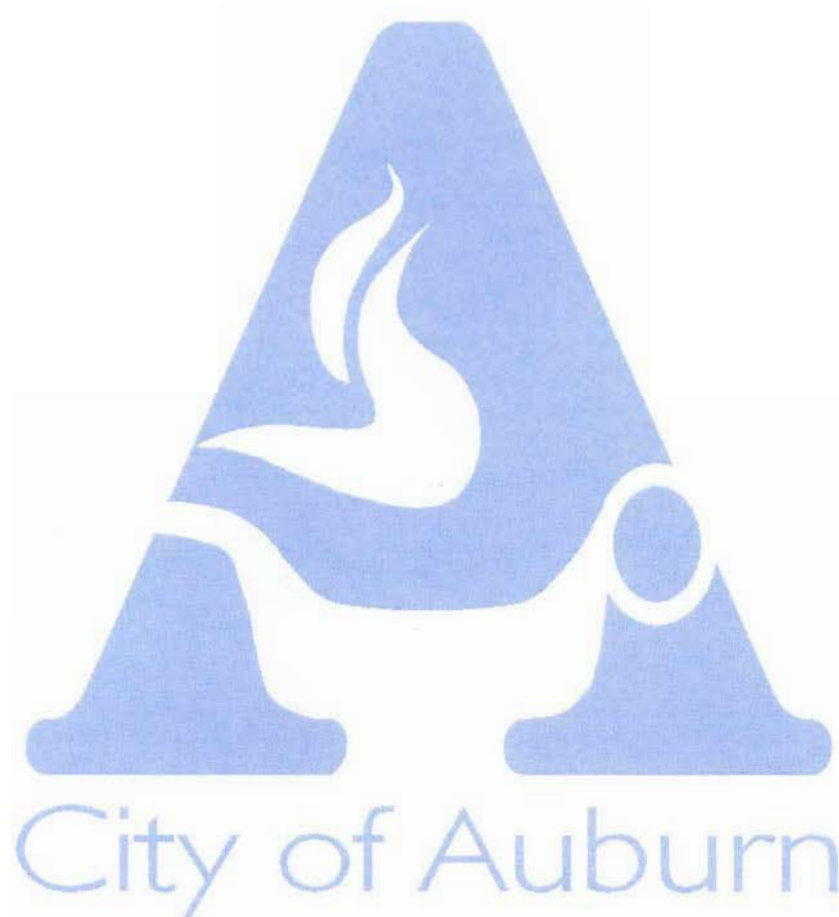


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**STORM WATER  
MANAGEMENT PROGRAM  
ANNUAL REPORT**



**PERMIT YEAR TWO**

March 10, 2004 – March 10, 2005

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SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**PERMIT NUMBER ALR040003**

# CITY OF AUBURN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES)

PERMIT NUMBER ALR040003

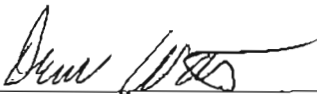
MUNICIPAL STORM WATER PROGRAM ANNUAL REPORT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.



---

Bill Ham, Jr.  
Mayor, City of Auburn  
144 Tichenor Avenue  
Auburn, Alabama 36832  
(334) 501-7260



---

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City Manager, City of Auburn  
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March 02, 2005

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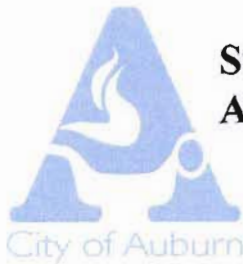
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# STORM WATER MANAGEMENT PROGRAM ANNUAL REPORT

PERMIT YEAR TWO  
March 2004 - March 2005

## **I. INTRODUCTION**

In response to the National Pollution Discharge Elimination System (NPDES) Phase II Storm Water Regulations, the City of Auburn applied for and received an NPDES permit for storm water discharges.

This report is being submitted to the Alabama Department of Environmental Management (ADEM) pursuant to Part V paragraph C of NPDES permit ALR 040003 issued on May 14, 2003.

The annual report is the second of five and covers the reporting period from March 2004 through March 2005. The program outlined in this report is patterned after the program submitted to and approved by ADEM in March 2003 in the City of Auburn's Alabama Notice of Intent (ALNOI) (Appendix A). The five year permit is expected to expire in March 2008.

## **II. SITE DESCRIPTION**

The City of Auburn is situated in East Central Alabama (Appendix B). The City limits encompass an area of approximately 46 square miles (29,440 acres). This area calculation does not include Auburn University property or the City of Opelika. The population of Auburn is approximately 43,000. There are approximately 54 miles of creeks and streams running through the City. In the 2003-2004 reporting year the storm drainage system contained approximately 86 miles of storm pipe with 4500 inlets and 3000 storm water manholes/junction boxes. The storm water inventory for the 2004-2005 reporting year has not been updated as the City has recently interviewed and now selected a consultant to perform a system-wide comprehensive update of the City's storm water system.

## **III. KNOWN OR SUSPECTED WATER QUALITY PROBLEMS**

The City of Auburn discharges into four receiving waters. These include Saugahatchee Creek (North), Moores Mill Creek (South East), Chewacla Creek (South) and Parkersons Mill Creek (South West).

Moores Mill Creek was placed on the draft 303(d) list in 1998 and was listed on the final 2002 303(d) listing. Known water quality concerns within the jurisdictional area were identified as stream siltation resulting from sedimentation deriving from development.

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#### **IV. RESPONSIBLE PARTY**

The City of Auburn's storm water management program (SWMP) is composed of several programs operating under various departments within the City's organization. For example, the recycling and composting program is operated by the Environmental Services Department, the maintenance of infrastructure is performed by the Public Works Construction Maintenance Department, residential and commercial construction is monitored by the Codes and Enforcement Department, and the public education and outreach program is maintained by the Public Works Administration Department.

The person responsible for the coordination and implementation of the individual storm water management program components is as follows:

B. Scott Cummings, P.E.  
Assistant City Engineer/Storm Water Program Manager  
Public Works Department  
171 North Ross Street  
Auburn, Alabama 36832  
(334) 501-3000

#### **V. STORM WATER MANAGEMENT PROGRAM COMPONENTS**

The Phase II storm water regulations require operators of small municipal separate storm sewer systems (MS4s) in urbanized areas to develop and implement storm water management programs employing **best** management practices (BMPs) to adequately address the six minimum control measures. The control measures include:

- Public Education and Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Runoff Control
- Post-Construction Storm Water Management
- Pollution Prevention/Good Housekeeping for Municipal Operations

In March of 2003 the City of Auburn submitted to ADEM a notice of intent (NOI) to implement a storm water management program under the Phase II storm water regulations. The goals of the individual components of the program along with implementation dates were outlined in this document. At the end of permit year two, all program components outlined in the NOI have been implemented.

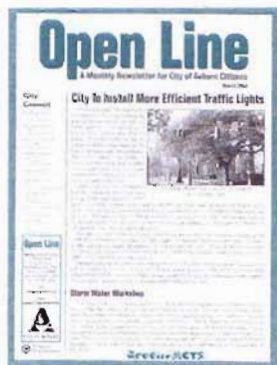


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## VI. PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

### A. *Articles in the City News Letter "Open Line": (March 2004 – Present)*

"Open Line" is the City's monthly newsletter that is mailed to Auburn Citizens through their utility bill. Articles and messages contained in the newsletter reach a large and diverse group of citizens. The goal for articles in the City News Letter was to produce two (2) articles per year. During the second permit year a total of seven (7) articles were published. Storm water issues highlighted over the past year include:



- *Greenfacts: City Personnel Receive Accreditation from the State for QCIP Inspections (July 2004)*
- *Lee County Water Festival (July 2004)*
- *A Change in Plastics Recycling (August 2004)*
- *Creek Clean Up (September 2004)*
- *City's Environmental Efforts and Outreach (January 2005)*
- *Erosion and Sediment Control Workshop (January 2005)*
- *Keep Storm Drains Clean...(January 2005)*

### B. *Brochure Publications: (January 2004 – Present)*

Pamphlets and brochures are an effective way to present and explain storm water issues. Unlike other communication vehicles, pamphlets and brochures can be distributed in many locations without requiring staffing and the location of distribution can specifically target the audience you are trying to reach (i.e. Development Services Building/Office of Codes and Enforcement). The goal for publishing brochures was to produce two (2) brochures per year. During the second permit year a total of six (6) were published. Brochures provided by the City over the past year include:

#### Organization Specific Brochures Published

- Wetlands
- Illicit Discharges



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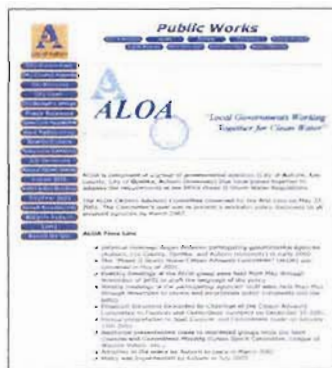
## Clean Water Partnership Brochures Published

- Washing Car
- Changing Oil
- Pets
- Fertilizing



### C. Web Site: (March 2004 – Present)

The City's web page is a place where citizens often go to obtain information on items of local interest. The web page is accessible 24 hours per day and can serve citizens that do not have the time or the ability to physically meet with staff during normal working hours.



In the NOI submitted to ADEM in March of 2003, the goal was to develop a Phase II Storm Water section on the existing web site in 2003 and post that web page in 2004. This goal was met a year early when the Phase II Storm Water web page was posted in March 2003. City storm water policies, ordinances, design manuals and links to related sites (ADEM and EPA) have been posted and are available to the public.

For more information on the web site please visit:

<http://www.auburnalabama.org/pubworks/phase2stormwater.html>

### D. Video Presentations: (March 2004 – Present)

Periodically the City obtains relevant storm water information in video/internet format. The videos are presented to local interest groups and also made available for loan upon request. Videos are typically provided by ADEM, LEGACY, and other non-profit organizations. Video/internet media provided by the City over the past year include:

- *Stream Restoration Seminar, APWA* (December 2004)

### E. Public Presentations:

The City provides staff and/or resources to develop presentation materials for public meetings. Typically presentations are offered in Power Point format and the topics are chosen by the organization requesting the information.

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Five presentations were made during the second permit year. Presentations were given to various groups including Save our Saugahatchee (S.O.S.), AU Academy of Life Time Learners, City Council, City Planning Commission, the Alabama Water Environment Federation and local contractors and developers.

Presentations prepared and provided by City staff over the past year include:



- Alternative Best Management Practices for Post Construction Storm Water Control, S.O.S. (April 2004)
- Phase II Storm Water Program, Alabama Water Environment Federation (April 2004)
- Phase II Storm Water Program, AU Academy of Lifetime Learners (October 2004)
- City of Auburn Storm Water Management Program: A Review and Look Forward, City Council/Planning Commission (December 2004)
- City of Auburn Erosion and Sediment Control Workshop, Local contractors and developers (December 2004)

***F. Work Shops Hosted:***

In an effort to educate contractors, developers, engineers, and staff, the City initiated a series of workshops. The content of the workshops focused on local storm water issues of concern. Workshops hosted by the City over the past year include:

- City of Auburn Watershed Meeting (December 6, 2004) – The City of Auburn hosted a public meeting in which the City Council, Planning Commission, and Water Board Members met to discuss water related issues within the City of Auburn. The City’s Parks and Recreation Department spoke about the City’s current greenway plans, while the City’s Water and Sewer Board gave a presentation on the current state and future of the City of Auburn’s water supply. A faculty member from the Auburn University Department of Fisheries and Allied Aquaculture made a presentation on watershed issues and smart growth. The City of Auburn’s City Engineer and Assistant City Engineer concluded the meeting with a presentation on the City of Auburn’s storm water management program.

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- Erosion and Sediment Control Workshop (December 8, 2004) – The City of Auburn hosted its third annual Erosion and Sediment Control Workshop on December 8, 2004. The purpose of this workshop was to educate and inform engineers, developers and contractors of the City of Auburn’s Erosion and Sediment Control (ESC) Ordinance as well as the recent changes to the Ordinance that were adopted by the City Council. Representatives from the Alabama Department of Environmental Management (ADEM) gave a presentation on the problems ADEM inspectors are encountering in the field during their inspections. ADEM representatives also outlined some ways to prevent these problems and discussed ADEM’s enforcement actions for these type violations. City of Auburn personnel gave an overview of the City’s ESC Ordinance as well as the recent changes related to enforcement measures that were made to the Ordinance. Davies Erosion Control Services, Inc. and Erosion Control and Environmental Supply, Inc. provided exhibits of proper BMP installation practices as well as a presentation on new technology in the erosion and sediment control industry. Over 100 developers, contractors, and engineers attended the workshop.



### ***G. Composting & Recycling Center/Compost Demonstration Site***

The City of Auburn has been operating a curbside recycling program since 1998. In addition to the curbside recycling, the City maintains a drop-off center for recyclables. The Recycle Auburn Drop Off Center is located across from the Fleet Services Complex at 365-A North Donahue Drive. These operations allow citizens of Auburn to recycle their waste instead of disposing of it in the landfill.

In addition, the City maintains a Compost Demonstration Site that serves as an example of how homeowners can easily incorporate a home composition operation into a normal backyard setting. The site features six backyard compost units. The units range from a simple pile to a concrete bin.



The exhibits step the public through the process of how to compost and recycle materials for garden use and encourage these practices. For more information on recycling of waste please visit:

<http://www.auburnalabama.org/esd/esd.html>

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## VII. PUBLIC INVOLVEMENT/PARTICIPATION

### A. *Citizens Advisory Committee:*

Both EPA and ADEM recommend that the public be included in developing, implementing, and reviewing, storm water management programs through the establishment of a citizens advisory committee. Communities that allow citizens representing diverse backgrounds and interests to participate in such a committee are far more likely to gain community support through implementation.



**ALO A CITIZEN STORM WATER ADVISORY COMMITTEE** (2001-present) - **ALO A** is a Citizen Advisory Committee that serves the Auburn, Lee County, Opelika, and Auburn University. It meets on a quarterly basis to review and provide public input to current policies, brochure content, educational material, and proposed ordinances.

In 2004, the ALOA citizen advisory committee produced two brochures. The two brochures produced contained information on *Wetlands* and *Illicit Discharges*. These brochures are made available to the citizens of Auburn and can be obtained at the City Hall or the City's Development Services Building.

### B. *Watershed Organizations:*

Regional watershed organizations bring together representative from utilities, private industry, environmental awareness groups, farmers, and branches of government to coordinate individual efforts, share information, and plan for water resource and aquatic life protection. The regional approach allows participating entities to coordinate individual efforts in order to maximize limited resources.

**LOWER TALLAPOOSA RIVER BASIN/CLEAN WATER PARTNERSHIP** (2001-present) The City of Auburn actively participates in the partnership and on technical sub-committees to assist and guide the development of a watershed management plan. The organization meets on a quarterly basis. In 2004, as a member of the Clean Water Partnership, the City of Auburn assisted in the development of the Tallapoosa River Basin Watershed Management Plan. Currently, this Plan is in its final revision and can be downloaded from the Clean Water Partnership's website.



**SAUGAHATCHEE WATERSHED MANAGEMENT PLAN GROUP (SWAMP)** (February 2004 – present) Over the course of the past year, the City of Auburn has actively participated in the SWAMP group along with other stakeholders in the Saugahatchee

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Creek watershed to develop a watershed management plan for this watershed that encompasses parts of Lee, Macon and Tallapoosa counties. The stakeholder group is made up of representatives from the Cities of Auburn and Opelika, WestPoint Stevens Inc., MeadWestvaco Inc., Save Our Saugahatchee (S.O.S.), the Natural Resources Conservation Service (NRCS), the Alabama Cooperative Extension Service (ACES), the Lower Tallapoosa CWP, and Auburn University. The Plan will be finalized and submitted to the ADEM in March 2005. Implementation of the Plan will follow pending funding from the ADEM.

***C. City of Auburn Earth Week 2004: (April 12-17)***

The City of Auburn expanded its annual Earth Day celebration to a full week of activities in 2003. The theme for Earth Week 2004 was "PEACE, LOVE AND GREEN, Keep Auburn Clean!". The week began with activities for local Auburn city school children at the City's public library. The week was rounded out with a Boy Scout stream clean up of urban streams and a Household Hazardous Waste Collection Day. Additional activities were designed to raise environmental awareness and to provide all age groups in the community the opportunity to participate. Over 1,500 Auburn residents participated in the activities during the week. Earth Week activities included:



- House Hold Hazardous Waste Collection Day
- Earth Week Family Fun Run
- Children's Art Exhibit Opening and Reception
- Library Puppet Show
- Composting Workshop
- Educational Activities for 2nd Graders (NRCS-Enviroscape model, Auburn Water Board Wastewater-flocculation experiment, Auburn Animal Control-equipment exhibit, etc.).
- Boy Scout Creek Clean-up



**D. Web Site hot line:**



In an effort to provide the general public with an additional means of reporting discharges to storm sewers, the City launched the “On-Line Hot Line” in March 2003. Citizens now have the ability to log on to the web site 24 hours per day and provide information on suspected discharges. The information is forwarded to the Public Works Department and an investigation is initiated. The website hot line has proved to be a valuable tool over the course of the past year by assisting City personnel in responding to citizens concerns.

For more information on reporting discharges please visit:

<http://www.auburnalabama.org/pubworks/hotline.htm>

**E. Arbor Day Tree Give Away: (February 2004, December 2004)**

The planting of trees improves water quality by reducing storm water runoff and erosion. Trees allow more recharging of the ground water supply and facilitate nutrient removal from the environment. In celebration of Alabama’s Arbor Day and to encourage the reforestation of the City’s the urban landscape, the City’s Tree Commission sponsors a tree giveaway. The Commission gave away 500 Dogwoods, 500 White Oaks and 500 green ash trees in celebration of this past year’s Arbor Day. The City also gave away 600 Cherrybark Oaks and 1200 Dogwood trees at this past year’s Christmas parade.

**F. City of Auburn Citizen Survey: (August 2004)**

The citizen survey is an annual telephone/mail survey of a statistical cross section of randomly selected members of the community. The survey asks questions on issues of governmental performance and community priorities. The survey is a way of encouraging citizens to participate in local government. In 2004 the survey contained at least 10 questions that directly impacted storm water quality issues. The questions covered issues such as storm drainage system efficiencies, trash collection, yard waste disposal, recycling, natural resource protection, green space initiatives, and future growth planning. The City received a response from approximately 51% of the surveys mailed out to citizens in 2004.

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To view the Citizen survey please visit:

<http://www.auburnalabama.org/citizensurvey/default.htm>

***G. News Paper Articles: (March 2004-Present)***

Newspaper articles covering local storm water/environmental issues are one of the most effective means for disseminating information to a large and diverse group of residents most directly impacted by these issues. Informative articles provide the reader with an independent point of view. The reader is not forced to rely on information generated by a single source (i.e. City through the news letter “Open Line” or brochures).

The City of Auburn is fortunate to have a daily publication. The Opelika-Auburn News is a regional daily newspaper that covers local events and is widely read by residents of Lee County. Seventy-five (75) articles and editorials were published in the last year that directly dealt with storm water/environmental issues. A listing of articles and publication dates is included in Appendix C of this report.

***H. Greenspace/Greenway Master Plan (December 2003)***

The Auburn Greenspace Advisory Board (GAB) was created by City Council resolution in 2002. It’s objective was to identify potential areas for future property acquisitions for parks, recreation facility projects, and for greenways. Once identified these properties could be purchased and/or protected from development.

In 2003, the GAB recommended a Greenspace/Greenway Master Plan for the City of Auburn. It was adopted in December of 2003 by the City Council and has been utilized by the Planning Commission in connection with approval of projects. The GAB recently revised the initial Plan to include a vast expansion of the proposed greenspace/greenway areas. This first addition to the Greenspace/Greenway Master Plan was adopted by the City Council in October 2004.

This plan has resulted in the acquisition/protection of approximately 250 acres of property located in environmentally sensitive areas. In December 2004, a local developer donated approximately 32 acres to the City for use as greenspace/greenway property. The greenspace/greenway areas proposed include proposed bikeways and trails along existing and new roads and along waterways in the City of Auburn growth boundary. Areas along waterways may be improved with natural trails and will be developed by the dedication of conservation easements in developments or the acquisition of property by the City of Auburn. The properties have been set aside for future uses by the City as recommended by the GAB. A copy of the current Greenspace/Greenway Master Plan is included in Appendix D of this report.



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### ***I. Future Land Use Plan (2004)***

Due to the rapid development and increase in population within the City of Auburn, City personnel and Auburn citizens recently developed a Land Use Plan for future development and growth within the City. The Land Use Plan that was developed, and recently adopted by the City Council, focuses on a *City of Villages* concept. This Plan focuses on the concept that natural resource conservation is critical to our quality of life as a part of community planning and development. The plan establishes that residential growth focus on true neighborhoods that are part of larger “villages”. Villages will contain vital elements to citizens such as grocery stores, retail stores, green spaces, etc. In addition, open green spaces will be linked and tied in to the system of trails and greenspace areas created by the City’s Greenspace/Greenway Master Plan.

The Plan places a strong emphasis on maintaining and enhancing natural resources within the City of Auburn such as streams, greenspaces, etc. By concentrating populations within these village centers, less automobile traffic is required, impacts on natural resources are lessened, and other adverse environmental effects decrease. The Plan establishes the idea that development should be strategically placed away from our most critical resources. New ordinances based on the Land Use Plan will be developed in 2005.

### ***J. Lee County Water Festival (May 2004)***

On May 13<sup>th</sup>-14<sup>th</sup>, 2004, the first, of what is anticipated to be an annual event, Lee County Water Festival was held on the campus of Auburn University. Approximately 1,500 fourth graders from schools in the Lee County area attended the two-day event. The primary purpose of the event is to educate young people on the importance of our water resources and the role each of us play in conserving our water. During the event, students learned about water filtration, aquifers and the water cycle through hands-on activities such as building an edible aquifer, making a water cycle bracelet and building a mini-filtration unit. Volunteers from the City of Auburn, the City of Opelika and other local groups helped make this past year’s event a huge success. Planning is currently underway for the 2005 Water Festival, which is scheduled for May 12<sup>th</sup>-13<sup>th</sup> at Auburn University.

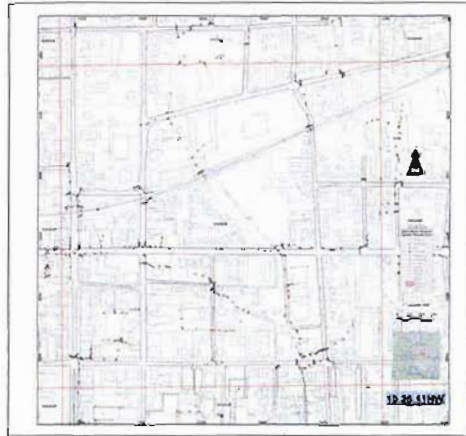


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## VIII. ILLICIT DISCHARGE DETECTION AND ELIMINATION

### A. *Storm Sewer Map*

The City of Auburn completed the initial mapping of its storm water system in 2003. The mapping is maintained in a Geographical Information Systems Database (GIS). The drainage area was divided into quarter section maps with a scale of 1"=100'. Detail information on pipe size, pipe material, direction of flow, inlets, manholes, bridges, box culverts, detention ponds, and headwalls are provided on the maps. Public Works maintains a plat book containing approximately 200 maps (36"x36"). The City will begin in 2005 an effort to collect more refined GIS data on its storm water conveyance system.



*Note: GIS files are updated on a regular basis as new work is added or as old work is modified to current standards. Latest revision to Maps can be obtained through the Public Works Department located at 171 North Ross Street.*

### B. *Illicit Discharge Ordinance: (January 2004)*

The Environmental Protection Agency (EPA) recommends municipalities implement an ordinance that provides the means to identify and enforce correction of illicit discharges.

In our NOI, submitted to ADEM in March of 2003, the stated goal was to develop and implement an Illicit Discharge Ordinance by December 2005. This goal was met two years ahead of schedule.



A draft copy of the Illicit Discharge Ordinance was reviewed by the *ALOA* Citizens Committee in November of 2003. A revised draft was forwarded to City Attorney and Municipal Judge for review in December of 2003. Auburn City Council adopted the Illicit Discharge Ordinance on January 20, 2004.

### C. *Public Education on Illicit Discharges & Improper Disposal: (March 2003 – present)*

The Alabama Clean Water Partnership in association with ADEM and other environmental groups have produced a series of public service announcements featuring the "Nerdy Man". The City of Auburn has obtained materials for

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distribution from the Clean Water Partnership and provides them to the public free of charge through its information centers located at City Hall and the Development Services Building.

***D. Inspection of Drainage System: (2003-present)***

The City Public Works Department conducts an annual inspection of its drainage system in order to maintain free flowing conditions. During this process, key stream sections, bridges, and culverts are inspected and routine maintenance is conducted. As areas are identified for maintenance, the work is listed on the maintenance schedule and a crew is assigned to perform the task.

***E. Detention Pond Inspections: (1997-present)***

Existing detention ponds need periodic inspections to maintain proper operation. Because vast quantities of storm water is collected and passed through these detention ponds every year, inspections of these facilities can identify potential problems and illicit discharges.



The Public Works Department conducts annual inspections of all detention ponds (public and private) listed in its storm water inventory. Upon inspection, the owner of the pond is notified of corrective action needed. Approximately one hundred and seventy (170) detention ponds are currently being inspected (January 2005 – February 2005).

***F. Hazardous Waste Emergency Response Team***

The City of Auburn has entered into an agreement with the City of Opelika to share some of the cost of operating an emergency response vehicle equipped to handle hazardous waste spills. The agreement provides the City of Auburn with the ability to properly identify and address hazardous or potentially hazardous spills (see NOI submittal Appendix B).

***G. Water Sampling Program (2004-present)***

In 2004, the City of Auburn began a water-sampling program in an effort to analyze the effectiveness of stormwater BMPs on active construction sites within the City. City of Auburn personnel are currently collecting water samples from Moores Mill Creek, Saugahatchee Creek and Parkersons Mill Creek. These samples are tested for stream turbidity. This data provides us with an indicator of the effectiveness of construction site BMPs. Where excessive increases occur downstream from a development, the City works with the developer to enhance measures to minimize the transport of sediment from the site.

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## **IX. CONSTRUCTION SITE STORM WATER RUNOFF CONTROL**

### ***A. Erosion and Sediment Control Ordinance (July 2002-present):***

The City of Auburn in conjunction with the City of Opelika and Auburn University has adopted the Erosion and Sediment Control Policy recommended by the Citizens Advisory Committee (ALOA). The policy provides for a regional set of rules that can be applied to contractors and developers.

In December 2004, the Auburn City Council approved additions to the City's Erosion and Sediment Control Ordinance to establish protocol for enforcement of the Ordinance and to enable City personnel to issue citations to developers/contractors in violation of the Ordinance.

### ***B. Erosion Control Checklist (January 2003-present):***

The City of Auburn Public Works Department in an effort to control erosion and minimize sedimentation originating from active construction sites, initiated a construction site inspection program. The inspection program is designed to identify deficiencies in erosion control and initiate corrective action. Nearly 300 site inspections were performed from March 2004 through March 2005. The City of Auburn revised its Erosion Control Checklist form in December 2004 and is currently in the process of updating its Microsoft Access Database to reflect the form changes. Data from the inspections is inputted into the database for processing. The City's Public Works Department maintains copies of the inspection reports.



Site ID	Inspector	Date	Score	Notes
101	J. Smith	3/15/04	85	Minor deficiencies noted
102	M. Jones	3/22/04	90	Good compliance
103	J. Smith	3/29/04	75	Major deficiencies noted
104	M. Jones	4/5/04	80	Minor deficiencies noted
105	J. Smith	4/12/04	88	Good compliance
106	M. Jones	4/19/04	78	Minor deficiencies noted
107	J. Smith	4/26/04	82	Good compliance
108	M. Jones	5/3/04	87	Good compliance
109	J. Smith	5/10/04	79	Minor deficiencies noted
110	M. Jones	5/17/04	84	Good compliance

### ***C. Erosion Control Residential (January 2003-present):***

The City of Auburn Codes and Enforcement Department conducts an initial site inspection for all building construction in Auburn. Lots requesting the initial inspection must have a construction entrance in place prior to authorizing foundation construction. Deficiencies noted during the initial inspection are relayed to the building permit applicant for correction.

Beginning in August of 2003 the City of Auburn Codes and Enforcement Department started maintaining a data base of complaints received associated with erosion resulting from residential construction. The complaints are routed to enforcement officers who investigate the complaint and pursue corrective actions with responsible parties.

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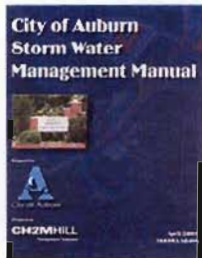
***D. Added Elements to Erosion and Sediment Control(December 2004-present)***

In an effort to utilize the latest in erosion and sediment control technology, the City of Auburn has begun recommending that engineers consider the use of polyacrylamide (PAM) and other flocculants on certain developments within the City of Auburn. PAM is essentially a soil stabilization BMP. Flocculants work to settle out solids from turbid water and aid in stabilizing soils to support grass seed so that a suitable vegetative buffer may be established. The City is currently evaluating the effectiveness of these BMPs and will consider requiring on erosion and sediment control plans submitted to the City if deemed successful.

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## **X. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**

### ***A. Storm Water Management Manual (April 2003):***



In April of 2003, the City of Auburn published an Engineering Design Manual that effectively addresses storm water runoff controls required for sites greater than one acre. The manual identifies project requirements and specification for new infrastructure. The manual also addresses the requirement for storm water system sizing and storm water runoff control/detention. During its first full year of implementation, the Manual has proved to be a very successful tool for the City and

developers.

### ***B. Buffer Zones (July 2002)***

As part of the Erosion and Sediment Control Ordinance adopted by Council in July 2002, a minimum 25 foot minimum vegetative buffer zone is required for new developments on "blue line" streams and creeks identified on USGS 7.5 minute topographic maps.

### ***C. Detention Pond Inspections (1997-present)***

Existing detention ponds need periodic inspections to maintain proper operation. Because vast quantities of storm water is collected and passed through these detention ponds every year, inspections of these facilities can identify potential problems and illicit discharges.

The Public Works Department conducts annual inspections of all detention ponds (public and private) listed in its storm water inventory. Upon inspection, the owner of the pond is notified of corrective action needed. Approximately one hundred and seventy (170) detention ponds are currently being inspected (January 2005-February 2005).

### ***D. Right-of-Way Vegetation Program (2003-present)***

Proper repair and maintenance of existing rights-of-ways provides a significant benefit to storm water quality. The City initiated a program to establish vegetative cover (grass, trees, shrubs, or wildflowers) on rights-of-ways where vegetation had previously failed to be established. In 2003



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approximately 5 acres of right-of-way was grassed in various sections of the city.

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## **XI. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS**

### ***A. Construction Site Management Training (March 2004-present):***

The City of Auburn continues to develop a training program that provides the Public Works Department and other city departments with information on the proper methods for implementing site control measures on all municipal projects (see Public Education and Outreach on Storm Water Impacts).

Training opportunities included:

- Erosion and Sediment Control Workshop (December 8, 2004) – The City of Auburn hosted a workshop for developers, contractors, and engineers to discuss the City’s Erosion and Sediment Control Ordinance and the recent changes to the Ordinance adopted by City Council. Over one hundred (100) developers, contractors and City personnel attended the workshop.
- City of Auburn Watershed Meeting (December 6, 2004) – The City of Auburn hosted a public meeting in which the City Council, Planning Commission and Water Board members met to discuss water related issues within the City of Auburn. Presentations were given on the City’s greenspace/greenway program, the current and future state of the City’s water supply, watershed issues within the City and Smart Growth, and the City’s storm water management program.
- Nonpoint Education for Municipal Officials (NEMO) workshop (November 17-18, 2004) –The NEMO workshop is a training seminar sponsored by the ADEM and the Southeast Watershed Forum. The two day course focused on watershed issues and how urban development impacts our watersheds. Smart Growth Alternatives were discussed and analyzed by those attending the course. One (1) City employee received a training certificate from the course.
- Porous Asphalt Pavement Seminar (November 1, 2004) – The seminar was conducted in Atlanta and provided attendees with an overview of hydraulics and hydrology in addition to a full day summary of the design and construction of porous pavement installations. The seminar reviewed design considerations for traffic, subgrade, and asphalt mix. Also reviewed were considerations for construction and maintenance. One (1) City personnel attended the seminar.
- Chemical Spill Response Training (February 17, 2005) – The seminar focused on regulations regarding the handling and control of petroleum based spills as



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well as chemical and pesticide spills. Information was also presented concerning the responsibilities and liabilities incurred when dealing with these spills. Two (2) City personnel attended the one-day training seminar.

***B. Spill Response and Prevention Training (2004 – present):***

As outlined in the NOI, the City of Auburn is currently in the process of developing an in-house spill response training program. The program will be targeted to employees that work on a day-to-day basis with fuels (i.e. Construction Maintenance workers). Training sessions are planned for the spring of 2005. In addition, two (2) city personnel attended a one-day seminar in February, 2005 that focused on the regulations regarding the handling and control of petroleum based and chemical spills.

***C. Risk Management Manual (March 2004 – present):***

The City of Auburn Human Resources Department has developed a manual outlining specific requirements/policies for dealing with hazardous chemicals. Topic 12 (titled *Hazard Communication Program*) of the City's Risk Management Manual specifically requires City personnel to inventory, label, and receive training on hazardous chemicals identified. Material Safety Data Sheets (MSDS) identifying personal protective equipment, permissible exposure limits (PEL), and Threshold Limit Values (TVL) are required for all hazardous chemicals identified during the inventory process. The Hazard Communication Program was adopted as part of the Risk Management Manual in January 2004.

***D. Municipal Operations Recycling (1998-present):***

It has been standard policy to require individual Departments to participate in the City's recycling program. Recyclable waste generated through City activities is collected and processed through the City's recycling center located on Donahue Drive.

***E. Street Sweeping***

The City of Auburn operates a street sweeping program designed to keep litter from entering the storm drainage system. The streets in the City are divided into four (4) grids. The grids are swept on a weekly basis with the entire route completed at the end of a 4 week period. Not all of the streets in a grid are swept, main traffic routes, arterials, and collectors are maintained on a regular interval. Local streets or streets with low traffic volumes are swept as needed. See Appendix F for grid layout of sweeping program.

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***F. Alabama Certified Pesticides Applicator***

The City's Parks and Recreation Department maintains trained and certified personnel in the application of pesticides, including restricted use pesticides. Although qualified to do so, the Parks and Recreation Department has not employed any restricted use pesticides in the previous decade. In order to maintain the certification with the state of Alabama, the staff must document and complete 30 continuing education units (CEU) over a three-year period. CEUs are earned at various conferences and workshops such as the Alabama Turfgrass Conference, Alabama Highway Department workshops, Sports Turf Short Course, Alabama Urban Forestry Associations Annual Conference. The CEUs cover not only the application of pesticides; they also provide information on the proper use of fertilizers and other chemicals typically used to maintain athletic fields.

Currently the City has two (2) Alabama Certified Pesticide Applicators on staff.

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## **XII. STORM WATER INFRASTRUCTURE IMPROVEMENTS**

In 2004 the City of Auburn Public Works Department continued to make considerable progress toward completing a priority listing of storm water improvement projects outlined in the City's Storm Water Master Plan (2000).

### ***A. Storm Water Infrastructure Projects Completed (January 2004-present)***

Projects completed in permit year two include:

- Felton Little Regional Detention Pond – Project included the construction of a regional detention facility at the City's Felton Little Park located on Glenn Avenue. The purpose of the detention facility is to prevent flooding along Glenn Avenue near the Park. Construction of the pond was completed in December 2004. The project was funded through a grant received from the Federal Emergency Management Agency (FEMA).

### ***B. Storm Water Infrastructure Projects Under Construction***

Projects currently under construction include:

Town Creek Regional Detention Pond – Project involves the construction of a regional detention pond at the tail end of an existing wetland that has the capacity of controlling and improving storm water quality runoff from a 400 + acre urban watershed.

### ***C. Storm Water Infrastructure Projects Under Design and Consideration:***

- Samford Regional Detention Pond
- Streambank and Wetland Restoration and Mitigation Feasibility for Lake Wilmore Property
- Town Creek Greenway

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### **XIII. PROGRAM EVALUATION**

The assessment of the second permit year of the City of Auburn's Storm Water Management Program continues to be a positive impact on storm water management in the City. The goals outlined in the City's Notice of Intent have been achieved.

The City of Auburn has tightened requirements of its construction storm water management by empowering staff to issue citations and otherwise stop work in the case where BMPs are not implemented or deemed deficient. The City has continued to invest staff time and money into the continuing education and outreach and public involvement associated with the Storm Water Management Program. The City has met or exceeded its goals this year.

The overall evaluation of the second permit year has revealed several strengths and weaknesses in the program.

#### **A. *Strengths***

Identified strengths of the program include increased enforcement of erosion and sediment control requirements, local environmental groups, concerned citizens, and proactive City management.

- The construction storm water management program has been enhanced by the City of Auburn City Council passing an ordinance to increase the staff's ability to issue citations to those violating the erosion and sediment control ordinance. The City has increased its presence in the inspection and enforcement of erosion and sediment control measures on construction sites. The result has been positive as more sites are implementing measures to minimize erosion and sediment control in a more timely manner.
- As indicated in our Year One Report, local environmental awareness groups such as Alabama Water Watch, Save our Sougahatchee (S.O.S.), Friends of Chewacla, and the Lower Tallapoosa Stake Holders Committee provide tremendous amounts of encouragement for environmental projects. The groups provide a network of qualified professionals that can be called upon to assist in the analysis of problems and the development of solutions. Some of the groups conduct much needed water analysis that can establish base line conditions and predict trends. This network will continue to develop the City's program into a strong tool to manage storm water issues.
- The City has developed a means through the internet, e-mail, and phone to receive calls on issues and offer a quick response to calls concerning storm water management and erosion and sediment control.

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- As indicated in the Year One Report, city management continues to be proactive in establishing a community in which residents can participate in guiding the future growth. Community participation on future land use planning and annual surveys are just a few of the many ways in which the storm water program directly benefits from a proactive City government.

### ***B. Weaknesses***

While great improvements have been observed in the past year, the weaknesses in the storm water management program are education, funding, enforcement, and interdepartmental coordination.

- Proper education and training of the construction community is the prime weakness in the current system. Construction contractors have not yet mastered the proper installation and maintenance of BMPs nor the understanding of the value of these measures. The City has taken some significant measures to bridge the gap with several educational opportunities as documented in this report as well as providing more time up front in plan review and pre-construction meetings. The developer, engineer, contractor team needs to work together in a more concerted effort to provide the technical oversight, proper implementation, and proper inspection and maintenance of construction BMPs.
- Funding of the Phase II Storm Water Regulation requirements has been an issue since the rule went into effect. Without proper funding the future implementation of required components (i.e. monitoring) cannot be accomplished.
- Enforcement of newly implemented rules, regulations, and ordinances has continued to improve. Informing the building community of rule changes and new ordinances will also continue for the next few years. Although gradual improvement in compliance has been documented, non-compliant sites requiring enforcement actions such as stop work orders continue. This issue is expected to improve over time similar to that documented by Phase I cities that have been dealing with the issue for years.
- The City continues to educate staff from all departments concerning the Storm Water Management program. We have improved our integrated effort to monitor the City's storm water system and especially erosion and sediment control. The City continues to meet with inspection staff periodically and develop simplistic means to assist our staff in supporting the City's Program.

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**APPENDIX A**

**ALABAMA NOTICE OF INTENT (ALNOI)**

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City of Auburn

**Alabama Notice of Intent (ALNOI)**

General permit for Phase II Small Municipal Separate Storm Sewer Systems (MS4)

March 2003

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STATE OF ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

ALABAMA NOTICE OF INTENT (ALNOI)

General Permit for Phase II Small Municipal Separate Storm Sewer Systems (MS4)

I. General Information:

A. Ownership Status (Please check one):

- Small Municipal Separate Storm Sewer System
- Federal Facility
- State Facility

B. Name of Small MS4: ***The City of Auburn***

C. Name of Responsible Official: ***Bill Ham, Jr.***

Title: ***Mayor***

Mailing Address: ***144 Tichenor Avenue***

City: ***Auburn*** State: ***AL*** Zip Code: ***36832***

Telephone Number: ***(334)501 - 7260***

D. Designated storm water management program contact:

Name: ***Tim Logiotatos***

Title: ***Assistant City Engineer/Environmental***

Mailing Address: ***171 North Ross Street***

City: ***Auburn*** State: ***AL*** Zip Code: ***36832***

Telephone Number: ***(334) 501 - 3000***

Email Address: ***tlogiotatos@auburnalabama.org***

II. Location/Boundaries:

A. Location:

1. Name of Urbanized Area or municipality where your MS4 is located:

***Auburn, AL***

2. Name of your

Organization: ***The City of Auburn***

3. The latitude and longitude of the approximate center of your MS4:

Latitude ***764440.25*** Longitude ***766458.96***

***Note:*** *Approximate center of MS4 is the intersection of Magnolia Avenue and College Street. Latitude and Longitude are in State Plane Coordinate System.*

4. All entities except counties must include a location map showing city, town, or district boundaries, and urbanized area (UA) boundaries, if part(s) of the MS4 is within a UA.

**See Appendix G**

5. Counties must include a map showing county boundaries, unincorporated area boundaries within the county, and urbanized (UA) boundaries.

**III. Known or Suspected Water Quality Problems:**

- A. The names(s) of the receiving water to which your MS4 discharges (attach a separate list if necessary):

***The City of Auburn discharges into Sogauhatchee Creek (North), Moores Mill Creek (south East), Chewacla Creek (south) and Barkersons Mill Creek (South West).***

- B. Indicate any receiving water stream segments to which your MS4 discharges, which are included on the 303(d) list:

***Moores Mill Creek was placed on the draft 303(d) list in 1998 and was listed on the final 2002 303(d) list.***

- C. Describe any known or suspected water quality concerns within your jurisdictional area (e.g. stream siltation, 303(d) listed streams, habitat degradation, elevated levels of pollutants, etc.), including location (attach additional page(s) if necessary):

***Stream siltation and sedimentation derived from development are the known water quality concerns within the jurisdictional area.***

**IV. Sharing Responsibility**

- A. Has another entity agreed to implement a control measure on your behalf?  
Yes  No (if no, Skip to Part III)

**Control Measure #1: *Illicit Discharge Detection and Elimination***

1. Name of entity: ***The City of Opelika***
2. Control measure or component of control measure to be implemented by entity on your behalf:

***The City of Auburn has entered into an agreement with the City of Opelika to share some of the cost of operating an emergency response vehicle equipped to handle hazardous waste spills. The agreement provides the City of Auburn with the ability to properly***

**identify and address hazardous or potentially hazardous spills (see Appendix H).**

- B. Attach an additional page if necessary to list additional shared responsibilities.

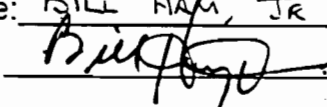
**It is mandatory that you submit a copy of a written agreement between your MS4 and the other entity demonstrating written acceptance of responsibility.**

**V. Minimum Control Measures:**

- A. Public Education and Outreach – (complete Appendix A)
- B. Public Involvement/Participation – (complete Appendix B)
- C. Illicit Discharge Detection and Elimination – (complete Appendix C)
- D. Construction Site Storm Water Runoff Control – (refer to Appendix D)
- E. Post-construction Storm Water Management in New Development and Redevelopment – (complete Appendix E)
- F. Pollution Prevention/Good Housekeeping – (complete Appendix F)

**VI. Certification Statement**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Bill Ham, Jr Date 03/04/03  
Signature:  Title Mayor

## Appendix A

### Public Education and Outreach on Storm Water Impacts

40 CFR Part 122.34(b)(1) Requirement: You must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

A. Best Management Practice (BMP) # 1: Messages/Articles in City News Letter "Open Line"

1. Known or suspected problem/existing pollutant source to be addressed by BMP: **Storm Water Runoff**
2. Target audience: **Citizens**
3. Description of BMP: **Messages/Articles in the City News Letter "Open Line"**
4. Measurable Goal(s): **Two Messages/Articles per year for duration of permit period**
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: **2003**
  - c. Frequency of actions: **Bi-annual**
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: **Tim Logiotatos/Public Works Department**
7. Rational for selecting this BMP:

**"Open Line" is the City's news letter that is sent out through the utility bill. No other publication is as widely read within the City Limits and an article or message in this document will reach the most diverse group of citizens.**

**B. Best Management Practice (BMP) # 2: Pamphlets/Brochures**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/Quality***
2. Target audience: ***Citizens, Contractors, Developers, and Engineers***
3. Description of BMP: ***Pamphlets and Brochures***
4. Measurable Goal(s): ***Develop, Produce, and Distribute two Pamphlets/Brochures per year for duration of Permit Period***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***2003***
  - c. Frequency of actions: ***Bi-annual!***
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: ***Tim Logiotatos/Public Works Department***
7. Rational for selecting this BMP:

***Pamphlets and brochures are an effective way to present and explain a storm water message. Unlike other communication vehicles, pamphlets and brochures can be distributed in many places without requiring staffing and the location of distribution can specifically target the audience you are trying to reach (i.e. Development Services Building/Office of Codes and Enforcement).***

**C. Best Management Practice (BMP) # 3: Internet Web Page**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Construction Runoff/Storm Water Quality***
2. Target audience: ***Community***
3. Description of BMP: ***Municipal Web Page***
4. Measurable Goal(s): ***Develop and post web page containing storm water information and links.***
5. Schedule:
  - a. Interim Milestone Dates: ***Develop Web Page 2003***
  - b. Implementation Date: ***Post Web Page 2004***
  - c. Frequency of actions: (if applicable)
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: ***Tim Logiotatos/Public Works Department***
7. Rational for selecting this BMP:

***The City's web page is a place where citizens often go to obtain information on local events. A section of the web page can be modified to target various audiences (contractors, engineers, local interest groups, etc.). It also allows the City to link to existing web sites (i.e. ADEM and EPA) for the latest educational information provided by these agencies for our use.***

**Note: The MS4 is not limited to implementing only 2 BMPs for each minimum control measure. If additional BMPs are chosen, then you should attach additional sheets as needed.**

## Appendix B

### Public Involvement/Participation

40 CFR Part 122.34(b)(2) Requirement: You must, at a minimum, comply with State, Tribal, and local public notice requirements when implementing a public involvement/participation program.

**A. Best Management Practice (BMP) # 1: Formation of a Citizens Advisory Committee**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/Quality***
2. Target audience: ***Community***
3. Description of BMP: ***Formation of a Citizens Advisory Committee***
4. Measurable Goal(s): ***Organize a regional Citizens Advisory Committee representing various segments of the community to offer recommendations to facilitate implementation of the Storm Water Management Program. Regional representatives include members City of Auburn, Lee County, City of Opelika, and Auburn University.***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***The ALOA Citizens Advisory Committee was organized in 2001. It is comprised of various segments of the community including local environmental interest groups.***
  - c. Frequency of actions: ***The ALOA Citizens Advisory Committee meets on a quarterly basis.***
  - d. Month/Year of each action: ***The ALOA Citizens Advisory Committee is scheduled to meet on a quarterly basis for the duration of the permit period (5 years).***
6. Person (position) responsible for overall management and implementation of the BMP: ***All members of ALOA (City of Auburn, Lee County, City of Opelika, and Auburn University) are committed to fostering and maintaining the organization.***
7. Rational for selecting this BMP:  
***EPA and ADEM recommend that the public be included in developing, implementing, and reviewing storm water management***

*programs. This committee allows individuals to participate in the discussions regarding program implementation. The committee also has direct input into policy implementation for regional storm water issues.*

**B. Best Management Practice (BMP) # 2: Watershed Organization “Lower Tallapoosa River Basin/Clean Water Partnership”**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/ Quality***
2. Target audience: ***Community***
3. Description of BMP: ***The partnership is part of a state-wide river basin management initiative to link local basin management efforts in order to maximize resources, to develop comprehensive management plans, and to involve citizens in watershed protection***
4. Measurable Goal(s): ***Coordinate with the Clean Water Partnership to develop a watershed management plan. Work with the Clean Water Partnership’s and ADEM’s Education/Outreach initiative to improve awareness of water quality issues.***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***The City of Auburn is currently a participant on the Lower Tallapoosa Technical Committee.***
  - c. Frequency of actions: ***Meetings are held on a quarterly basis.***
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: ***Tim Logiotatos/Public Works Department***
7. Rational for selecting this BMP:  
***The Partnership brings together representatives from utilities, private industries, environmental groups, farmers, and branches of government to coordinate their individual efforts, share information, and plan for water resource and aquatic life protection. This organization allows for the group to maximize resources available and to involve the public in protecting the environment.***

**Note: The MS4 is not limited to implementing only 2 BMPs for each minimum control measure. If additional BMPs are chosen, then you should attach additional sheets as needed.**



## Appendix C

### Illicit Discharge Detection and Elimination

**40 CFR Part 122.34(b)(3) Requirement:** You must develop, implement and enforce a program to detect and eliminate illicit discharges into you small MS4. You must:

- A). Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the state that receive discharges from those outfalls;
- B). Effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into your storm sewer system and implement appropriate enforcement procedures and actions;
- C). Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to your system; and
- D). Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

#### **A. Storm Sewer Map**

1. Does the MS4 have a completed storm sewer map showing the location of all outfalls and the names and locations of all waters of the State that receive discharges from those outfalls? Yes X No
2. If yes submit storm sewer system map as an addendum to this form.

***The City of Auburn has mapped its storm water system in a Geographical Information Systems Database (GIS). The attached 27" x 36" drainage map is a hard copy depiction of the entire system and its outfalls. Detail information on pipe size, pipe material, direction of flow, inlets, manholes, bridges, box culverts, detention ponds, and headwalls are provided on quarter section maps. Quarter section maps (1"=100' scale) allow the space necessary to illustrate these details without clutter. In Attachment I please find: a hard copy (27" x 36") Master Drainage Map, an example of one of the 36" x 36" quarter section maps, and the electronic files for the Master Drainage Map and all of the approximately 120 quarter section detail maps for your review.***

***Note: GIS files are updated on a daily basis as new work is added or as old work is modified to current standards. Latest revision to Maps can be obtained through the Public Works Department located at 171 North Ross Street.***

3. If the storm sewer system map must be developed, provide a schedule for completion (e.g. 30% of system to be mapped each year):

<u>Task</u>	<u>Interim Date</u>
_____	_____
_____	_____
_____	_____

Final completion date/ date for submittal to ADEM (No later than December 9, 2006): \_\_\_\_\_

**8. Ordinance/Regulatory Mechanism Evaluation:**

1. Does the MS4 have an ordinance or regulatory mechanism that effectively prohibits illicit discharges? Yes \_\_\_\_\_ No  X

If yes, submit a copy as an addendum to this form.

2. If an evaluation of the ordinance/regulatory mechanism must be completed, or the MS4 is aware that the ordinance/regulatory mechanism will require revision, then a schedule for development of the document should be provided:

<u>Task</u>	<u>Interim Date</u>
<u>Review Ordinance Material</u>	<u>Dec 9 2003</u>
<u>Draft Ordinance</u>	<u>Dec 9 2004</u>
<u>Adopt Ordinance</u>	<u>Dec 9 2005</u>

Final completion date/ date for submittal to ADEM (No later than December 9, 2006): \_\_\_\_\_

C. **Best Management Practice (BMP) # 1: Public Education on Illicit Discharges & Improper Disposal**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Discharges***
2. Target audience: Citizens
3. Description of BMP: ***The Clean Water Partnership in association with ADEM and other environmental groups have produced a series of public service announcements featuring the "Nerdy Man". These spots inform the public of the do's and don'ts of proper disposal.***
4. Measurable Goal(s): ***Coordinate with Clean Water Partnership to obtain public service announcements and videos (e.g. "The Nerdy Man" videos) for public use locally.***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***Dec 9 2003***
  - c. Frequency of actions: ***Provide public access to information and materials year round***
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: ***Tim Logiotatos/ Public Works Department***
7. Rational for selecting this BMP:

***The Clean Water Partnership provides the videos and training materials in an effort to educate the public. Use of the videos and other materials allows the city to provide education that could prevent an illicit discharge ( like proper disposal of oil). The materials have been produced through the assistance of various environmental agencies and are geared toward the general public.***

D. **Best Management Practice (BMP) # 2: Inspection of Drainage System**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/Quality***
2. Target audience: ***Public Works***
3. Description of BMP: ***Inspect drainage system and outfalls***
4. Measurable Goal(s): ***Inspect drainage system and outfalls prior to start of rainy season. Document illicit discharges uncovered during inspections and schedule for remediation.***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***Dec 5 2001***
  - c. Frequency of actions: ***Annually***
  - d. Month/Year of each action: ***November - February***
6. Person (position) responsible for overall management and implementation of the BMP: ***Robert Smith/Assistant Public Works Director***
7. Rational for selecting this BMP:

***Annual inspections of the City's drainage system are conducted in order to maintain free flowing conditions. During this process, key stream sections, bridges, and culverts are inspected and routine maintenance is conducted. Routine maintenance includes repair of the structure and/or removing litter and debris that has accumulated over the preceding year. The removal and inspection of debris from these catch points can provide the City with valuable information locating, premeditating, and eliminating illicit discharges.***

Note: The MS4 is not limited to implementing only 2 BMPs for each minimum control measure. If additional BMPs are chosen, then you should attach additional sheets as needed.

## Appendix D

### Construction Site Storm Water Runoff Control

ADEM Admin. Code Ch. 335-6-12 implements a State-wide construction storm water regulatory program consistent with NPDES requirements for construction activities. As provided by 40 CFR Part 122.35(b), this NOI does not require an MS4 to implement a local construction storm water control program.

***The City of Auburn in conjunction with the City of Opelika and Auburn University has adopted the Erosion and Sediment Control recommended to it by the Citizens Advisory Committee (ALOA). The implementation of this regional Policy began in July 2002 (See Appendix J).***

## Appendix E

### Post-construction Storm Water Management in New Development and Redevelopment

40 CFR Part 122.34(b)(5) Requirement: You must develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into your small MS4. You must:

- A). Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for you community.
- B). Use an ordinance or other regulatory mechanism to address post construction runoff from new development or redevelopment projects; and
- C). Ensure adequate long-term operation and maintenance of BMPs.

#### A. Ordinance Evaluation

1. Does the MS4 have an ordinance that effectively controls runoff from new development or redevelopment construction site?

Yes  X  No  \_\_\_

If yes, submit a copy as an addendum to this form.

***The City of Auburn has developed an Engineering Design Manual that effectively addresses storm water runoff controls required for sites greater than one acre. The manual specifically addresses the requirement for storm water system sizing and storm water runoff control/detention (see Attachment K).***

2. If an evaluation of the ordinance must be completed, or the MS4 is aware that the ordinance will require revision, then a schedule for development of the document should be provided:

<u>Task</u>	<u>Interim Date</u>
_____	_____
_____	_____
_____	_____

Final completion date/ date for submittal to ADEM (No later than December 9, 2006): \_\_\_\_\_

**B. Best Management Practice (BMP) #1: Buffer Zone**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/Quality***
2. Target audience: ***Citizens***
3. Description of BMP: ***25 foot minimum vegetative buffer zones***
4. Measurable Goal(s): ***Require new developments to provide buffer zones to protect "blue line" streams and creeks identified on USGS 7.5 minute topographic maps.***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***July 2002***
  - c. Frequency of actions (if applicable)
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: ***City of Auburn Planning Commission***
7. Rational for selecting this BMP:

***Buffer zones provide for stream bank protection by restricting the type of land disturbance in and around streams. They also allow a location for stream bank vegetation to grow providing shade and habitat for aquatic life.***

**C. Best Management Practice (BMP) # 2: Detention Pond Inspection**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: Storm Water Runoff/Quality
2. Target audience: Private and Public Detention Pond Owners
3. Description of BMP: Annual inspections of exiting detention ponds.
4. Measurable Goal(s): Inspect private and public storm water detention ponds (on record with Public Works) annually
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: **1997**
  - c. Frequency of actions: **Annually**
  - d. Month/Year of each action: (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: **Tim Logiotatos/Public Works**
7. Rational for selecting this BMP:

***Existing detention ponds need periodic inspections to maintain proper operation. Upon inspection, the owner of the pond is notified of corrective action needed. Because vast quantities of storm water are passed through these detention ponds every year, regular inspections identify potential problems before they create major environmental damage.***



## Appendix F

### Pollution Prevention/Good Housekeeping for Municipal Operations

40 CFR Part 122.34(b)(6) Requirement: You must develop and implement an operation and maintenance program that includes training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

#### A. Best Management Practice (BMP) # 1: Construction Site Management Training

1. Known or suspected problem/existing pollutant source to be addressed by BMP: **Storm Water Runoff/Quality**
2. Target audience: **Public Works Employees**
3. Description of BMP: **Construction Site Management Training**
4. Measurable Goal(s): **Develop and implement training that provides the Public Works department the guidance on how to implement site control measures on all municipal projects.**
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: **2003**
  - c. Frequency of actions: **Annual**
  - d. Month/Year of each action (if applicable)
6. Person (position) responsible for overall management and implementation of the BMP: **Tim Logiotatos/Public Works Department**
7. Rational for selecting this BMP:

**Providing training to employees will allow the City to better control runoff from municipal construction project sites. Training of construction design personnel will help to develop the skills necessary to choose and implement the most effective Best Management Practices (BMPs).**

**B. Best Management Practice (BMP) # 2: Spill Response and Prevention Training**

1. Known or suspected problem/existing pollutant source to be addressed by BMP: ***Storm Water Runoff/Quality***
2. Target audience: ***Public Works Employees***
3. Description of BMP: ***Provide training to public works employees for spill response and prevention***
4. Measurable Goal(s): ***Develop and implement training program targeted at spill response and prevention***
5. Schedule:
  - a. Interim Milestone Dates (if applicable)
  - b. Implementation Date: ***Develop program 2003***
  - c. Frequency of actions: ***Annual training starting in 2004***
  - d. Month/Year of each action: ***January - March***
6. Person (position) responsible for overall management and implementation of the BMP: ***Tim Logiotatos/Public Works***
7. Rational for selecting this BMP:

***Spill prevention training is targeted at public works employees. It will have the most impact when it comes to preventing and controlling spills of non-hazardous materials since the first responders to a spill are typically Public Works work crews. Hazardous materials will be addressed through our agreement with the Opelika Fire Department.***

Notes:

For the BMP used to describe the required training component of the O&M program, you should provide the name of the target audience(s). One targeted audience must be the MS4 employees.

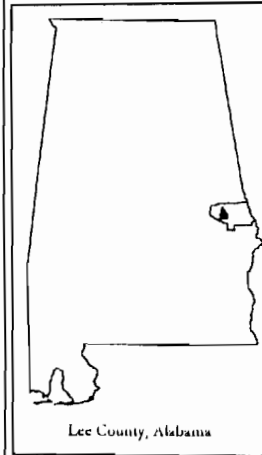
The MS4 is not limited to implementing only 2 BMPs for each minimum control measure. If additional BMPs are chosen, then you should attach additional sheets as needed.

**Appendix G**

**City of Auburn Location Map**

March 2003

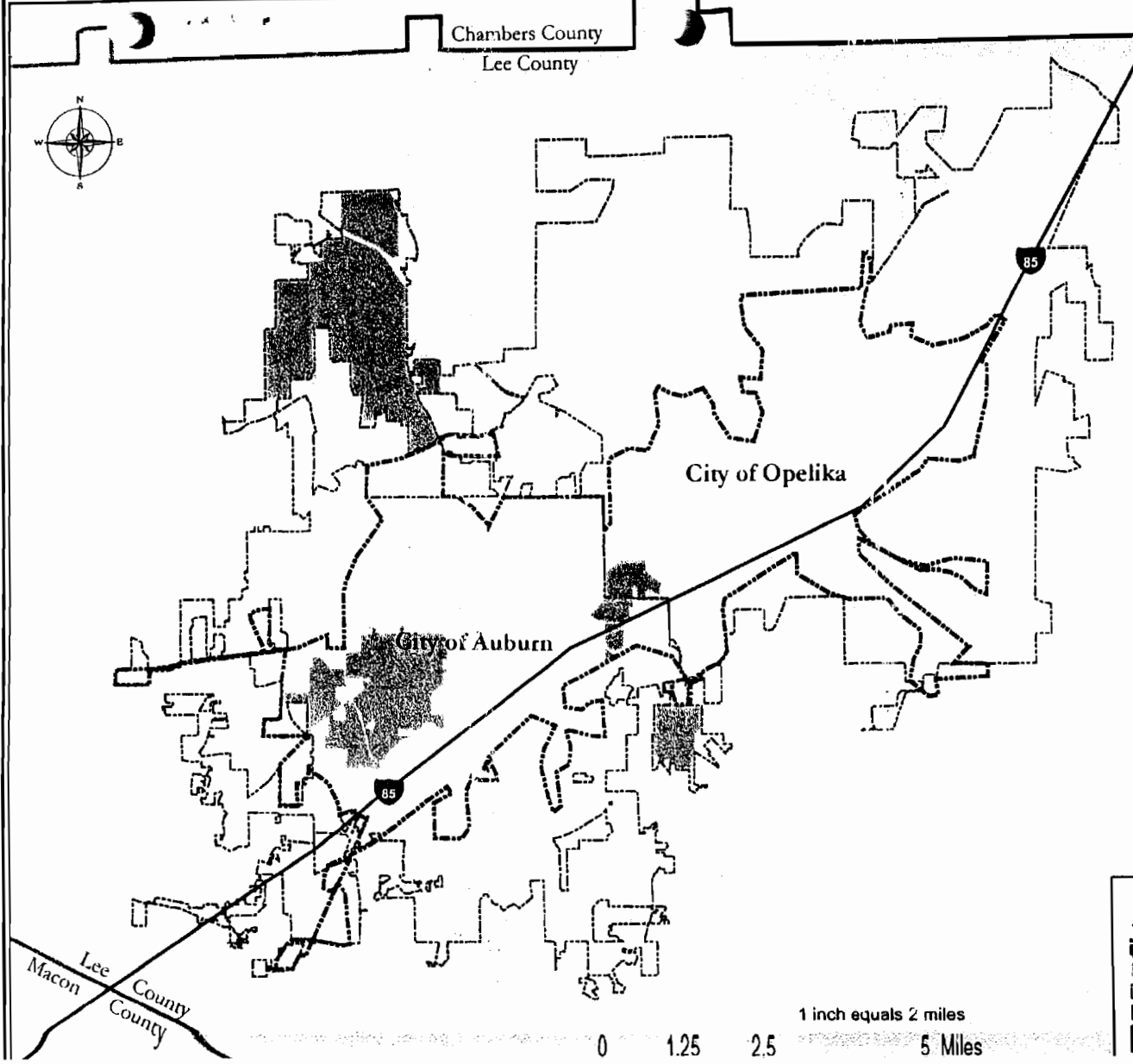
Urbanized Area  
Location Map



Source:  
US Census Bureau:  
Cartographic Boundary Files -  
Urbanized Areas, (Census 2000)  
and Incorporated Places,  
(Census 2000)

**Legend**

- Interstate 85
- Urbanized Area (Auburn, AL)
- Auburn University Property
- Opelika City Limits
- Auburn City Limits
- Lee County



**Appendix H**

**Lee County Emergency Operations Plan**  
**Emergency Support Function #10 Hazardous Materials**

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**EMERGENCY SUPPORT FUNCTION #10 (ESF#10)**

**HAZARDOUS MATERIALS**

**COORDINATING AGENCIES:**

Opelika Fire Department  
 Auburn fire Division  
 Seven Fire Districts with Associated Volunteer Fire Departments  
 County/City Public Works Directors  
 Sheriffs Department  
 Opelika Police Department  
 Auburn Police Division

***INTRODUCTION***

***A. Purpose***

The purpose of this Hazardous Materials Annex is to provide guidance for county operations in response to emergencies resulting from the manufacture, use, storage, and transfer of hazardous materials in and through Lee County; to describe the specific roles and responsibilities of first responders utilizing a standardized Incident Command System; and to coordinate the emergency response capabilities of local, state, and federal agencies, adjacent jurisdictions, private industry and volunteers.

***B. Scope***

ESF #10 provides for a coordinated, effective, and efficient response to discharges and releases of hazardous materials by placing human, financial, and material resources into action in the impacted area. This ESF establishes lead coordination roles and division and specification of responsibilities among state agencies that may be brought to bear in response actions. This ESF is applicable to all organizations with responsibilities and assets to support the local response to actual and potential discharges and releases of hazardous materials.

***C. Situation***

1. Lee County is at risk from the transport, use manufacture and storage of hazardous materials at facilities within the County. A natural or other catastrophic disaster could result in numerous situations in which hazardous materials are released into the environment. Fixed facilities (e.g., chemical plants, tank farms, laboratories, operating hazardous waste sites) which produce, generate, use, store, or dispose hazardous materials could be damaged so severely that existing spill control apparatus and containment measures are not effective. Hazardous materials that are transported may be involved in rail accidents, highway collisions, or waterway mishaps. Abandoned hazardous waste sites could be damaged, causing further This degradation of holding

ponds, tanks, and drums. The damage to or rupture of pipelines transporting materials that are hazardous if improperly released will present serious problems.

2. A hazardous materials incident could be an act of terrorism. Therefore responders will need to rule terrorism out during the initial size-up of response operations. If terrorism can not be ruled first responders will need to consider secondary incidents.
3. Hazardous materials may be illegally transported, manufactured, or dumped within the County. Due to the criminal nature of such activities, special law enforcement considerations may be necessary but shall not take precedence over the protection of the general population.

## **II. ASSUMPTIONS**

- A. Lee County emergency response agencies will gear their response to immediate life saving activities during a hazardous materials incident.
- B. Effective response to a major hazardous materials incident will require assistance for a variety of specialized teams, agencies, and organizations. .
- C. Cleanup is the responsibility of the spiller. Local, state, and federal agencies shall coordinate recovery activities.

## **III. ORGANIZATION**

- A. **General** The organization of fire fighting service in the cities of Auburn and Opelika is the Opelika Fire Department and the Auburn Fire Division. Outside the two cities, Lee County is divided into seven fire districts with a volunteer fire department responsible within each district. The Opelika Fire Department and the Auburn Fire Division facilitate the effective coordination and control of like and complementary support services.
- B. **Task Assignments/Responsibilities**
  1. **Fire Departments**
    - Fire Departments will direct and control hazardous materials incidents occurring within their geographical area of responsibility.
    - Provide HazMat response within department/division SOPs and level of training.

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2. **Private Industry**

- Develop emergency operations plans for their facilities and for responding to emergency located on their sites.
- Provide technical assistance, expertise and resources to local government to help mitigate the effects of a hazardous materials incident.
- Private cleanup contractors can provide resources, equipment and expertise on the removal and disposal of contaminated materials.
- Private industry is responsible for cleanup and site restoration, when found to be the responsible part and as required by law.

3. **Road Departments**

Responsible for positioning traffic control devices (i.e., barricades, covers, etc.) as per Fire Services instructions.

4. **Sheriffs Department/Opelika Police Department and Auburn Police Division**

- a. Assume initial Incident Command in crimes involving hazardous materials.
- b. Provide warning support
- c. Provide traffic control
- d. Provide security for key facilities
- e. Provide crowd control

5. **Support Agencies**

6. **State Government**

1. **Primary Agency** -The Department of Environmental Management is the primary agency responsible for ESF #10. Its responsibilities are as follows.

- a. Carry out the prescribed duties of the State Emergency Response Commission (SERC) and in concert with AEMA.
- b. Maintain jurisdiction over chemical releases as outlined by law.
- c. Serve as the repository for the lists of chemicals and the hazardous inventory forms.
- d. Provide public access to the chemical lists, forms or other information as prescribed in Title III.
- e. Serve as the SOSOC for facility related hazardous material incidents.
- f. Act as the technical advisory agency in identifying and directing the containment, treatment, and removal of hazardous material threatening or affecting water or air quality as authorized by Alabama's environmental laws and regulations.



- 
- g. Act as the primary operational state agency in the containment and cleanup of hazardous materials spills in state waters.
  - h. Recommend the type of treatment, storage, or disposal facilities for hazardous materials and advise the responsible party on proper disposal methods for hazardous material spills.
  - i. Act, in coordination with other response elements, as the authority on the use of chemical dispersant in combating a hazardous material incident.
  - j. Coordinate HAZMAT-related matters between the state and the EPA or the USCG.
  - k. Act as the primary operational state agency responding to a discharge of oil into waters of the state and coordinate with the EPA and the USCG on all reported discharges.
  - l. Review and or formulate protective action decisions to protect the public, responders, the environment and property.
  - m. Provide representatives on a 24-hour basis to the AEOC to ensure the full deployment and utilization of ADEM resources.
  - n. Commit resources to the disaster area.
  - o. Assess and prioritize response actions necessary to mitigate hazardous materials releases, which include these major actions.
  - p. Review and/or develop protective actions for the public, responders, environment, and property.
  - q. Stabilize the hazardous material site and stage resources.
  - r. Categorize and dispose of hazardous material.
2. **Secondary State Support Agencies**
- a. **Department of Conservation and Natural Resources**
    - Provide traffic supervision and control for water transportation routes adversely affected by a hazardous materials incident.
    - Provide manpower and logistical support from any state park or recreational area directly affected by a hazardous materials incident.
    - Assess damage to wildlife populations and habitat resulting from a hazardous materials incident.
    - Coordinate with other appropriate federal and state authorities any action deemed necessary or required for the protection of endangered or threatened species.
    - Provide support for law enforcement and search and rescue operations.
  - b. **Department of Public Safety**
    - Provide evacuation assistance in coordination with local law enforcement and the EMA.
    - Provide on-scene uniform public information function and spokesperson to address media needs at the incident scene in coordination with local government/emergency response organizations.

- 
- Provide or assist in traffic and access control, in coordination with other law enforcement agencies, pertaining to surface transportation, security, warning, and evacuation routes affected by a hazardous materials accident.
  - Provide communication support.
  - Staff the 1-800 reporting number during non-duty hours (state warning point).
- c. Department of Public Health**
- Provide response to all emergencies associated with radioactive materials or ionizing radiation.
  - Act as the primary occupational agency in the containment and cleanup of radioactive materials spills.
  - Maintain regulatory authority and control over the possession, use, and transfer of radioactive materials in accordance with Rule 420-3-26, Radiation Control, Alabama Administrative Code
  - Coordinate with the US Nuclear Regulatory Commission, the US Department of Energy, and other federal agencies concerning any federal radiological resources to be used to supplement state radiological resources.
  - Issue public health orders and provides technical assistance.
- d. Department of Agriculture and Industries**
- Assist in identification, containment and disposal of pesticides, insecticides, and herbicides.
  - Assist in the identification of possible health hazards related to a hazardous materials incident that may affect a food commodity or the production of that food commodity.
  - Render assistance in responding to accidental spills of pesticides and herbicides.
- e. Liquefied Petroleum Gas Board**
- Provide a Coordinator/Representative when requested by the AEMA or the on-scene coordinator.
  - Provide on-scene technical advice on regarding the State LP Gas Code requirements relative to the transportation, storage, and handling of LP Gas.
  - Provide code enforcement for the storage, handling and transportation of LP Gas.
- f. Department of Insurance(State Fire Marshall)**
- Provide a coordinator/representative when incidents involve fire or where state fire codes have been violated.
  - Serve as the state agency to coordinate augmentation and mutual aid for fire suppression activities at the site of incidents in coordination with the on-scene coordinator (except as identified under Liquefied Petroleum Gas Board above).
-

- Provide on-scene and follow up information regarding fire code requirements relative to hazardous materials (except as identified under Liquefied Petroleum Gas Board above).
  - Provide codes enforcement for storage and handling of hazardous materials.
7. **Federal Agencies** Responsibilities will be consistent with those outlined in the plan of the National Response Team. National Response Teams may include personnel from the Coast Guard, EPA, Health and Human Services or other federal agencies with expertise in dealing with hazardous materials incidents. Federal assistance may be provided under ESF #10 of the Federal Response Plan.

#### **IV. CONCEPT OF OPERATIONS**

- A. **Goals** -The following goals have related objectives, tasks, and procedures specified in this ESF's Standard Operating Guide (SOGs).
- To create a Lee County HazMat response which provides for the command, control, and coordination of hazardous material response operations and mutual aid.
  - To coordinate the dispatch and use of state hazardous material resources and provide the means of coordination with federal and local government.
  - To provide a system for the receipt and dissemination of information, data, and directives pertaining to HazMat response activities among organizations responsible for hazardous materials incident response.
  - To collect and disseminate information and intelligence relating to hazardous materials incidents.
- B. **General** ESF #10 will direct the efforts to support Lee County emergency response actions, immediately following a disaster involving hazardous materials. Federal, state, local officials and the private sector must maintain close coordination. For the purpose of standardization of emergency communications and response operations, the following response conditions, taken from the National Response Team Hazardous Materials Emergency Planning Guide, will be used by all Lee County responders to hazardous materials incidents in Alabama.
1. Response Level I, Potential Emergency Condition - Response Level I (Potential Emergency Condition) is defined as an incident or threat of a release which can be controlled by first response agencies and does not require evacuation of other than the involved structure or the immediate outdoor area. The incident is confined to a small area and does not pose an immediate threat to life or property. The following agencies are to be contacted in a Level I response in the order listed below.
    - Fire department

- Emergency medical services
  - Police department
  - Alabama Department of Environmental Management
  - Alabama Emergency Management Agency
  - Chemical Transportation Emergency Center (CHEMTREC) at (800) 424-9300
2. Response Level II, Limited Emergency Condition - Response Level II (Limited Emergency Condition) is defined an incident involving a greater hazard or larger area which poses a potential threat to life or property and which may require a limited evacuation of the surrounding area; EOC may be activated. The following agencies are to be contacted in a Level II response in the order listed below.
- All agencies in Level I
  - HAZMAT teams
  - Department of Public Health
  - EOC Staff
  - Department of Human Resources
  - American Red Cross (ARC)
  - County Emergency Management Agency (EMA)
  - Department of Public Safety
  - Public utilities
3. Response Level III, Full Emergency Condition Response Level III (Full Emergency Condition) is defined an incident involving a severe hazard or a large area which poses an extreme threat to live and property and will probably require a large scale evacuation or an incident requiring the expertise or resources of state, federal or private agencies. EOC will be activated. The following agencies are to be contact in a Level III response in the order listed below.
- All agencies in Level I and Level II
  - EPA
  - USCG
  - OSC/RRT
4. A hazardous materials incident may occur that could be a result of terrorism, sabotage or demonstration of civil disobedience that results in a release of hazardous materials. The incident will primarily involve the law enforcement community in taking whatever steps are required to avoid a threat to the population. State and Federal assistance will likely be required to abate the threat.

## V. EXECUTION OF OPERATIONS

- A. The designated local incident command agency for hazardous materials incidents will be the fire department or district within whose jurisdiction the incident occurs. .
- B. The incident commander will establish a Unified Command System if more that one level of government is involved. A representative of each level shall be

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designated an On-Scene Coordinator and will report to the Command Post to work with the Incident Commander.

- C. Command will remain with the designated incident command agency until emergency operations, including stabilization and control is completed unless.
- Local resources are overwhelmed and the Incident Commander request one of the other On-Scene Coordinators to assume control;
  - The incident occurs in areas of state or federal jurisdiction.

D. **Cleanup and Restoration**

At the time that, in the opinion of the Incident Commander, immediate threat to public safety is eliminated and emergency response resources no longer required, Command will pass to the leading state agency to direct cleanup and restoration.

## VI. ***DIRECTION AND CONTROL***

### A. ***Coordination***

1. ***On-Scene Operations*** - On-scene emergency response activities will be directed from an Incident Command Post which will be established as soon as possible by the initial responders.
2. ***County Emergency Operations*** - Overall coordination of emergency during a Response Level 2 or 3 will be managed from the County Emergency Operations Center.
3. ***City Emergency Operations*** - For Response levels 1 and 2 the hazardous materials incident operations maybe conducted at the City EOC.

### B. ***Executive Actions***

1. The local Fire Chief or designee is responsible for emergency operations relating to most hazardous materials incidents. The Fire Chief or his designee may request the activation of the County EOC.
2. Local law enforcement officers are responsible for emergency operations relating to crimes involving hazardous materials, including drug labs.
3. The County Board of Commissioners may declare an emergency to access state and federal assistance should a major emergency result for a hazardous materials incident.

### C. ***Lines of Succession***

Lines of succession to each department head are according to the Standard Operating Procedures established by each department.

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## **VII. TASK ASSIGNMENTS**

*The Emergency Support Function Coordinator will:*

- Prepare a Situation Analysis by reviewing reports, video, message traffic, status boards, and logs. This Situation Analysis continues throughout the response and short-term recovery phase and should include the following.
- A general description of the situation as it pertains to ESF #10 and an analysis of the ESFs operational support requirements.
- A prioritized listing of significant actions that the ESF #10 will initiate to provide operational support.
- Determine the level of response required by ESF #10 to respond to the event.
- Initiate notification of the required personnel and support organizations to achieve the required level of response.
- Based upon the Situation Analysis, prepare a list of objective-based priority actions to perform lifesaving and short-term recovery operations. The action list should be revised as the situation changes.
- Mobilize resources and coordinate response for approved mission assignments.
- Prepare electronic briefings on status of ESF #10 response operations.
- Keep track of all expenditures concerning operations.

## **VIII. ADMINISTRATION**

- A.** ESF#10 shall be coordinated through the EOC and Opelika Fire Department and Auburn Fire Division will provide staff to the function, as required.
- B.** Each primary and support agency will prepare reports required to document decision made, actions taken, and financial costs incurred. These documents will become part of the Incident Record.

**Appendix I**

**Master Drainage Map & Quarter Section Map Example**

**Appendix I**

**Master Drainage Map & Quarter Section Map Example**



**Appendix J**

**ALOA Erosion and Sediment Control Policy**

**Appendix K**

**City of Auburn Storm Water Management Manual**






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## **APPENDIX B**

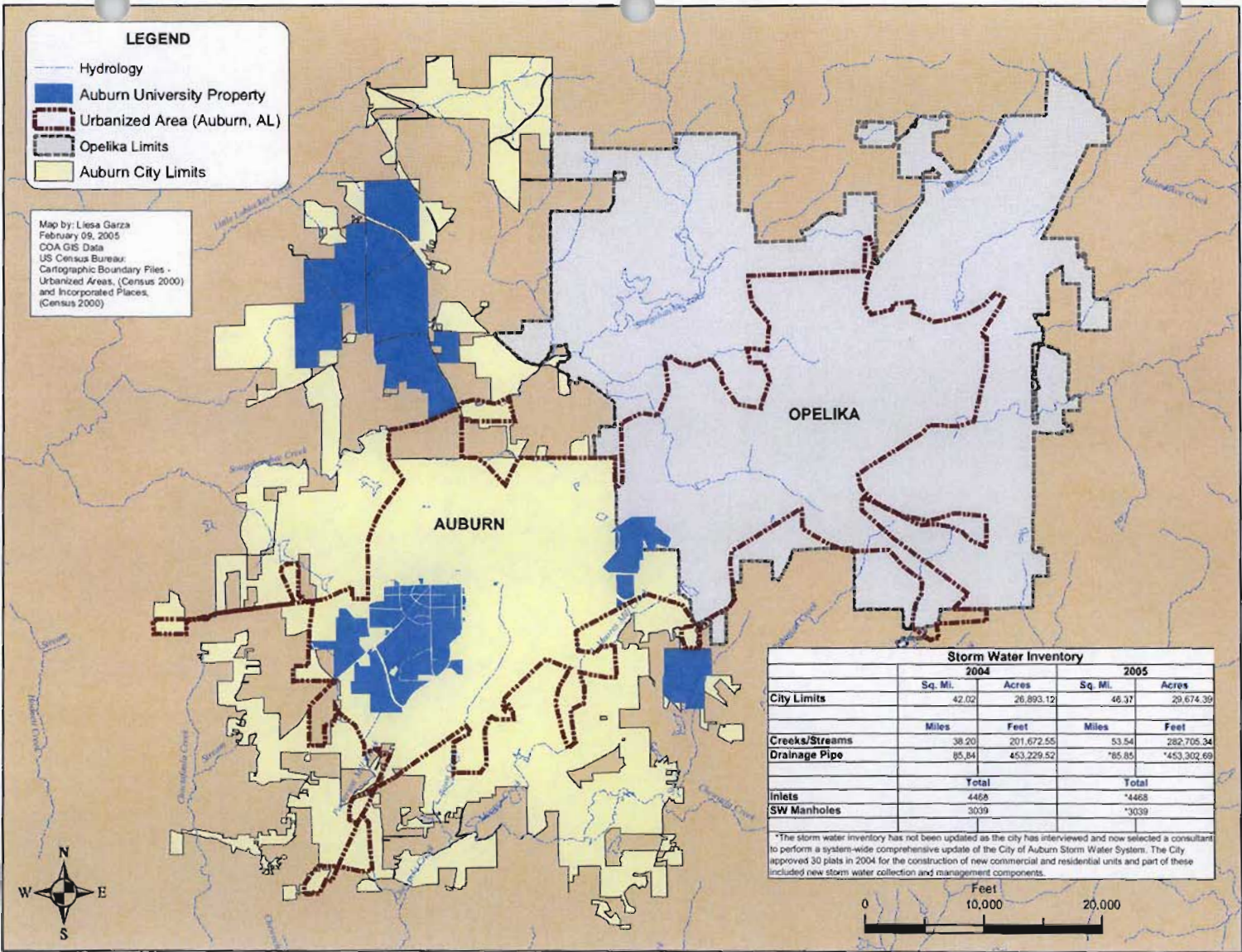
### **URBANIZED AREA MAP**

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**LEGEND**

-  Hydrology
-  Auburn University Property
-  Urbanized Area (Auburn, AL)
-  Opelika Limits
-  Auburn City Limits

Map by: Liesa Garza  
 February 09, 2005  
 COA GIS Data  
 US Census Bureau  
 Cartographic Boundary Files -  
 Urbanized Areas, (Census 2000)  
 and Incorporated Places,  
 (Census 2000)



Storm Water Inventory				
	2004		2005	
	Sq. Mi.	Acres	Sq. Mi.	Acres
City Limits	42.02	26,893.12	46.37	29,674.39
	Miles	Feet	Miles	Feet
Creeks/Streams	38.20	201,672.55	53.54	282,705.34
Drainage Pipe	85.84	453,229.52	*85.85	*453,302.69
	Total		Total	
Inlets	4468		*4468	
SW Manholes	3039		*3039	

\*The storm water inventory has not been updated as the city has interviewed and now selected a consultant to perform a system-wide comprehensive update of the City of Auburn Storm Water System. The City approved 30 plans in 2004 for the construction of new commercial and residential units and part of these included new storm water collection and management components.

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**APPENDIX C**

**NEWSPAPER PUBLICATIONS LISTING**

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## *News Paper Publications*

<i>Publication Date by Month</i>	<i>Publication Date</i>	<i>Title</i>	<i>Editorial</i>	<i>Publication Source</i>
<i>February 2004</i>				
	2/4/2004	MARK CALENDAR FOR ANNUAL CLEANUP EVENT	<input type="checkbox"/>	Opelika-Auburn News
	2/11/2004	ARBORDAY EVENTS TO BE "TREMENDOUS"	<input type="checkbox"/>	Opelika-Auburn News
	2/13/2004	STUDENTS INVITED TO ENTER WILDLIFE FOREVER STATE-FISH ART CONTEST	<input type="checkbox"/>	Opelika-Auburn News
	2/18/2004	TREE PROJECT TO BRING BEAUTY FOR GENERATIONS	<input type="checkbox"/>	Opelika-Auburn News
	2/18/2004	ORGANIC GARDENING CAN PRESENT CHALLENGE UNIQUE TO THE SOUTH	<input type="checkbox"/>	Opelika-Auburn News
	2/20/2004	TAKE TIME TO GET INVOLVED IN THE PLANNING OF YOUR CITY	<input checked="" type="checkbox"/>	Opelika-Auburn News
	2/21/2004	SUNRISE TO SUNSET FROM CLEANUPS TO CLEATS, THE AREA WAS BUZZING WITH ACTIVITY ALL DAY SATURDAY	<input type="checkbox"/>	Opelika-Auburn News
	2/25/2004	COURTS HELPING PROTECT US FROM UNWISE DECISIONS OF BUSH ADMINISTRATION	<input checked="" type="checkbox"/>	Opelika-Auburn News
	2/25/2004	STUDENTS DIVERT ALMOST 7 TONS FROM LANDFILL	<input type="checkbox"/>	Opelika-Auburn News
	2/27/2004	DESPITE RECENT REPORTS, EXPERTS CLAIM FISH SAFE, HEALTHY CHOICE	<input type="checkbox"/>	Opelika-Auburn News
<i>March 2004</i>				
	3/3/2004	RESTORING, REJUVENATING URBAN AREAS WITH TREES	<input type="checkbox"/>	Opelika-Auburn News
	3/3/2004	AREA STUDENTS COMPETE IN ENVIROBOWL	<input type="checkbox"/>	Opelika-Auburn News
	3/3/2004	SPRING A GOOD TIME TO REMEMBER TO CLEAN UP THE AREA WHERE WE LIVE	<input checked="" type="checkbox"/>	Opelika-Auburn News
	3/15/2004	OPELIKA HOST CLEAN UP DAYS	<input type="checkbox"/>	Opelika-Auburn News
	3/16/2004	RESIDENTS INVITED TO HELP WITH PROJECT TO BEAUTIFY SAUGAHATCHEE CREEK SITES	<input checked="" type="checkbox"/>	Opelika-Auburn News
	3/24/2004	VOLUNTEERS RALLY FOR CLEANUP	<input type="checkbox"/>	Opelika-Auburn News
	3/31/2004	BIG THANKS TO KOB'S CLEAN-UP CREW	<input type="checkbox"/>	Opelika-Auburn News
	3/31/2004	AUBURN PLANS PUBLIC WORKSHOP TO DISCUSS FUTURE LAND-USE PLAN	<input type="checkbox"/>	Opelika-Auburn News

<i>Publication Date by Month</i>	<i>Publication Date</i>	<i>Title</i>	<i>Editorial</i>	<i>Publication Source</i>
<i>April 2004</i>				
	4/2/2004	AUBURN DISCUSSES LAND-USE PROPOSAL	<input type="checkbox"/>	Opelika-Auburn News
	4/6/2004	PEOPLE IN POWER AVOIDING THE QUESTION AT HAND	<input checked="" type="checkbox"/>	Opelika-Auburn News
	4/6/2004	LOCAL OFFICIALS POSITIVE ABOUT HOME RULE	<input type="checkbox"/>	Opelika-Auburn News
	4/12/2004	SAFE TO SWIM? Water sampling could determine water safety	<input type="checkbox"/>	Opelika-Auburn News
	4/21/2004	EARTH DAY 2004 TO FEATURE SUSTAINABILITY SEMINARS, DEBATE	<input type="checkbox"/>	Opelika-Auburn News
	4/21/2004	SUCH VARIETY TO SEE AND PLACES TO BE	<input type="checkbox"/>	Opelika-Auburn News
	4/23/2004	AUBURN'S NEW PARK TO FEATURE HISTORIC TREES	<input type="checkbox"/>	Opelika-Auburn News
	4/27/2004	GLOBAL WARMING EXPERT TO VISIT AUBURN TODAY	<input type="checkbox"/>	Opelika-Auburn News
	4/28/2004	CRBSIDE PICKUP A POSSIBILITY	<input type="checkbox"/>	Opelika-Auburn News
<i>May 2004</i>				
	5/5/2004	STUDENTS POURING INTO WATER FESTIVAL	<input type="checkbox"/>	Opelika-Auburn News
	5/5/2004	AREA TRASH DISPUTE SETTLED	<input type="checkbox"/>	Opelika-Auburn News
	5/13/2004	SOLID WASTE AUTHORITY MEETS, NO DECISIONS MADE	<input type="checkbox"/>	Opelika-Auburn News
	5/14/2004	STUDENTS LEARN ABOUT WATER AT HALEY CENTER	<input type="checkbox"/>	Opelika-Auburn News
	5/22/2004	ATLANTA HAS SOWN SEEDS OF SPRAWL, AND NOW IT'S REAPING THE FRUITS	<input checked="" type="checkbox"/>	Opelika-Auburn News
	5/23/2004	ALABAMA LEGISLATOR ATTEMPTS TO SAVE HIS COUNTY'S WATER	<input type="checkbox"/>	Opelika-Auburn News
	5/24/2004	CHEWACA TO CELEBRATE NATIONAL TRAILS DAY JUNE 5	<input type="checkbox"/>	Opelika-Auburn News
	5/26/2004	KPS GROUP EXPLAINS PLAN FOR GROWTH	<input type="checkbox"/>	Auburn Bulletin
	5/26/2004	CLEAN CAMPUS SCHOOLS DO A BEAUTIFUL JOB	<input type="checkbox"/>	Opelika-Auburn News



<i>Publication Date by Month</i>	<i>Publication Date</i>	<i>Title</i>	<i>Editorial</i>	<i>Publication Source</i>
	5/26/2004	THE WONDER OF BIRDS	<input type="checkbox"/>	Opelika-Auburn News
	5/28/2004	AUBURN SEEKS RESIDENTS' INPUT	<input type="checkbox"/>	Opelika-Auburn News
<i>June 2004</i>				
	6/4/2004	AUBURN RESIDENTS MAP CITY'S FUTURE	<input type="checkbox"/>	Opelika-Auburn News
	6/10/2004	RESIDENTS, CITY DIFFER ON SOUTH COLLEGE	<input type="checkbox"/>	Opelika-Auburn News
	6/15/2004	LEE COUNTY TO SPLIT SOLID WASTE SERVICES	<input type="checkbox"/>	Opelika-Auburn News
	6/16/2004	OPELIKA MAY SPLIT GARBAGE SERVICE	<input type="checkbox"/>	Opelika-Auburn News
	6/18/2004	AUBURN FIELDS QUESTIONS ABOUT 'VILLAGE CENTERS' CONCEPT	<input type="checkbox"/>	Opelika-Auburn News
	6/19/2004	CITY OF AUBURN TO RESURFACE ROADS	<input type="checkbox"/>	Opelika-Auburn News
	6/21/2004	AUBURN EYESORES TO BE REDEVELOPED	<input type="checkbox"/>	Opelika-Auburn News
<i>July 2004</i>				
	7/1/2004	AUBURN MOVES FORWARD WITH LAND-USE PLAN	<input type="checkbox"/>	Opelika-Auburn News
	7/1/2004	Lee County Water Festival	<input type="checkbox"/>	Open Line
	7/1/2004	Greenfacts	<input type="checkbox"/>	Open Line
	7/15/2004	AUBURN DETAILS WILMORE PARK PLAN	<input type="checkbox"/>	Opelika-Auburn News
	7/16/2004	COMPLAINTS AIRED AT NORTHWEST MEETING	<input type="checkbox"/>	Opelika-Auburn News
	7/17/2004	AUBURN RESIDENTS WANT MORE TRAFFIC-CALMING DEVICES	<input type="checkbox"/>	Opelika-Auburn News
	7/21/2004	COUNTY AGENCIES STUDY ROAD USE	<input type="checkbox"/>	Opelika-Auburn News
	7/23/2004	CURBSIDE PICKUP REMAINS A POSSIBILITY IN COUNTY	<input type="checkbox"/>	Opelika-Auburn News
	7/24/2004	SOME AUBURN RESIDENTS UPSET ABOUT WESTVIEW CEMETERY MAINTENANCE	<input type="checkbox"/>	Opelika-Auburn News

<i>Publication Date by Month</i>	<i>Publication Date</i>	<i>Title</i>	<i>Editorial</i>	<i>Publication Source</i>
	7/27/2004	TROUBLED WATERS - FLOODING THREATENS LOCAL BUSINESSES	<input type="checkbox"/>	Opelika-Auburn News
	7/27/2004	COMMISSION APPROVES BRIDGE REPLACEMENT PROJECT	<input type="checkbox"/>	Opelika-Auburn News
<i>August 2004</i>				
	8/1/2004	A CHANGE IN PLASTIC RECYCLING	<input type="checkbox"/>	Open Line
	8/9/2004	ATLANTA TRASH ON THE WA Y?	<input type="checkbox"/>	Opelika-Auburn News
	8/10/2004	COUNTY RESIDENTS MAY BE POLLED ON CURBSIDE PICKUP	<input type="checkbox"/>	Opelika-Auburn News
	8/11/2004	WATER, WATER EVERYWHERE	<input type="checkbox"/>	Opelika-Auburn News
	8/12/2004	TROPICAL STORM BONNIE HEADING TOWARDS THE FLORIDA PANHANDLE	<input type="checkbox"/>	Opelika-Auburn News
	8/17/2004	TRASH PROPOSAL OUGHT TO BE CONCERN TO LOCAL LEADERS	<input checked="" type="checkbox"/>	Opelika-Auburn News
	8/18/2004	OPELIKA: NO MORE ATLANTA GARBAGE	<input type="checkbox"/>	Opelika-Auburn News
	8/31/2004	PUBLIC HEARING SET FOR METRO TRASH DEBATE	<input type="checkbox"/>	Opelika-Auburn News
<i>September 2004</i>				
	9/1/2004	Creek Clean Up	<input type="checkbox"/>	Open Line
	9/1/2004	LEE COUNTY SHOULD NOT BECOME METRO ATLANTA'S TRASH CAN	<input checked="" type="checkbox"/>	Opelika-Auburn News
	9/2/2004	HURRICANE FRANCES CHURNS THROUGH CARIBBEAN	<input type="checkbox"/>	Opelika-Auburn News
	9/2/2004	FLORIDA ORDERS A HALF-MILLION TO LEAVE AS HURRICANE FRANCES CLOSES IN	<input type="checkbox"/>	Opelika-Auburn News
	9/7/2004	FRANCES' PROLONGED POUNDING GOUGED FLORIDA	<input type="checkbox"/>	Opelika-Auburn News
	9/7/2004	FRANCES HEADS EAST, SPARES MOST OF ALABAMA	<input type="checkbox"/>	Opelika-Auburn News
	9/7/2004	FRANCES ROARS THROUGH AREA	<input type="checkbox"/>	Opelika-Auburn News

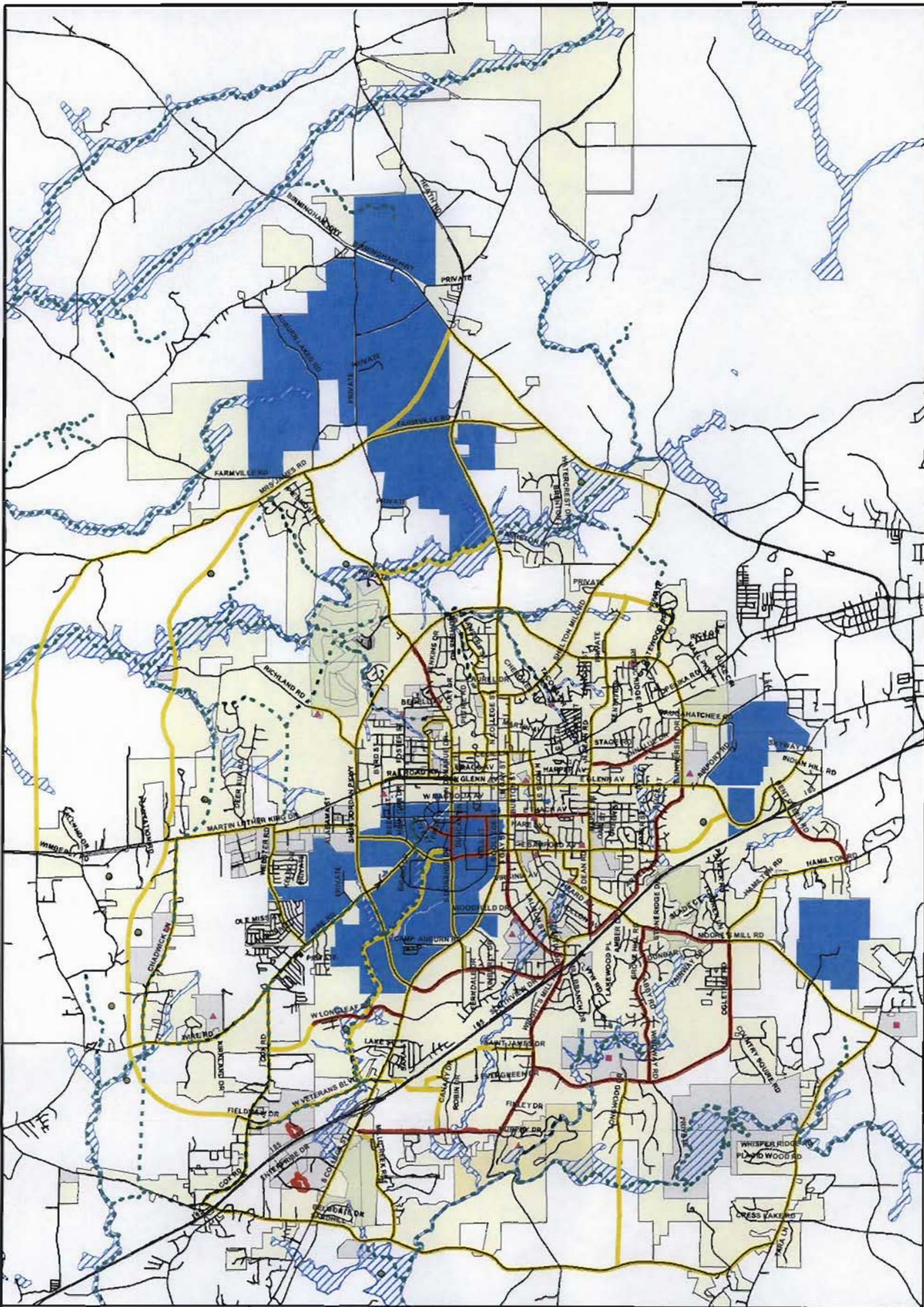
<i>Publication Date by Month</i>	<i>Publication Date</i>	<i>Title</i>	<i>Editorial</i>	<i>Publication Source</i>
	9/7/2004	TROPICAL STORM FRANCES PLOWED ASHORE ON THE FLORIDA PANHANDLE AND IS EXPECTED TO MOVE INTO GEORGIA AND ALABAMA	<input type="checkbox"/>	Opelika-Auburn News
	9/7/2004	LEE COUNTY COPES WITH WIND, RAIN AS FRANCES MOVES IN	<input type="checkbox"/>	Opelika-Auburn News
	9/8/2004	FRANCES SPARES MOST OF LEE COUNTY	<input type="checkbox"/>	Opelika-Auburn News
	9/8/2004	STORM HITS SOME AREA RESIDENTS HARD	<input type="checkbox"/>	Opelika-Auburn News
	9/14/2004	UNPREDICTABLE: COUNTY OFFICIALS PREPARE FOR THE WORST	<input type="checkbox"/>	Opelika-Auburn News
	9/14/2004	AUBURN UNIVERSITY PREPARING FOR IVAN	<input type="checkbox"/>	Opelika-Auburn News
	9/18/2004	IVAN REMNANTS TURN DEADLY IN SOUTHEAST	<input type="checkbox"/>	Opelika-Auburn News
	9/22/2004	TRASH PICK-UP BEHIND SCHEDULE Opelika City Officials Apologize to Residents	<input type="checkbox"/>	Opelika-Auburn News
	9/22/2004	AUBURN COUNCIL HEARS REVIEW OF DAMAGES TO CITY FROM HURRICANE IVAN	<input type="checkbox"/>	Opelika-Auburn News
	9/23/2004	CITY HEARS RESIDENTS' THOUGHTS ON LAKE WILMORE PARK PLAN	<input type="checkbox"/>	Opelika-Auburn News
<i>October 2004</i>				
	10/13/2004	ATLANTA'S TRASH MAY STAY PUT City may pull trash deal from Waste Management	<input type="checkbox"/>	Opelika-Auburn News
	10/25/2004	COUNTY TRASHES GARBAGE PLAN Commissioners vote 5-0 to deny Salem landfill expansion	<input type="checkbox"/>	Opelika-Auburn News
	10/25/2004	WASTE MANAGEMENT: "No Host Fee"	<input type="checkbox"/>	Opelika-Auburn News
<i>November 2004</i>				
	11/3/2004	OPELIKA DISCUSSES URBAN FORESTRY PLANS	<input type="checkbox"/>	Opelika-Auburn News
<i>January 2005</i>				
	1/3/2005	RESIDENTS VOICE CONCERNS OVER ROADSIDE GARBAGE	<input type="checkbox"/>	Opelika-Auburn News

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**APPENDIX D**

**GREEN SPACE AND GREEN WAY MASTER PLAN**

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- LEGEND**
- Green Areas
  - Greenways
  - ▲ Parks
  - Future Parks
  - Streets
  - Bike Paths**
  - Existing
  - Proposed
  - ▨ Flood Plain
  - ▨ City Property
  - ▨ Golf Courses
  - ▨ Chewacla State Park
  - ▨ Auburn University Property
  - ▨ City Limits
  - ▨ Golf Course

City of Auburn  
Green Space and Green Way  
Master Plan

2005



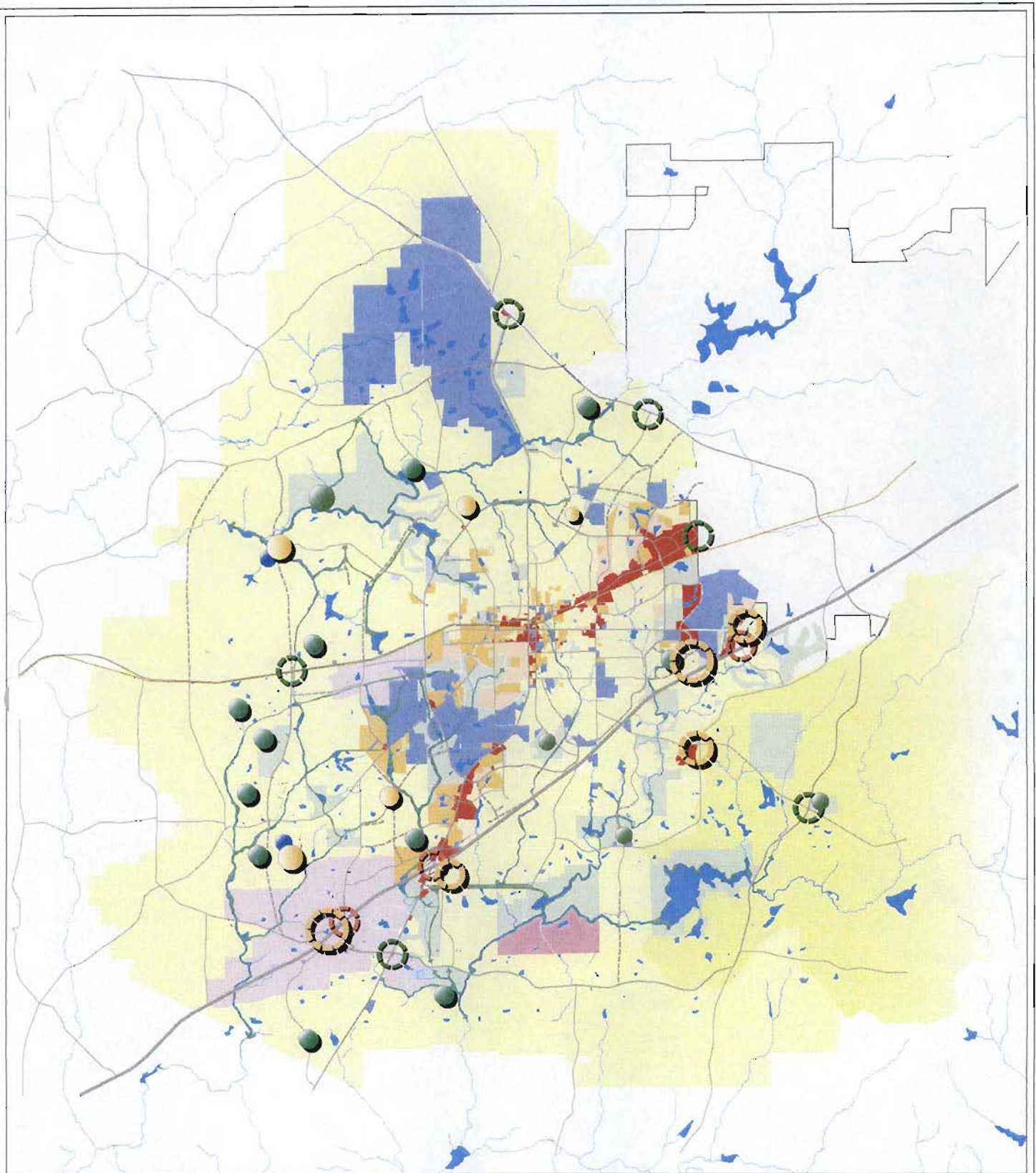
Map Date: 2/18/2005  
By: Linda Garcia  
Public Works, Mapping Assistant  
April 2004 GIS data

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**APPENDIX E**

**FUTURE LAND USE PLAN**

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**Future Land Use Plan**  
AUBURN, ALABAMA



**KPS**  
GROUP

**LEGEND**

- |                          |                               |                          |
|--------------------------|-------------------------------|--------------------------|
| OFFICE                   | INDUSTRIAL                    | MINOR GATEWAY            |
| COMMERCIAL MIXED USE     | EXTRACTION                    | MAJOR GATEWAY            |
| LARGE LOT RESIDENTIAL    | UTILITY                       | PROPOSED ACTIVITY CENTER |
| RESIDENTIAL              | PARKS, RECREATION,            | PROPOSED ACTIVITY CENTER |
| HIGH DENSITY RESIDENTIAL | GREENWAY                      | PROPOSED SCHOOLS         |
| INSTITUTIONAL/ CIVIC     | PROPOSED ROADWAY IMPROVEMENTS | PROPOSED PARKS           |

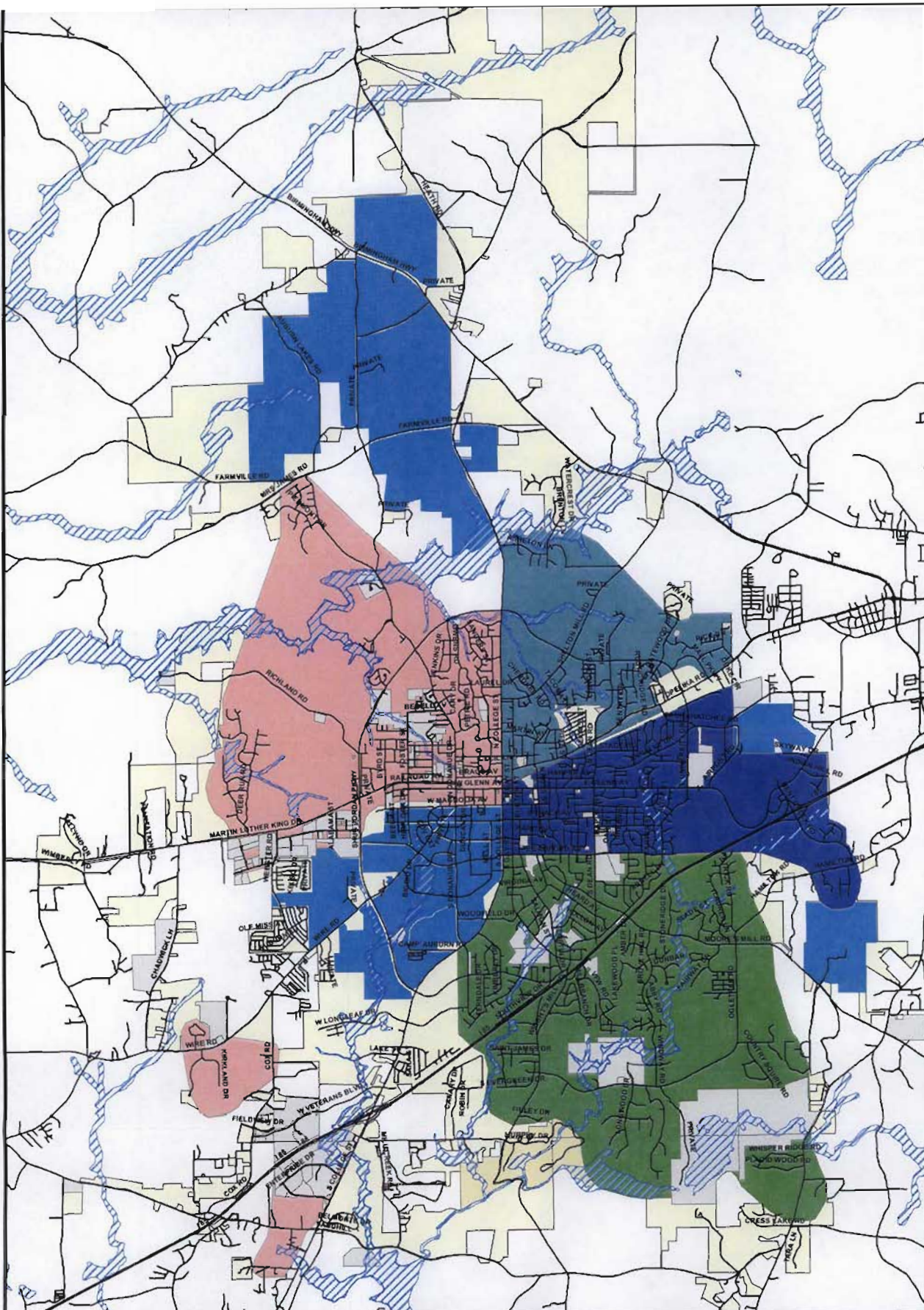
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**APPENDIX F**

**STREET SWEEPER MAP**

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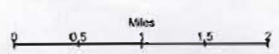
**LEGEND**

- Streets
- ▨ Flood Plain
- ▒ City Property
- ▒ Chewacla State Park
- Auburn University Property
- City Limits

- Street Sweeper WEEK**
- 1
  - 2
  - 3
  - 4
  - 5

**City of Auburn Street Sweeper Map**

2005



Map Date: 2/20/05  
 By: Landa Carter  
 Project: Streets Mapping - November  
 Map 2005 GIS Data