

Appendix B:  
**COUNTY LEVEL SUMMARIES**  
Wastewater Implementation Plans

## COUNTY-BY-COUNTY WASTEWATER FACILITY CAPACITY AND EXPANSION SCHEDULE

Integration of the three water resources plans; Water Supply and Water Conservation Management Plan, Watershed Management Plan, and the Wastewater Management Plan, is reflected in the facility plans outlined in this Section. Planning considerations, such as the return of high quality effluent to Lake Lanier and Lake Allatoona to replenish drinking water supplies and the decommissioning of less efficient wastewater treatment facilities to benefit water quality, shaped the county-level summaries.

This Appendix outlines the schedule for expanding wastewater facility treatment capacities in the Metro Water District. Appendix B details the capital projects and non-capital programs specific to each county in the Metro Water District. Capital projects include new wastewater treatment facilities, facility expansions and decommissioning of existing facilities. Non-capital programs include planning, intergovernmental agreements and other studies necessary to protect water resources and facilitate planned expansions.

The schedule shown is intended to be a general guideline to identify wastewater treatment needs through the planning horizon of 2035. In Appendix B, the expansion capacities are intended to be in operation before the end of the period shown, however planning, design and construction of expansions may begin in the previous period. Actual timing of new or expanded facilities will occur when local growth and planning indicates the need for additional capacity. Facility capacities listed in Appendix B of the Wastewater and Water Supply and Water Conservation Management Plans for each planning period are considered as maximums and that local jurisdictions may plan within and up to that capacity. All new facilities and facility expansions identified in Appendix B are subject to permitting by Georgia EPD and must meet all state standards associated with the necessary permits. Inclusion within this plan does not guarantee a permit, however facilities must be reflected within Appendix B to initiate permitting discussions with Georgia EPD.

It may be necessary to add some small public, private, and/or public-agency wastewater treatment facilities on an interim basis, until growth fills in sufficiently to allow consolidation at the major facilities as allowed by local policies and ordinances. Some local wastewater providers may elect to decommission a facility during a prior period to that shown in Appendix B. Small facilities that will be decommissioned and wastewater flows consolidated at another facility within the Metro Water District will not require a plan amendment to decommission the small facilities.

Appendix B focuses on facility capacity and does not reflect upgrades to the level of treatment at existing wastewater facilities. In some cases, the level of treatment will relate to the effectiveness of non-point source pollution controls outlined in the Watershed Management Plan and the impact on assimilative capacity of receiving streams. This Wastewater Management Plan outlines a facility plan that protects water quality.

### PLANT CAPACITIES

Wastewater treatment plant capacities, listed in Appendix B, were designed to match the projected 2035 maximum monthly flow or wastewater facility treatment demand. It is recognized that plant capacity is added in convenient increments and not to match a specific projected flow. At times, it may be desirable to construct somewhat more capacity than is shown in Appendix B to add a convenient increment of capacity. For example, if a WWTP with 5 MGD capacity needs to handle a projected demand of 8 MGD, the most cost efficient plan may be to double the current capacity to 10 MGD. The convenient increments of plant capacity for expansion projects should be determined through local wastewater master plans tailored both to the facility and the community.

The forecasts of plant capacity in Appendix B were based on a District-wide average peaking factor of 1.25 (peak month average day/average annual day) for water demands and a 20% I/I factor. In reality, due to variations in water and collections systems efficiency, these factors will vary for each local wastewater provider. Each local wastewater provider must determine the necessary treatment capacities in the local wastewater master plans.

Significant proposed changes in plant capacity will be evaluated against the essential elements of the Wastewater Management Plan through the Plan Amendment process, outlined in Section 13. Minor changes in phasing of capacity are considered consistent with this Wastewater Management Plan and do not require an amendment.

### PHASING

The capital improvement project phasing shown in Appendix B was developed to provide adequate treatment capacity for the projected wastewater demands in that phase, and to make steady progress toward implementing the essential elements of the Wastewater Management Plan. Within this context, the timeframe for capital improvements in Appendix B is flexible. For example, delaying the date that a plant is decommissioned is generally acceptable. Expanding a plant in more or fewer projects is also generally acceptable. The local wastewater master plans are expected to delve into the timeframes for capital improvements in greater detail than this regional Wastewater Management Plan.

## Appendix B: COUNTY LEVEL SUMMARIES

### Bartow 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>				
Bartow County Needs	16	19	25	34
<b>Total Projected Flow to Plants</b>	<b>16</b>	<b>19</b>	<b>25</b>	<b>34</b>
Treatment Capacity	20.0	30.5	38.6	42.6

#### Capital Projects

New treatment capacity will be provided by expanding the Adairsville North and Cartersville WPCPs and building new facilities in West and Southeast Bartow County. One existing facility will be phased-out. Growth over the planning horizon will enlarge the service areas of the major facilities, leading to expansion of these larger facilities coupled with the decommissioning of several existing smaller facilities.

#### Phasing Plan

Facilities (Note 1)	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)	
Adairsville North WPCP	No expansions		1.0	Expand	3.0	4.0	No expansions		4.0	No expansions		4.0
Adairsville South WPCP	No expansions		0.5	Expand	0.5	1.0	No expansions		1.0	No expansions		1.0
Cartersville WPCP	No expansions		15.0	Expand	5.0	20.0	No expansions		20.0	Expand	4.0	24.0
West Bartow WPCP							Initial Construction	4.0	4.0	No expansions		4.0
Emerson Pond WPCP	Expand	1.05	1.5	No expansions		1.5	No expansions		1.5	No expansions		1.5
Bartow Southeast WPCP	Expand	1.9	2.0	Expand	2.0	4.0	Expand	4.1	8.1	No expansions		8.1
Bartow Two Run WPCP	Decommission, Flow to Cartersville WPCP		-									
<b>Total Capacity (MMF-MGD)</b>			<b>20.0</b>			<b>30.5</b>			<b>38.6</b>			<b>42.6</b>

Notes:

1) 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.

#### Non-Capital Programs

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

- Develop multi-jurisdiction agreements among the county and cities.

## Appendix B: COUNTY LEVEL SUMMARIES

### Cherokee 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>				
Cherokee County Needs	17	20	28	40
<b>Total Projected Flow to Plants</b>	<b>17</b>	<b>20</b>	<b>28</b>	<b>40</b>
Treatment Capacity	24.5	32.25	40.25	53.25

#### Capital Projects

- New treatment capacity will be provided by expanding the Canton WPCP, Cherokee County Water and Sewer Authority's (CCWSA) Fitzgerald Creek and Cherokee Rose Creek WWTPs and through CCWSA construction of two new wastewater treatment facilities: Northeast Cherokee WPCP and the Northwest WPCP. The City of Woodstock WPCP will continue to treat sewage from the City of Woodstock.
- Regionalization with adjoining jurisdictions can only be achieved by combining assimilative capacity from a requesting jurisdiction contingent upon mutually agreeable negotiations between the parties.

#### Basin Considerations

Treated flow will be discharged to surface water bodies in the Etowah River Basin. More stringent phosphorus limits will likely be imposed as a result of the recent TMDL for Lake Allatoona.

#### Phasing Plan

	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)	
<b>Facilities (Note 1)</b>												
Woodstock WPCP	No expansions		2.5	No expansions		2.5	No expansions		2.5	No expansions		2.5
CCWSA Fitzgerald Creek WPCP	Expand	4.0	6.0	Expand	5.75	11.75	No expansions		11.75	No expansions		11.75
CCWSA Rose Creek WPCP	No expansions		6.0	No expansions		6.0	Expand	4.0	10.0	Expand	5.0	15.0
Canton WPCP	Expand	4.1	6.0	Expand	2.0	8.0	No expansions		8.0	No expansions		8.0
CCWSA Northeast WPCP	New	2.0	2.0	No expansions		2.0	Expand	2.0	4.0	Expand	4.0	8.0
Cherokee Northwest WPCP (Note 2)	New	2.0	2.0	No expansions		2.0	Expand	2.0	4.0	Expand	4.0	8.0
<b>Total Capacity (MMF-MGD)</b>			<b>24.5</b>			<b>32.25</b>			<b>40.25</b>			<b>53.25</b>

Notes:

- 1) 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.
- 2) Cherokee Northwest WPCP capacity is shared between CCWSA (60%) and the City of Canton (40%).

#### Non-Capital Programs

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

- Participate in joint planning study with Forsyth County and affected cities to develop a regional approach to wastewater management for the Upper Etowah Basin.

## Appendix B: COUNTY LEVEL SUMMARIES

### Clayton 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>				
Clayton County Needs	36	37	40	46
To DeKalb County	-2	-2	-3	-4
<b>Total Projected Flow to Plants</b>	<b>34</b>	<b>35</b>	<b>37</b>	<b>42</b>
Treatment Capacity	38.4	38.4	44.4	44.4

#### Capital Projects

- New treatment capacity will be provided by expanding the WB Casey WRF.
- A new pump station will return flows previously sent to the City of Atlanta to the Casey WRF.

#### Basin Considerations

- The Clayton Northeast WRF will continue to discharge in the Ocmulgee River Basin. The Clayton WB Casey WRF will also discharge to the Ocmulgee River Basin via the wetlands treatment system, which will be expanded as to discontinue land application. The Clayton Shoal Creek WRF will continue to discharge to the wetlands treatment system.

#### Phasing Plan

Facilities (Note 1)	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)	
Clayton WB Casey WRF	No expansions		24.0	No expansions		24.0	Expand	6.0	30.0	No expansions		30.0
Clayton Shoal Creek WRF	No expansions		4.4	No expansions		4.4	No expansions		4.4	No expansions		4.4
Clayton Northeast WRF	No expansions		10.0	No expansions		10.0	No expansions		10.0	No expansions		10.0
<b>Total Capacity (MMF-MGD)</b>			<b>38.4</b>			<b>38.4</b>			<b>44.4</b>			<b>44.4</b>

Notes:

1) 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.

#### Non-Capital Programs

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

- Continue agreements with DeKalb County. The City of Atlanta agreement is set to expire in 2009; construction of a new pump station will return the majority of the flow to the Casey WRF.
- Participate in multi-jurisdictional arrangements with DeKalb County for capacity in the DeKalb Polebridge WPCP.
- Evaluate the feasibility of pumping DeKalb flows back to the Northeast WRF.

## Appendix B: COUNTY LEVEL SUMMARIES

### Cobb County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Cobb County Needs	88	91	98	108
To North Fulton (Willeo Creek Watershed)	0	0	0	-3.5
From North Fulton (Chattahoochee Basin)				3.5
From Fulton - Sandy Springs	8	8	10	14
From Paulding County (Chattahoochee Basin)	6	6	8	10
To Paulding County (Coosa Basin)	-0.55	-0.55	-0.55	-0.55
From Paulding County (Coosa Basin)	0.3	0.3	0.3	0.3
<b>Total Projected Flow to Plants</b>	<b>101</b>	<b>105</b>	<b>116</b>	<b>132</b>
Treatment Capacity	122	132	132	142

#### Capital Projects

New treatment capacity will be provided by expanding the Cobb County South WRF and revising permitted capacity at RL Sutton WRF. Wastewater from the Sandy Springs area in Fulton County will continue to be treated, and the flow will increase sufficiently, so that the City of Atlanta does not need to expand its WPCPs before 2035.

#### Basin Considerations

The Cobb County Noonday Creek and Northwest WRFs will continue to discharge to the Coosa Basin, and the Cobb County RL Sutton and South Cobb WRFs will continue to discharge to the Chattahoochee River. Wastewater from within Cobb County will continue to be collected according to the natural drainage basin patterns for these two major basins.

#### Phasing Plan

Facilities (Note 1)	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)	
Cobb Noonday Creek WRF	No expansions		20.0	No expansions		20.0	No expansions		20.0	No expansions		20.0
Cobb Northwest Cobb WRF	No expansions		12.0	No expansions		12.0	No expansions		12.0	No expansions		12.0
Cobb RL Sutton WRF	Revise Permit	10.0	50.0	Revise Permit	10.0	60.0	No expansions		60.0	No expansions		60.0
Cobb South Cobb WRF	No expansions		40.0	No expansions		40.0	No expansions		40.0	Expand	10.0	50.0
<b>Total Capacity (MMF-MGD)</b>			<b>122</b>			<b>132</b>			<b>132</b>			<b>142</b>

Notes:

1) 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.

#### Non-Capital Programs

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

- Continue regional cooperation on wastewater treatment issues.

## Appendix B: COUNTY LEVEL SUMMARIES

### Coweta 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>				
Coweta County Needs	8	10	15	25
<b>Total Projected Flow to Plants</b>	<b>8</b>	<b>10</b>	<b>15</b>	<b>25</b>
Treatment Capacity	12.23	18.84	25.34	34.73

#### Capital Projects

- Additional capacity will be provided by installing a new WPCP in southeast Coweta County and Sharpsburg. Most of the small facilities will expand with several private facilities constructed and deeded to the local wastewater provider.

#### Basin Considerations

- Some flows to the Chattahoochee Basin could be land applied after treatment. Surface water discharge can be considered for these flows. Flow from the new Southeast Coweta WPCP will be discharged in the Flint Basin.

#### Phasing Plan

	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)	
<b>Facilities (Note 1)</b>												
Coweta Arco WPCP	No expansions		0.10	No expansions		0.10	No expansions		0.10	Expand	0.9	1.0
Coweta Sergeant WPCP	No expansions		0.06	No expansions		0.06	No expansions		0.06	Expand	0.94	1.0
Newnan Mineral Springs WPCP	Expand	1.25	2.0	Expand	1.25	3.25	Expand	0.75	4.0	No expansions		4.0
Newnan Wahoo Creek WPCP	No expansions		3.0	Expand	1.0	4.0	Expand	2.0	6.0	No expansions		6.0
Newnan Utilities Decentralized Systems (Note 2)	New	1.0	1.0	Expand	1.25	2.25	Expand	3.25	5.50	Expand	2.25	7.75
Coweta Shenandoah WPCP	Expand	1.11	2.0	No expansions		2.0	No expansions		2.0	No expansions		2.0
Senoia LAS (Note 4)	No expansions		0.49	Expand	0.51	1.0	No expansions		1.0	No expansions		1.0
Sharpsburg WPCP (Notes 3 - 5)				New	0.3	0.3	Expand	0.2	0.5			
Senoia Southeast WPCP (Note 5)				New	2.0	2.0	No expansions		2.0	Expand	5.0	7.5
Grantville Colley Street LAS (Note 5)	No expansions			No expansions			No expansions			No expansions		
Grantville Ponds (Note 5, Note 6)	No expansions			No expansions			No expansions			No expansions		
Grantville Yellow Jacket Creek WPCP (Note 5, Note 6)	New	0.25		No expansions			No expansions			No expansions		
Grantville New River WPCP (Note 5, Note 6)	New	0.25	0.78	No expansions		0.78	No expansions		0.78	No expansions		0.78
Coweta private systems (deeded to WSA)	New	2.5	2.50	No expansions		2.50	No expansions		2.50	No expansions		2.50
Coweta Bridgeport WPCP	New	0.30	0.30	Expand	0.30	0.60	Expand	0.30	0.90	Expand	0.30	1.20
<b>Total Capacity (MMF-MGD)</b>			<b>12.23</b>			<b>18.84</b>			<b>25.34</b>			<b>34.73</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 "Newnan Utilities Decentralized Systems" represents an estimation of the anticipated construction of multiple decentralized facilities operated by Newnan Utilities.
- Initial 0.15 MGD will be to Sharpsburg LAS; an additional 0.15 MGD will either be to the LAS or new point source discharge.
- Expansion in 2016 to 2025 timeframe will be either to the LAS or new point source discharge.
- Proposed capacity is to be shared between these facilities as determined by joint local wastewater master planning.
- Benefits of decommissioning these facilities will be investigated in the 2016 to 2035 time period.

#### Non-Capital Programs

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

- Undertake a joint planning study comprised of the county and local cities to develop a comprehensive, strategic plan for managing wastewater. The study should determine how to best utilize existing and proposed city and county treatment facilities to serve the whole area.
- Develop multi-jurisdiction agreements among the county and cities, as needed.
- Develop multi-jurisdictional agreements between the county, City of Senoia, Fayette County and Peachtree City, as needed, for regional plan.
- Develop options for large industrial sites to be served by the County in the future.

## Appendix B: COUNTY LEVEL SUMMARIES

### DeKalb County

#### Summary of Needs

Wastewater Flows & Capacities	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)
DeKalb County Needs	99	101	107	117
To Gwinnett County	-1	-1	-1	-1
To Fulton	-56	-56	-60	-64
From Clayton County	2	2	3	4
From Rockdale	0.5	0.5	0.5	0.5
<b>Total Projected Flow to Plants</b>	<b>44</b>	<b>46.5</b>	<b>49.5</b>	<b>56.5</b>
Treatment Capacity	56.0	70.0	93.0	93.0

#### Capital Projects

- The treated flow from DeKalb Polebridge and Snapfinger WPCP's will be discharged to two rivers; combined plant discharges from the Snapfinger WPCP and the Pole Bridge Creek WPCP in excess of that currently permitted (56 mgd) will be either (1) returned to the Chattahoochee River Basin in accordance with a wasteload allocation to be issued by Georgia EPD or (2) indirectly reused for drinking water in DeKalb County thus reducing the County's future withdrawals from the Chattahoochee River. The reuse option may consist of an increased discharge beyond 56 mgd into the South River with a corresponding downstream water withdrawal for drinking water.

#### Basin Considerations

- The treated flow from the DeKalb Polebridge and Snapfinger WPCPs will be discharged to two rivers; all flow above 56 MGD in the Ocmulgee basin portion of the County will be returned following one of the two scenarios outlined in Capital Projects, above.

#### Phasing Plan

Facilities (Note 1)	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)	
DeKalb Polebridge WPCP	No expansions		20.0	Expand	10.0	30.0	Expand	9.0	39.0	No expansions		39.0
DeKalb Snapfinger WPCP	No expansions		36.0	Expand	4.0	40.0	Expand	14.0	54.0	No expansions		54.0
<b>Total Capacity (MMF-MGD)</b>			<b>56.0</b>			<b>70.0</b>			<b>93.0</b>			<b>93.0</b>

Notes:

1) 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.

#### Non-Capital Programs

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

- Maintain existing agreements with Fulton County and with the City of Atlanta for treating wastewater at the RM Clayton and Intrenchment Creek WRCs.
- Continue/expand agreements to receive wastewater from Clayton, Gwinnett, Fulton and Rockdale Counties.



## Appendix B: COUNTY LEVEL SUMMARIES

### Douglas 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>				
Douglas County Needs	10	11	15	22
<b>Total Projected Flow to Plants</b>	<b>10</b>	<b>11</b>	<b>15</b>	<b>22</b>
Treatment Capacity	12.89	17.49	22.64	27.84

#### Capital Projects

- Over the next 30 years, wastewater treatment plants within the County will be expanded as demanded by growth.
- The Douglasville-Douglas County Water & Sewer Authority plans to design and construct an alternate discharge point downstream from the current discharge point for the existing 6.0 MGD South Central Water Pollution Control Plant. The alternate discharge point will not impact the current permitted capacity of the South Central Water Pollution Control Plant.

#### Basin Considerations

- DDCWSA and Villa Rica North facilities will be discharged to surface water bodies in the Chattahoochee Basin. Villa Rica West discharges to the Tallapoosa Basin.

#### Phasing Plan

Facilities (Note 1)	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)	
DDCWSA Beaver Estates WPCP	No expansions		0.08	Decommission, flow to Sweetwater Creek		-						
DDCWSA Rebel Trails WPCP	No expansions		0.04	Decommission, Flow to South Central WPCP		-						
DDCWSA Southside WPCP	Decommissioned, Flows to South Central WPCP		-									
DDCWSA South Central UWRF	No expansions		0.5	No expansions		0.5	No expansions		0.5	No expansions		0.5
DDCWSA South Central WPCP	No expansions		6.0	No expansions		6.0	Expand	3.0	9.0	Expand	3.0	12.0
DDCWSA Northside WPCP	No expansions		0.6	Expand	1.4	2.0	No expansions		2.0	No expansions		2.0
DDCWSA Sweetwater Creek WPCP	No expansions		3.0	Expand	3.0	6.0	No expansions		6.0	No expansions		6.0
Villa Rica North WPCP	No expansions		0.52	Expand	0.32	0.84	No expansions		0.84	No expansions		0.84
Villa Rica West WPCP (Note 2)	Expand	1.37	2.15	No expansions		2.15	Expand	2.15	4.3	Expand	2.2	6.5
<b>Total Capacity (MMF-MGD)</b>			<b>12.89</b>			<b>17.49</b>			<b>22.64</b>			<b>27.84</b>

Notes:

- 1) 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.
- 2) Villa Rica West WPCP located within Carroll County and not all flows to this facility are taken into account in the Douglas County total projected flows.

#### Non-Capital Programs

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

- Participate in joint planning study with Cobb and Paulding Counties to develop a regional approach to wastewater management for the portion of Paulding County in the Chattahoochee Basin.
- Develop multi-jurisdiction agreement with Paulding County, as needed.

## Appendix B: COUNTY LEVEL SUMMARIES

### Fayette 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>				
Fayette County Needs	11	12	16	22
<b>Total Projected Flow to Plants</b>	<b>11</b>	<b>12</b>	<b>16</b>	<b>22</b>
Treatment Capacity	11.0	14.0	17.0	22.0

#### Capital Projects

- Wastewater treatment in Fayette County will be provided at three existing facilities, two in Peachtree City and one in Fayetteville.

#### Basin Considerations

- Treated flow will be discharged to the Flint Basin.

#### Phasing Plan

	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)	
<b>Facilities (Note 1, Note 2)</b>												
Peachtree City Line Creek WPCP	No expansions		2.0									
Peachtree City Rockaway WPCP	No expansions		4.0									
Fayetteville Whitewater Creek WPCP (Note 2)	Expand	1.25	5.0	Expand	3.0	14.0	Expand	3.0	17.0	Expand	5.0	22.0
<b>Total Capacity (MMF-MGD)</b>			<b>11.0</b>			<b>14.0</b>			<b>17.0</b>			<b>22.0</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. Proposed expansion capacities will be agreed upon by both jurisdictions in the local wastewater master plan prior to requesting wasteload allocations or seeking permits.
- Where proposed capacity is allotted to more than one plant, it is to be shared between them, as determined by need through local wastewater master plans.

#### Non-Capital Programs

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

- Evaluate the need for additional wastewater treatment capacity in local wastewater master plans.

## Appendix B: COUNTY LEVEL SUMMARIES

### Forsyth County

#### Summary of Needs

Wastewater Flows & Capacities	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)
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	18.56	36.41	42.41	58.81

#### 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	No expansions		0.55	No expansions		0.55
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		-
<b>Total Capacity (MMF-MGD)</b>			<b>18.56</b>			<b>36.41</b>			<b>42.41</b>			<b>58.81</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.

# Appendix B: COUNTY LEVEL SUMMARIES

## Fulton County

### Summary of Needs

Wastewater Flows & Capacities	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)
Fulton County Needs	182	191	213	240
From Cobb (Willeo Creek Watershed)	3.5	3.5	3.5	3.5
To Cobb (Chattahoochee Basin)	3.5	3.5	3.5	
To Cobb - Sandy Springs	-8	-8	-10	-4.5
From DeKalb County	56	56	60	64
<b>Total Projected Flow to Plants</b>	<b>237</b>	<b>246</b>	<b>270</b>	<b>303</b>
Treatment Capacity	291.8	308.3	308.3	313.3

### Capital Projects

- New treatment capacity will be provided by expanding the Johns Creek WRFs. Existing arrangements to receive wastewater from DeKalb and Cobb Counties will be continued.
- The City of Atlanta will use the current design capacity at its WRCs to treat wastewater flows through 2035. Wastewater may need to be pumped within the City to fully utilize each WRC. It will continue to receive wastewater for treatment from DeKalb County, Sandy Springs, and southern Fulton County.
- The Fulton Camp Creek WRF will expand in the near future. Industrial WWTPs may be converted into pretreatment plants, while others could be retained, expanded or modified. The public-agency WWTPs will be phased-out. It may be necessary to add some small public, private, and/or public-agency WWTPs on an interim basis in fringe areas of the county, until growth fills in sufficiently to allow consolidation at the major facility.

### Basin Considerations

- Treated flow from WWTPs will be discharged to the Chattahoochee River. The Atlanta South River WRC will continue to pump its effluent from the Ocmulgee Basin to the Chattahoochee River. The City of Atlanta combined sewer overflow and treatment facilities will continue to discharge to the Chattahoochee or Ocmulgee Basin, according to the drainage areas they serve.

### Phasing Plan

Facilities (Note 1)	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)	
Fulton Big Creek WRF	No expansions	24.0	24.0	Expand	14.0	38.0	No expansions	38.0	No expansions	38.0	38.0	
Fulton Johns Creek WRF	Expand	8.0	15.0	No expansions	15.0	15.0	No expansions	15.0	Expand	5.0	20.0	
Fulton Cauley Creek Reuse	No expansions	5	5	No expansions	5.0	5.0	No expansions	5.0	No expansions	5.0	5.0	
Fulton Little River WRF	No expansions	1	1	Expand	1.6	2.6	No expansions	2.6	No expansions	2.6	2.6	
Atlanta RM Clayton WRC (Note 2)	Revise Permit	22	122.0	No expansions	122.0	122.0	No expansions	122.0	No expansions	122.0	122.0	
Atlanta Utoy Creek WRC (Note 2)	Revise Permit	7	44.0	No expansions	44.0	44.0	No expansions	44.0	No expansions	44.0	44.0	
Atlanta South River WRC (Note 2)	Revise Permit	13	54.0	No expansions	54.0	54.0	No expansions	54.0	No expansions	54.0	54.0	
Fulton Camp Creek WRF	Expand	11.0	24.0	No expansions	24.0	24.0	No expansions	24.0	No expansions	24.0	24.0	
Fulton Little Bear Creek WRF	No expansions		0.1	Decommission, Flow to Fulton Camp Creek WRF		-						
Union City WWTP (Note 3)	New	2.5	2.5	No expansions	2.5	2.5	No expansions	2.5	No expansions	2.5	2.5	
Fairburn LAS				New	1.0	1.0	No expansions	1.0	No expansions	1.0	1.0	
Fulton Settingdown Creek Golf Course Reuse	No expansions		0.2	No expansions	0.2	0.2	No expansions	0.2	No expansions	0.2	0.2	
Fulton Technology Park/Johns Creek WRF	Decommission, Flow to Fulton Johns Creek WRF		-									
<b>Total Capacity (MMF-MGD)</b>			<b>291.8</b>			<b>308.3</b>		<b>308.3</b>			<b>313.3</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.
- These numbers represent current design capacities for these facilities. The current NPDES permits for the City of Atlanta's facilities do not contain flow limits. The City of Atlanta and Georgia EPD are discussing inclusion of flow limits in the NPDES permits for some of these facilities.
- Planning for this facility must be coordinated into the overall county wastewater management plan.

### Non-Capital Programs

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

- Continue agreements between county and cities.
- Continue existing agreement to receive wastewater from DeKalb and Cobb Counties.
- Participate in joint planning study with Cherokee and Forsyth Counties and affected cities to develop a regional approach to wastewater management for the Upper Etowah Basin.
- Develop multi-jurisdiction agreement, as needed, with Cherokee and/or Cobb Counties for them to receive wastewater generated in Fulton Etowah Basin.

## Appendix B: COUNTY LEVEL SUMMARIES

### Gwinnett County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Gwinnett County Needs	96	107	121	135
From DeKalb County	1	1	1	1
<b>Total Projected Flow to Plants</b>	<b>97</b>	<b>108</b>	<b>122</b>	<b>136</b>
Treatment Capacity	100.9	101.5	111.5	136.5

#### Capital Projects

- New treatment capacity will be provided by expanding the Gwinnett Crooked Creek, F. Wayne Hill, and Yellow River WRF's. The other facilities will be phased-out, as flows are consolidated to these three major plants.
- Gwinnett intends to reduce or eliminate discharges to DeKalb County for treatment at the DeKalb Polebridge Creek WPCP. Exact timing of the reduction or elimination of discharge to DeKalb has not yet been determined. New conveyance infrastructure will be constructed to convey flows to be treated within Gwinnett County.

#### Basin Considerations

- Discharge of reclaimed water to the Yellow River will remain at 22 MGD as is presently permitted.
- Reclaimed water produced by Gwinnett F. Wayne Hill WRC (40 MGD) will be returned to Lake Lanier per NPDES permit GA0038130.
- The reclaimed water that will be produced by the expansion of the F. Wayne Hill WRC (25 mgd) may be discharged to the Chattahoochee River or Lake Lanier subject to the EPD approvals and permits.
- The additional 9 MGD at the Gwinnett Crooked Creek WRF is to be discharged into the Chattahoochee River.

#### Phasing Plan

Facilities (Note 1)	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)	
Buford Southside WPCP	No expansions		2.0	Expand	1.5	3.5	Expand	1.0	4.5	No expansions		4.5
Buford Westside WPCP	No expansions		0.25	Decommission, Flow to Buford Southside WPCP		-						
Gwinnett Crooked Creek WRC (Note 2)	No expansions		16.0	No expansions		16.0	Expand	9.0	25.0	No expansions		25.0
Gwinnett F. Wayne Hill WRC (Note 2)	No expansions		60.0	No expansions		60.0	No expansions		60.0	Expand	25.0	85.0
Gwinnett Beaver Run WRF	No expansions		4.5	Decommission, Flow to Gwinnett Yellow River WRF, Gwinnett F. Wayne Hill WRC		-						
Gwinnett Jacks Creek WRF	No expansions		0.62									
Gwinnett Jackson Creek WRF	No expansions		3.0									
Gwinnett Yellow River WRF	No expansions		14.5	Expand	7.5	22.0	No expansions		22.0	No expansions		22.0
<b>Total Capacity (MMF-MGD)</b>	<b>100.9</b>			<b>101.5</b>			<b>111.5</b>			<b>136.5</b>		

#### Notes:

- 1) 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.
- 2) The exact timing of this expansion will depend on flow demand. It may be necessary to have this expansion on line prior to the end of the previous planning period.

#### Non-Capital Programs

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

- Existing agreements to discharge wastewater to DeKalb Pole Bridge WPCP will remain in place until a determination is made as to exact timing to reduce or eliminate those discharges.
- Make provisions to return reclaimed water from the Gwinnett F. Wayne Hill WRC (40 MGD).
- If required by EPD, make provisions to return reclaimed water from the expanded Gwinnett F. Wayne Hill WRC (25 MGD) to Lake Lanier.

## Appendix B: COUNTY LEVEL SUMMARIES

### Hall County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Hall County Needs	21	27	39	51
<b>Total Projected Flow to Plants</b>	<b>21</b>	<b>27</b>	<b>39</b>	<b>51</b>
Treatment Capacity	20.18	31.80	47.20	59.80

#### Capital Projects

- New treatment capacity will be provided by expanding the four major, existing WPCPs within the county. The Lula Pond will be decommissioned and a new tertiary treatment facility will be constructed to meet the needs of the growing northeast corner of Hall County .
- The capital improvements are summarized in the following phasing plan for Hall County.

#### Basin Considerations

- Reclaimed water will be produced and discharged to Lake Lanier or its tributaries.

#### Phasing Plan

Facilities (Note 1)	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)	
Flowery Branch WPCP	Expand	1.14	2.05	Expand	1.45	3.5	Expand	3.0	6.5	Expand	2.5	9.0
Gainesville Flat Creek WRF	No expansions		12.0	Expand	3.0	15.0	Expand	3.0	18.0	No expansions		18.0
Gainesville Linwood WRF	No expansions		5.0	Expand	2.0	7.0	Expand	3.5	10.5	Expand	3.5	14.0
Spout Springs LAS (Note 2)	No expansions		0.75	Expand	3.25	4.0	Expand; split discharge to LAS, Mulberry Creek and/or Lake Lanier	4.0	8.0	Expand; discharge to Lake Lanier	3.0	11.0
Hall County (Note 3)				New	1.5	1.5	Expand	1.5	3.0	Expand	3.0	6.0
Lula Pond WPCP	Decommission flow to Lula WPCP		-									
Lula WPCP	New	0.375	0.375	Expand	0.425	0.8	Expand	0.4	1.2	Expand	0.6	1.8
<b>Total Capacity (MMF-MGD)</b>			<b>20.18</b>			<b>31.80</b>			<b>47.20</b>			<b>59.80</b>

#### Notes:

- 1) 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.
- 2) The Spout Springs LLC LAS may require a cold weather discharge permit to Mulberry Creek in the intermediate years; by 2035 a discharge permit to Lake Lanier or its tributary will be required.
- 3) This new facility must be in conformance with HB 489 negotiations and local wastewater master plans; the discharge may be to (1) To Flat Creek in North Hall, above Lake Lanier, (2) Directly to the future Glades Reservoir, for flow/supply augmentation to Lake Lanier, (3) To the City of Gainesville Flat Creek WRF, or (4) Other options that are defined by coordinated planning among Hall County, City of Gainesville, Flowery Branch, and Lula.

#### Non-Capital Programs

The following non-capital programs are specific to Hall 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 or its tributaries.
- Continue existing, and establish new agreements between the county and cities.

## Appendix B: COUNTY LEVEL SUMMARIES

### Henry County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Henry County Needs	16	19	28	39
<b>Total Projected Flow to Plants</b>	<b>16</b>	<b>19</b>	<b>28</b>	<b>39</b>
Treatment Capacity	22.02	40.05	57.85	55.85

#### Capital Projects

- Over the next 30 years, wastewater treatment will be consolidated. Several of the existing smaller facilities will be phased-out. Growth over the years will enlarge the service areas of the major facilities, leading to their expansion and the decommissioning of the existing smaller facilities.

#### Basin Considerations

- Henry Indian Creek LAS will continue as no-discharge systems. The Henry Bear Creek LAS will serve all unincorporated areas of the County in the Flint Basin. The Henry Walnut Creek WRF and Leguin Mill WPCP will discharge treated flow to surface water bodies in the Ocmulgee Basin.
- Provide LAS systems at two of the three WPCPs to be expanded if supported by consumptive use.

#### Phasing Plan

Facilities (Note 1)	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)	
Hampton WPCP	Expand	1.25	1.75	No expansions		1.75	No expansions		1.75	No expansions		1.75
Henry Bear Creek WRF/LAS	Expand	1	1.25	No expansions		1.25	No expansions		1.25	No expansions		1.25
Henry Indian Creek LAS	No expansions		1.5	Expand	1.5	3	Expand	4.0	7.0	No expansions		7.0
Henry Springdale Road WPCP	No expansions		0.5	No expansions		0.5	No expansions		0.5	Decommission, Flow to Henry Walnut Creek WRF		
Henry Springdale LAS	No expansions		1.1	No expansions		1.1	No expansions		1.1			
Henry Springdale/Walnut Creek WPCP	No expansions		0.4	No expansions		0.4	No expansions		0.4			
Henry Walnut Creek WRF	Expand; LAS	4.0	8.0	Expand; Discharge	10.0	18.0	Expand	9.0	27.0	No expansions		27.0
Locust Grove Indian Creek WPCP	Expand	1.5	3.0	No expansions		3.0	No expansions		3.0	No expansions		3.0
McDonough Walnut Creek WPCP	Expand	1.0	2.0	Expand	2.0	4.0	No expansions		4.0	No expansions		4.0
Stockbridge WPCP	Expand	0.75	2.25	No expansions		2.25	No expansions		2.25	No expansions		2.25
Henry Leguin Mill LAS	New	0.27	0.27	Decommission, Flow to Henry Leguin Mill WPCP		-						
Henry Leguin Mill WPCP				New	4.8	4.8	Expand	4.8	9.6	No expansions		9.6
<b>Total Capacity (MMF-MGD)</b>	<b>22.02</b>			<b>40.05</b>			<b>57.85</b>			<b>55.85</b>		

Notes:

1) 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.

#### Non-Capital Programs

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

- Develop multi-jurisdiction agreement with DeKalb County to receive wastewater from the northern corner of the county at the DeKalb Polebridge Creek WPCP.
- Evaluate participation between City of McDonough, and other cities within Henry County for regional development of new WPCPs and conveyance projects.

## Appendix B: COUNTY LEVEL SUMMARIES

### Paulding County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Paulding County Needs	12.17	20	37	50
To Cobb County (Chattahoochee Basin)	-5.75	-5.75	-7.75	-9.75
<b>Total Projected Flow to Plants</b>	<b>6.42</b>	<b>14.25</b>	<b>29.25</b>	<b>40</b>
Treatment Capacity	9.5	21.5	30.0	40.5

#### Capital Projects

- By 2035, wastewater treatment for the areas in the Coosa and Tallapoosa Basins will be consolidated at the Paulding Pumpkinvine Creek WRF, which be expanded. Wastewater produced in the Chattahoochee Basin area will be discharged to Cobb County, or possibly Douglas County, for treatment. Existing smaller facilities will be phased-out and flows consolidated at larger facilities.

#### Basin Considerations

- Treated flow from the Paulding Pumpkinvine WRF will be discharged to surface water bodies in the Coosa Basin, while flow discharged to Cobb County will eventually be discharged to the Chattahoochee River. More stringent phosphorus limits will likely be imposed as a result of the recent TMDL for Lake Allatoona.

#### Phasing Plan

Facilities (Note 1)	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)	
Paulding Coppermine WRF	Expand	2.5	4	Expand	0.5	4.5	Expand	2.0	6.5	No expansions		6.5
Dallas North WPCP	No expansions		0.5	Expand and merge into new facility	1.5	3.0	No expansions		3.0	Decommission, Flow to Pumpkinvine Creek WRF		-
Dallas West WPCP	No expansions		1.0				Initial Construction		0.5	Expand	0.5	1.0
Paulding West/Airport WRF	Expand	2.3	3.0	Expand	9.0	12.0	Expand	5.0	17.0	Expand	13.0	30.0
Paulding Upper Sweetwater WRF	Expand	0.7	1.0	Expand	0.5	1.5	Expand	1.0	2.5	No expansions		2.5
<b>Total Capacity (MMF-MGD)</b>			<b>9.5</b>			<b>21.5</b>			<b>30.0</b>			<b>40.5</b>

Notes:

1) 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.

#### Non-Capital Programs

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

- Maintain multi-jurisdiction agreement with Cobb to receive wastewater generated in the Paulding Chattahoochee Basin.
- Evaluate participation between the City of Dallas, and other cities within Paulding County for regional development of conveyance projects.



## Appendix B: COUNTY LEVEL SUMMARIES

### Rockdale County

#### Summary of Needs

Wastewater Flows & Capacities	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)
Rockdale County Needs	7	7	9	12
To DeKalb County	-0.5	-0.5	-0.5	-0.5
<b>Total Projected Flow to Plants</b>	<b>6.5</b>	<b>6.5</b>	<b>8.5</b>	<b>11.5</b>
Treatment Capacity	9.22	10.25	14.0	14.0

#### Capital Projects

- New treatment capacity will be provided by expanding the Rockdale Quigg Branch WRF and constructing a new South River WRF. The existing smaller facilities in south Rockdale County will be phased out.
- Pumping wastewater flow to DeKalb County for treatment at its Polebridge WPCP for a small portion of the Upper Yellow River basin will continue.

#### Basin Considerations

- Treated flow will be discharged to surface water bodies in the Ocmulgee Basin.

#### Phasing Plan

Facilities (Note 1)	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)	
Rockdale Quigg Branch WRF	Expand	1.0	7.0	No expansions		7.0	Expand	2.0	9.0	No expansions		9.0
Rockdale Almand Branch WWTP	No expansions		1.25	No expansions		1.25	Decommission, Pump to Quigg		-			
Rockdale Honey Creek WWTP	No expansions		0.3	Decommission, Pump to New South River WRF		-						
Rockdale Scott Creek WWTP	No expansions		0.22									
Rockdale Snapping Shoals WWTP	No expansions		0.45									
Rockdale New South River WRF				Initial Construction		2.0	Expand	3.0	5.0	No expansions		5.0
<b>Total Capacity (MMF-MGD)</b>			<b>9.22</b>			<b>10.25</b>			<b>14.0</b>			<b>14.0</b>

**Notes:**

1) 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.

#### Non-Capital Programs

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

- Maintain existing agreements with DeKalb County for treating a portion of Rockdale County's wastewater.

[This page intentionally left blank]