INTRODUCTION

Emory River Watershed - The Emory River Watershed (HUC 06010208), which encompasses 872 mi², drains to the Fort Loudoun Reservoir of the Tennessee River. The river flows primarily through Cumberland, and Morgan Counties (Table 1). Its designated uses are fish and aquatic life, primary contact recreation swimming, livestock watering and wildlife (TDEC 2004). Parts of the Emory River are also designated for domestic and industrial water supply. Sediment delivery potential has caused a high degree of concern by state and federal regulatory agencies.

Table 1 Percentage of Emory River Watershed included in County boundaries (TDEC 2001).

<table>
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In the 1960s and through 1980, the U.S. Fish and Wildlife Service (USFWS) and other federal and state agencies surveyed fish and mussel populations at various locations throughout the Emory River Watershed (ERW). Within the watershed, several streams support federally listed endangered
and threatened species, including the spotfin chub (Cyrinella monacha), and the purple bean mussel (Villosa perpurpurea). In addition, the turgid blossom (Epioblasma turgidula), Alabama lamp mussel (Lampsilis virescens) and fine-rayed pigtoe (Fusconaia cuneolus) have not been reported in the streams since 1923. Associated critical habitat areas for the spotfin chub in the Emory River watershed are

- Emory and Obed Rivers and Clear and Daddy’s Creeks in Morgan County;
- Clear Creek in Fentress County; and
- Obed River upstream to U.S. Interstate 40, Clear Creek upstream to U.S. Interstate 40, and Daddy’s Creek upstream to U.S. Highway 127 in Cumberland County.

In addition, the USFWS is currently assessing if the Obed River, with its population of purple bean mussels, should be designated as a critical habitat. The United States Fish and Wildlife Service (USFWS), Tennessee Wildlife Resources Agency (TWRA), TDEC and the Tennessee Valley Authority are co-sponsoring a project through Tennessee Technological University (TTU) to determine the diversity and habitat condition of fish, mussels and macroinvertebrates within the Emory River Watershed and assess the impact of land use changes on habitat.

During the past 30 years, Cumberland County’s population and industries have grown significantly, causing alterations in the land use, and economic activities, in its watersheds. Several streams are listed as impaired by the Tennessee Department of Environment and Conservation (TDEC) as shown in Figure 1 and listed on the 2002, 305b list for HUC TN06010208. Land-use changes can impact habitat and water quality of the adjacent streams. With the varied land and water uses within the subwatersheds, the municipalities cannot achieve the state mandated TMDLs unilaterally but must work with all stakeholders to improve the stream’s water quality.

**Comprehensive Resource Management: Definition and Conceptual Approach** - Given the range and complexity of processes involved in land and water resource management, varied human interventions, and the resource interests at stake, the need for comprehensive, analytically based management of these resources is clear. Such an approach needs to consider physical (abiotic) and ecological (biotic) interactions within the watershed, the effects of human interventions, and competing resource interests. Comprehensive management of land and water resources would preserve and enhance the natural processes and ecosystem functions within the watershed, and allow integration and balancing of conflicting resource use.

Comprehensive management provides a framework for analyzing and assimilating an array of information including the following processes:

- Water balance (precipitation, surface runoff, infiltration, groundwater recharge, etc.),
- Water movement (surface and groundwater flow velocities, discharge, and depths),
- Morphology (sediment erosion, transport, and deposition),
- Fate and transport of water quality components (organic matter, nitrogen species, phosphorous, pesticides, herbicides, etc.), and
- Eutrophication dynamics.

Comprehensive management, which also assesses impacts of human activities, compares and evaluates these processes under existing conditions and conditions when various management strategy scenarios are adopted. In this way, benefits, costs, advantages, and disadvantages of watershed best management practices (e.g., detention basins, etc.) can be compared and assessed. In effect, comprehensive management balances the benefits and costs of the various management strategies among all resource stakeholders.
Comprehensive management is not just an ideal; it is an emerging reality. Several communities around the country have found ways to bring stakeholders together as participants in watershed coalitions, to use information about water quality degradation sources, and to collectively manage their resource problems. The project will develop a watershed management system that is supported by analytical tools, which will be available to all stakeholders, to sustain the utilization and protection of a watershed’s water resources.

A comprehensive watershed management approach is needed for local decision makers to assess the adverse impacts of land use on water quality and supply. This approach will allow more accurate assessment of the impacts of land use actions on downstream communities and others who rely on water resources. The following proposed project will produce a framework, through meaningful stakeholder involvement, for developing and implementing a watershed management system to serve as a model for the management and protection of water resources in watersheds nationwide. This comprehensive approach will permit responsive tailoring of management policies to adverse impacts and dynamics in a particular area.

Tennessee’s Watershed Initiative - The Tennessee Department of Environment and Conservation (TDEC) is developing plans and permits on a watershed basis. All permit holders (wastewater treatment plants and industries) in the Emory watershed will receive their permits at the end of a five-year planning cycle. These permits will be based on the water quality conditions in the entire watershed. As a result, a discussion bringing together all of the stakeholders in the watershed for education and discussion is beneficial. Stakeholder meetings will bring together interested participants about present conditions in the watershed and provide
  • a forum for education about and discussion of the current problems, as well as
  • a mechanism for reaching a consensus on approaches to insure a bright future for the Emory River watershed.

On October 28, 2005 University of the South, University of Tennessee (UTK) and Tennessee Technological University (TTU), co-hosted a conference on Envisioning the Future of the Cumberland Plateau at Cumberland Mountain State Park (Figure A.1). State and local agencies discussed with other watershed stakeholders issues that were important to the future sustainable development on the Cumberland Plateau area of Tennessee. Local community leaders indicate water supply and water quality management while nurturing the economic vitality of our watershed was a major issue (Crockett and Wilkerson 2006).

The universities hope to use the Emory River Stakeholder project as a model for other watersheds within the state. If communities choose to move forward with ways to improve the water quality in each of their watersheds, this will have a positive effect on the state of water quality in other rivers as well – ultimately benefiting each community as well as our whole state.

Community Benefits - Cleaner water improves the quality of life for all of us. In addition, success in a community-based planning process can strengthen the ties between businesses, educators, citizens and local governments, allowing communities to meet other challenges as our cities and towns grow.

PROJECT GOAL
The proposed project will produce a meaningful stakeholder involvement framework for developing and implementing an Emory River Watershed Management System for continued water resources improvement.

**PROJECT OBJECTIVE**

The proposed project produced a meaningful stakeholder involvement framework for developing and implementing an Emory River Watershed Management System for continued water resources improvement. The project objectives were to

- Determine stakeholders within the watershed and conduct stakeholder meetings;
- Facilitate information sharing among watershed stakeholders; and
- Develop a process for establishing a watershed management system;

**RESULTS**

**Focus Group Meetings** – Based on a preliminary list of stakeholders (Figure B.1) within the Emory River watershed, sub-lists of individuals who would possibly participate in focus groups for Cumberland County and Morgan County were compiled. On May 16, 2006, two focus group meetings were held in the Emory River Watershed: one in Crossville, TN, in Cumberland County and the other in Wartburg, TN, in Morgan County (Figure A.2). Ms. Cissy Mynatt and Ms. Margo Farnsworth of the Cumberland River Compact co-facilitated the meetings. Attendees at each meeting are presented in Tables B.2 and B.3. The outcomes of the focus group meetings are presented in Appendix C. A major change facing the Emory River watershed is population growth. Other changes in the watershed were

- Population/Growth,
- Mining increase (coal, gas, oil),
- Reduced farming,
- Climate change/seasons changing,
- Mining decrease/less contamination,
- Increased environmental awareness among citizens,
- Land being divided into smaller plots and
- Logging increasing.

The focus groups noted that these changes had had the following impacts on water:

- Public is completely unaware of supply problem,
- Water shortage (moving eastward),
- Need to go to impoundments (Center Hill, Watts Bar, Chickamauga),
- Geology bad for handling sewers and septic tanks,
- Concerned of renewed interest in Sewanee Coal seam/acid mine drainage,
- Need increased number of programs on economics surrounding water/bank loss and
- Concern about getting water from Watts Bar.

Attendees to the focus group meeting agreed that a continued discussion of the issues raised at these meetings was valuable and should be continued. Based on this input a Emory River Watershed Stakeholder meeting was held at the Fairfield Glade Community Club on June 13, 2006.
Emory River Watershed Stakeholder Meeting – The agenda for the Emory River Watershed Stakeholder meeting is presented in Figure A.3 and the attendees are listed in Table B.5. The meeting was co-facilitated by Cissy Mynatt and Margo Farnsworth. Minutes of the June 13, 2006, meeting are presented in Appendix D. Growth, particularly unregulated growth, is an issue that concerns stakeholders in Emory River watershed. Also, individuals are concerned about the changing of land use from farming to urban and residential. There appears to be distrust for the elected state and local decision makers. Furthermore, there is a belief that governmental bodies are making decisions independently with no common watershed plan or vision that has received support by the majority of regional, county and community decision makers and stakeholders. Associated with increasing population growth is a concern for adequate water supply and wastewater treatment. Issues voiced by stakeholders attending the meeting can be placed in several general categories: growth, planning, history and culture, and water and wastewater. Ms. Mynatt directed the discussion to things to protected within the watershed and finally what resources are available now to help resolve the issues cited in Table 1 (Appendix D). Numerous resources were cited that are currently being used to address the stakeholders concerns. The group agreed to meet in the fall to continue the discussion.

Table 1. Emory River Watershed issues.

Growth Issues
- Unregulated growth – Outside Crossville there are no codes but it’s still growing fast. With no rules, it’s a free-for-all and the environment is losing.
- There are higher expectations from outsiders who are moving here. They had good water systems and expect us to.

Planning Issues
- There’s a fear of planning.
- That’s happening in both counties. No one looks at 1101 Plans because they have no teeth. Only the counties that want to use them and have staff to do so use them.
- A lot of interest in this part of the Plateau is occurring now. Key people are looking at the Plateau.
- Distrust and outright dislike of state and government officials
- We have a fragmented government. Everybody wants to do their own thing.
- About six years ago they tried to form a regional group. It just fell apart. It never did materialize.
- That antagonism still exists.
- People are big on property rights. – I want to do whatever I want with my land. – which sometimes causes water problems.
- Maybe we’re moving forward but there’s no action yet.

History and Culture Issues
- Agricultural land is being converted to more urban uses. Sub-divisions are being put in anywhere.
- People are buying the land that are not from here.
- It’s worrisome that as this continues, natives could be displaced because the land is too valuable to continue to be used as farmland.
- Loss of Plateau culture
- Prime farm land was defined and illustrated to the group that the same flat land that is good for farming is also what developers are looking for because of lack of slope.
- Heritage and losing good water for our children is an issue in certain areas.
Water and Wastewater Issues
- Sewage is an issue because of straight pipes, septic perking problems, flood prone areas and septic companies illegally dumping.
- Water supply
- Crossville is a water seller.

Education
- Lack of community understanding of watershed issues.
- Watershed groups have been helping in the last 10 years.
- Some of the public are starting to be more aware.
- There are more phone calls about – Who can I call to resolve this issue?
- Maybe we need more articles.
- There are a lot of water recreation offerings here.

WORK PLAN FOR SUCCESS

The Focus Groups and Stakeholder meetings were a start to a watershed-wide discussion of the drivers affecting, and issues concerning, the sustainable use of resources within the Emory River Watershed. The synergy created through these workshops can and should be continued by the following actions:

- Continue the discussion among stakeholders, i.e. city and county decision-makers, planners, land owners, NGOs, citizens, developers, real estate agencies, businesses and industry;
- Connect stakeholders with existing initiatives within and external to the Emory River watershed; and
- Continue to educate the public about watershed issues.

Continued Dialog: Stakeholders share similar concerns such as uncontrolled growth, lost of culture and heritage, water supply and greater expectations by people migrating to area. Residents within the watershed must continue to discuss these issues and more to define a common ground to base a watershed plan.

Action: Drs. George and Feldman will work with stakeholders to have stakeholder meetings to discuss issues that are relevant to the Emory River Watershed and to help ensure that interested parties are brought into the discussions.

Connecting Stakeholders with Existing Watershed Initiatives: Within the Emory River Watershed a vast array of activities have taken place to better understand, protect and conserve resources, and better utilize resources for sustainable growth. Community planners and developers have worked for years to attract people to the Cumberland Plateau. Communities continually study and implement means to provide the infrastructure need to support population and industrial changes. Similarly federal and state environmental organizations (TVA, US Fish and Wildlife, USGS, TDEC, U.S. Park Service) and universities (UT and TTU) assess existing conditions and anthropogenic impact on natural resources. TTU is currently compiling a bibliography of all publications that have focused on the Emory River Watershed. Nongovernmental organizations, such as the Emory River Watershed Association, The Byrds Creek Watershed Council, Alliance for the Cumberlands, the Obed Watershed Association and others also work with stakeholders in the Emory River Watershed. Most of these activities occur independently with little exchange of data.
or information. People have a difficulty determining what is known about the environmental state of the watershed and what projects are ongoing.

**Action:** It is essential that a means to connect people to the various activities within the watershed be discussed and created. A meeting of NGOs and other interested agencies will be held to discuss possible processes to connect stakeholders with watershed activities and to further the establishment of useful networks in a variety of interest and activity areas be advanced. The focus group can address questions such as processes for obtaining and archiving information and data, availability of information and dissemination of information, and other sources of information and data that are needed for furthering watershed stewardship. In addition this information archival and mining mechanism should include sources for funding future activities.

**Continual Public Education:** An informed public results in decisions based on scientific facts rather than myth. Educational resources are available through universities, TVA, NGOs and state agencies that will increase the public’s knowledge about scientific facts and information that affect the ecology with the watershed. Also, information is available concerning anthropogenic impacts on hydrology and water quality. Some of these materials are utilized within the K-12 classroom and others are to educated adults. Stakeholders need to be knowledgeable about possible solutions to environmental problems. TTU and UT can also help in this effort by helping to ensure that comparable experiences and additional sources of information are brought to the attention of stakeholder and stakeholder networks in the watershed.

Information can be obtained a diverse number of sources including the Nonpoint Education for Municipal Officials (NEMO) program (http://nemo.uconn.edu/about.htm), the Center for Watershed Protection (http://www.cwp.org/index.html), the Center for Land Use Education and Research (http://clear.uconn.edu/default.htm), and the U.S. Environmental Protection Agency Academy (http://www.epa.gov/watertrain/stream_class/), which have develop practical training modules and guidebooks for watershed practitioners. The EPA also maintains a Web site (http://cfpub.epa.gov/npdes/stormwater/menubmp/s/index.cfm) with information on existing and new technologies for stormwater BMPs. The National Association of Home Builders (http://www.nahb.org/page.aspx/category/sectionID=211) promotes Smart Growth, preserves open spaces and protects environmentally sensitive areas. In addition, the Water Resources Research Center at the University of Tennessee, Knoxville, has developed a series of workshops for developers, contractors and engineers devoted to erosion prevention and sediment control (http://www.tnepsc.org/).

**Action:** During stakeholder meetings, a portion of the time will be designated to present science based facts and information about the watershed. In addition, NGOs working in the watershed have established mechanisms to provide information to the public.

**Watershed Plan:** The combination of all these efforts will be designed to culminate in the preparation of a watershed plan for the Emory River Watershed. This goal will require stakeholder ownership, which will be a goal trended throughout the educational process and public meetings.
Phase I of the initial project proposed to TVA is completed and Phase I is ready to begin. In order to commence on Phase 2, additional funding is essential. Communications between TVA and the principal parties involved with this Phase 1 project will begin to secure additional funding.
APPENDIX A
Emory River Watershed Meetings Agenda
Envisioning the Future of the Cumberland Plateau

Cumberland Mountain State Park
October 28th, 2005

9:30 – 10:00 Arrivals, Registration, and Refreshments
10:00 – 10:10 Welcome and Workshop Introduction
- Charles Brockett, Project Coordinator
- Brock Hill, Mayor of Cumberland County

10:10 – 11:10 1st Panel Session: Land Use: Agriculture, Forestry, and Conservation

State Officials:
- Bruce Anderson, Assistant Regional Manager, TWRA
- Patricia Clark, Assistant Commissioner, Department of Agriculture
- Tami Coleman, CENTS Coordinator, Department of Education
- Ron Blaylock, Field Supervisor, Department of Education
- Jeanne Stevens, Director of Planning Division, Department of Transportation

County Mayors:
- Monty Adams, Franklin County
- John Mullinix, Fentress County
- Brock Hill, Cumberland County

Moderator: Charles Brockett, Professor of Political Science, Sewanee: The University of the South

11:10 – 12:10 1st Break Out Session

12:15 – 1:15 Lunch
- Cumberland Plateau Natural Heritage Corridor Slide Show, Alliance for the Cumberlands
- Music Provided by Glory in the Meeting House

Keynote Address: Commissioner Jim Fyke, Department of Environment and Conservation

1:15 – 1:30 Short Break

1:30 – 2:30 2nd Panel Session: Economic Development and Environmental Protection

State Officials:
- Dan Hawk, Director of Local Planning Assistance, ECD
- Dan Eagar, Manager, TDEC Water Pollution Control
- Tom Lightsey, Assistant Commissioner, Department of Tourism Development
- Alan Jones, Environmental Policy Advisor, Department of Transportation

County Mayors:
- Carolyn Houston, Van Buren County
- Howell Moss, Marion County
- Herd Sullivan, White County

Moderator: David Feldman, Professor of Political Science, University of Tennessee - Knoxville

2:30 – 3:30 2nd Break Out Session

3:30 – 3:35 Closing
Two Steering Committee meetings (Focus Groups) and stakeholder workshop including final summary of ERW Workshop

Agenda for two steering committee meetings (Focus Groups)
Emory River Watershed
Stakeholder Focus Groups: Crossville, Wartburg
May 16, 2006

Purpose of the Session:
• Provide overview of the watershed concept and TN management cycle
• Gather perspectives and ideas about local water concerns
• Offer opportunity for Educational/Stakeholder process in the Emory Watershed

Discussion Outline

I. Welcome and Introductions Cissy Mynatt, facilitator

II. The Watershed Concept Margo Farnsworth, Cumberland River Compact
• What is a watershed?
• TDEC Five-Year Management Cycle

III. Group Discussion All –
➢ In the time you have lived here, what changes have taken place?
➢ What impact have these changes had on water?

III. Wrap-up
• Dennis George - TTU
• Opportunity for education and stakeholder involvement in the Emory Watershed
• Next Steps

NOTE: If you have questions or comments after this meeting, please contact Margo Farnsworth at 615-382-4443 or by email at screendoor@bigfoot.com (with “Emory “as a subject line on your message).
Figure A. 3. Emory River Stakeholder Meeting agenda.

EMORY RIVER WATERSHED STAKEHOLDER MEETING

June 13, 2006 5:00 – 7:00 p.m.

AGENDA

Approximate Time:

5:00 Getting Started
   Welcome  David Feldman,
   UTK  Dennis George,
       TTU
   Introductions/Agenda  Cissy
       Mynatt, facilitator
   Highlights of May Focus Groups  Margo
       Farnsworth,
       Cumberland
   River Compact

5:25 State of the Emory River Watershed
   Presentation  David
       Duhl, TDEC
   Q&A

5:50 Three Questions
   Small Groups  All
   Reports/Full Group Discussion
APPENDIX B.
Emory River Stakeholders
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<td>Graha</td>
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Table B.1. Possible stakeholders.
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<td>Ossie II Overton</td>
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<td>Stephen Bilbrey</td>
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<tr>
<td>Bill Overton</td>
<td>Executive</td>
<td>1209 N. Kentucky St. Room 203</td>
<td>Kingston, TN, 37763</td>
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<tr>
<td>Kim Blaylock Putnam</td>
<td>Executive</td>
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<td>Huntsville, TN, 37756</td>
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<td>Ken Yager Roane</td>
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<td>The Roane Alliance PO Box 180</td>
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<td>Dwight Murphy Scott</td>
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<td>Debbie Young Jackson</td>
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<td>Livingston, TN, 38570</td>
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<td>Evert Kittrell Morgan</td>
<td>Executive</td>
<td>University St. PO Box 220</td>
<td>Byrdstown, TN, 38549</td>
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<tr>
<td>Larry King Overton</td>
<td>Executive</td>
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<td>Cookeville, TN, 38503-0220</td>
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<td>Executive</td>
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<td>Rhonda Chaffin Putnam</td>
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<td>Huntsville, TN, 37756</td>
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<tr>
<td>Teresa Kirkham</td>
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<td>Sparta, TN, 38583</td>
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<tr>
<td>Todd Roane Thompson</td>
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<td>University St. PO Box 220</td>
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<tr>
<td>Steveon Scott</td>
<td>Executive</td>
<td>University St. PO Box 220</td>
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<tr>
<td>Tina Miller White</td>
<td>Executive</td>
<td>University St. PO Box 220</td>
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<tr>
<td>County</td>
<td>Planner/Contact</td>
<td>Phone</td>
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</tr>
<tr>
<td>Fentress</td>
<td>Cookeville Planning Director</td>
<td>931-520-</td>
<td>45 East</td>
</tr>
<tr>
<td>Jackson</td>
<td>Cookeville Planning Director</td>
<td>5328</td>
<td>Planning Dept. PO Box 998</td>
</tr>
<tr>
<td>Morgan</td>
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<tr>
<td>Overton</td>
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<td>Pickett</td>
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<tr>
<td>White</td>
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</tr>
<tr>
<td>Other Possible Contacts</td>
<td>Community Planner/ Agency GIS Coordinator</td>
<td>931-268-</td>
<td></td>
</tr>
<tr>
<td>Mich</td>
<td>Cookeville Planning Director</td>
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<tr>
<td>Ael</td>
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</tr>
<tr>
<td>Jack</td>
<td>Jackson County Commissioner</td>
<td>9217</td>
<td></td>
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<tr>
<td>Smith</td>
<td>Jackson County Commissioner</td>
<td></td>
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</tr>
<tr>
<td>Keith Street</td>
<td>Putnam Director of Solid Waste</td>
<td>931-528-</td>
<td>15846 South Jefferson Ave.</td>
</tr>
<tr>
<td>Putnam</td>
<td>Putnam Director of Solid Waste</td>
<td>3884</td>
<td></td>
</tr>
<tr>
<td>David</td>
<td>Division of Water Pollution Control</td>
<td>615-532-</td>
<td></td>
</tr>
<tr>
<td>Duhl</td>
<td>Division of Water Pollution Control</td>
<td>0438</td>
<td>401 Church St.</td>
</tr>
<tr>
<td>Richa</td>
<td>Division of Water Pollution Control</td>
<td></td>
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</tr>
<tr>
<td>rd Ruth</td>
<td>TVA Watershed Specialist</td>
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<tr>
<td></td>
<td>TVA Watershed Specialist</td>
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Table B.2. Crossville Western Focus Group

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Everett Bolin</td>
<td>Crab Orchard Utility District General Manager</td>
<td>931-484-6987</td>
</tr>
<tr>
<td></td>
<td>2089 E. First Street, Crossville, TN 38555</td>
<td><a href="mailto:ebolin.coud@frontiernet.net">ebolin.coud@frontiernet.net</a></td>
</tr>
<tr>
<td>Chester Bush</td>
<td>USDA, NRCS, District Conservationist</td>
<td>931-484-5442 ext.3</td>
</tr>
<tr>
<td></td>
<td>314 Old Jamestown Road, Crossville, TN 38555</td>
<td><a href="mailto:chester.bush@tn.usda.gov">chester.bush@tn.usda.gov</a></td>
</tr>
<tr>
<td>Mark Thurman</td>
<td>TWRA Biologist</td>
<td>800-262-6704</td>
</tr>
<tr>
<td></td>
<td>484 Industrial Boulevard, Crossville, TN 38555</td>
<td><a href="mailto:Mark.Thurman@state.tn.us">Mark.Thurman@state.tn.us</a></td>
</tr>
<tr>
<td>Charles Daugherty</td>
<td>Charlin Hollow Tree Farm</td>
<td>931-788-6055</td>
</tr>
<tr>
<td></td>
<td>337 Jerry Edmonds Road, Crossville, TN 38572</td>
<td><a href="mailto:charlin@frontiernet.net">charlin@frontiernet.net</a></td>
</tr>
<tr>
<td>Jean Cheely</td>
<td>tree farmer &amp; SOCM member</td>
<td>931-484-8079</td>
</tr>
<tr>
<td></td>
<td>426 Lantana Road, Crossville, TN 38555</td>
<td><a href="mailto:jcheely@usit.net">jcheely@usit.net</a></td>
</tr>
<tr>
<td>Katherine Medlock</td>
<td>Alliance for the Cumberlands</td>
<td>865-546-5998</td>
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<tr>
<td></td>
<td>706 Walnut St., Suite 200, Knoxville, TN 37902</td>
<td><a href="mailto:Kmedlock@inc.org">Kmedlock@inc.org</a></td>
</tr>
<tr>
<td>Harvey Hoffman</td>
<td>Fairfield Glade General Manager</td>
<td>931-484-3780</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 1000, Fairfield Glade, TN 38558</td>
<td><a href="mailto:Hhoffman@fairfieldglade.cc">Hhoffman@fairfieldglade.cc</a></td>
</tr>
<tr>
<td>David Sutton</td>
<td>Lake Tansi, POA, General Manager</td>
<td>931-788-6721</td>
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<tr>
<td></td>
<td>5050 Shoshone Loop, Crossville, TN 38572</td>
<td><a href="mailto:Davdsttn@aol.com">Davdsttn@aol.com</a></td>
</tr>
<tr>
<td>Brock Hill</td>
<td>County Mayor, Cumberland County</td>
<td></td>
</tr>
</tbody>
</table>

Underlined names indicate suggested Steering Committee Members due to attendance, geographic location, professional diversity and access to potential funding.

Table B.3. Wartburg Eastern Focus Group

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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</thead>
<tbody>
<tr>
<td>Becky Ruppe</td>
<td>County Mayor, Morgan County (See pdf.)</td>
<td></td>
</tr>
<tr>
<td>Mike Monroe</td>
<td>Plateau Utility District, General Manager</td>
<td>423-346-8320</td>
</tr>
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<td></td>
<td>P.O. Box 407, Wartburg, TN 37887</td>
<td><a href="mailto:Pud2@highland.net">Pud2@highland.net</a></td>
</tr>
<tr>
<td>Jerry Johnson</td>
<td>Morgan County Chamber of Commerce</td>
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<td></td>
<td>P.O. Box 539, Wartburg, TN 37887</td>
<td><a href="mailto:MorganCoTN@yahoo.com">MorganCoTN@yahoo.com</a></td>
</tr>
<tr>
<td>Phil Melhorn</td>
<td>Farmer</td>
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</tr>
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<td></td>
<td>3734 Knoxville Highway, Wartburg, TN 37887</td>
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</tr>
<tr>
<td>Brian Lester</td>
<td>Farmer/Student</td>
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<td></td>
<td>3722 Knoxville Highway, Wartburg, TN 37887</td>
<td><a href="mailto:Blester@utk.edu">Blester@utk.edu</a></td>
</tr>
<tr>
<td>Jerry W. Hardin</td>
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<td></td>
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</tr>
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<td>Del Scruggs</td>
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<td>865-617-0984</td>
</tr>
<tr>
<td></td>
<td>Director</td>
<td>P.O. Box 634, Wartburg, TN 37887</td>
</tr>
</tbody>
</table>

Underlined names indicate suggested Steering Committee Members due to attendance, geographic location, professional diversity and access to potential funding.
Table B.4. Emory River Stakeholder Meeting.

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Chester Bush</td>
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<td></td>
<td>Oakdale, TN 37829</td>
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<tr>
<td>Del Scruggs</td>
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</tr>
<tr>
<td></td>
<td>P.O. Box 634</td>
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<tr>
<td></td>
<td>Wartburg, TN 37887</td>
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<td>484 Industrial Boulevard</td>
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<td><a href="mailto:Bobby.Brown@state.tn.us">Bobby.Brown@state.tn.us</a></td>
</tr>
<tr>
<td>Liz Upchurch</td>
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<td>Lenoir City, TN 37772</td>
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<tr>
<td>Clark Annis</td>
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<td>1071 Mimosa Lane</td>
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<td>Margie Buxbaum</td>
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<td>12 Bluff Road</td>
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<tr>
<td>Emily Saunders</td>
<td>Cumberlands Habitat Conservation Plan</td>
<td>865-974-1955</td>
</tr>
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<td></td>
<td>274 Ellington Plant Sciences</td>
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<td>Knoxville, TN 37996</td>
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<tr>
<td>Sandra Goss</td>
<td>TN Citizens for Wilderness Planning</td>
<td>865-522-3809</td>
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<tr>
<td></td>
<td>4308 Thornwood</td>
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<td></td>
<td>Knoxville, TN 37921</td>
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<tr>
<td>Louise Gorenflo</td>
<td>Obed Watershed Community Assn.</td>
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<tr>
<td></td>
<td>185 Hood Dr.</td>
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<td>Crossville TN 38555</td>
<td><a href="mailto:Lgorenflo@gmail.com">Lgorenflo@gmail.com</a></td>
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</tbody>
</table>

Others attending:
Dr. Dennis George, Dr. David Feldman, Speaker David Duhl, Margo Farnsworth, Cissy Mynatt
One drop in wants to be notified of additional meetings:
Janice Bond  Fairfield Glade Yoga Instructor  931-484-6923
P.O. Box 2070  Crossville, TN  38558  Jagken@aol.com
APPENDIX C
Focus Group Meetings
Outcome Matrix for the two steering committee meetings (Focus Groups)
Emory River Watershed Stakeholder Focus Groups
Wartburg, Crossville – May 16, 2006

Thank you for attending the Focus Groups held to discuss water issues of the Emory River Watershed earlier this week.

As you can see from the list of changes and concerns below, there are definitely topics of concern shared across the entire area! Additionally, everyone agreed that the time has come to get together to learn more from each other and experts on these topics.

To that end, Harvey Hoffman has been kind enough to offer Fairfield Glade Community Club as a central place to meet with the 15 individuals who gathered at these meetings plus an expanded group of stakeholders contacted by Focus Group members and today’s meeting facilitator.

In the time you have lived here, what changes have taken place?
Population/Growth 12
Mining increase (coal, gas, oil) 4
Reduced farming 3
Climate change/seasons changing 3
Mining decrease/less contamination 2
Increased environmental awareness among citizens 2
Land being divided into smaller plots 2
Logging increasing 2
More silt
Water supply
Upgraded infrastructure in Crossville
In 1996, began 10-Year Plan to deal with water in Crossville
Work with Corps on County Water Supply Project
Increased awareness for water quality
Larger tracts getting larger but not adding taxes
Land company ownership of more land
Need better sewerage
Concerns about septic systems
Pollution from golf courses
Reduced number of pines
Hardwood forests being converted to pastures
Farmers attitudes changing – fencing cows out of creeks
Increased Best Management Practices
Costing more to farm/more profitable to sell land
What impact have these changes had on water and what are your specific water concerns?
Public is completely unaware of supply problem 7
Water shortage (moving eastward) 4
Need to go to impoundments (Center Hill, Watts Bar, Chickamauga) 2
Geology bad for handling sewers and septic tanks 2
Concerned of renewed interest in Sewanee Coal seam/acid mine drainage 2
Need increased number of programs on economics surrounding water/bank loss 2
Concern about getting water from Watts Bar 2
Sediment
Supply is fine now – Need to think 50 to 75 years from now
Need to collect more rainfall
Positive changes to Crossville infrastructure
Many streams on State Impaired Streams list
Calcium Chloride running off from road applications in winter
County going into sewage business because nobody else is
People moving here want the rural beauty – but the amenities to go with it
Want to partner Districts to form Water Authority
Problem getting expensive water from the Corps of Engineers
Too many buildings on hillsides that are too steep
Responsible development practices
Nonprofit groups have stepped up to the plate to educate others
Utility Districts are maxed out and we can’t keep up with grants
Water is one of the most undervalued things we have.
We use water for drinking and next it will be needed for energy too.
TDEC testing of water comes from two different offices.

In a meeting held last October Tennessee Technological University, the University of Tennessee - Knoxville and University of the South, heard from local community leaders indicating water supply and water quality management while nurturing the economic vitality of our watershed was a major issue for the area. Tennessee Tech and UT are following up on these issues as a result of that conversation.

The Tennessee Department of Environment and Conservation (TDEC) is now developing plans and permits on a watershed basis. This means that all permit holders (wastewater treatment plants and industries) in the Emory watershed will receive their permits at the end of a five-year planning cycle. These permits will be based on the water quality conditions in the entire watershed.

As a result, we feel that a discussion bringing together all of the stakeholders in the watershed for education and discussion would be beneficial. We would like to invite you (or your designee) to be part of this process by attending and participating in the conversation. The gatherings will bring together interested stakeholders to learn about and discuss the present conditions in the watershed. The meetings will provide:
- a forum for education about and discussion of the current problems, as well as
- a mechanism for reaching a consensus on approaches to insure a bright future for the Emory River watershed.

These meetings will allow businesses, citizens, educators, local governments and other interested parties to have significant input into TDEC’s five-year watershed plan.

Cleaner water improves the quality of life for all of us. In addition, success in a community-based planning process can strengthen the ties between businesses, educators, citizens and local governments, allowing communities to meet other challenges as our cities and towns grow.
Activity

What do we have in common throughout the watershed? Based on your knowledge and what you heard in the focus group summary, what water issues do you think communities throughout the watershed have in common? What are the top 3 watershed-wide issues?

What do we want to protect in the Emory Watershed? When you consider the natural resources, lifestyle, or other assets in this area, what do you most hope can be protected for future generations?

What is currently being done in the watershed to protect water quality and quantity? Please be specific. What, when and where are activities taking place in the watershed now… and by whom?
APPENDIX D
Minutes of Emory River Watershed Stakeholder Meeting
Fairfield Glade Community Center
Minutes from Emory River Stakeholder Meeting
June 13, 2006
Fairfield Glade Multipurpose Room

Facilitator Cissy Mynatt opened the meeting by going over the agenda briefly and introducing Co-facilitator Margo Farnsworth, Speaker David Duhl of Tennessee Department of Environment and Conservation (TDEC), Watershed Management and your hosts, Dr. David Feldman of the University of Tennessee – Knoxville and Dr. Dennis George of Tennessee Technological University – Cookeville.

Dr. Feldman and Dr. George said a few words of welcome including comments on quality being an issue which affects economics and quality of life. They went on to offer tools to leaders and citizens of the watershed to look at land use impacts, to see what we have to work with and how to integrate it. The universities further offered to provide a stage for integrating all existing agendas to enhance all the efforts currently in place.

At this point Cissy asked everyone to introduce themselves and then introduced Margo Farnsworth to go over the Topics of Shared Concern Across the Emory River Watershed which were gathered at the Focus Group Meetings. The top topics of concern included: growth and population, lack of public awareness of water supply issues, and water supply issues themselves. A complete handout was given to cover all responses from the Focus Groups.

David Duhl gave a presentation on “The State of the Emory River Watershed” outlining the watershed process itself, the definitions of designated uses water quality criteria, point and nonpoint pollution and other terms. He described the size of the Emory River Hydrologic Unit Code which is the unit by which TDEC manages. He then told the audience that 23% of the streams assessed fully supported their designated uses, 8.2% did not support their uses and 53.8% had not been assessed.

Members of the group knew that sediment was the Emory’s top pollutant and David listed nutrients, nitrates and pH as other top pollutants. He then discussed the important ramifications of having too many impervious surfaces (like streets, rooftops and parking areas) which add to siltation, habitat alteration and to increased water supply issues due to quick runoff. He closed by saying that unaffiliated citizen comments are important to the whole watershed process.

During his talk citizens described concern that the Emory River Watershed is split in half with the western half being assessed by the Cookeville TDEC office and the eastern half being assessed by the Knoxville TDEC office. They suggested the entire watershed be assessed by a single office. A second question was asked about reference streams, “What if a reference stream might become or does become polluted?” The answer was it would be removed from the list of reference streams.

After the presentation, stakeholders were asked, “What are common issues to the entire watershed?”

Answers are listed below:
Unregulated growth – Outside Crossville there are no codes but it’s still growing fast. With no rules, it’s a free-for-all and the environment is losing.

There’s a fear of planning.

That’s happening in both counties. No one looks at 1101 Plans because they have no teeth. Only the counties that want to use them and have staff to do so use them.

Agricultural land is being converted to more urban uses. Sub-divisions are being put in anywhere.

People are buying the land that are not from here.

It’s worrisome that as this continues, natives could be displaced because the land is too valuable to continue to be used as farmland.

Loss of Plateau culture

Prime farm land was defined and illustrated to the group that the same flat land that is good for farming is also what developers are looking for because of lack of slope.

Sewage is an issue because of straight pipes, septic perking problems, flood prone areas and septic companies illegally dumping.

Water supply

A lot of interest in this part of the Plateau is occurring now. Key people are looking at the Plateau.

Distrust and outright dislike of state and government officials

We have a fragmented government. Everybody wants to do their own thing.

Crossville is a water seller.

About six years ago they tried to form a regional group. It just fell apart. It never did materialize.

That antagonism still exists.

People are big on property rights. – I want to do whatever I want with my land. – which sometimes causes water problems.

Lack of community understanding of watershed issues.

Maybe we’re moving forward but there’s no action yet.

Watershed groups have been helping in the last 10 years.

Some of the public are starting to be more aware.

There are more phone calls about – Who can I call to resolve this issue?

Maybe we need more articles.

There are higher expectations from outsiders who are moving here. They had good water systems and expect us to.

There are a lot of water recreation offerings here.

Heritage and losing good water for our children is an issue in certain areas.

Then Cissy asked, “What are the things you want to protect?”

Recreation

Fishing, paddling, bird watching, good economic conditions, golf, horseback riding, hunting, hiking, wildflowers, our viewscape

The question was asked by a stakeholder, “Why is economics in there?” Someone answered, “Because it’s inherent in everything we do.

Excellent resort areas/timeshares/Cumberland County Playhouse

Wooded areas and intact forests

Cultural heritage

Jobs

Sustainable development
Then Cissy followed with, What’s going on here now? What are the resources you have to work with?

- Crossville MS4-Phase II and 20 year sewer service plan
- 319 projects on Crooked Fork and Watershed Management Plan
- Cleaning up abandoned mine areas
- Forest industry has a Master Logger Program (partially taught by TDEC).
- TN Citizens for Wilderness Planning calling attention to the Plateau’s “specialness”
- We need to get more officials here.
- Tennessee Wildlife Resources Agency (TWRA) active in a number of ways like the Catoosa inventory and community fishing initiative.
- TWRA incentive programs to protect streams
- Emory River Watershed Association (ERWA) programs like Discovery Fest held in conjunction with Frozen Head’s Wildflower Tour, Kids in the Creek program, Watershed Tour, etc.
- U.S. Department of Agriculture’s (USDA) cost share programs for Best Management Practices (BMP’s)
- Partnerships working on restoration and tours seeing Horney Head Branch (which won a Governor’s Environmental Award)
- Cumberlands Habitat Conservation Plan effort to get development moving in a sustainable fashion
- Alliance for the Cumberlands working on National Heritage Corridor designation
- Greenways discussion has taken place in Crossville and we need more
- Obed Watershed Community Association (OWCA) doing community awareness work.
- Good teacher doing watershed testing work in the schools
- Current State President of the Farm Bureau from here
- Nature Conservancy, Save Our Cumberland Mountains (SOCM), Cumberland Trails Conference office, 2 state parks, Tree City Program in Crossville, arboretum,
- Many engaged civic groups
- TN Tech, UT and Sewanee close by
- Governor’s Land Trust

Then Dr. Feldman & Dr. George (David and Dennis) addressed the question, “Where do we go from here?”

Our charge is to help you determine net steps and we’d like to help you. It seems there is a real concern here with a loss of community and outsiders coming in as well as communication concerns. Watershed initiatives can take many forms. Good ones: 1. Do planning 2. Mitigate pollution and 3. Restore harmed areas.

You have to start somewhere and gathering and preaching to the choir usually comes first. A good thing to remember is that there are ways of establishing common ground with insiders and outsiders. You can look at current forums that have an influence – like churches, community education and leadership education. It’s encouraging to see a “preservation ethic” here.

Cissy asked the group if they would like to meet again in the fall and everyone agreed they did. David and Dennis will follow-up with a fall meeting to discuss what next steps might be and questions from the group like, “How do other watersheds govern and what are some incentives to change that really work?”
The meeting closed and further follow-up pending from David and Dennis.