



Georgia's State Water Plan

Council Meeting
Draft Agenda

Middle Ocmulgee Water Planning Council

Meeting 4 Objectives:

November 16, 2009

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| 1) Complete public involvement plan |
| 2) Continue resource assessment discussions |
| 3) Continue municipal and industrial water demand forecasting |
| 4) Continue management practices training |

8:30–9:00 a.m.	Registration
9:00–9:15	Welcome and Introductions <i>EPD Update (Kevin Farrell)</i> <i>Summary of CM3/Council Evaluation and Comments (Elmo Richardson)</i>
9:15–9:45	Demand Forecast Update <i>Municipal Ad-Hoc Meeting/Current Use Summary (David Ashley)</i> <i>Preliminary Industrial Demand Forecast (Tai-Yi Su)</i> <i>Agricultural Demand Forecast Update (Ben Copeland Jr. or Tony Bass?)</i> <i>Energy Forecast Update (David Ashley)</i>
9:45–10:15	Special Presentation by Georgia Power (<i>Speaker</i>)
10:15–10:30	Break
10:30–11:30	Resource Assessment Presentations <i>Surface Water Availability (Dr. Wei Zeng)</i> <i>Groundwater Availability (Dr. Jim Kennedy)</i>
11:30–12:00	Public Involvement Plan <i>Finalizing Public Involvement Plan / Implementation Strategies (Charlotte Weber)</i>
12:00–1:00	Lunch
1:00–2:00	Management Practices <i>Review CM3/ Regional Examples and Challenges (any speaker from the Council?)</i> <i>Potential Evaluation Criteria/Ranking System (David Ashley)</i>
2:00–2:30	Joint Meeting Planning and Council Sub-committees (<i>Elmo and/or David</i>)
2:30–2:45	Preparation of Draft Plan/Table of Contents (<i>David Ashley</i>)
2:45–3:15	Elected Official and Public Comments (<i>Charlotte Weber</i>)
3:15–3:30	Wrap Up/Council Meeting 3 Evaluation/Next Meeting

The logo features a light blue outline of the state of Georgia on the left. To its right, the text "Georgia's" is in a smaller blue font, and "State Water Plan" is in a larger, bold blue font. A horizontal blue brushstroke underline extends from the text across the page.

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Municipal Water and Wastewater Forecast Council Meeting 4 Pre-Meeting Information Middle Ocmulgee Regional Water Planning Council

As provided in the regional planning guidance, forecasts of future water and wastewater demand are being developed for each water planning region for four major water use categories; municipal, industrial, agricultural, and energy. The sum of the forecasts for each water use category yields the total demand projection for the water planning region. These forecasts are a vital input to the State Water Planning process, because they determine the future demands against which resources will be compared and management practices will be designed to meet.

On September 28th and October 2nd 2009, the Georgia Environmental Protection Division (EPD) held two Ad-Hoc meetings with representatives from the regional councils to review municipal water data that have been gathered to date. The goal of this effort was to collect input from municipal water and wastewater experts to ensure that the preliminary forecasts reflect the best available relevant information and data. This Ad-Hoc Group has been tasked with providing input on region-specific water-use related factors (base year, transient populations, self supplied water users) and wastewater-related factors (return rate, septic tanks).

Meeting summaries from the two Ad Hoc group meetings are attached to this document.

The following representatives from the Middle Ocmulgee Regional Water Council attended the Ad Hoc Group meeting in Perry, Georgia on September 28, 2009:

- Mark Wyzalek, Macon Water Authority
- Marianne Golmitz, City of Warner Robins

The following individuals have agreed to review methodology and post-meeting documents sent out by EPD following the meeting:

- Marcie Seleb, Butts County Water and Sewer Authority
- Hal Newberry, Council member
- Greg Popham, City of Forsyth

Because of the delay in receipt of revised population projections, preliminary municipal water and wastewater forecasts will not be available by Council Meeting 4. Ad Hoc group members representing our Council and water providers in the region will have additional opportunities to provide comments and suggestions. EPD will consider these comments and suggestions in preparing the preliminary forecasts before Council Meeting 5.

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Industrial Water and Wastewater Forecast Council Meeting 4 Pre-Meeting Information

As provided in the regional planning guidance, forecasts of future water and wastewater demand are being developed for each water planning region for four major water use categories: municipal, industrial, agricultural, and energy. The sum of the forecast for each water use category yields the total demand projection for the water planning region. These forecasts are a vital input to the State Water Planning process, because they determine the future demands against which resources will be compared and management practices will be designed to meet.

In June of 2009 representatives of EPD and each of the Planning Contractors convened to plan and coordinate the development of the industrial water and wastewater forecasting methodologies. This Industrial Workgroup will assist our Council in developing a forecast for the largest water using industries in our planning region. Industrial forecasts are based on employment projections that are being prepared by the Carl Vinson Institute of Government.

In addition to the Industrial Workgroup mentioned above, an Industrial Expert group was formed to provide input to the methodology for forecasting industrial water and wastewater for each region. This group met on August 18, 2009 to discuss industrial water use factors and methodologies to be included in the industrial forecasts. This group consists of the following members:

- Amanda Shailendra, Georgia Dept. of Economic Development
- Gary Canter, Vulcan Materials Co.
- Gary Downey, Bekaert Rome
- Gregory Jones, Mohawk Industries, Inc.
- Jay Flesher, Hybrid Corp.
- Jeff Carroll, Perdue Farms, Inc.
- Joel Lipsitch, John Deere Water Technologies
- John Cardosa, Georgia Construction Aggregate Association
- Jonathon Green, Pilgrim's Pride Corp.
- Lee Lemke, Georgia Mining Association & Georgia Industry Association
- Mark Munson, Georgia Industry Association
- Mike Giles, Georgia Poultry Federation
- Mike Pennington, Georgia Economic Development Association
- Richard "Rick" Hamilton, Weyerhaeuser
- Richard "Rick" Ramirez, Shaw Industries, Inc.
- Robert "Chip" Wilson, YKK AP America, Inc.
- Roy Bowen, Georgia Traditional Manufacturers Association
- Virginia "Ginny" Holton, Packaging Corporation of America
- Eddie Whorton, Shaw Industries
- Bryan Morton, Shaw Industries
- Cynthia Dunn, Shaw Industries

The preliminary industrial water and wastewater forecasts will be available by Council Meeting 4.

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Energy Forecast Council Meeting 4 Pre-Meeting Information

As provided in the regional planning guidance, forecasts of future water and wastewater demand are being developed for each water planning region for four major water use categories: municipal, industrial, agricultural, and energy. The sum of the forecast for each water use category yields the total demand projection for the water planning region. These forecasts are a vital input to the State Water Planning process, because they determine the future demands against which resources will be compared and management practices will be designed to meet.

An estimation of water needs for future energy production within the state requires:

1. Projecting the future energy needs of the state;
2. Projecting the sources of future energy needs (e.g., coal, gas, biofuels, nuclear, solar, wind, etc.) within the state;
3. Projecting the water requirements of the various energy sources and facility designs within the state (facility design, such as cooling towers system, affects volume of water used to produce energy); and
4. Determining the placement of future energy producing facilities within the state.

EPD is developing procedures to estimate the future water needs for energy generation within the state. Results of this forecast will be available at Council Meeting 5.



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Vision and Goals Council Meeting 4 Pre-Meeting Update

Throughout 2009, all 10 Regional Water Planning Councils have been working on formulating water resources based visions and goals for their region. It is important to note that our region's vision and goals will play a critical role in the selection and evaluation of management practices. Each Council will compare alternative management practices with their vision and goals to help select those that best meet the region's needs.

As we move into next year we will begin to select the management practices most appropriate for our region. Therefore, it is important that our Council adopt a vision and set of goals by Council Meeting 4. As we begin the process of selecting of management practices, joint meetings will be held to facilitate communication and coordination between Councils that share resources, and potentially gaps. As described in the regional planning guidance, the vision and goals may be revisited and revised, if needed, as we get more information about our region's water resources and resource use.

The Middle Ocmulgee Regional Water Council adopted the following **Vision Statement** at Council Meeting 3 (September 10th, 2009):

The Middle Ocmulgee Regional Water Council will work so that our water resource, both surface and subsurface, is of exceptional quality and quantity for the well being and prosperity of all that will follow. Our plan will consider the resource's natural integrity, wise conservation and prudent management for continuing economic development and enhanced quality of life for all the region's citizens.

The following draft Goals are provided to the Middle Ocmulgee Regional Water Council at Council Meeting 3 for further comments and refinements:

- Create a regional water conservation program with incentives for increased water efficiency that educates water users on the need for conservation.
 - Demand management/conservation/education
- Promote development patterns that limit the threats to the integrity of lakes, rivers, groundwater, and water recharge areas and that protect sensitive areas such as riparian corridors, floodplains, and wetlands.
 - Land conservation
 - Environmental planning
 - Smart growth/ LID
- Develop enhanced monitoring and enforcement to reduce nonpoint source pollution, keeping the Middle Ocmulgee water resources clean and healthy.
 - Monitoring

- Enforcement
- Pollution prevention
- Stormwater programs
- Development regulations
- Illicit discharge and illegal connection programs

- Plan and manage the Middle Ocmulgee's water resources to maintain a healthy economy and preserve a high quality of life for the region.
 - Planning
 - New supplies

- Maximize existing water supply sources to the extent practicable to reduce potential environmental impacts from new sources.
 - Increase supply from existing sources

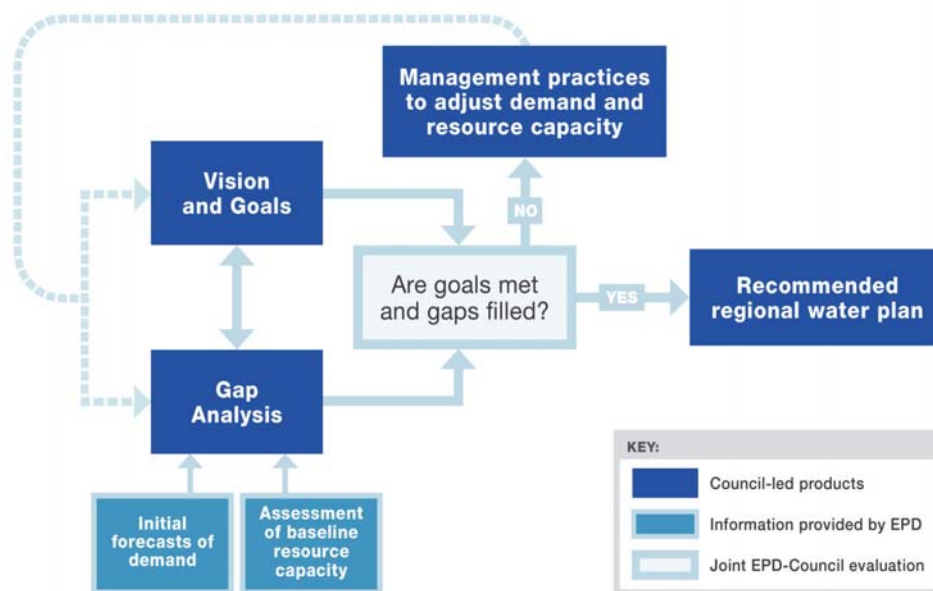
- Promote properly managed wastewater discharges in areas with available assimilative capacity while promoting beneficial reuse.
 - Siting of discharges/quality of discharges
 - Reuse



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Management Practices Council Meeting 4 Pre-Meeting Overview

Early in 2010, all 10 Councils will begin an iterative process to select water management practices to ensure there is sufficient water and assimilative capacity available to meet future needs. Water management practices include any activity that helps meet the regional vision and goals, or adjusts the baseline resource assessment or the forecasted water or wastewater demand. As shown in the figure below, the regional water planning councils will select water management practices that meet the regional goals and address any identified gaps between resource capacities and forecasted demands. Our Council is responsible for selecting water management practices and coordinating the selection process with neighboring water planning councils and local governments.



Management practices will be evaluated in the context of our region's vision and goals to ensure that future water resource management adequately addresses our Council's priorities. Our Council will consider water management practices that decrease forecasted demand for a water resource or practices that increase the capacity of a water resource.

Some examples of water supply management practices that we could choose to fill our gaps between forecasted demand and the capacity of a surface or groundwater source are:

- Conservation
- Storage reservoirs
- Desalination
- Interconnection of supply systems
- Additional groundwater development
- Reuse
- Return flow management
- Intrabasin transfers
- Interbasin transfers
- Aquifer storage and recovery

Some examples of water quality management practices that we could choose to fill our gaps between wastewater demand and the assimilative capacity of surface waters are:

- Advanced wastewater treatment technologies
- Watershed protection and monitoring
- Undisturbed vegetated river corridor buffers
- Manage impervious surfaces and green infrastructure planning
- Septic tank maintenance
- Erosion and sedimentation control

In Council Meeting 4 we will begin discussing region-specific management practices and how they can be used to fill gaps between available resources and forecasted demands.



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Joint Meeting Tentative Schedules and Locations Council Meeting 4 Pre-Meeting Update

Resource Assessments will be developed based on aquifer and watershed boundaries. An important next step in the Water Planning process is to begin coordinating with Regional Councils that share resources. A preliminary outline of the planned joint meetings and the Councils that share each resource is provided below with tentative dates and locations. If you have suggestions or input into the Joint Meeting Groupings please forward them to your Planning Contractor.

Coosa, Tallapoosa & Tennessee River Basins Valley and Ridge, Blue Ridge, Piedmont Aquifers Monday, January 25, 2010 Location: Carrollton or Dawson	Chattahoochee River Basin Piedmont Aquifer Monday, February 1, 2010 Location: Columbus or Callaway Gardens
<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Coosa-North Georgia WPC • MNGWPD • Savannah-Upper Ogeechee WPC • Middle Chattahoochee WPC 	<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Coosa-North Georgia WPC • Middle Chattahoochee WPC • MNGWPD • Upper Flint WPC
Altamaha, Ocmulgee & Oconee River Basins Eastern Coastal Plain Cretaceous, Piedmont Aquifers Friday, January 22, 2010 Location: Macon	Flint & Ochlockonee River Basins Dougherty Plain, Claiborne Aquifers Friday, January 15, 2010 Location: Americus
<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Altamaha WPC • Coastal Georgia WPC • Middle Ocmulgee WPC • MNGWPD • Suwanee-Satilla WPC • Upper Flint WPC • Upper Oconee WPC • Counties of Savannah-Upper Ogeechee and Coastal WPC in the Cretaceous Aquifer 	<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Lower Flint-Ochlockonee WPC • Middle Chattahoochee WPC • Middle Ocmulgee WPC • MNGWPD • Upper Flint WPC
Satilla, Suwanee & St. Mary's River Basins Tift County Upper Floridan Aquifer Thursday, January 28, 2010 Location: Waycross	Savannah & Ogeechee River Basins Brunswick Harbor Aquifer Model, Savannah CSSI Model, Eastern Coastal Plain Upper Floridan Aquifer Tuesday, January 19, 2010 Location: Augusta
<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Altamaha WPC • Lower Flint-Ochlockonee WPC • Coastal Georgia • Suwanee-Satilla WPC • Southern Counties of the Upper Flint WPC in the Tift Co Floridan Aquifer 	<i>Councils that share these resources:</i> <ul style="list-style-type: none"> • Altamaha WPC • Coastal Georgia WPC • Savannah-Upper Ogeechee WPC • Upper Oconee WPC • Eastern Counties of Suwanee Satilla WPC in the Eastern Coastal Plain Upper Floridan

Public Involvement Plan

The Middle Ocmulgee water planning council will adopt a Public Involvement Plan based on the following outline. The Public Involvement Plan follows the outline provided by EPD for all regional water planning councils. It also provides for additional elements that may be adopted at the discretion of individual water planning councils.

The regional water planning councils, assisted by their regional planning contractor, will follow the adopted Public Involvement Plan to provide opportunities for meaningful input from key stakeholders, the members of local government advisory body, and the general public.

In the implementation of the Public Involvement Plan, the Chair of the Middle Ocmulgee water planning council will use discretion in permitting additional public comment or adjusting to adapt to specific meeting timelines and constraints, so long as the intent and expectations described below are followed.

Guiding principles

The Middle Ocmulgee regional water planning council recognizes the benefit and importance of providing opportunities for diverse input throughout the regional water planning process. The principles of the public input process are:

- Providing public outreach and involvement that is proactive and as wide reaching to all facets of the population as possible;
- Stakeholders and regional water planning council members will treat each other with respect and dignity;
- All participants will have an open mind and participate openly and honestly;
- The regional water planning process will continue with concurrent public comment throughout;
- EPD will provide public notice and take public comment on draft regional water plans after they are submitted;
- Stakeholder comments will be pertinent to the topic of the meeting at which they are expressed; and
- Input from the public, key stakeholders, and the members of the Local Government Advisory Body, and Non-Governmental Organizations will be considered and incorporated in regional water planning council work products.

Public Involvement Plan Outline

Key stakeholders

The key stakeholders for the Middle Ocmulgee water planning region are identified below. All members of the public will have opportunities for input, even if not specifically identified in this section.

- Local government officials – includes one representative from each city and county within the water planning region
- Non-government Organizations
 - State Parks/Historic Sites
 - Georgia DNR – Wildlife/Recreation Division - Fisheries
 - Georgia Farm Bureau
 - Georgia Soil and Water Conservation Commission
 - County Extension Offices
 - Keep Georgia Beautiful
 - Georgia Adopt a Stream
 - Georgia Rivers Alive
- Neighboring regional water planning councils – water planning councils that share borders and/or water resources;
- Department of Community Affairs;
- Regional Commissions – agencies supporting local and regional comprehensive planning
 - Three Rivers Regional Commission
 - Middle Georgia Regional Commission
 - Northeast Georgia Regional Commission
- County and City Department chiefs/directors
- Water utilities
- Agriculture – includes water permit holders for agricultural applications
- Businesses – includes local businesses (this audience may be sub-divided into more specific categories)

Public Involvement Plan Outline

- Industries – includes industrial water permit holders and municipally-supplied industrial facilities
- Forestry – includes owners of managed forest lands and the forest products industry
- Institutions/educational/schools – includes public and private schools as well as institutions
- Tourism – includes public and private organizations related to local travel and tourism
- Recreation – includes citizens and industry related to recreational water uses
- Environment – includes citizens, agencies, and groups focused on environmental protection
- Developers
- Design Professionals
- Land owners with property adjacent to or encompassing major streams, tributaries, or other water sources.
- Businesses or clubs with specific focus on water recreation or fishing
- Public – any citizen interested in the regional water planning process

Public Involvement Plan Outline

Procedural criteria

Time will be provided at every Middle Ocmulgee water planning council meeting for input from stakeholders and the public. The procedural criteria are intended to ensure the public respects the regional water planning council's schedule constraints and the regional water planning council respects the public's opportunity to present relevant and different opinions. To facilitate a fair and efficient process, the Middle Ocmulgee water planning council has adopted the following procedures for public comment.

- All regional water planning council meetings will be open meetings
- Stakeholders will be provided an opportunity to provide comments pertinent to the topic of the meeting in which they are expressed
- Time (3 minutes per speaker) will be provided at the end of all Middle Ocmulgee regional water planning council meetings
- Provisions for written comments will be made at all regional water planning council meetings

The Chair of the regional water planning councils will use discretion to manage public comment under different circumstances in ways that enable the council to progress with its work and respect those who want to comment

Meeting announcements

All regional water planning council meetings will be open meetings, including at least a 24-hour notice of any meetings. The following provisions will be made for all planning council meetings to inform the public of upcoming meetings.

- Posted on the Middle Ocmulgee regional water planning council website <http://www.middleocmulgee.org/> with a meeting agenda or summary of topics to be covered, meeting time, and meeting address
- Posted at the meeting location with a meeting agenda or summary of topics to be covered, meeting time, and meeting address
- Meeting summaries will be posted on the Middle Ocmulgee regional water planning council website
- Press releases with a summary of the major topics and results will be sent to the media after each council meeting.

Additional Outreach Opportunities

The Middle Ocmulgee Water Council promotes a proactive public involvement and outreach program. The following are recommended additional outreach techniques.

Public Involvement Plan Outline

- Providing a means for the public to comment directly through the Middle Ocmulgee Regional Water Planning Council website <http://www.middleocmulgee.org/>;
- Create Public Service Announcements for local media both prior and after council meetings and milestones;
- Develop a blog for interactive discussions with the public for the Middle Ocmulgee Regional Water Planning Council Region;
- Create a social media site through facebook.com or other site to expand presence and to engage the public;
- Develop “Middle Ocmulgee Water Presentation Kits” including brief PowerPoint presentations and/or materials for Council Members and Partnering Agency members to present to smaller groups such as civic organizations, government departments, public gatherings, etc.;

Water planning council members, you may add to this list as deemed necessary. Other provisions:

Stakeholder and public comment opportunities

Specific opportunities during the regional water planning process for stakeholder and public input include but are not limited to the following.

- Meetings of the Middle Ocmulgee regional water planning council
- Middle Ocmulgee regional water planning council website (documents will be posted periodically with timeframes for comment and mechanisms for comment clearly stated)
- Letters may be mailed to EPD
- Emails to the regional water planning council and/or EPD
- EPD public notice period for the resource assessments
- EPD public notice period on the draft regional water plans

Local governments

Much of the implementation of the regional water plans is the responsibility of local governments; therefore, input will be sought from members of the local governments on the following specific topics.

- Regional population, economic and employment forecasts

DRAFT

Georgia State-wide Water Management Plan

August 2009

5

Public Involvement Plan Outline

- Fiscal implications of water management practices
- Draft regional water plan

The regional water planning council and members of local governments should identify proper communication pathways. The following actions are intended to coordinate activities of the local governments with the regional water planning councils.

- Members of local governments will be provided an opportunity at the end of the regional water planning council meetings to comment on the regional water planning process and items on the meeting agenda
- Members of local governments may provide written comments to the regional water planning council, as needed.

Non-government Organizations/Partnering Agencies

Although much of the implementation of the regional water plans is the responsibility of local governments; Partnering Agencies and other Non-government Organizations (NGOs) will be key in disseminating information and gathering input.

The Middle Ocmulgee Regional water planning council and members of NGOs and Partnering Agencies should identify proper communication pathways. The following actions are intended to coordinate activities of the NGOs and Partnering Agencies with the Middle Ocmulgee Water Planning Council.

- Members of NGOs and Partnering Agencies will be provided an opportunity at the end of the regional water planning council meetings to comment on the regional water planning process and items on the meeting agenda
- Members of NGOs and Partnering Agencies may provide written comments to the regional water planning council, as needed.
- Members of NGOs and Partnering Agencies may provide the link to the Middle Ocmulgee Water Planning Council website on their websites.

Water planning council members, you may add to this list as deemed necessary. Other provisions:

Other regional water planning councils

In order to plan and coordinate the use and protection of shared water resources, the regional water planning council will coordinate with adjacent and hydrologically-connected councils throughout the regional water planning process. EPD will convene some meetings to discuss shared water resources, such as on the current resource assessments. The regional water planning councils will use the following communication pathways to coordinate with adjacent regional water planning councils.

Public Involvement Plan Outline

- Members of the regional water planning council will attend shared resource meetings and other joint meetings
- At the discretion of the Chair, an opportunity may be provided at regional water planning council meetings for announcements or progress reports from adjacent regional water planning councils

The Chair of the regional water planning councils may use their discretion to provide additional coordination with adjacent regional water planning councils, as deemed appropriate.

Review and consideration of public input

The objective of this process is to gather relevant and diverse input to improve the quality of the recommended regional water plans. Once public comments are received from the public and key stakeholders the regional water planning council with the assistance of the regional planning contractor will consider and address these comments. Written comments and web comments will be summarized and provided to the regional water planning council members. Verbal comments will be summarized and included in meeting summaries.