

Stormwater Program Update

City Council Budget Work Session
May 18, 2017



Stormwater Program

- Stormwater Utility Fee
- Program Expenditures
- Stormwater CIP
- Ongoing Project Update
- Recommended Project List
- Future Planning



Stormwater Utility Fee

- Currently \$3.75/month (ERU) or \$45/year
- Proposed \$0.50 increase for FY18
 - Provides \$914,490 per year
- \$4.25/month or \$51/year
 - \$0.25 increase proposed for FY19 & FY20
 - Total \$4.75/month or \$57/year

Residential Stormwater Rates and Revenues: Preliminary Analysis

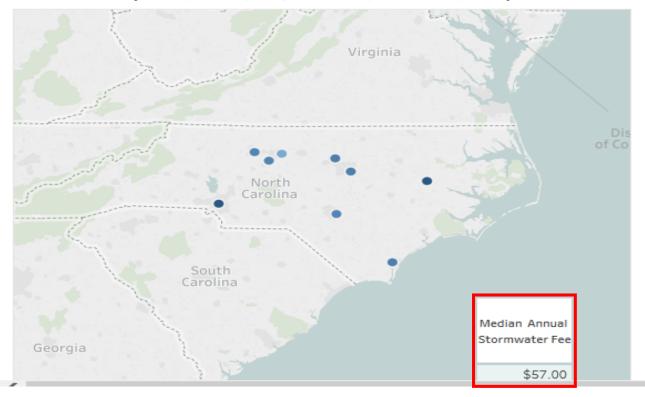
(Environmental Finance Center at the UNC School of Government 2017)



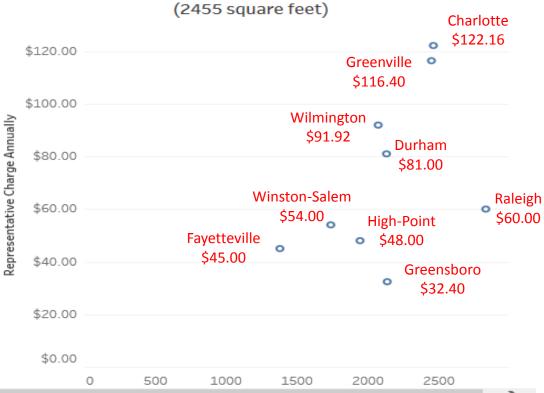
Geographic Region	Area in sq. mi	Population in Municipali	Stormwater Revenues	Fee Structure	Population De ▽ ▼
(AII) v	(AII)	(2013 Census)	(AII)	(AII)	(AII) T
		100 000+ ▼			

Residential Annual Stormwater Fee

(Example Property: 2455 Impervious sq. feet)



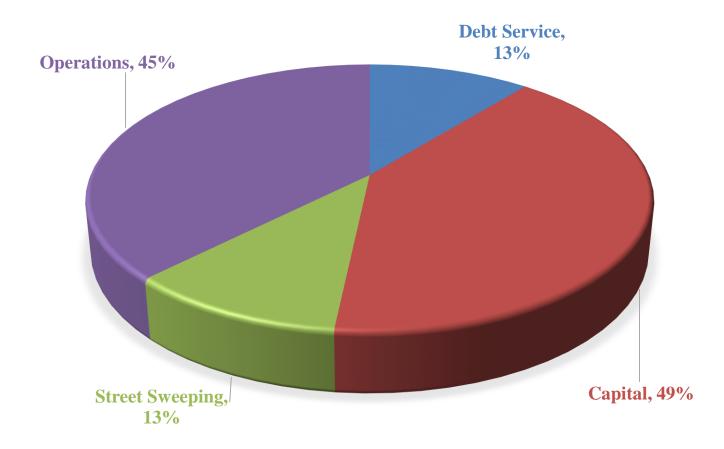
Population Density vs. Representative Annualized Single Family Residential Fee





Program Expenditures

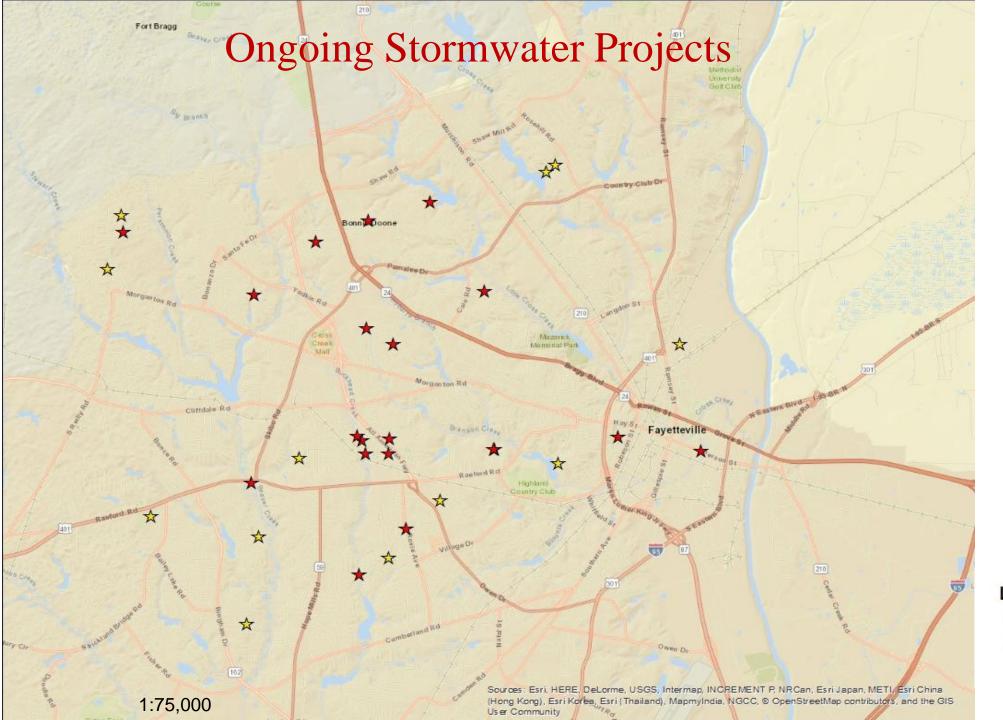
FY17 YR END PROJECTION: \$7,004,899





Stormwater CIP

- 33 CIP projects completed since 2011
 - Total cost of \$19,399,400
- 24 CIP project ongoing
 - Total cost of \$13,388,100
- 61 project pending in program to be funded
 - Total cost of \$ \$38,443,200



Legend

- ★ Spot_Repair_Active_Projects
- ★ CIP_Active_Projects

Status	Project Name	Estimated cost/Budge
Prior Fy's		
Under Construction	Godfrey Outfall Phase 1 & 2)	\$1,253,006.48
Under Construction	Bonnie Doone West of 3 and Central of 2 (Area 1)	\$552,193.00
Under Construction	Spot Repairs Package 1 - Dandridge, Ashbrook, Friendly	\$74,887.00
Under Construction	Spot Repairs Package 2 - North, Landau 1, Landau 2	\$231,458.00
Advertise & Bid	Coventry Culvert and Floodplain Bench (FPB), Glenwich Berm, Devonshire Drive FPB	\$1,750,946.00
Advertise & Bid	Bonnie Donne Area 12	\$112,350.00
Advertise & Bid	Ferncreek Norwood	\$112,350.00
Advertise & Bid	Yadkin Phase 2	\$2,291,794.00
Under Design	Bonnie Doone Area 5	\$1,539,272.00
Under Design	Roxie Ave Phase 1	\$1,402,800.00
Under Design	Spot Repair Package 1 Design - Norton	\$103,362.22
Under Design	Spot Repair Package 2 Design (estimated construction cost \$91,273.00) - Martindale, Forest Lake	\$84,431.00
Under Design	Spot Repair Package 3 Design - Blairwood, Mum Creek, Delliert	\$75,007.78
Under Design	Regiment (Design only)	\$65,000.00
Under Design	Spruce St Phase II	\$815,000.00
Design on-hold	Raeford Rd. Flood Plain Bench (design only)	\$184,605.00
Re-assesing	Land Acquisition Infiltration Basin Max Abbott	\$316,377.00
	Total	\$10,964,839.48

On-going Stormwater CIP Project Status

FY17		
Re-assesing	Infiltration Basin Max Abbott Phase 1	\$290,000.00
Under Design	Spot Repair Program	\$200,000.00
Under Design	Beaver Creek 2 Watershed Study	\$420,000.00
Under Design	McGilvary Street	\$238,234.00
Under Design	Broyhill Drive drainage improvement	\$171,990.00
Under Design	Bonnie Doone, Area 2	\$557,550.00
Re-assesing	Dry Detention Sycamore Dairy	\$245,500.00
	Easement / Land Acq	\$150,000.00
	Project Management	\$150,000.00
	Total	\$2,423,274.00
	Total On-going projects	\$13,388,113.48



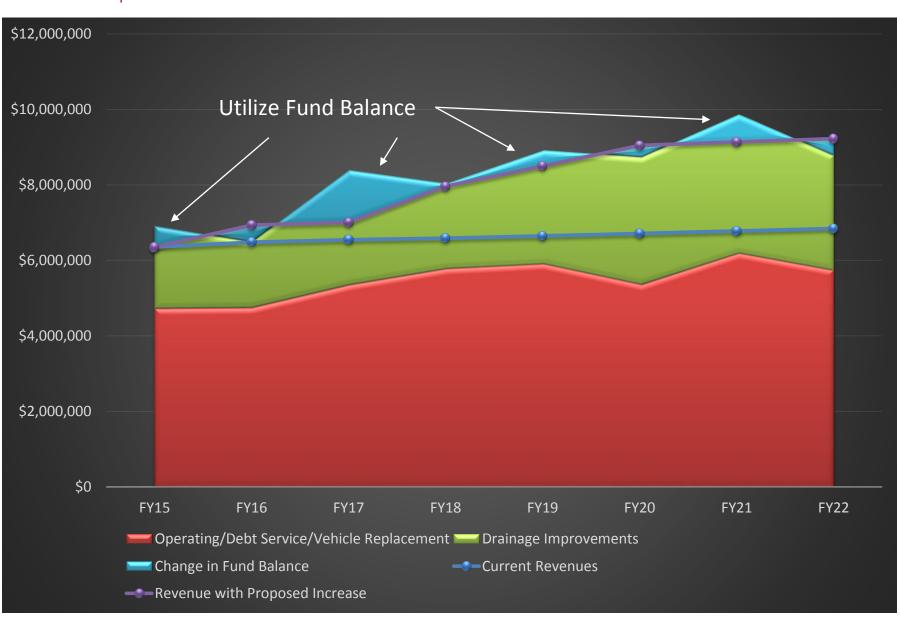
Recommended Project List

Includes

- Council's request to accelerate projects by 25%
- Continuation of planned Stormwater Fee increase
 - \$0.50 FY 18
 - \$0.25 FY 19 and FY 20

## Project Name Estimated cost/Budget Council District Watershed Project Source Project Source S550,000.00 2 Cape Fear 1 Drainage Complaint Drainage Complain			Stormwater CIP				
Project Name		Budget I	Recommendation - Re	vised			
Project Name						5/17/2017	7
PY18		Project Name	Estimated cost/Budget	Council District	Watershed		
FY18	FY18			2	Cape Fear 1		
PY18	FY18	North St (1226)		2			
P718							
Project Management S150,000.00 S2,5,9 Blounts Creek Watershed Study S500,000.00 S2,5,9 Blounts Creek Watershed Study S700,000.00 S7 Beaver Creek Drainage Complaint F19 Louise St S470,000.00 S7 Beaver Creek Drainage Complaint F19 Spruce Street, Acorn Phase 3 S520,000.00 S2 Blounts Creek Drainage Complaint Moved from F120 F19 Spruce Street, Acorn Phase 3 S520,000.00 S2 Blounts Creek Drainage Complaint Moved from F120 F19 Spruce Street, Acorn Phase 3 S520,000.00 S2 Blounts Creek Drainage Complaint Moved from F120 F19 Spruce Street, Acorn Phase 3 S500,000.00 S2 Blounts Creek Drainage Complaint Moved from F120 F19 Spruce Street, Acorn Phase 3 S500,000.00 S4 Street, Acorn Phase 3 S500,000.00 S4 Street, Acorn Phase 3 S500,000.00 S5 Beaver Creek 2 S600,000.00 S6 Seaver Creek 2 S600,000.00 S6 S600,000.00 S600,0	FY18					-	
PV19 Blount's Creek Watershed Study \$500,000.00 2,5,9 Blounts Creek Watershed Study \$500,000.00 2,5,9 Blounts Creek Watershed Study \$700,000.00 3 \$700,000 \$700	FY18		. ,			-	
PY19			·				
FY19	FY19	Blount's Creek Watershed Study			Blounts Creek	Watershed Study	
PY.19	FY19	·	\$620,000.00		Cross Creek		
PY19	FY 19			7	Beaver Creek 2		
** Freezewood (2700) \$300,000.00 2 Blounts Creek Drainage Complaint ** Moved from FY21 FY19 Spot Repair Program \$300,000.00 -		* Spruce Street, Acorn Phase 3		2	Little Cross Creek		* Moved from FY20
FY 19		·		2			* Moved from FY21
FY 19	FY 19	Spot Repair Program	\$300,000.00			-	
Total \$3,010,000.00	FY 19		\$150,000.00			-	
FY20	FY 19	Project Management	\$150,000.00			-	
FY20		Total	\$3,010,000.00				
Pry20	FY20	Raeford Rd (Lafayette Village)	\$980,000.00	5	Beaver Creek 2	Neighborhood Study	
FY20	FY20	* Roxie Ave Phase 2	\$1,900,000.00	5	Buckhead Creek	Watershed Study	* Moved from FY22
FY20	FY20	Spot Repair Program	\$200,000.00			Drainage Complaint	
Total \$3,380,000.00 N/A N/A Watershed Study \$500,000.00 N/A N/A Watershed Study S500,000.00 N/A N/A Watershed Study S500,000.00 N/A N/A Watershed Study S500,000.00 S, 9 Buckhead Creek Watershed Study *Added project Spot Repair Program \$200,000.00 S, 4 Little Cross Creek Neighborhood Study *Added project Spot Repair Program \$200,000.00 S Drainage Complaint S15,000.00 S Spot Repair Project Management S15,000.00 S Spot Repair Program S15,000.00 S Spot Repair Program S15,000.00 S Spot Repair Program S16,000.00 S Spot Repair Program S200,000.00 Spot Repair Program S200,000.00 S Sp	FY20	* Easement / Land Acq	\$150,000.00			-	* Increased by \$50K
FY21	FY20	Project Management	\$150,000.00			-	
Raeford FPB		Total	\$3,380,000.00				
# Bonnie Doone Area 3 \$1,526,400.00 3, 4 Little Cross Creek Neighborhood Study * Added project FY21 Spot Repair Program \$200,000.00	FY21	Watershed Study	\$500,000.00	N/A	N/A	Watershed Study	
FY21 Spot Repair Program \$200,000.00 Drainage Complaint FY21 Easement / Land Acq \$150,000.00 - Total \$3,671,950.00 - Total \$3,671,950.00 5 Buckhead Creek Watershed Study * Added project FY22 * Birch (Lafayette Village) \$1,833,120.00 5 Beaver Creek 2 Neighborhood Study * Added project FY22 Spot Repair Program \$200,000.00 Drainage Complaint FY22 Easement / Land Acq \$150,000.00 - - FY22 Project Management \$150,000.00 - - Total \$3,043,400.00 Grand Total \$15,365,350.00 Remaining projects in program 48	FY21	Raeford FPB	\$1,145,550.00	5,9	Buckhead Creek	Watershed Study	
FY21	FY21	* Bonnie Doone Area 3	\$1,526,400.00	3, 4	Little Cross Creek	Neighborhood Study	* Added project
FY21	FY21	Spot Repair Program	\$200,000.00			Drainage Complaint	
Total \$3,671,950.00 FY22 * Roxie Ave Phase 3 \$710,280.00 5 Buckhead Creek Watershed Study * Added project FY22 * Birch (Lafayette Village) \$1,833,120.00 5 Beaver Creek 2 Neighborhood Study * Added project FY22 Spot Repair Program \$200,000.00 Drainage Complaint FY22 Easement / Land Acq \$150,000.00 FY22 Project Management \$150,000.00 Grand Total \$3,043,400.00 Remaining projects in program 48	FY21	Easement / Land Acq	\$150,000.00			-	
FY22 * Roxie Ave Phase 3 \$710,280.00 5 Buckhead Creek Watershed Study * Added project FY22 * Birch (Lafayette Village) \$1,833,120.00 5 Beaver Creek 2 Neighborhood Study * Added project FY22 Spot Repair Program \$200,000.00 FY22 Easement / Land Acq \$150,000.00 FY22 Project Management \$150,000.00 Grand Total \$3,043,400.00 Remaining projects in program 48	FY21	Project Management	\$150,000.00			-	
# Birch (Lafayette Village) \$1,833,120.00		Total	\$3,671,950.00				
FY22 Spot Repair Program \$200,000.00 Drainage Complaint FY22 Easement / Land Acq \$150,000.00 - FY22 Project Management \$150,000.00 - Total \$3,043,400.00 - Grand Total \$15,365,350.00 - Remaining projects in program 48	FY22	* Roxie Ave Phase 3	\$710,280.00	5	Buckhead Creek	Watershed Study	* Added project
FY22 Easement / Land Acq \$150,000.00 - FY22 Project Management \$150,000.00 - Grand Total \$3,043,400.00 - - Grand Total \$15,365,350.00 - Remaining projects in program 48	FY22	* Birch (Lafayette Village)	\$1,833,120.00	5	Beaver Creek 2	Neighborhood Study	* Added project
FY22 Project Management \$150,000.00 - Total \$3,043,400.00 - Grand Total \$15,365,350.00 - Remaining projects in program 48	FY22	Spot Repair Program	\$200,000.00			Drainage Complaint	
Total \$3,043,400.00	FY22	Easement / Land Acq	• •			-	
Grand Total \$15,365,350.00 Remaining projects in program 48	FY22					-	
Remaining projects in program 48		Total	\$3,043,400.00				
Remaining projects in program 48							
		Grand Total	\$15,365,350.00				
\$ 26,777,896.84		Remaining projects in program					
			\$ 26,777,896.84				

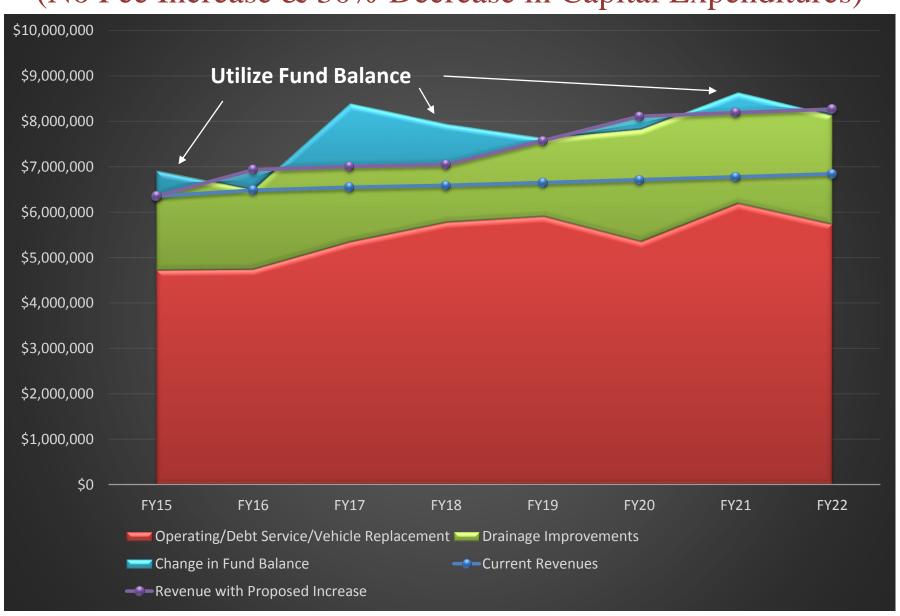
Projected Stormwater Revenues and Expenses \$0.50 Fee Increase & 25% Acceleration



Financial Model

	Actual FY15	Actuals FY16 Modified Accrual	Projected FY17 Yr End (excl. Hurricane SL)	Recommended FY18	Projected FY19	Projected FY20	Projected FY21	Projected FY22
Revenues	71010011112							
Storm Water Fee (\$3.50)	6,196,083	6,318,583	6,374,535	6,443,445	6,507,879	6,572,958	6,638,688	6,705,075
Fee Increase FY16 (0.25)		451,327	457,245	457,245	461,817	466,435	471,099	475,810
Fee Increase FY17 (0.00)			-	-	-	-	-	-
Fee Increase FY18 (0.50)				914,490	923,635	932,871	942,200	951,622
Fee Increase FY19 (0.25)					461,817	466,435	471,099	475,810
Fee Increase FY20 (0.25)						466,435	471,099	475,810
Total Storm Water Fees	6,196,083	6,769,910	6,831,780	7,815,180	8,355,148	8,905,134	8,994,185	9,084,127
Total Revenue	6,350,945	6,935,716	7,004,899	7,962,190	8,496,875	9,046,025	9,135,019	9,224,293
Expenditures								
Operating								
Total Operating Costs	3,536,435	3,699,136	4,054,888	4,142,543	4,266,820	4,394,824	4,526,669	4,662,469
Income Available for Debt Service	2,814,510	3,236,579	2,950,011	3,819,647	4,230,055	4,651,201	4,608,350	4,561,824
Debt Service								
Total Debt Service	917,415	913,213	913,463	913,086	917,081	920,214	917,642	914,443
Net Income before Capital Expenditures	1,897,095	2,323,366	2,036,548	2,906,561	3,312,974	3,730,987	3,690,708	3,647,381
Capital								
Vehicles/Equipment	58,000		130,500	440,000	227,210	41,000	-	156,000
Stormwater Drainage Improvements	2,199,842	1,759,440	3,045,320	2,260,000	3,010,000	3,380,000	3,671,950	3,043,400
Street Sweeping -Vehicles/Equip	210,000	132,000	250,000	285,000	498,000	-	747,000	-
Total Capital	2,467,842	1,891,440	3,425,820	2,985,000	3,735,210	3,421,000	4,418,950	3,199,400
Total Expenditures	6,921,692	6,503,789	8,394,171	8,040,629	8,919,111	8,736,038	9,863,261	8,776,312
Revenue Over (Under) Expenditures	(570,747)	431,926	(1,389,272)	(78,439)	(422,236)	309,987	(728,242)	447,981
Beginning Available Fund Balance	2,720,219	2,227,866	2,601,827	1,212,555	1,134,116	711,880	1,021,867	293,625
Ending Available Fund Balance	2,227,866	2,601,827	1,212,555		711,880	1,021,867	293,625	741,605

Projected Stormwater Revenues and Expenses (No Fee Increase & 30% Decrease in Capital Expenditures)



Financial Model (no increase)

	Actual FY15	Actuals FY16 Modified Accrual	Projected FY17 Yr End (excl. Hurricane SL)	Recommended FY18	Projected FY19	Projected FY20	Projected FY21	Projected FY22
Revenues			,					
Storm Water Fee (\$3.50)	6,196,083	6,318,583	6,374,535	6,443,445	6,507,879	6,572,958	6,638,688	6,705,075
Fee Increase FY16 (0.25)		451,327	457,245	457,245	461,817	466,435	471,099	475,810
Fee Increase FY17 (0.00)			-	-	-	-	-	-
Fee Increase FY18 (NONE)				-	-	-	-	-
Fee Increase FY19 (0.25)					461,817	466,435	471,099	475,810
Fee Increase FY20 (0.25)						466,435	471,099	475,810
Total Storm Water Fees	6,196,083	6,769,910	6,831,780	6,900,690	7,431,513	7,972,263	8,051,985	8,132,505
Total Revenue	6,350,945	6,935,716	7,004,899	7,047,700	7,571,611	8,110,626	8,190,969	8,271,335
Expenditures								
Operating								
Total Operating Costs	3,536,435	3,699,136	4,054,888	4,142,543	4,266,820	4,394,824	4,526,669	4,662,469
Income Available for Debt Service	2,814,510	3,236,579	2,950,011	2,905,157	3,304,791	3,715,802	3,664,300	3,608,866
Debt Service								
Total Debt Service	917,415	913,213	913,463	913,086	917,081	920,214	917,642	914,443
Net Income before Capital Expenditures	1,897,095	2,323,366	2,036,548	1,992,071	2,387,710	2,795,588	2,746,658	2,694,423
Capital								
Vehicles/Equipment	58,000		130,500	440,000	227,210	41,000	-	156,000
Stormwater Drainage Improvements	2,199,842	1,759,440	3,045,320	2,160,000	1,720,000	2,470,000	2,445,550	2,400,000
Street Sweeping -Vehicles/Equip	210,000	132,000	250,000	285,000	498,000	-	747,000	-
Total Capital	2,467,842	1,891,440	3,425,820	2,885,000	2,445,210	2,511,000	3,192,550	2,556,000
Total Expenditures	6,921,692	6,503,789	8,394,171	7,940,629	7,629,111	7,826,038	8,636,861	8,132,912
Revenue Over (Under) Expenditures	(570,747)	431,926	(1,389,272)	(892,929)	(57,500)	284,588	(445,892)	138,423
Beginning Available Fund Balance	2,720,219	2,227,866	2,601,827	1,212,555	319,626	262,126	546,714	100,821
Ending Available Fund Balance	2,227,866	2,601,827	1,212,555	319,626	262,126	546,714	100,821	239,244



Master Planning

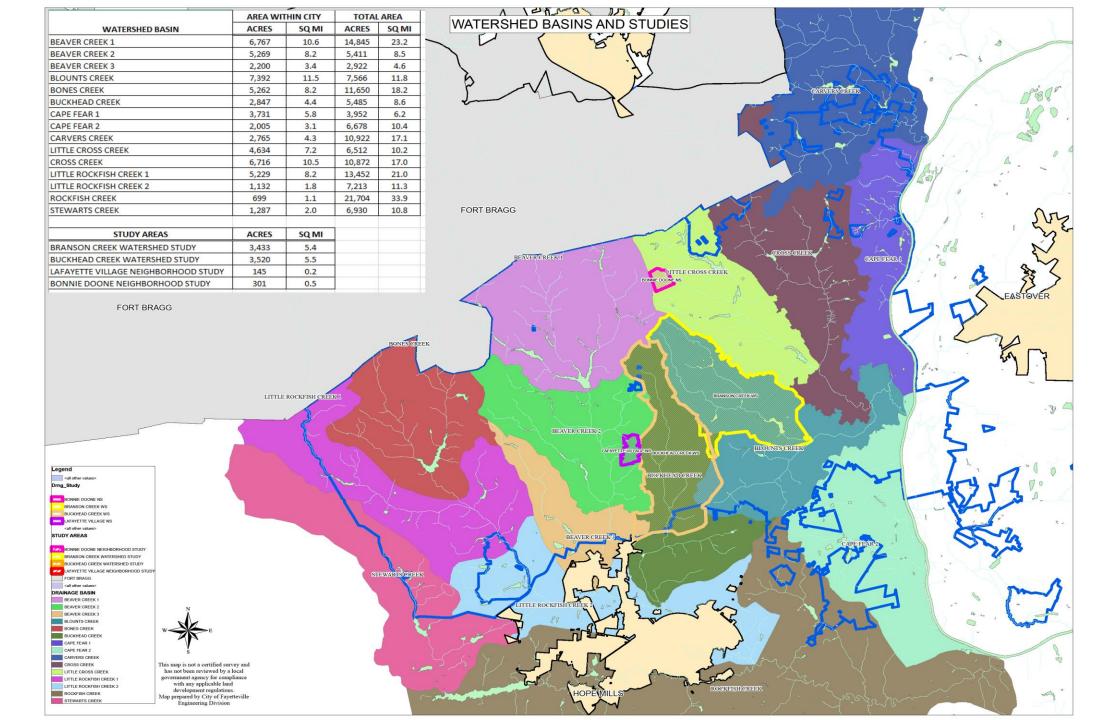
- Request for Interest (RFI) Study multiple watersheds
- Request for Qualification (RFQ) To review stormwater ordinance
- Cost and Duration Factors
 - Complexity of scope
 - Public involvements & outreach
 - Stakeholder involvement
 - Characteristics and size of the watersheds
 - Review periods



Master Planning

Peer Cities

- Chapel Hill working on first detailed study.
- Durham Portion of city addressing water quality issues. Quantity control in place since 1997.
- Greenville Master Plan developed to study 7 basins.
- Greensboro Comprehensive study of 2 basins completed in the past.
- Raleigh 16 basins updated as budget allows. Dynamic CIP list with only current budget year fixed.
- Wilmington Comprehensive study of 2 basins to determine if stormwater system meets standard.
- Winston-Salem 15 basins with a dynamic list, addressing one basin at a time.





Studies Completed

Study Area	Size(SQ MI)	Size(Acres)	Cost Study	Duration (concurrent)	Identified needs of improvements
Buckhead Creek WS	5.5	3520	\$ 408,874	16 months	\$ 12,900,000
Branson Creek WS	Creek WS 5.4 343		\$ 213,910	16 months	\$ 9,100,000
Lafayette Village NS	0.23	145	\$ 83,500	7 months	\$ 4,900,000
Bonnie Doone NS	0.48	302	\$ 216,593	6 months	\$ 6,100,000
Total	11.61	7400	\$ 922,877	16 months	\$ 33,000,000



433 Hay Street
Fayetteville, NC 28301-5537
www.cityoffayetteville.org
www.faytv7.com www.fayettevilleoutfront.com











The City of Fayetteville, North Carolina does not discriminate on the basis of race, sex, color, age, national origin, religion, or disability in its employment opportunities, programs, services or activities.

On-going Stormwater CIP Project Status

Last updated 5-15-17

Status Prior Fy's	Project Name	Estimated cost/Budget	Location	Council District	Watershed	Project Source	Timeline notes
Completed	Glen Canyon Culvert Replacement	\$980,863.50	506 Glen Canyon Dr	4	Beaver Creek 1	Drainage complaint	Completed
Completed	Buckhead-Kingsford	\$1,824,146.00	540 Levenhall Dr & 4215 Ferncreek Dr	5	Buckhead Creek	Watershed Study	Completed
Completed	Person St Innovative Stormwater/ Greenscape	\$563,531.00	400 Person St	2	Blounts Creek	Staff Initiative	Completed
Under Construction	Godfrey Outfall Phase 1 & 2)	\$1,253,006.48	7307 Godfrey Dr	4	Beaver Creek 1	Annexation project	Construction: June 2017-January 2018
Under Construction	Bonnie Doone West of 3 and Central of 2 (Area 1)	\$552,193.00		4	Beaver Creek 1	Neighborhood Study	Construction: June 2017-September 2017
Under Construction	Spot Repairs Package 1 - Dandridge, Ashbrook, Friendly	\$74,887.00	524 Dandridge, 756 Ashbrook, & 3211 Friendly	4, 9, & 5	Beaver Creek 1, 2, Buckhead Creek	Drainage Complaints	To be constructed by in-house crew
Under Construction	Spot Repairs Package 2 - North, Landau 1, Landau 2	\$231,458.00	1111 North, 1033 Landau	2, 3	Cape Fear 1, Cross Creek	Drainage Complaints	North Construction: May - July 2017 Landau 1 & 2 Construction: September - November 2017
Advertise & Bid	Coventry Culvert and Floodplain Bench (FPB), Glenwich Berm, Devonshire Drive FPB	\$1,750,946.00	4498 Coventry Rd	5	Buckhead Creek	Watershed Study	Construction: August 2017 - February 2018
Advertise & Bid	Bonnie Donne Area 12	\$112,350.00	1522 Stansfield Dr	3 and 4	Little Cross Creek	Neighborhood Study	Construction: August 2017 - October 2017
Advertise & Bid	Ferncreek Norwood	\$112,350.00	4364 Ferncreek Dr	5	Buckhead Creek	Watershed Study	Construction: August 2017 - October 2017
Advertise & Bid	Yadkin Phase 2	\$2,291,794.00	Cimarron to Santa Fe	4	Beaver Creek 1	Drainage complaint	Construction: August 2017- June 2018
Under Design	Bonnie Doone Area 5	\$1,539,272.00	5204 Ike St			Neighborhood Study	20% design. Design complete: December 2017
Under Design	Roxie Ave Phase 1	\$1,402,800.00	1001 Martindale Dr	5	Buckhead Creek	Watershed Study	90 % design. Design complete: July 2017 Advertise & Bid: August - September 2017 Construction: November 2017 - October 2018
Under Design	Spot Repair Package 1 Design - Norton	\$103,362.22	6320 Norton Dr	7	Beaver Creek 3	Drainage Complaint	90% design. Easement challenges
Under Design	Spot Repair Package 2 Design (estimated construction cost \$91,273.00) - Martindale, Forest Lake	\$84,431.00	Martindale Dr, 506 Forest Lake Rd	5, 2	Buckhead Creek, Blounts Creek	Drainage Complaint	90% design. Easement challenges / Utility conflicts
Under Design	Spot Repair Package 3 Design - Blairwood, Mum Creek, Delliert	\$75,007.78	Blairwood Dr, 5604 Mum Creek Ln, 6503 Deliert Ct	7, 6, 4	Beaver Creek 2, 3, 1	Drainage Complaint	70% design. Design complete: July 2017 Advertise & Bid: August - September 2017 Construction: November 2017- February 2018
Under Design	Regiment (Design only)	\$65,000.00		9	Blounts Creek	Watershed Study	20% design. Design complete: December 2017
Under Design	Spruce St Phase II	\$815,000.00	1109 Acorn St & 1108 Stamper Rd	2	Little Cross Creek	Drainage Complaint	90 % design. Design complete: July 2017 Advertise & Bid: August - September 2017 Construction: November 2017 - June 2018
Design on-hold	Raeford Rd. Flood Plain Bench (design only)	\$184,605.00		5 and 9	Buckhead Creek	Watershed Study	On-Hold until NCDOT completes Raeford Rd median project
Re-assesing	Land Acquisition Infiltration Basin Max Abbott	\$316,377.00	2601 Brigadoon Ln	5	Blounts Creek	Watershed Study	Cost of land is prohibitive. Suggest re-directing funds to another project within the same watershed.
EV4.7	Total	\$14,333,379.98					
FY17							Cost of land is prohibiting suggest to direction
Re-assesing	Infiltration Basin Max Abbott Phase 1	\$290,000.00	2601 Brigadoon Ln	5	Blounts Creek	Watershed Study	Cost of land is prohibitive. Suggest re-directing funds to another project within the same watershed.
Under Design	Spot Repair Program	\$200,000.00				Drainage Complaint	Under investigation

Status	Project Name	Estimated cost/Budget	Location	Council District	Watershed	Project Source	Timeline notes
Under Design	Beaver Creek 2 Watershed Study	\$420,000.00		4,7,9	Beaver Creek 2	Watershed Study	May 2017 - September 2018
Under Design	McGilvary Street	\$238,234.00	717 McGilvary St	2	Cross Creek	Roadway CIP	70% design. Design complete: July 2017 Advertise & Bid: August - September 2017 Construction: November 2017- October 2018
Under Design	Broyhill Drive drainage improvement	\$171,990.00	4321 Ferncreek Dr	5	Buckhead Creek	Watershed Study	Design Complete: December 2017 Advertise & Bid: January - February 2018 Construction: April - June 2018
Under Design	Bonnie Doone, Area 2	\$557,550.00	5008 Collins St	4	Little Cross Creek	Neighborhood Study	Design Complete: February 2018 Advertise & Bid: March - April 2018 Construction: June - October 2018
Re-assesing	Dry Detention Sycamore Dairy	\$245,500.00	2500 Thorngrove Ct	9	Blounts Creek	Watershed Study	Development in the location
	Easement / Land Acq	\$150,000.00				-	
	Project Management	\$150,000.00				-	
	Total	\$2,423,274.00					

\$13,388,113.48 (doesn't include completed projects)

Total On-going projects

Stormwater CIP Budget Recommendation - Revised

5/17/2017 **Project Name** Estimated cost/Budget **Council District** Watershed **Project Source Revision notes** Neville St \$560,000.00 2 Cape Fear 1 Drainage Complaint North St (1226) \$1,100,000.00 2 Cape Fear 1 **Drainage Complaint** Drainage Complaint Spot Repair Program \$300.000.00 Easement / Land Acq \$150,000.00 \$150,000.00 **Project Management** Total \$2,260,000.00 Blount's Creek Watershed Study \$500,000.00 2, 5, 9 **Blounts Creek** Watershed Study 3 Sunbury Dr (867) \$620,000.00 Cross Creek **Drainage Complaint** Louise St \$470,000.00 Beaver Creek 2 **Drainage Complaint** * Spruce Street, Acorn Phase 3 2 * Moved from FY20 \$520,000.00 Little Cross Creek **Drainage Complaint** * Moved from FY21 * Breezewood (2700) \$300,000.00 **Blounts Creek Drainage Complaint** Spot Repair Program \$300,000.00 Easement / Land Acq \$150,000.00 \$150,000.00 **Project Management** Total \$3,010,000.00 Raeford Rd (Lafayette Village) \$980,000.00 Beaver Creek 2 **Neighborhood Study** * Roxie Ave Phase 2 \$1,900,000.00 5 **Buckhead Creek** Watershed Study * Moved from FY22 \$200,000.00 **Drainage Complaint** Spot Repair Program * Increased by \$50K * Easement / Land Acq \$150,000.00 \$150,000.00 **Project Management** Total \$3,380,000.00 Watershed Study \$500,000.00 N/A N/A Watershed Study 5, 9 **Buckhead Creek** Raeford FPB \$1,145,550.00 Watershed Study 3, 4 * Bonnie Doone Area 3 \$1,526,400.00 Little Cross Creek Neighborhood Study * Added project FY21 Spot Repair Program \$200,000.00 **Drainage Complaint** Easement / Land Acq \$150,000.00 \$150,000.00 **Project Management** Total \$3,671,950.00 * Roxie Ave Phase 3 \$710,280.00 5 **Buckhead Creek** Watershed Study * Added project * Birch (Lafayette Village) \$1,833,120.00 5 Beaver Creek 2 Neighborhood Study * Added project Spot Repair Program \$200,000.00 **Drainage Complaint** Easement / Land Acq \$150,000.00 **Project Management** \$150,000.00 Total \$3,043,400.00

Grand Total \$15,365,350.00

Remaining projects in program 48

\$ 26,777,896.84

Stormwater CIP No fee increase on FY18

5/17/2017

	Project Name	Estimated cost/Budget	Council District	Watershed	Project Source	Revision notes
FY18	Neville St	\$560,000.00	2	Cape Fear 1	Drainage Complaint	
FY18	North St (1226)	\$1,100,000.00	2	Cape Fear 1	Drainage Complaint	
FY18	* Spot Repair Program	\$200,000.00			Drainage Complaint	* Reduced by \$100K
FY18	Easement / Land Acq	\$150,000.00			-	
FY18	Project Management	\$150,000.00			-	
	Total	\$2,160,000.00				
FY19	* Blount's Creek Watershed Study	\$600,000.00	2, 5, 9	Blounts Creek	Watershed Study	* Increased by \$100K
FY19	Sunbury Dr (867)	\$620,000.00	3	Cross Creek	Drainage Complaint	
FY 19	Spot Repair Program	\$300,000.00			Drainage Complaint	
FY 19	* Easement / Land Acq	\$100,000.00			-	* Reduced by \$50K
FY 19	* Project Management	\$100,000.00			-	* Reduced by \$50K
	Total	\$1,720,000.00				
FY20	Spruce Street, Acorn Phase 3	\$520,000.00	2	Little Cross Creek	Drainage Complaint	
FY20	* Louise St	\$470,000.00	7	Beaver Creek 2	Drainage Complaint	* Delayed from FY19
FY20	Raeford Rd (Lafayette Village)	\$980,000.00	5	Beaver Creek 2	Neighborhood Study	
FY20	Spot Repair Program	\$200,000.00			Drainage Complaint	
FY20	* Easement / Land Acq	\$150,000.00			-	* Increased by \$50K
FY20	Project Management	\$150,000.00			-	
	Total	\$2,470,000.00				
FY21	Watershed Study	\$500,000.00	N/A	N/A	Watershed Study	
FY21	Raeford FPB	\$1,145,550.00	5, 9	Buckhead Creek	Watershed Study	
FY21	Breezewood (2700)	\$300,000.00	2	Blounts Creek	Drainage Complaint	
FY21	Spot Repair Program	\$200,000.00			Drainage Complaint	
FY21	Easement / Land Acq	\$150,000.00			-	
FY21	Project Management	\$150,000.00			-	
	Total	\$2,445,550.00				
FY22	Roxie Ave Phase 2	\$1,900,000.00	5	Buckhead Creek	Watershed Study	
FY22	Spot Repair Program	\$200,000.00			Drainage Complaint	
FY22	Easement / Land Acq	\$150,000.00			-	
FY22	Project Management	\$150,000.00			-	
	Total	\$2,400,000.00				

Grand Total \$11,195,550.00

Remaining projects in program 51

\$ 30,847,696.84



North Carolina Stormwater Rates and Revenues - Preliminary Analysis



Environmental Finance Center at the UNC School of Government

Data as of February 2017. Data Sources: US Census Data, Local Government websites, North Carolina Office of State Treasurer

Asheville	Name of Stormwater Utility (e.g. Albany)	Utility Revenues (Storm Water Fees)	Population in Municipality (2013 Census)	Residential Fee Structure	Representative Charge for Single Family Resident (2,455 sq. ft./ Month)	Representative Charge for Non-Residential: (25,976 sq. ft. /Month)
Atlantic Beach	Archdale	\$484,362.00	11,554	Single (Flat Fee)	\$5.00	\$35.96
Belsesmer City	Asheville	\$5,388,153.00	87,236	Tiered Flat Fees	\$4.41	\$46.91
Bessmer City	Atlantic Beach	\$316,559.00	1,504	Single (Flat Fee)	\$4.00	
Burlington Not Reported 51,510 Single (Flat Fee) \$2,50 \$8 Burlington Not Reported 7,699 Tiered Flat Fees \$5,58 \$2 Carolina Beach \$924,206,00 5,986 Single (Flat Fee) \$9,00 \$11 Chapel Hill Not Reported 59,635 Tiered Flat Fees \$6,54 \$5 Charlotte (Mocklenburg) \$70,042,000,00 792,862 Tiered Flat Fees \$10,18 Clemmons \$757,468,00 19,329 Single (Flat Fee) \$5,00 \$3 Concord \$3,965,529,00 83,506 Tiered Flat Fees \$4,30 \$3 Cornelius (Mecklenburg) \$3367,383,00 26,898 Tiered Flat Fees \$4,17 \$3 Cornelius (Mecklenburg) \$3367,383,00 26,898 Tiered Flat Fees \$4,17 \$3 Cornelius (Mecklenburg) \$3367,383,00 26,898 Tiered Flat Fees \$4,17 \$3 Cornelius (Mecklenburg) \$328,873,00 4,244 Single (Flat Fee) \$3,00 \$1 Creedmoor \$238,873,00 4,326 Tiered Flat Fees \$8,28 \$3 Dallas \$86,559,00 4,326 Tiered Flat Fees \$8,28 \$3 Davidson (Mecklenburg) \$222,124,00 11,750 Tiered Flat Fees \$4,66 \$3 Durham \$81,277,554,00 245,475 Tiered Flat Fees \$4,66 \$3 Durham \$81,277,554,00 245,475 Tiered Flat Fees \$3,00 \$5 Elizabeth City \$399,241,00 18,266 Single (Flat Fee) \$3,00 \$5 Elizabeth City \$3,992,41,00 19,266 Single (Flat Fee) \$3,00 \$5 Elizabeth City \$5,792,851,00 204,408 Single (Flat Fee) \$3,75 \$4 Gastonia \$8,792,851,00 204,408 Single (Flat Fee) \$3,75 \$4 Gastonia \$8,779,00 14,280 Single (Flat Fee) \$3,75 \$4 Granville County in Falls Lake Watershed Not Reported \$6,400 Single (Flat Fee) \$0,75 \$5 Granville County in Falls Lake Watershed Not Reported \$6,275 Tiered Flat Fees \$1,50 \$6 Granville County in Falls Lake Watershed Not Reported \$6,275 Tiered Flat Fees \$2,70 \$2 Greensbro \$6,677,73,00 27,9639 Tiered Flat Fee \$9,00 \$6 Fight Point Not Reported \$1,741 Single (Flat Fee) \$4,40 \$6 Fight Point Not Reported \$1,741 Single (Flat Fee) \$4,00 \$6 Fight Point	Belmont	Not Reported	10,412		\$3.00	\$31.17
Description Not Reported 7,699 Tiered Flat Fees \$5.58 \$2.50 \$3.10 \$3.24,206.00 \$5.986 \$5.98	Bessemer City		5,441		\$2.07	\$5.00
Carolina Beach \$924,206.00 \$.986 Single (Flat Fee) \$9.00 \$11	Burlington	Not Reported		Single (Flat Fee)		\$5.00
Charlotte (Mecklenburg) \$70,042,000 00 792,862 Tiered Flat Fees	Butner	Not Reported				\$20.95
Charlotte (Mecklenburg) \$70,042,000.00 792,882 Tierde Flat Fees \$10.18 Clemmons \$757,480.00 19,329 Single (Flat Fee) \$5.00 33 Concord \$3,965,529.00 83,506 Tiered Flat Fees \$4.30 33 Cornellus (Mecklenburg) \$387,393.00 26,898 Tiered Flat Fees \$4.17 \$3 Cramerton \$38,348.00 4,244 Single (Flat Fee) \$3.00 \$1 Creedmoor \$288,873.00 4,326 Tiered Flat Fees \$8.92 \$5 Dallas \$86,559.00 4,531 Single (Flat Fee) \$2.85 \$2 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fee \$3.00 \$2 Elon \$78,000.00 9,513 Single (Flat Fee) \$3.00 \$2 Elon \$78,000.00 9,513 Single (Flat Fee) \$2.00 \$3 Gastonia \$5,249,033.00 73,209 Single (Fl	Carolina Beach		-,			\$116.89
Single (Flat Fee) \$5.00 \$3 \$3.965,529.00 \$3.506,529.00 \$3.506 Tiered Flat Fees \$4.30 \$3.506,529.00 \$3.506,529.00 \$3.506 Tiered Flat Fees \$4.30 \$3.506,529.00 \$3.506,529.00 \$3.500		Not Reported	59,635	Tiered Flat Fees	\$6.54	\$56.61
Concord \$3,965,529.00 83,506 Tiered Flat Fees \$4.17 \$3 Cornelius (Mecklenburg) \$387,393.00 26,898 Tiered Flat Fees \$4.17 \$3 Cramerton \$383,48.00 4,244 Single (Flat Fee) \$3.00 \$1 Creedmoor \$288,873.00 4,326 Tiered Flat Fees \$8.92 \$5 Dallas \$66,559.00 4,531 Single (Flat Fee) \$2.285 \$2 Davidson (Mecklenburg) \$222,124.00 11,750 Tiered Flat Fees \$4.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.60 \$3 Elizabeth City \$399,241.00 18,266 Single (Flat Fee) \$3.00 \$2 Elizabeth City \$399,241.00 18,266 Single (Flat Fee) \$3.75 \$4 Gardia \$2,200 \$3						
Cornelius (Mecklenburg) \$387,393.00 26,898 Tiered Flat Fees \$4,177 Cramerton \$83,348.00 4,244 Single (Flat Fee) \$3.00 \$1 Creedmoor \$28,873.00 4,326 Tiered Flat Fees \$8.92 \$5 Dallas \$86,559.00 4,531 Single (Flat Fee) \$2.28,55 \$2 Davidson (Mecklenburg) \$222,124.00 11,750 Tiered Flat Fees \$4.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.75 \$7 Elizabeth City \$399,241.00 18,266 Single (Flat Fee) \$3.00 \$2 Elon \$78,000.00 9,513 Single (Flat Fee) \$3.00 \$2 Elon \$6,792,851.00 204,408 Single (Flat Fee) \$3.75 \$4 Gastonia \$2,249,333.00 73,209 Single (Flat Fee) \$3.25 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3					*	\$32.86
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Creedmoor \$288,873.00 4,326 Tiered Flat Fees \$8.92 \$5 Dallas \$86,559.00 4,531 Single (Flat Fee) \$2.85 \$2 Davidson (Mecklenburg) \$222,124.00 11,750 Tiered Flat Fees \$4.66 \$3 Durham \$18,275,554.00 245,475 Tiered Flat Fees \$6.75 \$7 Elizabeth City \$39,241.00 18,266 Single (Flat Fee) \$3.00 \$2 Elon \$78,000.00 9,513 Single (Flat Fee) \$3.00 \$2 Fayetteville \$6,792,851.00 204,408 Single (Flat Fee) \$3.75 \$4 Gastonia \$2,549,033.00 73,209 Single (Flat Fee) \$3.25 \$3 Gibonsville Not Reported 6,640 Single (Flat Fee) \$0.75 \$3 Graham \$61,779.00 14,280 Single (Flat Fee) \$1.00 \$ Granville County in Falls Lake Watershed Not Reported 58,275 Tiered Flat Fees \$1.50 \$ Graville County outside Falls Lake Water						\$33.51
Dallas						\$15.00
Davidson (Mecklenburg) \$222,124.00 11,750 Tiered Flat Fees \$4.66 \$3		* /				\$58.28
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North Carolina Stormwater Rates and Revenues - Preliminary Analysis



Environmental Finance Center at the UNC School of Government

Data as of February 2017. Data Sources: US Census Data, Local Government websites, North Carolina Office of State Treasurer

Name of Stormwater Utility (e.g. Albany)	Utility Revenues (Storm Water Fees)	Population in Municipality (2013 Census)	Residential Fee Structure	Representative Charge for Single Family Resident (2,455 sq. ft./ Month)	Representative Charge for Non-Residential: (25,976 sq. ft. /Month)
Monroe	\$2,130,785.00	33,975	Tiered Flat Fees	\$4.00	\$44.65
Mooresville	\$1,606,732.00	34,887	Single (Flat Fee)	\$3.40	\$32.71
Morrisville	\$516,542.00		Single (Flat Fee)	\$2.08	\$19.33
Mount Holly	\$240,072.00	13,904	Single (Flat Fee)	\$2.50	\$12.99
Nags Head	Not Reported	2,835	Single (Flat Fee)	\$4.00	\$4.00
New Bern	Not Reported	30,242	Single (Flat Fee)	\$2.10	\$17.60
Oak Island	Not Reported		- 5 (,	\$2.75	\$11.80
Oxford	\$163,627.00	8,695	Single (Flat Fee)	\$2.00	\$21.94
Person County inside watershed	Not Reported	39,276	Tiered Flat Fees	\$1.33	\$1.01
Person County outside watershed	Not Reported	39,276	Tiered Flat Fees	\$0.50	\$4.03
Pineville (Mecklenburg)	\$399,353.00	8,061	Tiered Flat Fees	\$4.09	\$34.77
Plymouth	Not Reported	3,766	Single (Flat Fee)	\$3.00	\$3.00
Raleigh	\$17,938,660.00	431,746	Tiered Flat Fees	\$5.00	\$57.47
Ranio	Not Reported	3,485			
Rocky Mount	\$4,068,312.00	56,954	Single (Flat Fee)	\$5.00	\$51.55
Shelby	Not Reported	20,325	Single (Flat Fee)	\$2.50	\$25.00
Spring Lake	Not Reported	13,037	Single (Flat Fee)	\$2.75	\$0.00
Stallings	\$481,394.00	14,645	Single (Flat Fee)	\$3.83	\$34.68
Stem	Not Reported				\$56.12
Swansboro	Not Reported	2,993	Tiered Flat Fees	\$2.50	\$40.00
Thomasville	\$137,835.00	29,968	Single (Flat Fee)	\$1.00	\$1.00
Wallace	Not Reported		Single (Flat Fee)	\$4.85	\$0.00
Washington	\$664,287.00	9,811	Tiered Flat Fees	\$4.00	\$40.00
Wilmington	\$9,928,041.00		Single (Flat Fee)	\$7.66	*
Wilson	\$2,736,197.00		Single (Flat Fee)	\$3.80	\$38.19
Winston-Salem	\$10,715,512.00		Tiered Flat Fees		\$41.30
Winterville	Not Reported			\$2.00	
Wrightsville Beach	\$111,001.00		Single (Flat Fee)	\$7.00	
Zebulon	\$109,109.00	4,591	Single (Flat Fee)	\$2.00	\$38.00

Preliminary data collected by the Environmental Finance Center at the UNC School of Government. Revised 4/21/2017. Please contact Jeff Hughes with questions: jhughes@sog.unc.edu