 	Completed 131 outfall inspections	Completed 838 outfall inspections	Completed 349 outfall inspections	Completed 371 outfall inspections	 Continue outfall inspections with a goal of 20% each year
MS4 Program Enhancements*	Detection and Elimination, and Construction Site Stormwater Runoff Control to reduce bacteria, sediment, and trash discharges.	 Update Erosion and Sediment Control Manual and policies and procedures. 	Regulatory compliance.			Work with MS4 partners to update SWMP	• MDNR approved the updated SWMP on April 1, 2022. Interested Parties meeting on January 19, 2022 and Public Hearing on March 7, 2022 with a 30+ day comment period.	CAM Chloride Report Completed	 BMP Inspection training for owners and contractors. City staff meeting to review SWMP
		 Continue to work with MS4 partners to effectively implement stormwater management program, particularly Minimum Control Measure #4. 				 Published an article in City Source newsletter in March 2021, April 2021 	 Published an articles in City Source newsletter: IDDE October 2021; SWMP December 2021; winter salt use February 2022; Hinkson Creek May 2022; watersheds June 2022; IDDE August 2022 	 Implemented Annual MS4 meeting, for training City Staff. Reviewed and revised (if needed) applicable ordinances, protocols, checklists etc 	 Update erosion and sediment control policies and procedures Implement Annual MS4 meeting
		 Continue to work with MS4 partners to implement CAM program to improve Hinkson Creek water quality. 		2017-2018 CAM Progress Report submitted		• 2019 CAM Progress Report finalized; 2020 CAM Progress Report drafted	2020 CAM Progress Report finalized		 Complete 2021 and 2022 CAM Progress Report
	Implement renewal program to address failing corrugated metal pipe (CMP) and structures beyond physical effective life.	 Initiate renewal activities as resources and funding allow. 	Protect public health and safety.	 Repaired thirty-one (31) storm structures and replaced one (1) FY2019 	Storm water maintenance summary for FY2020 is attached	• Storm water maintenance summary for FY2021 is attached	• Storm water maintenance summary for FY2022 is attached	Storm water maintenance summary for FY2023 is attached	
		 Secure additional funding to implement these actions. 	Improve quality of life.	 Replaced 458 feet storm pipe FY2019 	 Repaired twenty-six (26) storm structures and replaced three (3) 	 Replaced 284 feet storm pipe (181 ft CMP) 	• Replaced 1,454 feet storm pipe (1,406 ft CMP)	Replaced 575 feet storm pipe	
System Renewal			Provide sustainable services for the future.		• Replaced 1,229 feet storm pipe	Repaired 7 storm structures	 Repaired 17 storm structures FY19 Storm Rehab project & Aldeah and Ash Replacement and Rehabilitation Construct Bray Longwell ~\$160,000 	 Repaired 15 storm structures Completed Bray & Longwell Improvement Construct Capri Drive Improvement 	Ross Outlet Improvement Bernadette Drive Improvement Nebraska Avenue Improvement Develutions Development
			Improve water quality.				lining and renewal.	 Awarded MDNR ARPA funding for CMP pipe lining and renewal. Eligible for up to \$796,446.25 in ARPA funds. 	 Royal Lytham Drive Replacement Utilize MDNR ARPA funding for CMP pipe lining. \$800,000 ARPA ~\$200,000 City
	Establish and begin	 Begin assessing CMP throughout the City. Secure additional funding to implement these actions. 	 Protect public health and safety. Provide sustainable services for the future. 	CCTV inspected 32,660 feet of storm pipe FY2019	Storm water maintenance summary for FY2020 is attached CCTV inspected 57,425 feet storm pipe	Storm water maintenance summary for FY2021 is attached CCTV inspected 24,389 feet storm pipe	Storm water maintenance summary for FY2022 is attached CCTV inspected 46,200 feet storm pipe	Storm water maintenance summary for FY2023 is attached CCTV inspected 31,616 feet storm pipe	
Condition Assessment	implementing a condition assessment program.		Improve water quality.		 Developed new technical specifications and RFP for a multi-year contract for Sewer and Stormwater Rehabilitation and Cleaning Services. 		 Contract with TREKK Design Group to perform CMP condition assessment and prioritize system renewal. Inspected and prioritized 276 segments of 36" CMP or greater. \$32,365 	 Contracted with TREKK to complete a condition assessment on "unknown" pipes. 236 locations evaluated, and 124 characterizations completed 	 Continue condition assessment and prioritize system renewal as appropriate.
		 Implement opportunistic flood reduction projects, depending on available funding after emergency and critical system repairs. 	Protect public health and safety.			Storm water maintenance summary for FY2021 is attached Utilized ranking system to prioritize CIP funding.	 Storm water maintenance summary for FY2022 is attached 	 Storm water maintenance summary for FY2023 is attached 	
Flood Reduction	Address known areas of flooding to reduce public health and safety concerns.	Develop stormwater project ranking system.	• Provide sustainable services for the future.	 Developed a ranking system 	 Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed 	Completed design Hickman & 6th	Completed construction Hickman & 6th Started construction on Quail Drive Improvement	Completed construction on Quail Drive Improvement	 Nebraska Avenue Improvement Project Crestridge Drive Culvert Replacement Alan Lane Improvement Project
			Improve water quality.			Completed LOMR for upper square mile of Mill Creek	 Applied for MDNR ARPA funding for Nebraska improvement and Crestridge culvert replacement 	 Awarded MDNR ARPA funding for Nebraska Ave stormwater improvement. Eligible for up to \$619,660.60 in ARPA funds 	

	Columbia 5-Year IMP Action Plan ¹								
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	FY2021	FY2022	FY2023	Future Plans
	Reduce pollutant runoff in Hinkson Creek tributary watersheds to improve water quality.	 Implement opportunistic runoff treatment projects, depending on available funding. 	Protect public health and safety.			Maintain native vegetation areas where possible	 Applied for MDNR ARPA funding for Calvert Drive Detention 	Awarded MDNR ARPA funding for Calvert Dr. stormwater improvement. Eligible for up to \$2,219,928.20 in ARPA funds	 Increase native vegetation areas where possible
Runoff Treatment		 Develop stormwater project ranking system. 	 Provide sustainable services for the future. 	 Developed a ranking system 	 Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed 	CAM study: USGS Chemical Analysis ~\$25,130.67			• Utilize MDNR ARPA funding for Calvert Drive Detention. ~\$2,220,000 ARPA ~\$590,000 City
		Continue to implement CAM process.	Improve water quality.	 CAM study: Hinkson Creek Aquatic Macroinvertebrate Data Mining Project 	CAM study: Agerich Hinkson Creek Synoptic Sampling	 CAM study: Agerich Hinkson Creek Synoptic Sampling ~\$13,285 		Completed CAM Chloride study	• Fund CAM studies and projects as appropriate.
	Stabilize stream channels with	 Identify and implement opportunistic stream erosion control projects, depending on available funding after emergency and critical system repairs. 	 Protect public health and safety. 	 Constructed the Upper Merideth Sewer Relocation and Stream Stabilization Project. April 2019 ~\$351,397 		 Prepare information to fund Hinkson Creek Bank Stabilization at Clear Creek Force Main for FY22 	 Completed construction of Hinkson Creek Bank Stabilization at Clear Creek Force Main. ~\$90,000 		 Identify funding sources for green infrastructure projects.
Stream Erosion Control	excessive channel erosion to reduce sediment discharges.	Develop stormwater project ranking system.	• Provide sustainable services for the future.	Developed a ranking system	 Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed 	 Utilized ranking system to prioritize CIP funding. 	Utilized ranking system to prioritize CIP funding.	 Utilized ranking system to prioritize CIP funding. 	
		 Continue to implement CAM process. 	Improve water quality.					Awarded MDNR ARPA funding for Calvert Dr. cormwater improvement. Eligible for up to 2,219,928.20 in ARPA funds Completed CAM Chloride study Utilized ranking system to prioritize CIP funding. Contracted with TREKK Design Group to omplete CMP Unknown pipe study. Identified ver 124 unknown stormwater pipes Developed draft water quality monitoring plan	 Fund CAM studies and projects as appropriate
Planning and Program	Develop stormwater master plan and enhance data	 Initiate master planning and data management efforts. 	Protect public health and safety.			• 90% complete Stormwater Cost of Service Study ~\$30,000	Completed Stormwater Cost of Service Study ~\$30,000	 Contracted with TREKK Design Group to complete CMP Unknown pipe study. Identified over 124 unknown stormwater pipes 	
Support	pian and ennance data management processes.	Secure additional funding to implement these actions.	Provide sustainable services for the future.Improve water quality.						
	Activities to Measure	e Water Quality Improvements ⁴					-		
Water Quality Monitoring	Implement water quality monitoring program to help define baseline conditions and track future improvements.	 Develop water quality monitoring plan within first 5 years and implement when additional funding is secured. 	 Evaluate IMP effectiveness. Provide technical basis for future IMP modifications. 			• Prepare information to fund preparation of a Water Quality Monitoring plan for FY22	 Contracted with HDR to develop water quality monitoring plan. ~\$49,955 	Developed draft water quality monitoring plan	 Identify funding for water quality monitoring plan Contract with consultant to update 5 year action plan
Hinkson Creek Flow Gage	Collect continuous Hinkson Creek stream flow data.	Continue annual funding for USGS flow gage operation.	 Evaluate IMP effectiveness. Provide technical basis for future IMP modifications. 	Renewed funding 2018 and 2019	• Renewed funding 2020	Renewed funding for 2021	Renewed funding for 2022	Renewed funding for 2023	Renewed funding for 2024
Note 1 - Goals and actions identified in this 5-Year IMP Action Plan reflect the City's understanding of infrastructure and regulatory needs and priorities with respect to the information currently available. The City will implement these actions to the extent possible but acknowledge that weather, staff availability, Council approval and other resource constraints or unanticipated needs may impede complete implementation of the Action Plan or require that it be modified. Further, the City notes that many of the activities outlined in this Action Plan assume that sufficient additional funding will be made available through sewer rate increases, bond financing that must be approved through a local election, and stormwater rate increases that must be approved by a majority vote. If sufficient additional funding does not become available, the 5-Year IMP Action Plan will be modified to reflect available funding and resources.									
		ity staff and are denoted with an asterisk (*). risks, improve water quality, or enhance cus							
Note 3 - Targeted community b	enefits are presented in Section 4.3 a	and explained in greater detail in Attachmen	ts J and N.						
	ater quality improvements that occur	outline activities that will be used to measure over time. Additional program management a							