Georgia's State Water Plan

Regional Water Development and Conservation Plan Review and Revision Middle Ocmulgee Water Planning Council Council Meeting 2

Georgia's State Water Plan

Middle Ocmulgee Regional Water Council Meeting 2 Agenda - Thursday June 23, 2016

Meeting Objectives:

- 1) Joint Meeting debrief with Council Members
- 2) Council Meeting Business
- 3) Follow-up discussion from June 13, 2016 Conference Call

10:00 am - 3:00 pm

Joint Council Meeting (Covered under separate agenda)

Middle Ocmulgee Council Meeting

3:00 pm - 3:20 pm	Joint Meeting Debrief	
3:20 pm - 4:00 pm	Council Meeting Business	
	 Approve meeting minutes from Council Meeting 1 	
	 Operating procedures updates 	
	• Follow-up discussion from June 13, 2016 Conference Call	
	 319(h)Grant Project update 	
	New Business	
4:00 pm	Public Comments	
4:15 pm	Meeting Adjourn	





Joint Meeting Discussion and Debrief

MOC Council Meeting 2

Council Meeting Business:

- Registration and Public Comment sign in
- Review Minutes from Last Meeting
- Review Agenda

Public Comments:

- Sign up for public comments
- Please limit comments to 3 minutes total
- Council encourages written submission of comments as well



MOC Council Meeting 2

Council Meeting Business:

- Operating Procedures updates
 - Proposed revisions to allow Council to achieve a quorum for decision making
 - Defines "active Council members" as the criteria for determining a quorum
- Proposed updates were reviewed and generally agreed upon at CM 1
- Updates distributed to fully inform all Council Members and solicit votes
 - Council vote via email, to date 12 YEAs, 0 NAYs
 - Record additional votes



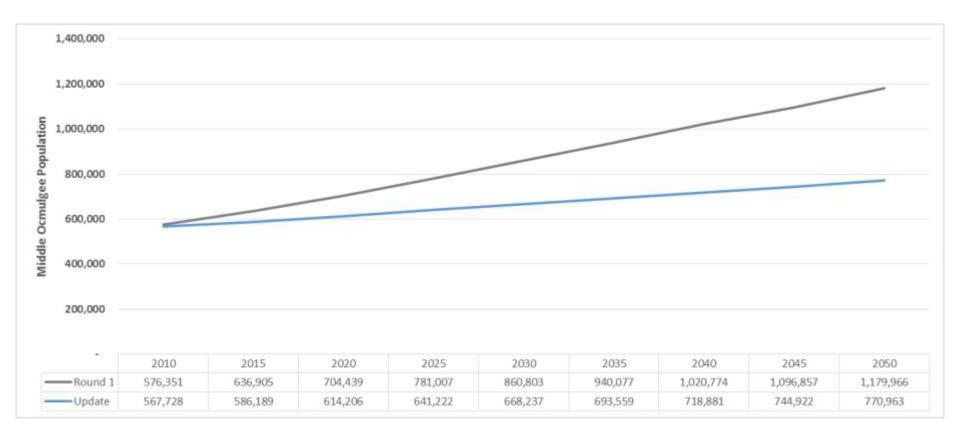


Follow up and Updated Information from CM 1 (Conference Call June 13, 2016)

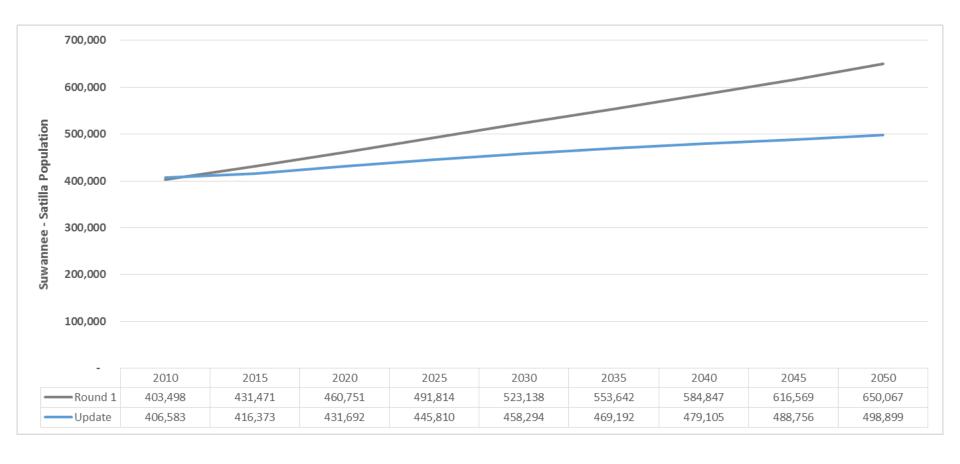
Regional Population Projections

- The following slides provide a summary of population projections
 - Middle Ocmulgee
 - Suwannee-Satilla
 - Altamaha
 - Upper Oconee

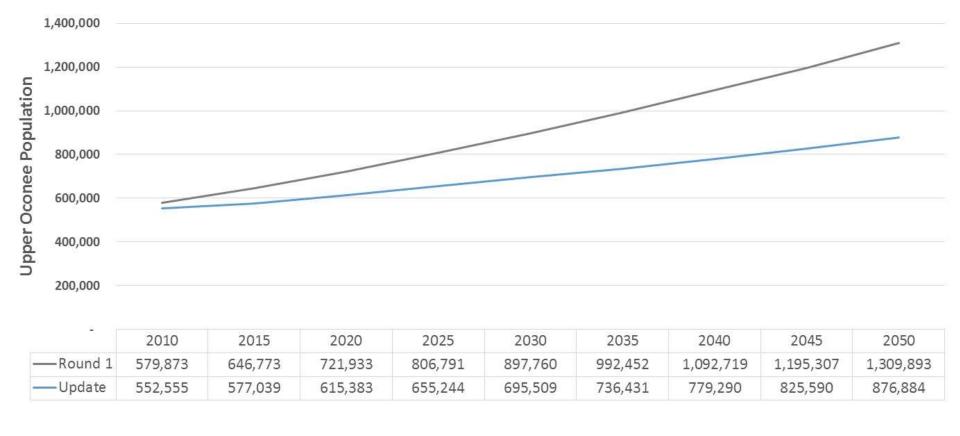
Middle Ocmulgee Region Population Projections



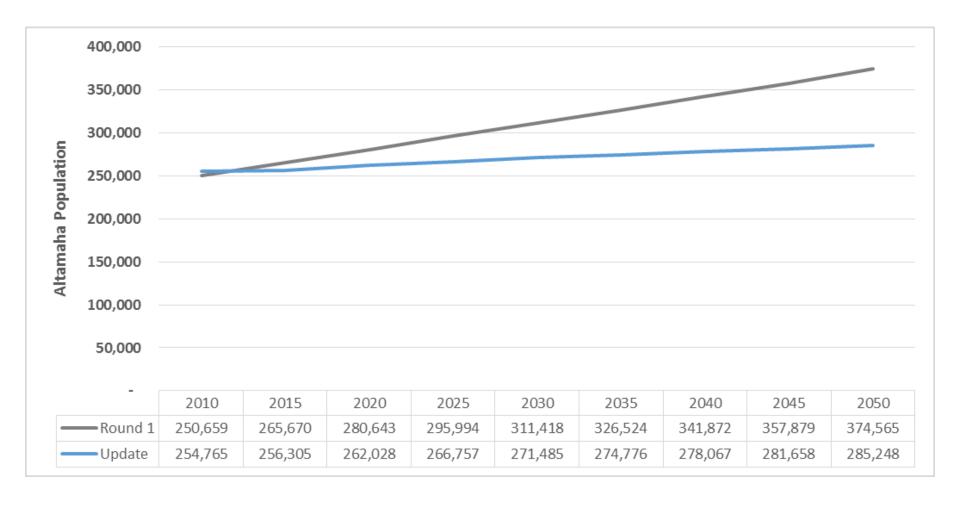
Suwannee-Satilla Region Population Projections



Upper Oconee Region Population Projections



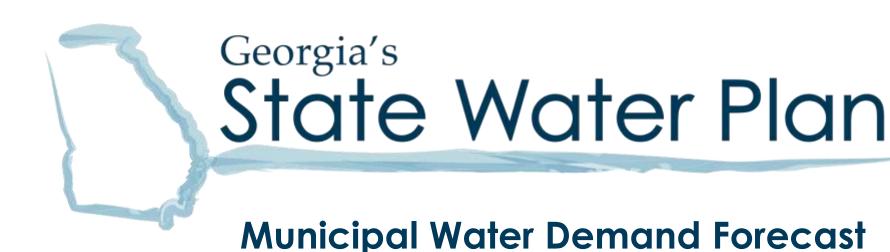
Altamaha Region Population Projections



Neighboring Regional Population Projections

- Projections for neighboring regions have also "flattened" out compared to Round 1
- Neighboring regional populations lower

Region	2010 Population	2050 Population	
Middle Ocmulgee	567,728	770,963	
Suwannee-Satilla	406,583	498,899	
Upper Oconee	552,555	876,884	
Altamaha	254,765	285,248	

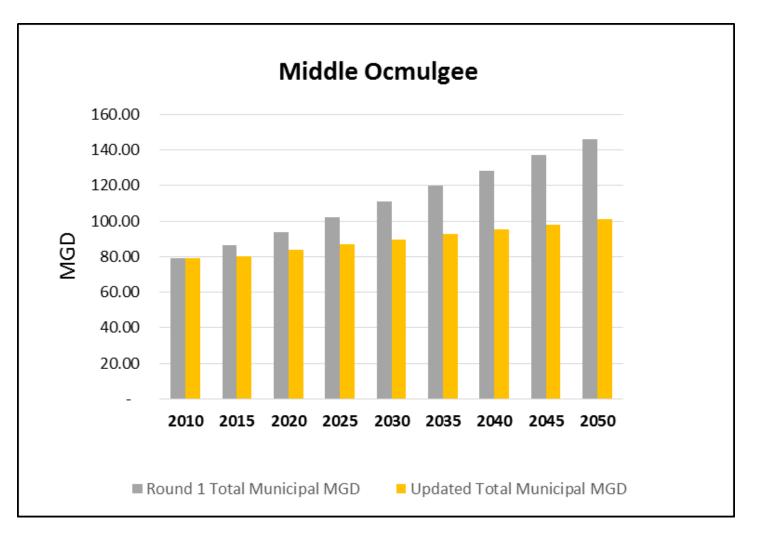


Update

Municipal GPCD Adjustment Results by County

County	Round 1 GPCD	% Adjustment Factor	Adjusted GPCD	GPCD Δ
Bibb	177	-3.1%	171	-5
Butts	117	1.9%	120	2
Crawford	101	5.1%	107	5
Houston	168	-1.1%	166	-2
Jasper	138	0.4%	139	1
Jones	90	1.1%	91	1
Lamar	188	3.0%	193	6
Monroe	185	3.0%	191	6
Newton	121	1.1%	122	1
Peach	126	-1.2%	125	-2
Pulaski	140	4.2%	146	6
Twiggs	125	-0.3%	125	0

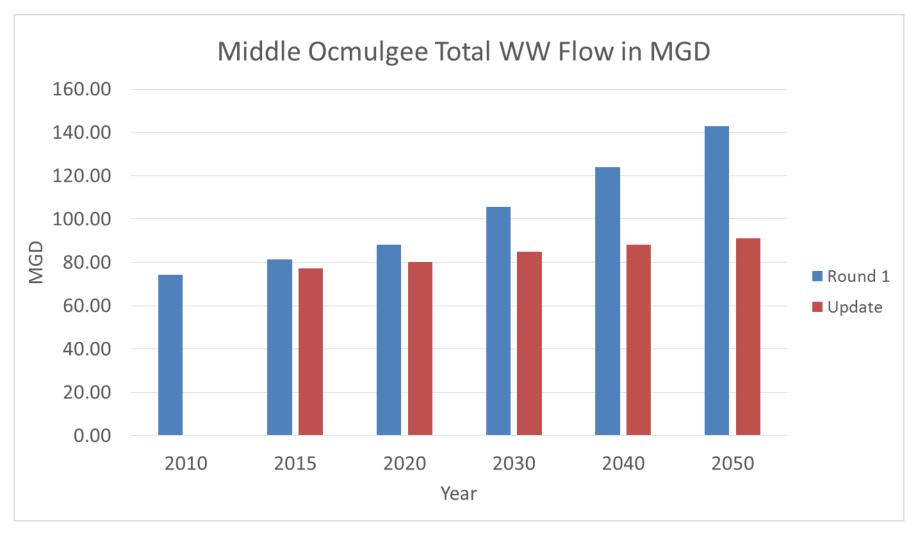
MOC Region Updated Municipal Water Demand





Municipal Wastewater Demand Forecast Update

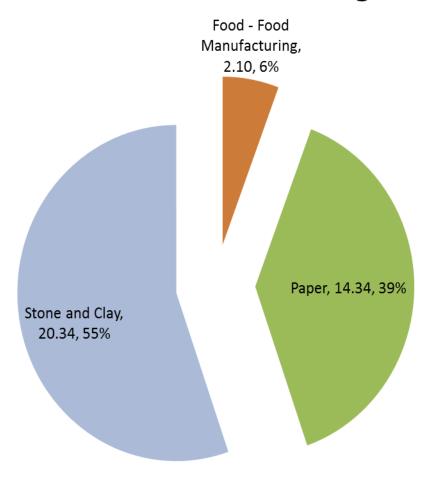
Municipal Wastewater Forecast Update Results



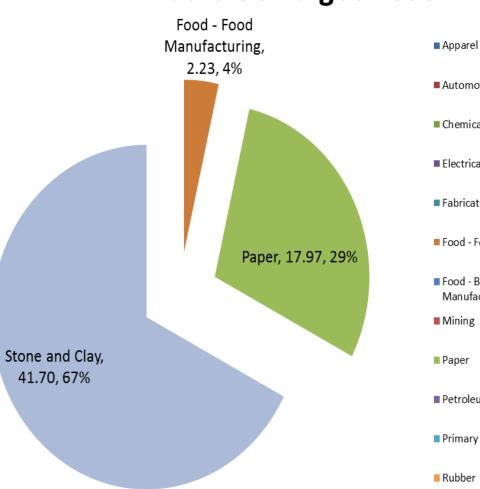




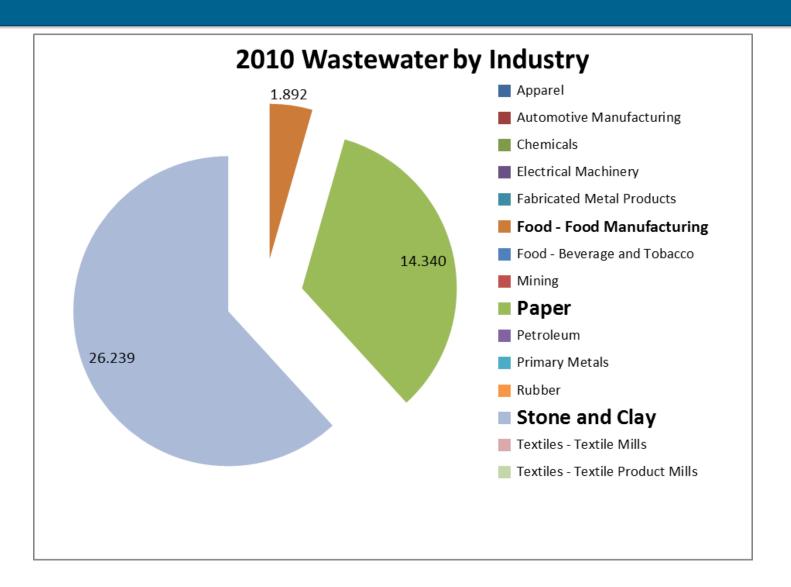
Withdrawals by Industry (MGD): Middle Ocmulgee 2010



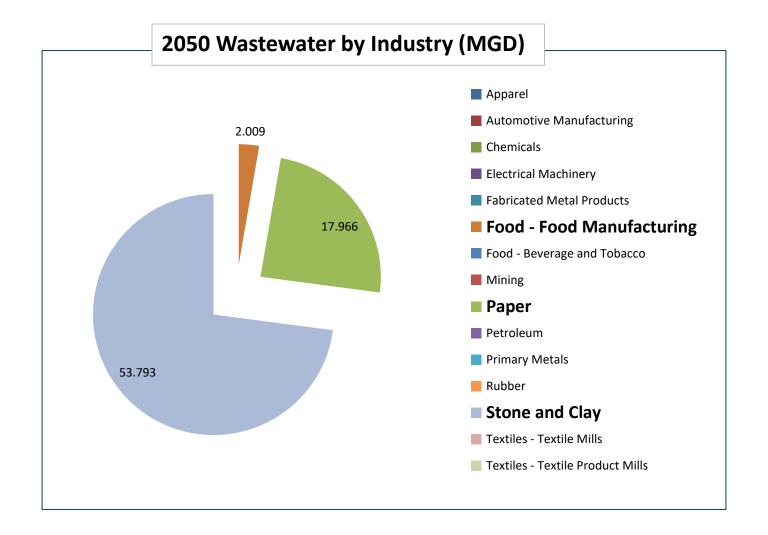
Withdrawals by Industry (MGD Middle Ocmulgee 2050







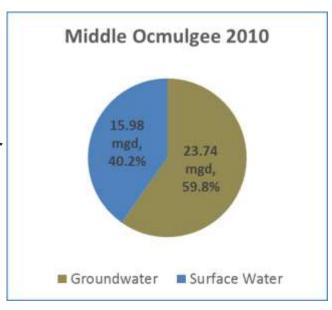


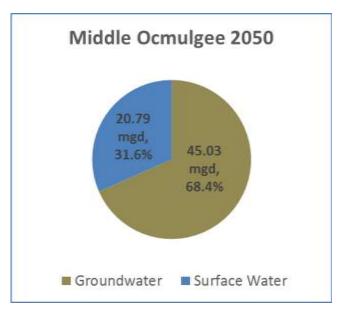




Industrial Water Demand

Round 1 Middle
Ocmulgee
Industrial Water
Demand by
Source





Industrial Water & Wastewater Demand

- Round 1 estimates of industrial water & wastewater forecasts are being maintained through current update
- Round 1 demands over time show modest increases and are reflective of Round 1 approach (Future Water Need by <u>Industry</u> <u>Type</u> = Current Water Need x Employment Growth Rate)
- Methodology may be re-visited in future rounds of water planning updates

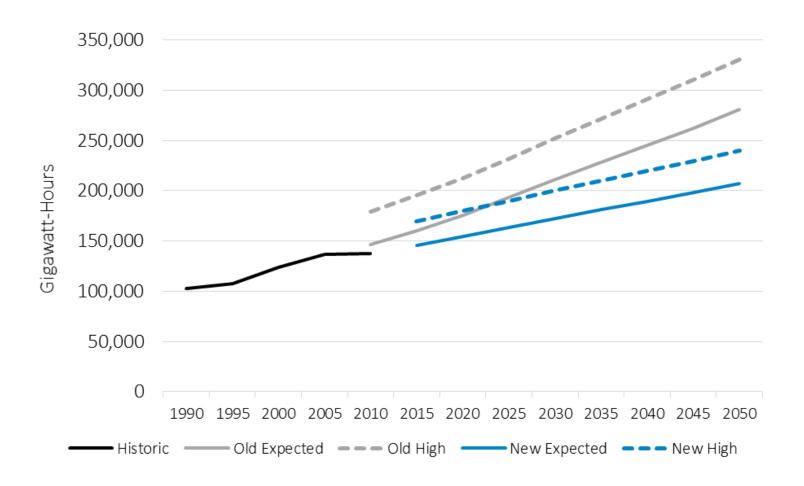




Water Demands for Thermo-Electric Power Generation

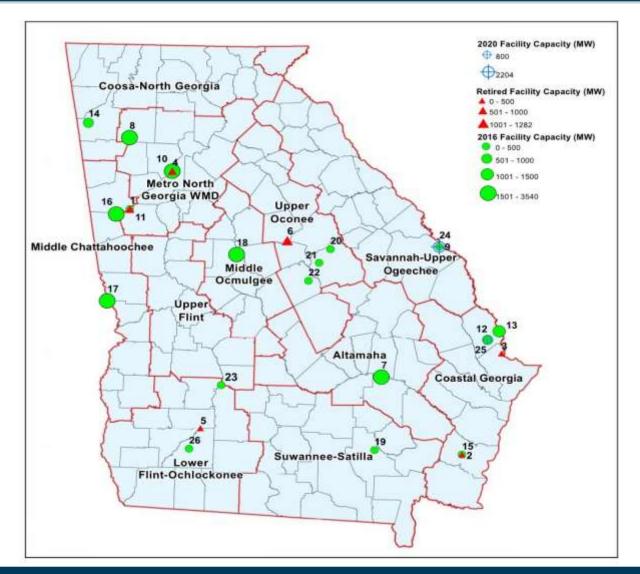
- Energy forecast was under development with input from the Energy Ad Hoc group at the time of Council Meeting 1
- Energy forecast updates have since been completed and results are summarized on following slides

Updated Statewide Power Need in Georgia





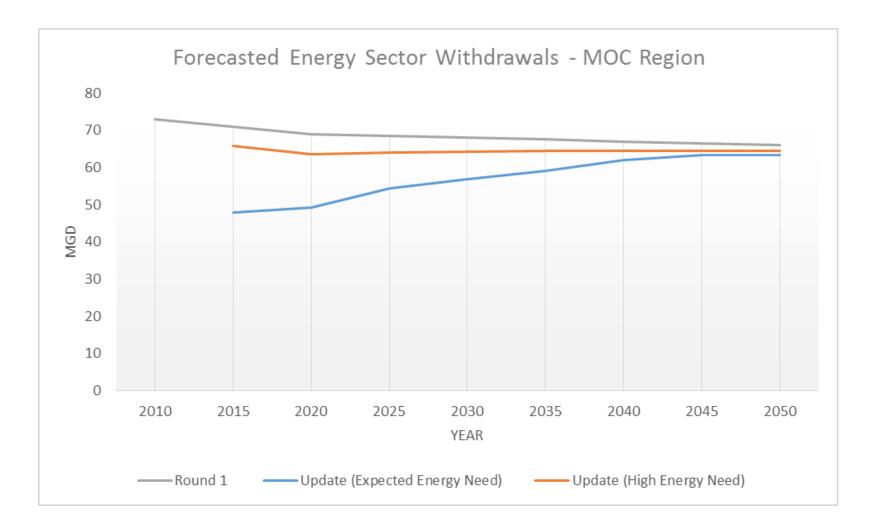
Update - Thermoelectric Power Facilities in Georgia with Water Withdrawal Permits



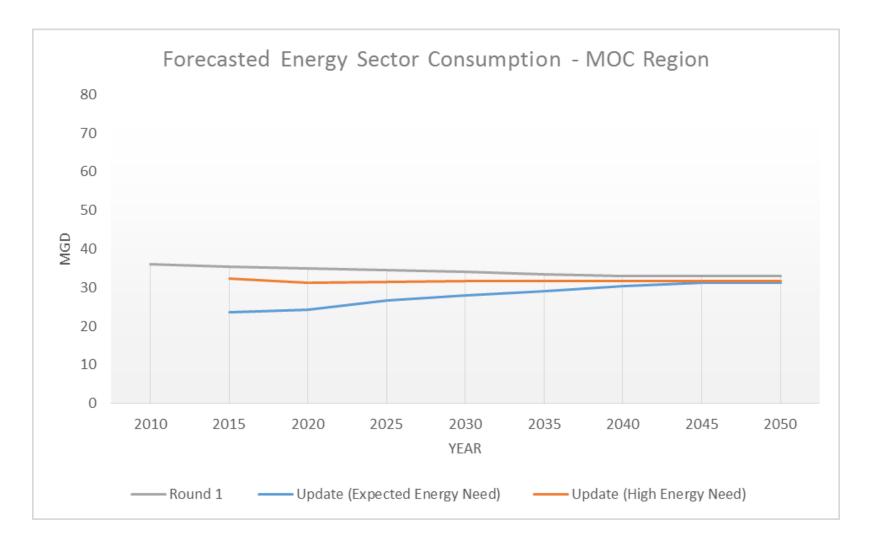
ID	Plant Name
1	Plant Yates
2	Plant McManus
3	Plant Wentworth (Kraft)
4	Plant McDonough
5	Plant Mitchell
6	Plant Harlee Branch
7	Plant Hatch
8	Plant Bowen
9	Plant Vogtle
10	Plant McDonough
11	Plant Yates
12	Effingham County Power Project
13	Plant McIntosh
14	Plant Hammond
15	Plant McManus
16	Plant Wansley
17	Plant Franklin (in AL)
18	Plant Scherer
19	Georgia Biomass
20	AL Sandersville
21	Washington County Power
22	Blue Ridge Energy Development
23	Crisp County Power Comm
24	Plant Vogtle
25	Effingham County Power Project
26	Gum Power Plant



Updated Water Demands for Thermo-Electric Power Generation



Updated Water Demands for Thermo-Electric Power Generation



Follow Up: June 13 Conference Call

- Council members requested more information on how Industrial Forecasts were developed in Round 1 Action: We will send out the Round 1 Industrial Technical Memo
- Council Member Question: Why is Lamar's gpcd so much higher than Butts county?
 Action: Likely primarily due to the differences in amount of selfserve supply vs municipal supply, but we will look into this.
- 3. Council Member Question: Kaolin industry has seen large growth over past 5 years How can we incorporate it into forecasts? *Action:* Industry forecasts for kaolin industry came directly from the industry. They are not being updated for this round, but we will look into how this growth may be reflected.



Section 319(h) Project Update



Next Steps

- Joint Council Meeting:
 - Delegates from MOC may want to attend Coosa, Flint, and Chattahoochee Councils Joint Meeting
 - To be scheduled mid-late August, 2016,
 Pine Mountain, GA, Calloway Gardens
- Looking ahead to Council Meeting 3
- Topics:
 - Review and Refine Management Practices
 - Resource Assessment modeling scenarios
- To be scheduled: September 2016





Thank You!

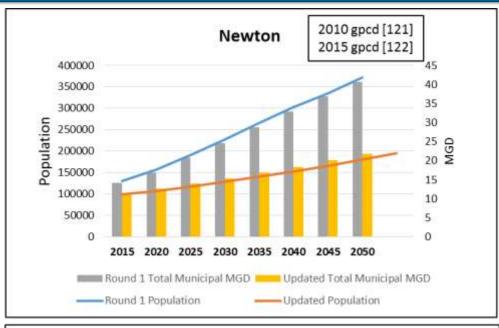
Questions? Comments? Need More Information?

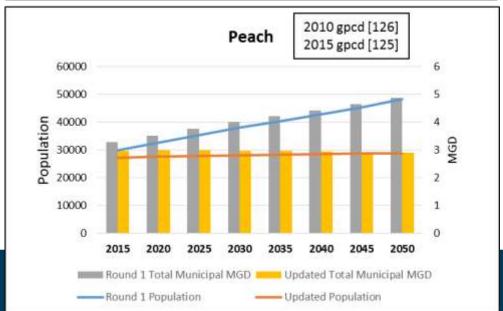
Michelle.Vincent@jacobs.com Ted.Hendrickx@dnr.ga.gov

Council Meeting Evaluation: Please let us know what went well at this meeting, and any suggestions for next meeting.



Municipal water demand forecast by County







Municipal water demand forecast by County

