



Cary Western Wake Partners Policy Advisory Committee
Thursday, March 16, 2017
6:10 PM
Conference Room 10035
316 N. Academy Street, Cary Town Hall, Cary, NC 27513

1. CALL TO ORDER
2. APPROVAL OF MINUTES

Western Wake Partners Policy Advisory Committee - Regular Meeting - Mar
24, 2016 6:00 PM

3. FOR DISCUSSION:

3.1 Report to the Western Wake Partners Policy Advisory Committee: Proposed
FY2018 Budget

Speaker: Steve Brown, Water Resources Department

Recommendation: *That the Policy Advisory Committee accepts the proposed FY2018 Capital and Operating Budgets for the Western Wake Regional Wastewater Management Facilities.*

Executive Summary: The *Cary Community Plan* underscores the Town's commitment to plan for and provide essential public services, including wastewater service, to its growing residential and employee base. The Town works cooperatively and proactively to ensure high-quality, affordable and reliable wastewater services are available to meet the needs of our citizens and support continued growth. Cary's partnership with Apex and Morrisville to construct and operate the Western Wake Regional Wastewater Management Facilities exemplifies this commitment.

Each year, the Western Wake Partners Policy Advisory Committee meets to address capital and operating budget proposals for the following fiscal year, as well as other business relating to joint ownership of the facilities.

4. OTHER BUSINESS
5. CLOSED SESSION WILL BE CALLED IF NECESSARY
6. ADJOURNMENT

Please contact Town Clerk Virginia Johnson with any questions about this agenda or to request an auxiliary aid or service to participate in the meeting:
virginia.johnson@townofcary.org, 919-469-4011, TDD 919-469-4012.



Western Wake Partners Policy Advisory Committee
Minutes
March 24, 2016; 6 p.m.
Conference Room 10035, Cary Town Hall

A. Call to Order (Mayor Weinbrecht)

Weinbrecht called the meeting to order at 6 p.m.

B. Approval of December 28, 2015 Minutes

Olive moved to approve the December 28, 2015 Minutes. Paige provided the second. The motion was unanimously approved.

C. Western Wake Regional Wastewater Facilities Budget Update and Proposed FY17 Budget (PAC16-02)

Speaker: Steve Brown

Brown presented staff's report.

Olive moved to accept the proposed FY17 Capital and Operating Budgets for the Western Wake Regional Wastewater Management Facilities. Paige provided the second. The motion was unanimously approved.

D. Western Wake Regional Wastewater Facilities Annual Audit Procedures (PAC16-03)

Brown explained that this staff report for committee's information and no action was requested.

E. Other Business

None

F. Closed session will be called if necessary

Not called

G. Adjournment

At 6:07 p.m., Paige moved to adjourn. Olive provided the second. The motion was unanimously approved.

Minutes Acceptance: Minutes of Mar 24, 2016 6:00 PM (Approval of Minutes)

Staff Report for Western Wake Partners Policy Advisory Committee



Meeting Date: March 16, 2017

Report to the Western Wake Partners Policy Advisory Committee: Proposed FY2018 Budget

Purpose: Consideration of the proposed FY2018 Capital and Operating Budgets for the Western Wake Regional Wastewater Management Facilities

Prepared by: Jeff Adkins, Water Resources

Speaker: Steve Brown, Water Resources Department

Recommendation: *That the Policy Advisory Committee accepts the proposed FY2018 Capital and Operating Budgets for the Western Wake Regional Wastewater Management Facilities.*

Executive Summary: The *Cary Community Plan* underscores the Town's commitment to plan for and provide essential public services, including wastewater service, to its growing residential and employee base. The Town works cooperatively and proactively to ensure high-quality, affordable and reliable wastewater services are available to meet the needs of our citizens and support continued growth. Cary's partnership with Apex and Morrisville to construct and operate the Western Wake Regional Wastewater Management Facilities exemplifies this commitment.

Each year, the Western Wake Partners Policy Advisory Committee meets to address capital and operating budget proposals for the following fiscal year, as well as other business relating to joint ownership of the facilities.

Background: The *Cary Community Plan* underscores the Town's commitment to plan for and provide essential public services, including wastewater service, to its growing residential and commercial citizens. Cary, Apex and Morrisville have worked cooperatively and proactively to find regional utility solutions for our citizens for nearly 30 years. Beginning with an interlocal agreement to study a regional wastewater



Figure 1- Western Wake Regional Water Reclamation Facility

treatment facility in 2002, Cary, Apex and Morrisville have been partners in evaluating, permitting, building, operating and maintaining the Western Wake Regional Wastewater Management Facilities (WWRWMF) to ensure we provide reliable, cost-effective wastewater treatment facilities which meet or exceed regulatory requirements and deliver high-quality and affordable wastewater services to meet the needs of our citizens and support continued growth.

Cary, Apex and Morrisville, collectively the "Western Wake Partners", entered into a partnership in 2005 to share responsibility for land purchase, design,

permitting and construction of the Western Wake regional wastewater conveyance and treatment facilities. The Western Wake Regional Wastewater Management Facilities (WWRWMF) began operating in 2014, including the 18-MGD Western Wake Regional Water Reclamation Facility, West Reedy Branch Gravity Sewer, Beaver Creek Pump Station, Beaver Creek Force Main and the Effluent Pipeline and Outfall. In 2015, after construction was completed, the Western Wake Partners replaced the earlier agreement with a new agreement tailored to ongoing facility operations. The Western Wake Regional Water Reclamation Facility has a treatment capacity of 18 million gallons per day (MGD); the capacity of

the conveyance facilities and Beaver Creek Pump Station are designed to accommodate peak flows to the treatment facility.

Ownership in the WWRMRF facilities (West Reedy Branch Gravity Sewer, Beaver Creek Pump Station, Beaver Creek Force Main, Water Reclamation Facility, and the Effluent Pipeline and Outfall), is allocated to Cary and Apex based on their anticipated percentage share in the utilization of each facility's capacity, as shown in Table 1. Morrisville's capacity needs are included in Cary's ownership shares, in accordance with the terms of the Cary-Morrisville utility merger. Shared ownership is accompanied by shared responsibility for the costs of operating the facilities and making capital improvements. Each year, a Policy Advisory Committee (PAC) comprised of Cary, Apex and Morrisville Mayors and Town Managers meets to address capital and operating budget proposals for the following fiscal year, as well as other business relating to their joint ownership of the facility. The next annual PAC meeting is scheduled for March 16, 2017.

Discussion:

Operating Budget Discussion: Through the Town of Cary's budget process, staff is requesting a total operating budget of \$4,620,346 for the WWRWMF (allocated \$1,572,318 to Apex and \$3,098,028 to Cary) as shown in Appendix A. Some expenses such as scheduled maintenance activities are billed to the Partners as Fixed Current Expenses, and other expenses such as electricity and chemical needs are billed as Variable Current Expenses, in accordance with the terms of the 2015 Agreement between the towns. Billing for Variable Current Expenses is based on the proportion of actual flows, while Fixed Current Expenses are billed based on ownership shares. Per the 2015 Agreement, costs related to management and planning of the WWRWRF will be billed as part of the Fixed Current Expenses for the Western Wake Regional Water Reclamation Facility.



Figure 2-Effluent Pump Station Interior, Western Wake Regional Water Reclamation Facility

Capital Budget Discussion: While no WWRWMF capital needs have been requested for the FY 2018 budget year, a total of \$3,278,000 of maintenance, replacement and Phase II investigatory projects has been indicated across the FYs 2019 – 2028 ten year planning horizon. Cost shares for the proposed WWRWMF capital improvements budget and plan are determined according to the ownership percentages presented in Appendix A; the Water Reclamation Facility projects are allocated 66% to Cary and 34% to Apex. Appendix B shows that no funds are requested for the WWRWMF in FY 2018. The ten year planning period's funding needs, as well as each of the partner's specific shares, are also identified in Appendix B. As the Town of Cary is just beginning its FYs 2018 budget process, it is possible that decisions could be made to add and/or not recommend specific projects. While this is unlikely, the Town of Cary will keep the Town of Apex informed of any changes at appropriate points throughout budget preparation.

The following capital projects, with expenditures totaling \$26,055,405, have been closed and no additional expenditures will occur. Each project is listed with its Town of Cary project number and final expended amount:

- West Cary Pump Station Expansion and Force Main to New WRF (SW1092) - \$11,550,553
- Design and Phase IV Planning and Permitting (SW1109) - \$5,841,510
- Western Wake WRF/Effluent Pump Station Land (SW1111) - \$7,221,236
- Organizational, Institutional, Financial Development (SW1113) - \$174,088
- Western Wake Value Engineering (SW1152) - \$270,000
- Holly Springs Effluent Pipeline (SW1199) - \$0
- Western Wake Effluent Pump Station (SW1201) - \$0

- New Hill Settlement (SW1220) - \$498,019
- Chatham County Agreement (SW1221) - \$500,000

Fiscal Impact:

Operating:

Short Term: Funding for personnel, supplies and materials, contracted services and other operating expenses for the Western Wake Regional Wastewater Management Facilities will be requested through the Town of Cary's budgeting process.

Long Term: Town of Cary Utilities Department staff will maintain the Western Wake Regional Wastewater Management Facilities. Funding for future maintenance and repairs will be requested through the Town of Cary's budgeting process.

Funding:

There are no funding impacts directly associated with the updates presented in this staff report. The Capital Budget Discussion above clearly details the FY 2018 requested Capital Improvements Budget/Plan for the WWRWMF while also communicating partner funding expectations.

#2320

Table A-1. Proposed FY 2018 WWRWMF Operating Budget

Facilities	Corridor Length (ft)	Ownership Share		Estimated FY 2018 Operating Budget			Comments
		Apex	Cary	Total	Apex ¹	Cary ¹	
West Reedy Branch Gravity Sewer	11,600	9.3%	90.7%	\$16,800	\$1,562	\$15,238	Includes inspection, easement maintenance, and junction box odor control
Beaver Creek Pump Station	-	21.3%	78.7%	\$350,000	\$74,550	\$275,450	Includes pump station maintenance/ operating costs and wet well cleaning
Beaver Creek Force Main	26,600	34%	66%	\$20,000	\$6,800	\$13,200	Includes air release valve inspections, annual easement maintenance and semi-annual easement inspections
Western Wake Regional Water Reclamation Facility, to include Biosolids Facility and Effluent Pump Station	-	34%	66%	\$4,183,546	\$1,422,406	\$2,761,140	Includes plant operating/ maintenance costs and pretreatment sampling and monitoring
Effluent Pipeline and Outfall	63,400	34%	66%	\$50,000	\$17,000	\$33,000	Includes air release valve inspections, annual easement maintenance and semi-annual easement inspections
Operating Budget Sub-Total				\$4,620,346	\$1,522,318	\$3,098,028	
Apex Middle Creek WWTP Biosolids Drying Reimbursement	-	100%	0%	-	\$50,000	-	Partner reimbursement cost at 2.7 cents per gallon of liquid biosolids received from Apex Middle Creek Wastewater Treatment Plant
Apex and Cary Total Costs					\$1,572,318	\$3,098,028	
¹ Billing of Variable Current Expenses will be based on the proportion of actual water use, not ownership shares. Both Cary and Apex should take into consideration that if their actual portion of water use is consistently greater than their ownership share, costs will be higher than the share shown here.							

Table B-1. Proposed FY2018-FY2028 Western Wake Capital Improvements Budget (Project Totals)

Cost Share %		Project	Cary Project No.	Project Total	Appropriated Through FY2017	Actual Expenditures & Remaining Encumbrances Thru 2/23/17	Project Balance Through FY2017 (as of 2/27/17)	FY2018 Requested	FY2019 Requested	FY2020 Requested	FY2021 Requested	FY2022 Requested	FY2023 Requested	FY2024 Requested	FY2025 Requested	FY2026 Requested	FY2027 Requested	FY2028 Requested
Town of Apex	Town of Cary																	
34%	66%	Western Wake WRF	SW1123	\$136,678,379	\$136,678,379	\$135,719,342	\$959,037	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Effluent Pump Station	SW1124	\$8,957,953	\$8,957,953	\$7,047,226	\$1,910,727	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Project Management	SW1125	\$2,595,224	\$2,595,224	\$2,153,106	\$442,118	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	West Cary PS	SW1143	\$11,279,482	\$11,279,482	\$9,198,135	\$2,081,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	West Cary Force Main	SW1144	\$9,943,176	\$9,943,176	\$6,351,764	\$3,591,412	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	West Reedy Branch Gravity Sewer	SW1145	\$12,304,175	\$12,304,175	\$6,661,551	\$5,642,624	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Beaver Creek PS	SW1146	\$20,157,682	\$20,157,682	\$16,070,507	\$4,087,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Beaver Creek Force Main, Olive Chapel Water Line ³	SW1147	\$27,492,027	\$27,492,027	\$17,145,781	\$10,346,246	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	SCADA ²	SW1148	\$3,570,954	\$3,570,954	\$3,533,795	\$37,159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Beaver Creek Gravity Sewer	SW1178	\$2,065,000	\$2,065,000	\$1,375,753	\$689,247	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Beaver Creek Trunk Sewer & Tunnel	SW1179	\$4,800,000	\$4,800,000	\$3,404,354	\$1,395,646	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Holly Springs Effluent Line/WRF	SW1180	\$39,374	\$39,374	\$38,524	\$850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Effluent Pipeline Land	SW1181	\$2,385,901	\$2,385,901	\$1,674,671	\$711,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Effluent Pipeline & Outfall	SW1182	\$30,720,840	\$30,720,840	\$23,592,045	\$7,128,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Water & Sewer Policy Implementation	SW1200	\$2,358,645	\$2,358,645	\$2,348,676	\$9,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF-Process Instrument Analyzer	SW1318	\$35,000	\$35,000	\$33,360	\$1,640	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF - Biofilter Media Replacement	New	\$300,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF - Carbon Replacement for North Odor Control and Solid Handling Facility	New	\$140,000	\$0	\$0	\$0	\$ -	\$ -	\$70,000	\$ -	\$ -	\$ -	\$ -	\$70,000	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF - Clarifier Rake Arm System	New	\$100,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$100,000	\$ -
34%	66%	Western Wake WRF - Drag Conveyor Replacement	New	\$350,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$350,000	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF - NCRY and ARCY Pump Rebuild/Replace	New	\$375,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000	\$75,000	\$75,000	\$75,000	\$ -	\$75,000
34%	66%	Western Wake WRF - Beaver Creek PS Improvements - Pump Rebuild & Odor Control Media Replacements	New	\$500,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$500,000	\$ -	\$ -	\$ -
34%	66%	Western Wake WRF - Rebuild Jet Aeration and Post Aeration Pumps	New	\$466,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$83,000	\$83,000	\$100,000	\$100,000	\$ -	\$ -	\$ -	\$100,000
34%	66%	Western Wake WRF - Rebuild Mechanical Screen and Grinder	New	\$125,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$125,000	\$ -	\$ -
34%	66%	Western Wake WRF - Rebuild/Replace Mixers	New	\$422,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$61,000	\$61,000	\$100,000	\$100,000	\$ -	\$ -	\$ -	\$100,000
34%	66%	Western Wake WRF Phase II Study	New	\$500,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$500,000	\$ -	\$ -	\$ -
		Total		\$278,661,812	\$275,383,812	\$236,348,589	\$39,035,223	\$0	\$0	\$70,000	\$144,000	\$144,000	\$275,000	\$575,000	\$1,495,000	\$200,000	\$100,000	\$275,000

Attachment: Appendix B-Western Wake FY2018-FY2028 Capital Budget (2320 : Report to Western Wake Partners PAC: Proposed FY2018

Table B-2. Proposed FY2018-FY2028 Western Wake Capital Improvements Budget (Apex Share)

Cost Share	Project	Cary Project No.	Project Total	Appropriated Through FY2017	Actual Expenditures & Remaining Encumbrances Thru 2/23/17	Project Balance Through FY2017 (as of 2/27/17)	FY2018 Requested	FY2019 Requested	FY2020 Requested	FY2021 Requested	FY2022 Requested	FY2023 Requested	FY2024 Requested	FY2025 Requested	FY2026 Requested	FY2027 Requested	FY2028 Requested
34%	Western Wake WRF	SW1123	\$46,470,649	\$46,470,648.86	\$46,144,576.28	\$326,073	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Effluent Pump Station	SW1124	\$3,045,704	\$3,045,704	\$2,396,057	\$649,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Project Management	SW1125	\$882,376	\$882,376.16	\$732,056	\$150,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	West Cary PS	SW1143	\$3,835,024	\$3,835,024	\$3,127,366	\$707,658	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	West Cary Force Main	SW1144	\$3,380,680	\$3,380,680	\$2,159,600	\$1,221,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	West Reedy Branch Gravity Sewer	SW1145	\$4,183,420	\$4,183,420	\$2,264,927	\$1,918,492	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Beaver Creek PS	SW1146	\$6,853,612	\$6,853,612	\$5,463,972.38	\$1,389,640	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Beaver Creek Force Main, Olive Chapel Water Line ³	SW1147	\$9,347,289	\$9,347,289.18	\$5,829,566	\$3,517,724	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	SCADA ²	SW1148	\$1,214,124	\$1,214,124	\$1,201,490	\$12,634	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Beaver Creek Gravity Sewer	SW1178	\$702,100	\$702,100	\$467,756	\$234,344	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Beaver Creek Trunk Sewer & Tunnel	SW1179	\$1,632,000	\$1,632,000	\$1,157,480	\$474,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Holly Springs Effluent Line/WRF	SW1180	\$13,387	\$13,387	\$13,098	\$289	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Effluent Pipeline Land	SW1181	\$811,206	\$811,206	\$569,388	\$241,818	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Effluent Pipeline & Outfall	SW1182	\$10,445,086	\$10,445,086	\$8,021,295	\$2,423,790	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Water & Sewer Policy Implementation	SW1200	\$801,939	\$801,939	\$798,550	\$3,389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Western Wake WRF-Process Instrument Analyzer	SW1318	\$11,900	\$11,900	\$11,342	\$558	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34%	Western Wake WRF - Biofilter Media Replacement	New	\$102,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,000	\$ -	\$ -	\$ -	\$ -
34%	Western Wake WRF - Carbon Replacement for North Odor Control and Solid Handling Facility	New	\$47,600	\$0	\$0	\$0	\$ -	\$ -	\$ 23,800	\$ -	\$ -	\$ -	\$ -	\$ 23,800	\$ -	\$ -	\$ -
34%	Western Wake WRF - Clarifier Rake Arm System	New	\$34,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,000	\$ -
34%	Western Wake WRF - Drag Conveyor Replacement	New	\$119,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119,000	\$ -	\$ -	\$ -
34%	Western Wake WRF - NCRY and ARCY Pump Rebuild/Replace	New	\$127,500	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,500	\$ 25,500	\$ 25,500	\$ 25,500	\$ -	\$ 25,500
34%	Western Wake WRF - Beaver Creek PS Improvements - Pump Rebuild & Odor Control Media Replacements	New	\$170,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -
34%	Western Wake WRF - Rebuild Jet Aeration and Post Aeration Pumps	New	\$158,440	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ 28,220	\$ 28,220	\$ 34,000	\$ 34,000	\$ -	\$ -	\$ -	\$ 34,000
34%	Western Wake WRF - Rebuild Mechanical Screen and Grinder	New	\$42,500	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,500	\$ -	\$ -
34%	Western Wake WRF - Rebuild/Replace Mixers	New	\$143,480	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ 20,740	\$ 20,740	\$ 34,000	\$ 34,000	\$ -	\$ -	\$ -	\$ 34,000
34%	Western Wake WRF Phase II Study	New	\$170,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -
	Total		\$94,745,016	\$93,630,496	\$80,358,520	\$13,271,976	\$0	\$0	\$23,800	\$ 48,960	\$48,960	\$93,500	\$195,500	\$508,300	\$68,000	\$34,000	\$93,500

C

Attachment: Appendix B-Western Wake FY2018-FY2028 Capital Budget (2320) : Report to Western Wake Partners PAC: Proposed FY2018

Table B-3. Proposed FY2018-FY2028 Western Wake Capital Improvements Budget (Cary Share)

Cost Share	Project	Cary Project No.	Project Total	Appropriated Through FY2017	Actual Expenditures & Remaining Encumbrances Thru 2/23/17	Project Balance Through FY2017 (as of 2/27/17)	FY2018 Requested	FY2019 Requested	FY2020 Requested	FY2021 Requested	FY2022 Requested	FY2023 Requested	FY2024 Requested	FY2025 Requested	FY2026 Requested	FY2027 Requested	FY2028 Requested
66%	Western Wake WRF	SW1123	\$90,207,730	\$90,207,730	\$89,574,766	\$632,964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Effluent Pump Station	SW1124	\$5,912,249	\$5,912,249	\$4,651,169	\$1,261,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Project Management	SW1125	\$1,712,848	\$1,712,848	\$1,421,050	\$291,798	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	West Cary PS	SW1143	\$7,444,458	\$7,444,458	\$6,070,769	\$1,373,689	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	West Cary Force Main	SW1144	\$6,562,496	\$6,562,496	\$4,192,164	\$2,370,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	West Reedy Branch Gravity Sewer	SW1145	\$8,120,756	\$8,120,756	\$4,396,624	\$3,724,132	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Beaver Creek PS	SW1146	\$13,304,070	\$13,304,070	\$10,606,535	\$2,697,536	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Beaver Creek Force Main, Olive Chapel Water Line ³	SW1147	\$18,144,738	\$18,144,738	\$11,316,215	\$6,828,522	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	SCADA ²	SW1148	\$2,356,830	\$2,356,830	\$2,332,304	\$24,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Beaver Creek Gravity Sewer	SW1178	\$1,362,900	\$1,362,900	\$907,997	\$454,903	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Beaver Creek Trunk Sewer & Tunnel	SW1179	\$3,168,000	\$3,168,000	\$2,246,874	\$921,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Holly Springs Effluent Line/WRF	SW1180	\$25,987	\$25,987	\$25,426	\$561	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Effluent Pipeline Land	SW1181	\$1,574,695	\$1,574,695	\$1,105,283	\$469,412	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Effluent Pipeline & Outfall	SW1182	\$20,275,754	\$20,275,754	\$15,570,750	\$4,705,005	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Water & Sewer Policy Implementation	SW1200	\$1,556,706	\$1,556,706	\$1,550,126	\$6,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Western Wake WRF-Process Instrument Analyzer	SW1318	\$23,100	\$23,100	\$22,018	\$1,082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
66%	Western Wake WRF - Biofilter Media Replacement	New	\$198,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 198,000	\$ -	\$ -	\$ -	\$ -
66%	Western Wake WRF - Carbon Replacement for North Odor Control and Solid Handling Facility	New	\$92,400	\$0	\$0	\$0	\$ -	\$ -	\$ 46,200	\$ -	\$ -	\$ -	\$ -	\$ 46,200	\$ -	\$ -	\$ -
66%	Western Wake WRF - Clarifier Rake Arm System	New	\$66,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,000	\$ -
66%	Western Wake WRF - Drag Conveyor Replacement	New	\$231,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 231,000	\$ -	\$ -	\$ -
66%	Western Wake WRF - NCRY and ARCY Pump Rebuild/Replace	New	\$247,500	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,500	\$ 49,500	\$ 49,500	\$ 49,500	\$ -	\$ 49,500
66%	Western Wake WRF - Beaver Creek PS Improvements - Pump Rebuild & Odor Control Media Replacements	New	\$330,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,000	\$ -	\$ -	\$ -
66%	Western Wake WRF - Rebuild Jet Aeration and Post Aeration Pumps	New	\$307,560	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ 54,780	\$ 54,780	\$ 66,000	\$ 66,000	\$ -	\$ -	\$ -	\$ 66,000
66%	Western Wake WRF - Rebuild Mechanical Screen and Grinder	New	\$82,500	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,500	\$ -	\$ -
66%	Western Wake WRF - Rebuild/Replace Mixers	New	\$278,520	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ 40,260	\$ 40,260	\$ 66,000	\$ 66,000	\$ -	\$ -	\$ -	\$ 66,000
66%	Western Wake WRF Phase II Study	New	\$330,000	\$0	\$0	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,000	\$ -	\$ -	\$ -
	Total		\$183,916,796	\$181,753,316	\$155,990,069	\$25,763,247	\$0	\$0	\$46,200	\$ 95,040	\$95,040	\$181,500	\$379,500	\$986,700	\$132,000	\$66,000	\$181,500

Attachment: Appendix B-Western Wake FY2018-FY2028 Capital Budget (2320 : Report to Western Wake Partners PAC: Proposed FY2018