



MIG 2 Water Quality and Quantity

December 3, 2009

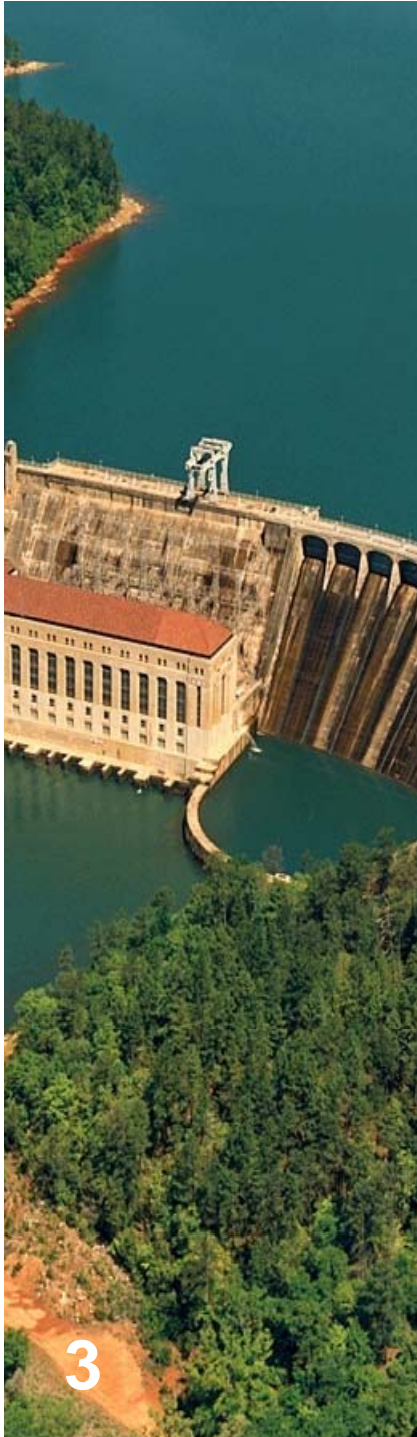




Study Plan 8: Baseline Water Quality

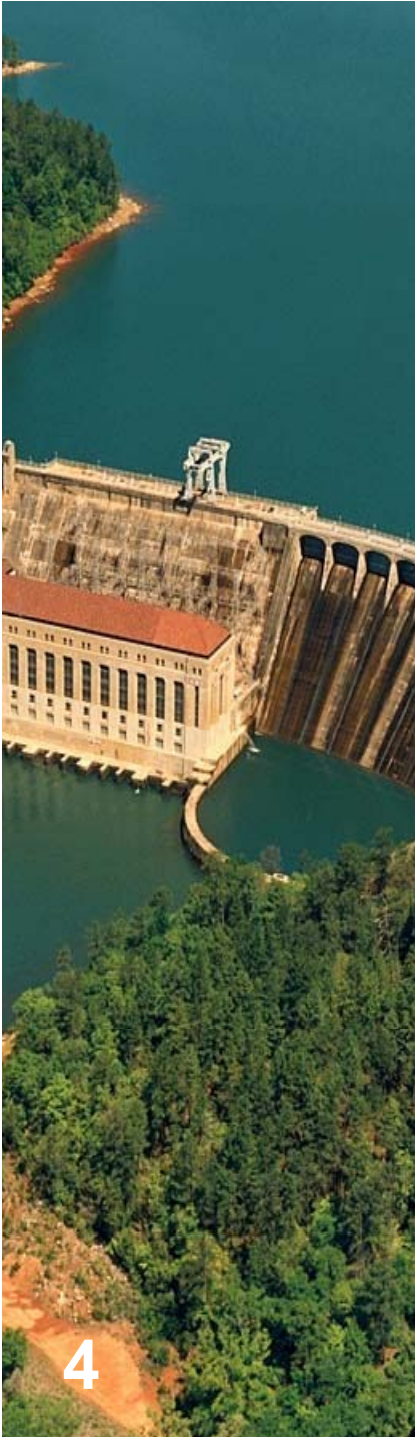
December 3, 2009





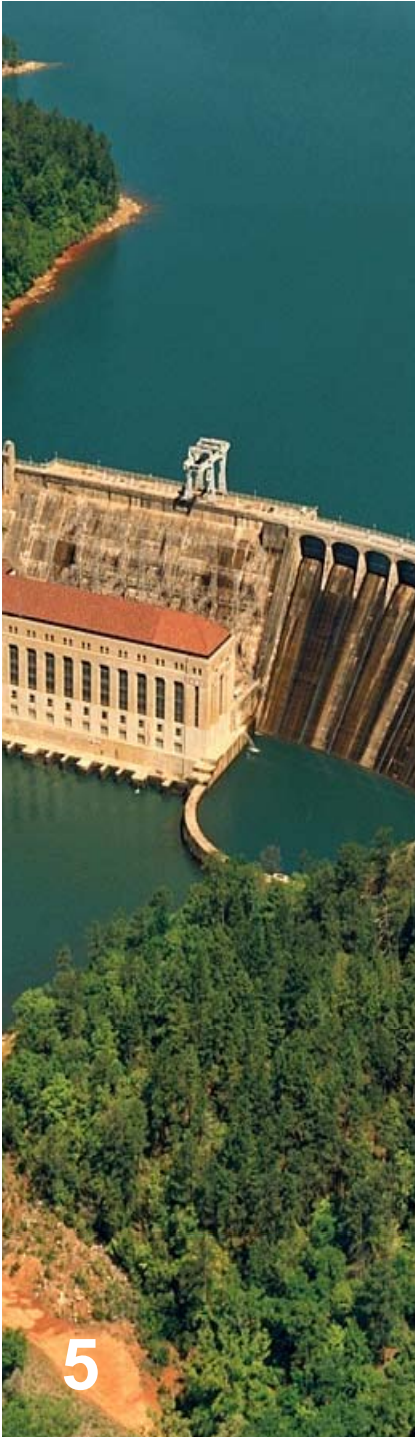
Study Goals

- Describe the baseline water quality of Lake Martin
- Describe the baseline water quality of the Lake Martin tailrace



Completed To Date

- Alabama Power has compiled historic and current water quality information available for Lake Martin and the tailrace area.
- Additional sampling of nutrients and basic water quality parameters were collected at 16 sites monthly from April through October of 2009.



Proposed Modifications

- Collection of additional nutrient data at 8 sites during November 2009 through March 2010.
- Draft report in June 2010.
- Final report in November 2010.

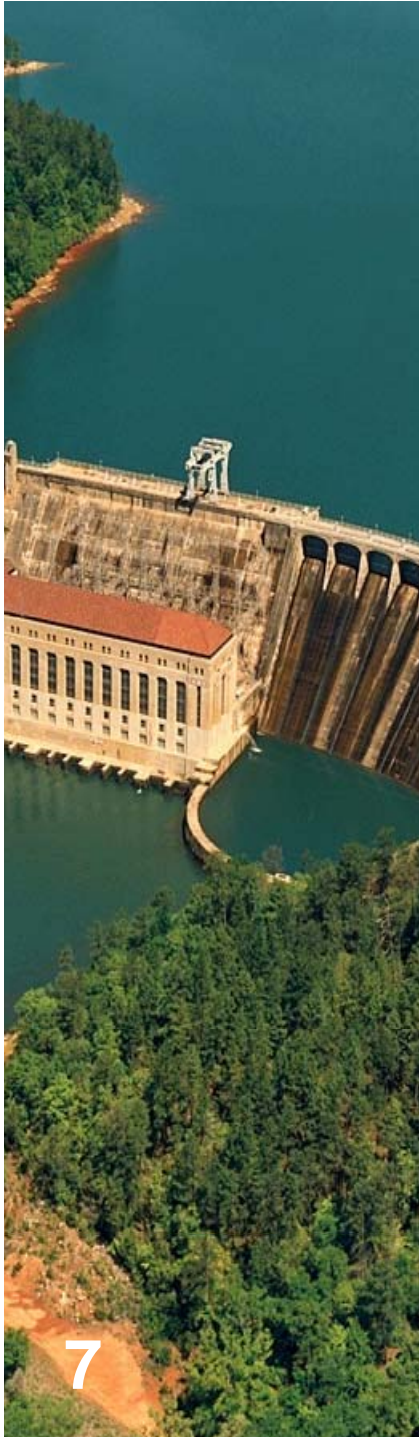


Study Plan 9:

Location of Regulated Discharges on Lake Martin

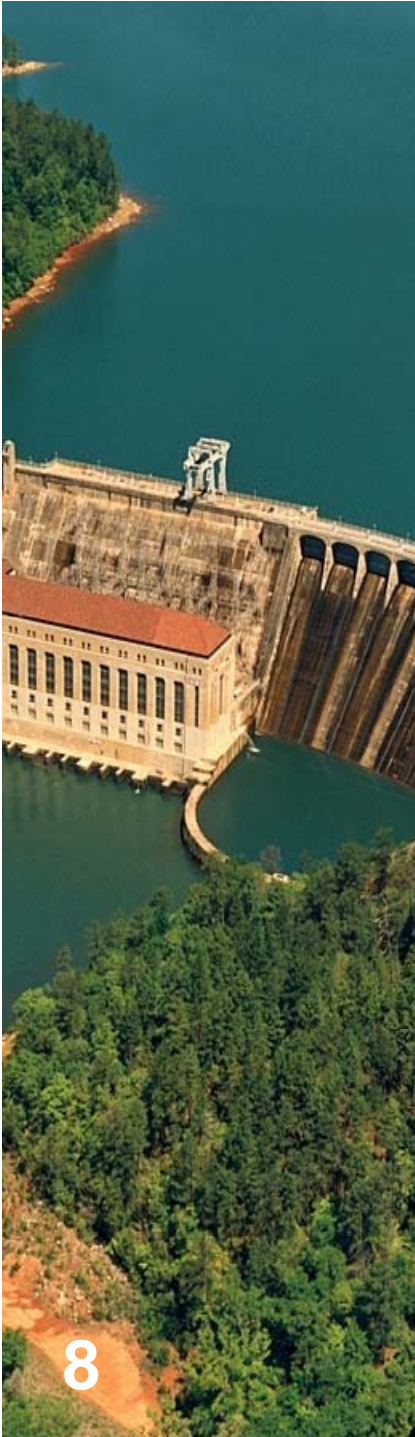
December 3, 2009





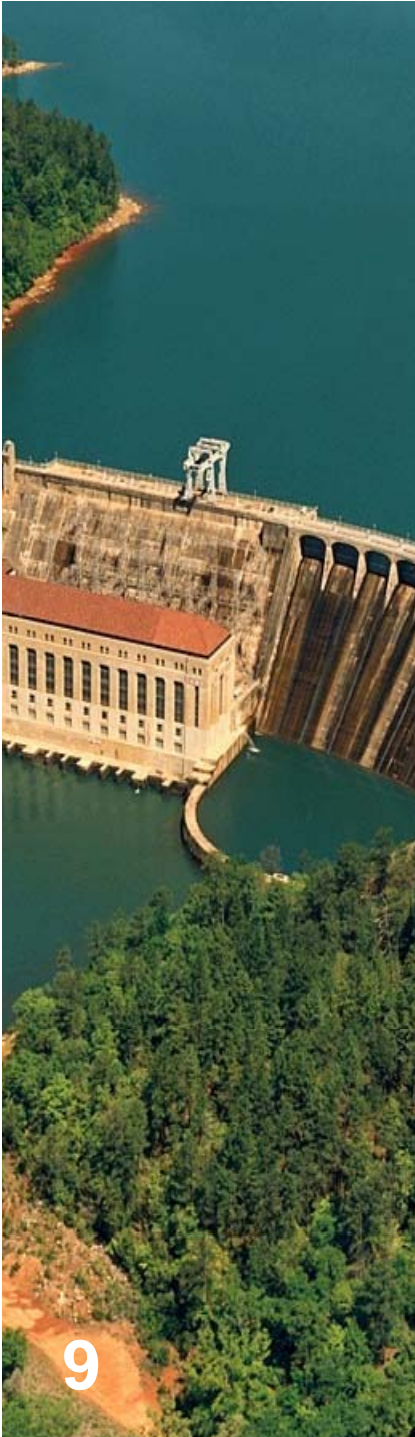
Study Goal

- Develop a list of permitted discharges on Lake Martin and identify their location.



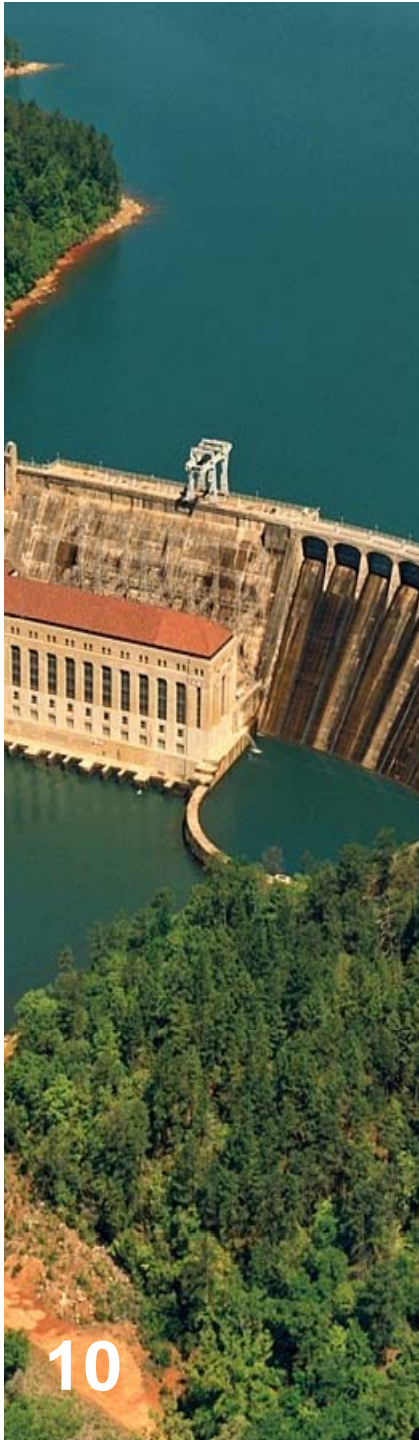
Completed To Date

- Existing information (updated through May 2009) on regulated discharges and Section 319 non-point source pollutants for Lake Martin was collected for this study (through the use of secondary data).



Information Collected to Date

- ADEM's NPDES permitting guidelines
- Current NPDES permits
- Map & GIS overlay of current NPDES permits
- New & repaired OSS permits in Coosa, Elmore and Tallapoosa Counties
- CWP's Tallapoosa River Basin Man. Plan
- ADEM's Alabama NPS Management Program 2008 annual report



Proposed Modifications

No proposed modifications to this study

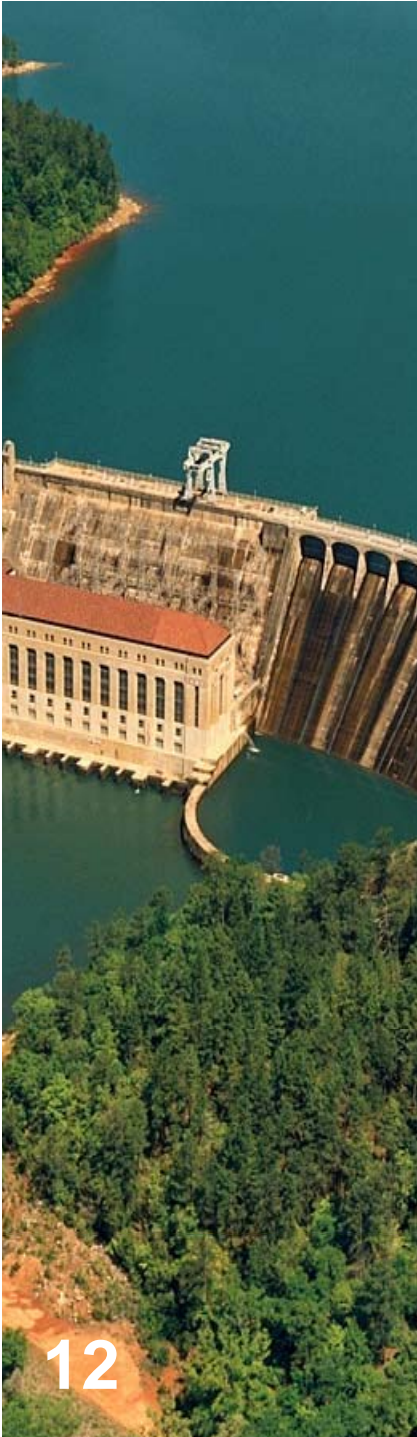


Study Plan 10:

Erosion & Sedimentation

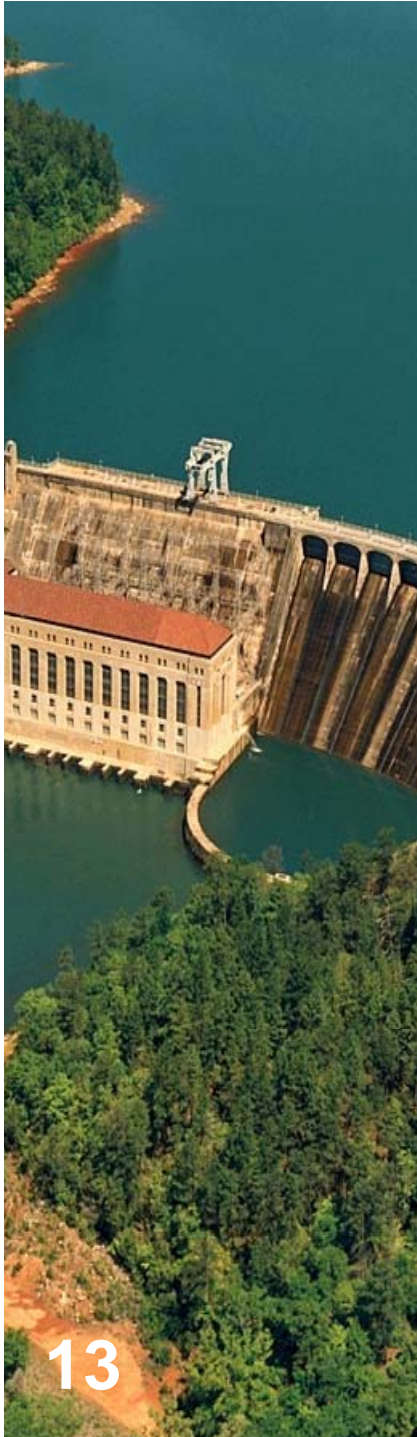
December 3, 2009





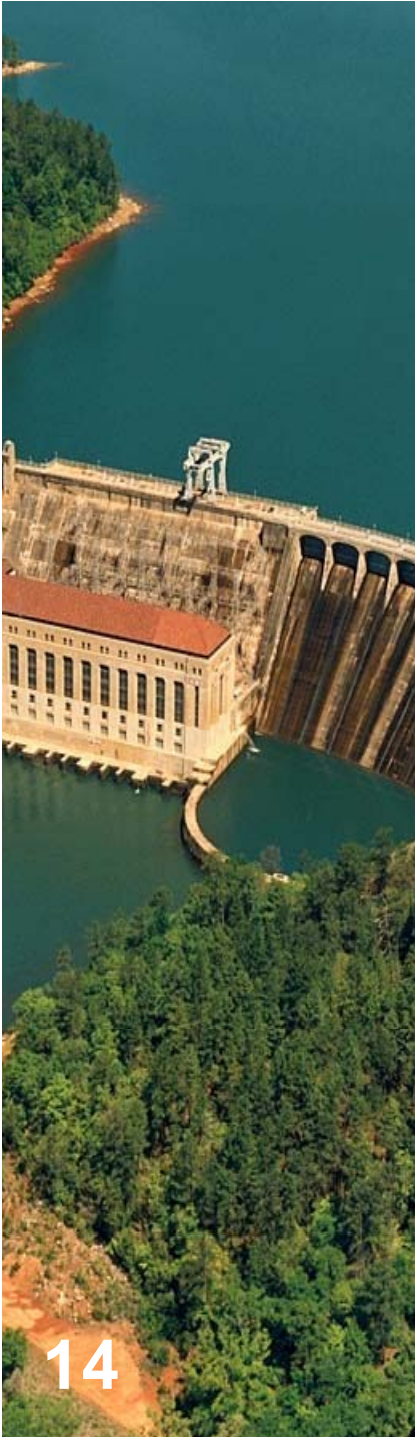
Study Goal

- Examine identified erosion / sedimentation sites on Lake Martin to describe baseline conditions.



Completed To Date

- List of erosion sites on Lake Martin
 - identified by landowners, surveillance contractors, Alabama Power, and other stakeholders
- Areas of sedimentation on Lake Martin
- Schedule for examination – delayed by high lake levels



Proposed Modifications

- Alabama Power expects to complete sampling in January 2010 if water levels recede to historic winter levels.
- Modify the schedule
 - distribute a draft report in June 2010
 - final report in November 2010



Study Plan 11:

Water Quantity, Water Use, and Water Withdrawals

December 3, 2009

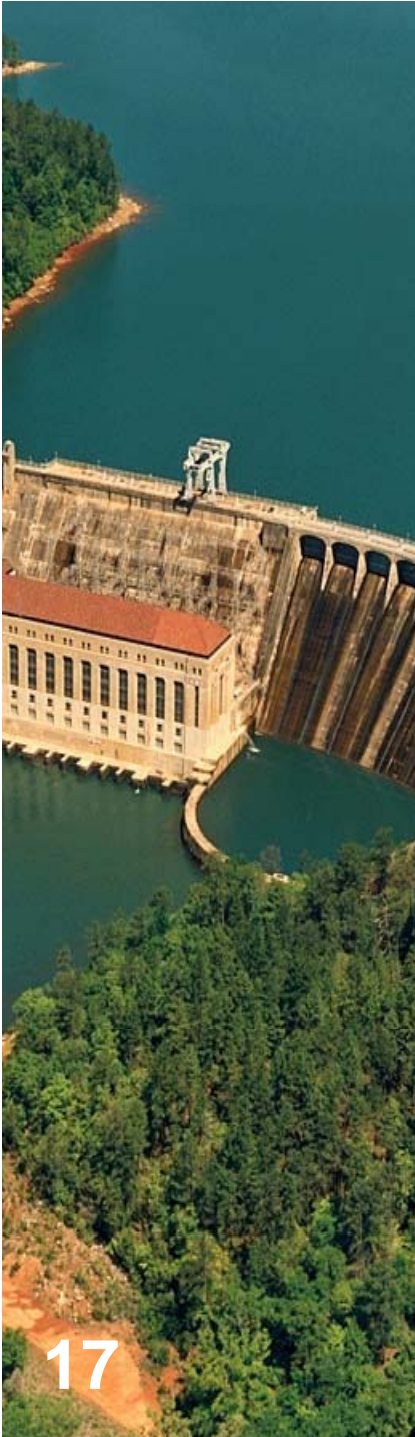




Study Goal

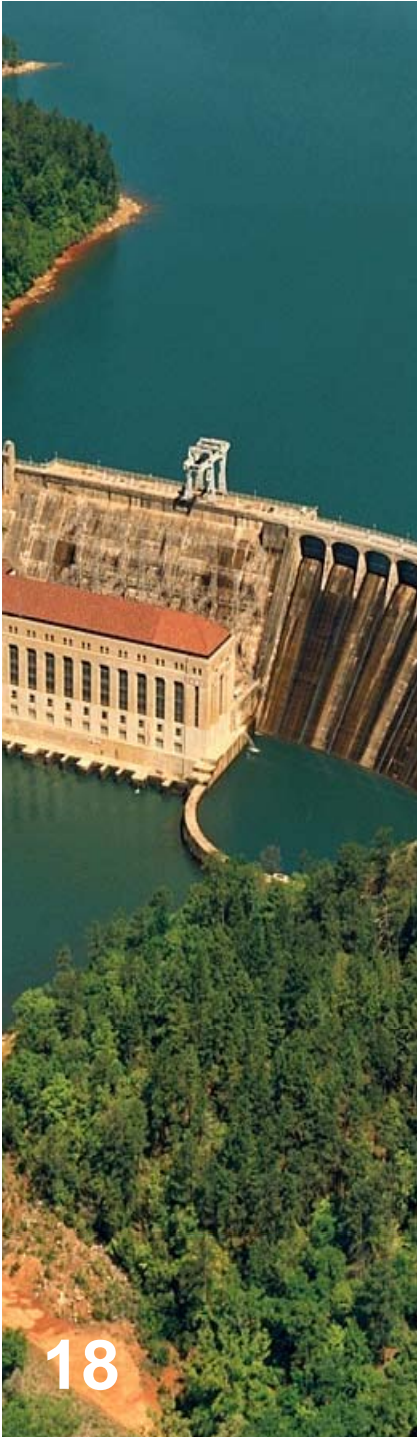
To produce a white paper that will provide a basic understanding of facts associated with:

- Alabama Power's water withdrawal policy
 - Including current known water withdrawals from the Martin Project
- Ecological and Navigational flow requirements in the Tallapoosa River basin
- Drought considerations at the Martin Project



Completed To Date

- Alabama Power has obtained all the necessary information to complete the white paper.



Proposed Modifications

No proposed modifications to this study