



Metropolitan North Georgia Water Planning District

40 Courtland Street NE | Atlanta, Georgia 30303

TO: Executive Committee

FROM: Metro Water District Staff

DATE: November 25, 2015

RE: Forsyth County Wastewater Plan Appendix B Amendment - Process Documentation and Staff Recommendation

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The Metropolitan North Georgia Water Planning District received a request from Forsyth County to modify the Wastewater Management Plan. According to the Plan Amendment Guidelines adopted by the Board on August 28, 2013, District staff is required to provide the Executive Committee a category recommendation concerning the plan amendment request prior to the meeting. The staff recommends the following change outlined below:

**Amendment Request:** Wastewater Management Plan

**Local Jurisdiction:** Forsyth County

**Description:** Modification consists of the decommissioning of the Windermere Urban Reuse LAS and the transfer of the 0.55 MGD capacity to the James Creek WRF between 2016 and 2035 planning horizon within Appendix B. Both facilities currently discharge into James Creek, a tributary to the Chattahoochee Basin.

**Staff Recommendation:** District staff recommends this request be categorized as a minor amendment because modification of the plan is local in nature.

## Forsyth County

### Summary of Needs

	2010 Maximum Month Average Daily Flow (MMF-MGD)	2015 Maximum Month Average Daily Flow (MMF-MGD)	2025 Maximum Month Average Daily Flow (MMF-MGD)	2035 Maximum Month Average Daily Flow (MMF-MGD)
<b>Wastewater Flows &amp; Capacities</b>				
Forsyth County Needs	22	29	42	52
<b>Total Projected Flow to Plants</b>	<b>22</b>	<b>29</b>	<b>42</b>	<b>52</b>
Treatment Capacity	19.56	37.41	44.41	60.81

### Capital Projects

- New treatment capacity will be provided by constructing the new Shakerag facility and two new facilities discharging to Lake Lanier and expanding the Fowler WRF. Apportionment of capacity between the Forsyth County and City of Cumming should be based on the needs and growth of their respective service areas. Allocation of proposed treatment capacity between Forsyth County and the City of Cumming will be agreed upon by both jurisdictions in accordance with the local wastewater master plan prior to requesting wasteload allocations or seeking permits. The local wastewater master plan will also include an analysis of the feasibility of constructing a combined facility between the City and County.

### Basin Considerations

- The City of Cumming will construct a new AWRF that will discharge to Lake Lanier and return flow to the Lake. Forsyth County will construct a new AWRF that will discharge to Lake Lanier (Note 1). Treated flow from the New South Forsyth WWTP / Fowler Reuse System will be land applied and/or discharged into the Chattahoochee River.

### Phasing Plan

Facilities (Notes 1, 4)	By 2010			2011 to 2015			2016 to 2025			2026 to 2035		
	Proposed Projects		Plant Capacity at End of Period (MMF-MGD)	Proposed Projects		Plant Capacity at End of Period (MMF-MGD)	Proposed Projects		Plant Capacity at End of Period (MMF-MGD)	Proposed Projects		Plant Capacity at End of Period (MMF-MGD)
	Project Type	Project Capacity (MMF-MGD)		Project Type	Project Capacity (MMF-MGD)		Project Type	Project Capacity (MMF-MGD)		Project Type	Project Capacity (MMF-MGD)	
Cumming Bethelview Road WPCP	No expansions		8.0	No expansions		8.0	No expansions		8.0	No expansions		8.0
Cumming Lake Lanier WRF (Note 2)				Initial construction		7.5	No expansions		7.5	Expand	7.5	15
Forsyth Lake Lanier WRF (Note 2)				Initial construction		3.0	Expand	2	5	Expand	5	10
Forsyth Shakerag/Fowler WRF (Note 3)	Expand	4.5	8.5	Expand	7.5	16	Expand	4	20	Expand	4	24
Forsyth Dick Creek WRF	No expansions		0.76	No expansions		0.76	No expansions		0.76	No expansions		0.76
Cumming Lanier Beach South	No expansions		0.04	Decommission		-						
Cumming Habersham WPCP (Note 5)	No expansions		0.11	Decommission		-						
Forsyth Windemere Urban Reuse LAS	No expansions		0.55	No expansions		0.55	Decommission		0.00			
Forsyth Manor Water Reuse Facility	No expansions		0.50	No expansions		0.50	No expansions		0.50	No expansions		0.50
Forsyth Parkstone at the Bridges LAS	No expansions		0.10	No expansions		0.10	No expansions		0.10	Decommission		-
James Creek WRF	No expansions		1.0	No expansions		1.0	Expand	1.55	2.55	No expansions		2.55
<b>Total Capacity (MMF-MGD)</b>			<b>19.56</b>			<b>37.41</b>			<b>44.41</b>			<b>60.81</b>

Notes:

- The schedule shown is intended to be a general guideline to identify general capacity needs. While the expansion capacities are intended to be in operation before the end of the period shown, exact timing of expansions should be determined by local wastewater master plans.
- The proposed Cumming and Forsyth AWRFs that will discharge to Lake Lanier may be built as separate facilities, or may be combined into one facility.
- The Shakerag / Fowler reuse system consist of two and potentially more facilities pumping into one reuse system with combined flows being land applied and discharged into the river.
- The City and County may acquire private wastewater systems that result in minor changes and possible additions to discharge permits.
- The City of Cumming is currently in negotiations to acquire the private Habersham facility.

### Non-Capital Programs

The following non-capital programs are specific to Forsyth County. These programs are in addition to those that apply to all counties within the Metro Water District.

- Make provisions to return reclaimed water to Lake Lanier, the source of the area's drinking water.



## Forsyth County Department of Water and Sewer

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November 23, 2015

Mr. Daniel E. Johnson, P.E.  
Atlanta Regional Commission  
40 Courtland Street, NE  
Atlanta, GA. 30303

RE: Request to Amend District Wastewater Management Plan

Dear Danny,

As we discussed recently, Forsyth County is in the permitting process with GA EPD for the following wastewater permit: James Creek WRF – Expansion to 2.55 MGD

GA EPD has informed us that a revision to the District Plan will be required to permit the expansion. We are requesting that the District Plan for Forsyth County be revised to show a 1.55 MGD Expansion at James Creek WRF (for a total treatment capacity of 2.55 MGD) in the 2016 to 2025 timeframe. Additionally, we request that the plan be revised to show the Windermere WRF as decommissioned in the same 2016 to 2025 timeframe.

Thank you for your consideration and please let me know if you need any additional information.

Sincerely,

A handwritten signature in blue ink that reads 'Barry H. Lucas'.

Barry H. Lucas, P.E.  
Deputy Director