

City of Florence

Annual Report

General Permit for Phase II


Small Municipal Separate Storm Sewer Systems (MS4)

NPDES Permit No. ALR04008

March 31, 2016

Prepared for the City of Florence

By: White, Lynn, Collins and Associates, Inc.


Richard O. Edmonds, P.E.



Annual Report for 2015-2016
City of Florence MS4 NPDES Permit ALR040008

CERTIFICATION

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.



Signature—Responsible Official

3/23/2016
Date

Mickey Haddock

Print Name

Mayor

Title

City of Florence, Alabama
NPDES (MS4) 2015-16 Annual Report
Permit No. ALR040008
March 31, 2016

This report documents the activity related to each of the 6 Minimum Control Measures, including the BMP and rational statement, as required by the City of Florence NPDES Stormwater (MS4) permit.

The appendix includes documentation of the action items for BMP efforts made by the City to comply with the permit and the SWMP.

1. Minimum Control Measure No. 1 – Public Education and Outreach

Problems Addressed: The main source of pollution addressed by public education and outreach is trash, fertilizer, lawn chemicals, litter, soil disturbances, fuel storage and individual oil changes.

- BMP 1 – Distribute education materials & conduct outreach activities
- BMP 2 – Soil Erosion Control during construction

Rationale for BMPs: This control measure addresses the problems most common to residences and businesses in this area. Correcting these problems will go a long way toward cleaning up the waters in this area. The majority of soil erosion and introduction of silt into the stormwater system is due to construction activities which disturb the soil. By placing erosion control requirements on contractors and developers, soil erosion can be controlled and the waters can be kept cleaner. Requirements are outlined in the subdivision regulations and the SWMP.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The City informed individuals and households about the steps they can take to reduce stormwater pollution by distributing information through the utility department mail-outs. A Stormwater Pollution Article is published annually in the Florence Energy Brochure and distributed in the month of April. Citizens are advised to contact the City Engineering Department if they notice any issues or need more information. This outreach is planned to reach approximately 40,000 people per year. (See Appendix for copy of article).
- 2) The City of Florence website www.florenceal.org includes a link to the City's NPDES Program on the City Engineering Department's section. This link directs citizens to ordinances and permits related to stormwater

management. In October 2014, the City purchased the video “Illicit Discharge Detection and Elimination A Grate Concern” and placed a link to it on the City’s website. (See Appendix for screenshots of website pages showing the links to these documents.)

- 3) The NPDES Permit has been discussed during the Green Committee meetings. The Green Committee was created in 2009 to address environmental issues. Presentations and activities to educate the public and increase awareness were planned and executed. The City’s also encourages residential and commercial recycling by providing recycling containers for City residents and businesses. The website for recycling information is [www.florenceal.org/Public Works/Recycling/index.html](http://www.florenceal.org/Public_Works/Recycling/index.html). (See Appendix for a list of Stormwater Education events and activities that were conducted in 2015 and a screenshot of the City’s recycling website.)
- 4) The City of Florence is an active partner with the “Keep the Shoals Beautiful” organization that is dedicated to promoting a cleaner, healthier and safer community and to protecting our natural resources through education, enforcement and action. The City also participates in State Boards including Keep Alabama Beautiful, Alabama Recycling Coalition, Southeast Recycling Development Council, and Solid Waste Association of Alabama to stay informed and maintain certifications.
- 5) The City Engineering Department in conjunction with the City of Florence Street Department continued the program of placing stormwater markers throughout the City on stormwater catch basins and inlets to remind the public that the drainage system flows to waterways. Markers were placed in various locations in February 2015. Additional markers will be ordered in 2016. (See Appendix for a picture of the markers that were placed.)
- 6) The City Engineering Department continues to require contractors and developers on City projects to place special stamped access covers on catch basins and junction boxes. These covers read “Dump No Waste” and “Drains to River” and serve to warn the public that the drainage system flows to waterways. Two City drainage projects were completed in 2015: (1) Ingleside Avenue to Hermitage Drive Stormwater Drainage Improvements, and (2) Nance Street Storm Sewer System. The City’s Engineering department encourages developers to have their contractors do the same thing through Subdivision Regulations. (See Appendix for excerpt from City’s Subdivision Regulations requiring lettering on manhole covers.)
- 7) The person responsible for the control measure and the BMPs is the City Engineer.

2. **Minimum Control Measure No. 2 – Public Involvement and Participation**

Problems Addressed: The problem addressed by public involvement and participation is associated mainly with littering and the general disregard for erosion and pollution problems.

- BMP 1 – Education for citizens, design professionals, contractors, planners and landscapers.
- BMP 2 -- Involve the public in clean-up activities, decision making processes, and permitting requirements.

Rationale for BMPs: The rationale for these BMPs is that as more citizens are involved in the decision making process and in clean-up activities the more they will be aware of the problems related to litter and erosion. Public involvement and participation helps to increase general awareness and concern over these issues. These activities also involve environmentally concerned individuals and help get citizens involved in reporting violations to be enforced by city officials.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The NPDES Permit has been discussed during the Green Committee meetings. Activities and clean-up days designed to involve the public in addressing pollution issues were planned and executed. (See Appendix for a list of Stormwater Education events and activities that were conducted in 2015.)
- 2) In 2014 the City entered the TVA Valley Sustainable Communities Program initiated by TVA Economic Development. This program provides communities with a framework and structure to demonstrate the role sustainability plays in their areas. Based on an inventory of current activities and initiatives, the City of Florence qualifies at the Gold Level. (See Appendix for the TVA Valley Sustainable Community Program, Recognitions, and Awards.)
- 3) The City continued to implement the Certified Green Team Partnership Program. The goal of this program is to encourage public involvement by highlighting and supporting businesses and non-profit organizations in Florence committed to green practices which include pollution prevention, waste reduction measures and recycling. Over one hundred forty (140) businesses, organizations and individuals were recognized as Green Team Partners in 2015. (See Appendix for list of Green Team Partners.)

- 4) The City organized a city wide Clean-Up Day. Eleven (11) different organizations and businesses sponsored the event. One hundred fifty eight (158) volunteer citizens and twenty five (25) organizations participated in the event. A total of 6,460 pounds of trash and litter was collected from various roadways throughout the City of Florence. (See Appendix for copy of 2015 Clean-Up Day flier and Rubbish Report.)
- 5) Construction projects will not be permitted to begin work without a City permit which is the result of the site having received an ADEM permit and the City approval of the site construction BMP. (See Appendix for Ordinances and Permits related to Stormwater Management)
- 6) The person responsible for this control measure and the BMPs is the City Engineer.

3. Minimum Control Measure No. 3 – Illicit Discharge Detection and Elimination

Problems Addressed: This control measure addresses the lack of training regarding the effects of illicit discharges, understanding proper BMP measures, proper enforcement of City ordinances, illicit discharge by industrial, commercial sites and construction sites into the City stormwater system and stream contamination caused by illicit discharges.

- BMP 1 – Qualify enforcement personnel and re-certify QCI
- BMP 2 – Site inspections at industry, commercial and construction sites
- BMP 3 – Sampling and testing

Rationale for BMPs: The rationale for these BMPs is that an enforcement process is necessary to work toward eliminating the problem associated with illicit discharges. City officials need to be informed and trained regarding the hazards associated with illicit discharges and proper BMP measures. An inspection process is necessary to identify illicit discharges and enable the City of enforce the ordinances related to such discharges. Sampling and testing stormwater at the known outfalls of the City’s stormwater system will help to identify issues so further inspection and enforcement can take place.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The City has maps of the permitted area which indicate main discharge points and locations for stormwater sampling. Changes were made to the City’s stormwater maps to reflect changes in city limits since the last report. Stormwater sampling and testing was performed on six locations

by Southern Environmental Testing, Inc. The sampling was performed on 11/18/2015. Samples were tested for oil & grease, pH, and total suspended solids (TSS). (See Appendix for copies of test results and overall city limit map.)

- 2) Ordinances are in effect which prohibit illicit discharges and connections to the City's municipal storm sewer system. The ordinances outline an enforcement procedure. (See Appendix for copy of Illicit Discharge and Connection Ordinance.)
 - 3) In October 2014 the City purchased the "Illicit Discharge Detection and Elimination A Grate Concern" video. This video is designed to help build community awareness of illicit discharge, detection and elimination. These videos have been placed on the City's web site. (See Appendix for brochure on program details.)
 - 4) The City routinely inspects industrial, commercial and active construction sites. The inspections look for spills or situations that could result in spills and subsequent runoff to waters of the State. These sites are inspected monthly and after significant rain events. In 2015 a total of twenty-seven (27) were inspected. (See Appendix for a list of inspections performed by City officials and a copy of the Inspection Form.)
 - 5) The person responsible for this control measure and the BMPs is the City Engineer.
4. **Minimum Control Measure No. 4 – Construction Site Stormwater Run Off Control**

Problems Addressed: This control measure addresses the problems associated with the runoff of silt and other illicit discharges into the City stormwater system from construction sites, the lack of concern by the holder of the stormwater permit to address deficiencies in the BMP measures, and stream contamination caused by erosion of silt and/or illicit discharges.

- BMP 1 – To have all sites permitted by the City and ADEM
- BMP 2 – Provide monthly inspections
- BMP 3 – Keep run off sample results at minimum

Rationale for BMP: The rationale for these BMPs is that by requiring contractors to follow the permitting process for stormwater runoff, they will be given the proper BMP measures to follow to minimize erosion and illicit discharges. These permits also include regular inspections that will hold them accountable to the permit requirements. Sampling and testing stormwater runoff from construction sites will insure the contractor's compliance with BMP measures and determine if additional measures need to be put in place.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The City has updated their subdivision regulations to include information on the City's NPDES permit and approved an ordinance that requires erosion and sediment controls at construction sites. (See Appendix for copy of City Ordinances.) The City uses this mechanism because an ordinance is a required pre-requisite to enforcement. A copy of the ordinance is presented in the SWMP. The project construction bond includes cost for providing BMPs.
- 2) The City reviews all BMPs prior to issuing a permit for construction.
- 3) The City requires developers and owners of construction sites to report the results of their monthly inspections. Problems are addressed with the developer and contractor. The problem is corrected or the City will enforce monetary fines. No fines were necessary for this reporting year.
- 4) The City maintains a file for receipt of information from the public. If complaints are received from citizens, the City Engineering Department responds to the complaint and resolves the issue. No citizen complaints were received during the 2015 reporting year.
- 5) The person responsible for this control measure and the BMPs is the City Engineer.

5. Minimum Control Measure No. 5 – Post Construction Stormwater Management in New Development and Re-Development

Problems Addressed: This control measure addresses problems associated with soil erosion and sedimentation from construction projects that are completed but without complete soil stabilization of the site. Many developers and property owners fail to maintain erosion control measures after the contractor leaves the site.

- BMP 1 – To have all sites secured with vegetation and run off control.
BMP 2 – Post Construction Maintenance Agreements

Rationale for BMPs: The rationale for these BMPs is they will help to ensure the continuation of sediment and erosion control measures until permanent stabilization is achieved by requiring owners to provide a bond to cover the cost of replacing or establishing such measures. Owners will also be required to sign an agreement to be recorded with the property deed or plat that transfers to any new owner or operator the responsibility for post-construction maintenance.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The City requires that the BMP be a part of the construction bond amount. The construction phase of bonding is followed by a maintenance agreement which is to be recorded at the courthouse and follows with the transfer of property. Bonding is in place throughout construction and the maintenance agreements are in force until a notice of termination is issued by ADEM.
- 2) The City requires monthly inspection reports be copied to their file for review.
- 3) The City provides review of BMPs submitted by developers. These plans are approved prior to site permits being approved. If a site is non-compliant, the City notifies the developer. If the issues are not addressed immediately, the City can issue a fine or notify ADEM for additional enforcement.
- 4) The City routinely inspects active construction sites on a monthly basis and after significant rain events. These sites are inspected for up to six months after construction is complete and the ADEM permit is terminated to insure post-construction stormwater management. Records are kept on all inspections and reviews received by or conducted by the City. Attached is a list of sites that were inspected for stormwater compliance by City officials along with a copy of the Inspection Form used.
- 5) The person responsible for this control measure and the BMPs is the City Engineer.

6. Minimum Control Measure No. 6 – Pollution Prevention / Good Housekeeping for Municipal Operations

Problems Addressed: This control measure addresses problems associated with City maintenance personnel not being adequately trained and aware of BMP requirements and the effects of pollution. It also addresses the problems associated with polluted runoff that occurs when City owned vehicles and equipment are maintained in an uncontrolled area.

- BMP 1 – Personnel Training
BMP 2 – Housed fleet maintenance and washing system

Rationale for BMPs: The rationale for these BMPs is that many of the City personnel are in a position to prevent pollution and erosion or at least observe the activities of others. By adequately training them in proper BMP requirements, it will help to ensure good housekeeping practices and pollution prevention through personal practice or notification of observed violations. Also, providing a way to separate pollutants such as oil, grease and sediment from maintenance and washing operations will help to eliminate contaminated runoff from entering the storm sewer system.

Ongoing Activities:

The following activities were conducted by the City of Florence to implement these BMP measures:

- 1) The City maintains regulations related to maintenance operations and stormwater quality to which all applicable City personnel must adhere. These regulations include educating its employees as to proper control for maintenance vehicle wash water runoff. (See Appendix for copy of regulations)
- 2) The City Engineering Department continues to maintain comprehensive documentation on all City personnel training and on all public training programs.
- 3) The video “Rain Check Trainer’s Guide for Stormwater Pollution Prevention for MS4s” is used to educate City personnel in an effort to reduce polluted runoff from entering the storm sewer system. All new City employees and employees of the Street Department are scheduled to view this video and take the associated quiz. The Florence Gas & Water/Wastewater Departments will also be using the video and employee quiz to train their employees. (See Appendix for outline of the video training program.)
- 4) One (1) employee with the City Engineering Department attended an ADEM Qualified Credentialed Inspector (QCI) Program for Storm Water Management Training in 2015. The seminar was presented by Thompson Engineering. (See Appendix for brochure on seminar.)
- 5) The City Engineering Department works to ensure open lines of communication between all City Departments, the Mayor and the City Council concerning all the provisions of the NPDES MS4 Permit.
- 6) City personnel who open trenches or remove vegetation for construction of streets are required to provide proper erosion and siltation control.

- 7) The City of Florence Street Department maintains all storm drains throughout the City to keep them clear of debris and provide repairs as needed. Reports and pictures are submitted as the work is completed. Maintenance was performed during the months of March through December in 2015 and January and February of 2016. Approximately 20,000 lbs of debris was cleared from the storm sewer system during the 2014 reporting year. (See Appendix for Storm Drain Clean-Out Reports)
- 8) Fleet washing operations impact the following departments:
 - a. Gas, Water/Wastewater Department: housed facility with runoff to the city sanitary sewer system.
 - b. Street Department: Pressure washer with runoff to the storm sewer system.
 - c. Recycle Center: Hose rinse with runoff to storm sewer system.
 - d. Solid Waste Department: Housed facility with its own permit.
 - e. Electricity Department: Housed facility with drain to storm sewer system.
- 9) Chemicals and weather related materials are stored inside covered buildings.
- 10) The person responsible for this control measure and the BMPs is the City Engineer.

During 2016-17, the city plans to implement the following general BMP's.

A. Public Education and Outreach

1. Continue to inform individuals and households of stormwater pollution prevention through distribution of brochures in utility department mailouts.
2. Publish a Stormwater Pollution Article in the annual Florence Energy Brochure.
3. Maintain the section on City's website regarding the NPDES Program.
4. Continue to plan and execute stormwater education presentations, activities and clean-up days.
5. Maintain active partnership with "Keep the Shoals Beautiful" and other organizations.
6. Continue placing markers on existing catch basins and inlets around the City warning the public that the drainage system flows to waterways.
7. Continue to require contractors and developers to use specially stamped access covers on new catch basins and junction boxes to warn the public that the drainage system flows to waterways.

B. Public Involvement / Participation

1. City will hold a public hearing during the year to allow the public to express concerns and ask questions regarding the Stormwater Management Program. NPDES Permit will be discussed at the City's Green Committee Meetings.

2. Continue to plan and execute clean-up days and other related activities designed to involve the public and increase awareness.
 3. Maintain the Certified Green Team Partnership Program highlighting and supporting businesses that show commitment to “green” practices.
 4. Continue to require construction project owners to obtain ADEM permits (if required) and incorporate BMP measures in their designs before receiving permits from the City to begin work.
- C. Illicit Discharge Detention and Elimination
1. Continue to review and update as necessary the City’s stormwater maps. Stormwater will be sampled and tested during the year from locations specified by the City Engineer.
 2. Maintain and enforce City ordinances that are in effect prohibiting illicit discharge.
 3. Continue conducting routine inspections of industrial, commercial and active construction sites.
- D. Construction Site Storm Water Runoff Control
1. Maintain and enforce subdivision regulations and ordinances that require erosion and sediment control at construction sites.
 2. Review all BMP designs for construction projects before issuing a permit for construction.
 3. Continue to require developers and owners of construction sites to report the results of their monthly stormwater inspections. Levy fines as required and allowed by law.
 4. Maintain a file of information received by the public.
- E. Post Construction Storm Water Management in New and Redevelopment
1. Continue requiring that BMP be part of the construction bond amount. Construction will be followed by a maintenance agreement to maintain BMPs until permit is terminated.
 2. Continue to require monthly inspection reports be copied to the City for review and filing.
 3. Continue to review BMPs submitted by developers as part of their construction plans.
 4. Continue routine inspections of active construction sites. Inspections will continue for up to six months after construction and until permit is terminated.
 5. Continue to maintain records of all inspections and reviews conducted by the City.
- F. Pollution Prevention / Good Housekeeping
1. Continue providing QCI training for City inspectors and educating City employees on various stormwater pollution prevention measures.
 2. Maintain open lines of communication between all City Departments concerning the provisions of the MS4 Permit.

3. Ensure that City personnel use proper erosion and sediment control measures when performing work that disturbs ground cover.
4. Maintain all storm drains throughout the City and keep them repaired and cleared of debris.
5. Maintain housed washing facilities for fleet washing operations.
6. Ensure that all chemicals and weather related materials are stored inside a covered building.

APPENDIX

- **PUBLIC EDUCATION AND OUTREACH**
 - Stormwater Pollution Article
 - City of Florence Engineering Department Website Screenshots
 - Stormwater Education Events and Presentations
 - City of Florence Recycling Website Screenshots
 - Storm Drainage Marker
 - Excerpt from Subdivision Regulations

- **PUBLIC INVOLVEMENT AND PARTICIPATION**
 - TVA Valley Sustainable Community Program
 - TVA Valley Sustainable Communities Program Recognition Luncheon (12/4/14)
 - TVA Valley Sustainable Community Program Awards & Press Conference (3/17/15)
 - City of Florence Sustainability Green Team Program Press Release
 - Billboards Displaying TVA Valley Sustainable Community Program Award
 - Green Team Partners
 - 2015 Clean-Up Day Flier & Rubbish Report (4/18/15)
 - Recycling Showcase Event (4/3/15)
 - Minimum Requirements for Construction Permitting and Erosion Control
 - Permit to Construct Site Work
 - Ordinance for Stormwater Operation and Maintenance
 - Ordinance for Erosion and Sediment Control

- **ILLICIT DISCHARGE DETECTION AND ELIMINATION**
 - City of Florence Map
 - Stormwater Runoff Sampling and Testing Results
 - Ordinance for Illicit Discharge and Connection to Stormwater System
 - Illicit Discharge, Detection and Elimination Video Series
 - List of Construction Sites Inspected by City
 - Inspection Report Form

- **POLLUTION PREVENTION/GOOD HOUSEKEEPING**
 - Regulations for Municipal Operations and Stormwater Quality
 - Rain Check Training Video Program
 - Seminar Brochure—QCI Storm Water Management Training
 - Storm Drain Clean-Out Reports

PUBLIC EDUCATION AND OUTREACH

- Stormwater Pollution Article
- City of Florence Engineering Department Website Screenshots
- Stormwater Education Events and Presentations
- City of Florence Recycling Website Screenshots
- Storm Drainage Marker
- Excerpt from Subdivision Regulations

You're Invited To Our Front Porch!



**Friday & Saturday
May 15th & 16th**

**9 a.m.—5 p.m. GUC Performance Center
6 p.m.—9 p.m. Norton Auditorium**

Single Ticket: \$10 adult/day, students free
Two Day Package: \$15 per adult

On Friday night, storytellers will speak, student competition winners will be announced, and there will be FREE music from Three on a String. Saturday night, storytellers will speak again and the first place student winners from high school and middle school will be invited to perform a 5 minute story. Afterwards there will be FREE music from Three on a String. Both of these events are free from 6 p.m. till 9 p.m. in Norton Auditorium.



Other featured artists include:

- Walt Aldridge
- Donald Davis
- Dolores Hydock
- Reverend Robert B. Jones
- Kevin Kling
- Bil Lepp

For more information or to purchase tickets, call us at 256-765-4297 or visit our website at www.una.edu/storytelling

STORY SLAM

Because you have a life, you have a story. Bring it!
Want a chance to win \$500???

- As part of the 2015 UNA Front Porch Storytelling Festival, this year the first "Story Slam" will take place on **Tuesday, May 12, 2015 on the UNA Campus in the Guillot Performance Center from 6—7:30 p.m.** The theme this year is "Dare".
- **Students from all high schools and middle schools** have been invited to share a personal story from their lives that relates to this theme. Public, home school, and private schools are also included. If you have a story you want to share, students must upload a **3-5 minute video of their story to YouTube** for the preliminary judging.
- A panel of judges will review all the **You-Tube videos submitted no later than April 30**. The top students in the high school category (grades 10, 11, 12) and the top students in the middle school category (grades 7, 8, 9) will be judged and invited to come to **UNA and perform in the Performance Center on Tuesday, May 12, 2015**.
- **Winners** must be present to accept \$500, \$250, and \$100 prizes on **Friday, May 15, 6 p.m. - 8 p.m. in Norton Auditorium**.

For more information and to register for the competition you can go to the following link: www.una.edu/storytelling/studentcompetition.html

Florence ENERGY

NEWS YOU CAN USE FROM FLORENCE UTILITIES

Stormwater pollution is caused by the daily activities of people everywhere. Each of us has a role in preventing pollution before it gets into our storm drainage system. See what you can do to help.



May 15 & 16, 2015

See inside for a notice to Florence Gas & Water customers regarding the installation of an Automatic Meter Reading (AMR) system.

www.florenceutilities.com

Florence Energy News

STORMWATER POLLUTION

Stormwater pollution is caused by the daily activities of people everywhere. It is a myth that pollution of our rivers and bays is caused mainly by industry or sewage. Most is caused by the every day activities of people in our city and suburbs. Individuals, businesses, local governments, and other community organizations all have a role in preventing pollution before it gets into our storm drainage system.

Storm drains flow directly to nearby rivers and streams, not to wastewater treatment plants. Your city street is really like waterfront property and everything rinsing off your roof, yard, and driveway goes to the river. Each year, people dump thousands of gallons of used oil, antifreeze, and other wastes into storm drains. Rainwater runs off streets, lawns, farms, construction, and industrial sites, and picks up fertilizers, dirt, pesticides, oil and grease, and many other pollutants on the way to our rivers, lakes, and coastal waters.



Reducing the discharge of pollutants will protect our rivers and lakes from pollution that may kill fish, close beaches, and increase weed and algae growth.

WHAT CAN I DO TO HELP?

It is simple! Dump nothing down the storm drain that you would not swim in or drink!

- Use less fertilizer on lawns
- Avoid pesticides
- Compost garden trimmings
- Recycle used oil
- Wash your car on the lawn, not on the driveway or street
- Pick up pet wastes
- Do not litter

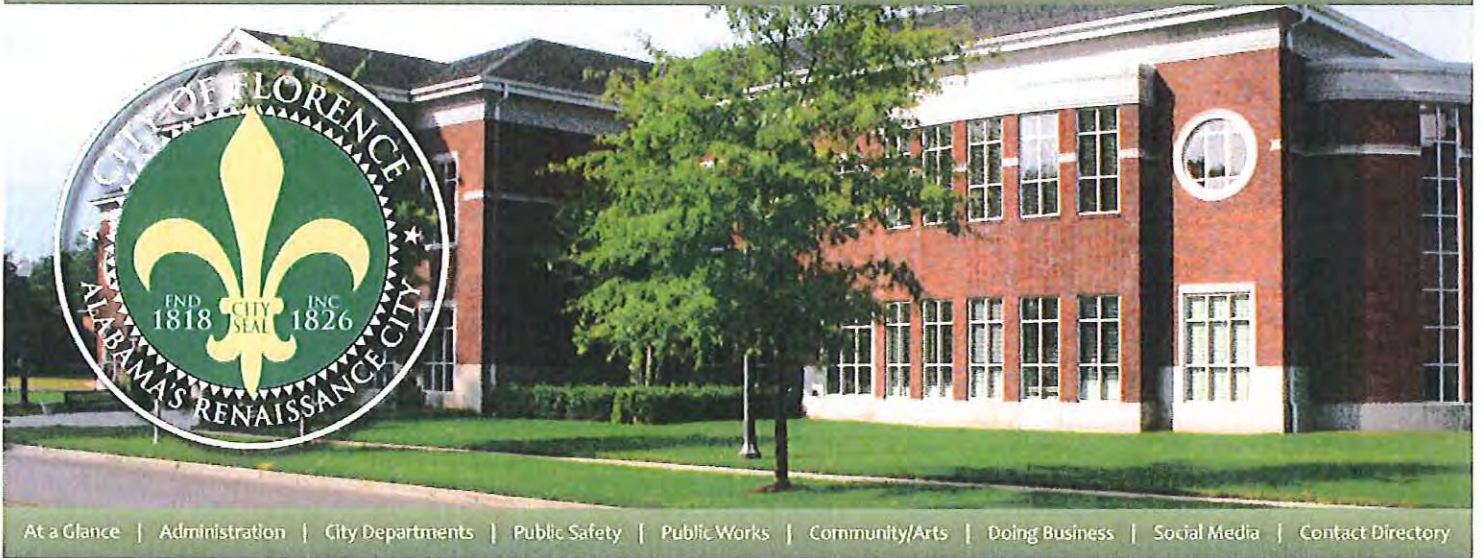
FOR MORE INFORMATION:
CITY OF FLORENCE
ENGINEERING DEPARTMENT
256-760-6350

NOTICE FLORENCE GAS & WATER CUSTOMERS

Contractors for the City of Florence began a project to install an Automatic Meter Reading (AMR) system for gas and water customers on May 15, 2014. The project duration is approximately 24 months. There will be minimal or no disruptions of your service during this process.

It is our desire to provide you as accurate meter reading and measurement as possible. If you have any questions, please contact **256-760-6490** or visit http://www.florenceutilities.com/Gas_Water/index.html for more information about this important project.

NOTICE
FLORENCE UTILITIES WILL BE CLOSED ON
MON., MAY 25 MEMORIAL DAY
FRI., JULY 3 INDEPENDENCE DAY



Alabama's Renaissance City
Welcome to Florence, Alabama

...engineering department

The **City Engineering Department** provides municipal engineering services to the City of Florence. Their responsibilities include planning, design, and construction of roadways, bridges, sidewalks, sanitary sewers, and drainage.

They assist in preparing planning reviews and project designs of public works projects and answer public inquiries regarding rights-of way, public property lines, stormwater runoff drainage, and sanitary sewerage.

The City Engineering Department prepares traffic and accident studies of city streets, performs field inspections of City infrastructure, and recommends maintenance practices for streets, highways, bridges, and other municipal improvements.

Quick Links

You Are Here: [City Departments](#)

[Subdivision Regulations](#)

[Phase II NPDES; Stormwater Management Program](#)

[Video: Illicit Discharge Detection & Elimination a Grate Concern](#)

[Construction Projects](#)

[Frequently Asked Questions](#)

[Permit Forms](#)

[Contact Directory](#)

[Return to florenceal.org](#)

Bill Batson
City Engineer

City Engineering Department
110 West College Street
Florence, AL 35630

Phone: (256) 760-6350

Fax: (256) 740-4667

Most Popular

- Employment
- Pay Your Utility Bill
- One-Stop Shop
- Mayor's Message
- Florence Police Department
- Pay Parking Tickets
- Renew Business License

Site Tools

- Help
- Site Search
- Site Map
- Document Center
- Report a Problem
- Employee Portal

Resources

- Location & Map
- Current Weather
- City Calendar

Contact

- Emergency Numbers
- Contact Directory
- Email Us
- Connect With Us



Alabama's Renaissance City.
Welcome to Florence, Alabama

...engineering department

Phase II NPDES; Stormwater Management Program

- [Public Outreach - "ILLICIT DISCHARGE DETECTION & ELIMINATION A GRATE CONCERN" Video](#)
- [Permit Application](#)
- [Appendix](#)
- [Permit to Construct Site Work](#)
- [Inspection Report](#)
- [Minimum Requirements for Construction Permitting and Erosion Control](#)
- [Ordinance for Illicit Discharge and Connection](#)
- [Ordinance for Stormwater Operation and Maintenance](#)
- [Ordinance for Erosion Sediment Control](#)

Quick Links

You Are Here: [City Departments](#)

[Subdivision Regulations](#)

[Phase II NPDES; Stormwater Management Program](#)

[Video: Illicit Discharge Detection & Elimination a Grate Concern](#)

[Construction Projects](#)

[Frequently Asked Questions](#)

[Permit Forms](#)

[Contact Directory](#)

[Return to florenceal.org](#)

Bill Batson
City Engineer

City Engineering Department
110 West College Street
Florence, AL 35630

Phone: (256) 760-6350

Fax: (256) 740-4667

Most Popular

- Employment
- Pay Your Utility Bill
- One-Stop Shop
- Mayor's Message
- Florence Police Department
- Pay Parking Tickets
- Renew Business License

Site Tools

- Help
- Site Search
- Site Map
- Document Center
- Report a Problem
- Employee Portal

Resources

- Location & Map
- Current Weather
- City Calendar

Contact

- Emergency Numbers
- Contact Directory
- Email Us
- Connect With Us

City of Florence
Storm Water Education

January 14, 2015 Earth Day Fest planning meeting 10 people 4-6 pm

January 19, 2015 Martin Luther King "A day ON not a day Off" UNA students collected litter from roadways. (45 students)

February 11, 2015, Florence Middle School presentation of the recycle center and litter (230) Students and adults received literature.

February 20, 2015 Tree Conference- a presentation on recycling, composting, and storm Water was presented to (50+ people)

February 3, 2015 Presentation on Green Initiatives/Recycling/Litter to Florence Exchange Club 45+ people

March 14, 2015 Parking Deck Clean up 30+ volunteers cleaned the litter and debris from the city parking deck

March 4, 2015 St. Joseph Regional Catholic School Presentation to 3rd, 4th, 5th grades on recycling and litter prevention with 60 coloring books and brochures

March 3, 2015, Florence High School Students during youth and government day toured the city. (5 high school students toured the solid waste, street, and recycling departments, 50 students toured with other departments

March 17, 2015 Green Team Awards – The suitability partners across the community were recognized and provided a certificate. The event was held at the Florence Senior Center. 60 attendees

March 19, 2015 UNA/Sodexo mandatory employee meeting including a presentation on recycling and sustainability. 50+ employees

March 25, 2015 a full page insert was placed in the Courier Journal to promote the Annual Clean up event. Roughly 17,000 households

March 26, 2015 KTSB Award Ceremony – ceremony recognized individuals and organization for green initiatives, litter cleanups, and recycling across the shoals area at the Shoals Chamber of Commerce as a press event. (60 adults). 128 people attended.

April 3, 2015 Florence First Friday event 2,000-3,000 – Booth display promoting green initiatives, recycling, composting storm water, and litter prevention. We handed out 500 super hero capes for the “Being a Super hero is Easy” campaign.

April 4, 2015 Shoals Earth Month Fest was held in Sheffield. The Event hosted a booth by Natural Resources and Conservation Services. They brought the character Ruby the Raindrop and Sammy Soil to educate students about storm water pollution and water conservation. Attendees were in age groups roughly 500 people. 160 brochures and coloring books were distributed.

April 9, 2015 Sustainable Living event - Earth Month Kick Off Symposium- (100 adults)

April 18, 2015 City of Florence Citywide Clean up Event was held from 8:00 – 12:00. There were 4,600 lbs of trash were collected by over 158 volunteers from the city’s roadsides and drainage ditches. (Volunteers were all ages 8 -70)

April 18, 2015 Cypress Creek Litter clean up by the University Of North Alabama Outdoor Adventure Center

April 21, 2015 St. James Methodist Garden Club 7:00-8:00 pm Presentation on recycling, storm water, and litter (25 ladies)

April 23-24 2015, Presentations were made to all Kindergarten & first grade students in the City of Florence. Students received brochures and coloring books. (300 students)

April 20, 2015 The City of Florence distributed 11,000 recycle carts citywide. Every resident has access to curbside recycling. The carts have lids which reduce litter.

April 22, 2015 University of North Alabama Earth Day Celebration display for students to take a pledge to recycle and take an active stance on sustainable initiatives 600+students.

April 28, 2015 First United Methodist Church pre-school toured the landfill and recycling center 30 students and adults.

May 2, 2015 Kid's Fest 11:00 – 2:00 800+ kids and adults Environmental Education Display along and basket ball goal for students to "Take a shot at Recycling"

May 9- 11, 2015 Living Lands and Water cleaned up the Tennessee River and hosted multiple educational events aboard the barges. The event was sponsored by TVA and Keep the Shoals beautiful.

May 17, 2015 Christ Chapel of Florence hosted a Sunday afternoon litter clean up. 40 people from 5-66 years of age picked up litter.

May 22, 2015 Keep the Shoals Beautiful completed a litter Index in the City of Florence and determined the monitored street has improved since last year.

May 30, 2015 Better Business Beau hosted a Shred Event to the public. The event included an environmental display about recycling.

July 20-26 2015 Handy Festival events were litter free events with educational announcements and recycling receptacles provided. ADEM recycling dept set up booths and distributed information and provided games.

July 20, 2015 jazz it up with Trash, 150 kids and parents learned to build instruments from recyclable materials and the effects of litter on the environment. 150 brochures, books and coloring books were distributed.

July 23, 2015 In Harmony with Nature Event, 50 kids and parents learned to build instruments from recyclable materials and the effects of liter on the environment. 50 brochures, books, and coloring books were distributed.

August 4, 2015 National Night Out Event- Recycling and litter prevention booth provided information to 200+ kids and adults.

August 13, 2015 Florence Goes Green Website Meeting

August 14 & 15, 2015 Recycling booth and Sustainably Club help provided to all students moving on to UNA campus. 1000+

August 18, 2015, University of North Alabama students had a clean-up from campus. (40+ students)

August 22, 2015 Boy Scout Meeting- Presentation on environmental education: recycling, litter, storm water, and energy

September 5 & 6 Participated in the Helping Center Mini golf tournament- 500+ participated in taking a shot at recycling through the mini golf hole to create awareness for recycling and litter prevention

September –December 2015- Billboard and newspaper campaign to promote recycling throughout the city.

September 12, 2015 Lego Environmental Challenge. – 50 gifted students listened to a presentation on recycling, litter, and storm water. Then, they discussed inventions to help solve problems.

October 18, 2015 – Kid's Fall Festival Booth display on composting, recycling and litter prevention with the Take a shot at recycling game and dig for a pet worm. 1000+ kids and parents come to the city event for games and fun.

October 26, 2015 - #KeepTheShoalsBeautiful Challenge meeting – 10 adults Keep the shoals beautiful members met to plan the 2016 litter campaign

November 9-13, 2015 UNA student organization set up a booth in the student center to promote campus sustainability and recycling. 1000+ students reached 256 students signed a pledge

December 14, 2015 Florence Middle School Club Sponsor meeting 5:30 – 6:30 pm The environmental club adults met to set goals and secure funding. 5 adults.

The Keep the Shoals Beautiful board meets monthly. The City of Florence is represented on the board and we contribute \$2,500 annually. The City of Florence representative is also on the Shoals Earth Month board that hosts the annual Earth Day Festival.

The City of Florence participates in State Boards including the Keep Alabama Beautiful, Alabama Recycling Coalition, and Southeast Recycling Development Council, Solid Waste Association of Alabama to stay informed and maintain certifications.



WE'RE ON A ROLL

HEY, CITY OF FLORENCE!
IT'S Bigger. IT'S GOT A LID. AND WHEELS.



ADEM



Alabama's Renaissance City
Welcome to Florence, Alabama

...recycling

The City of Florence began curbside recycling service in 1988. We are proud to have one of the oldest recycling programs in Alabama.

Our mission is to divert materials from the landfill, conserve natural resources, and contribute to the growing markets of reclaimed materials.

Recycling in Florence is EASY!



Follow the Florence Recycling Department



Quick Links

You Are Here: [Public Works](#)

[Residential Recycling](#)

[Commercial Recycling](#)

florencegoesgreen.org

[Hours of Operation](#)

[Holiday Garbage & Recycle Schedule](#)

[Contact Directory](#)

[Return to florenceal.org](http://Returntoflorenceal.org)

[David Koonce](#)
Director, Solid Waste & Recycling

[Rachel Mansell](#)
Recycling Coordinator

Florence Recycling Department
450 Country Club Drive
Florence, AL 35633

256-760-6466

Recycle

Paper

Junk mail, newspapers, phone books, office paper, flyers, catalogs, magazines, ALL PAPER!

Cardboard

Corrugated boxes, cereal boxes, tissue boxes, paper rolls, ALL CARDBOARD!

Plastic Bottles & Tubs

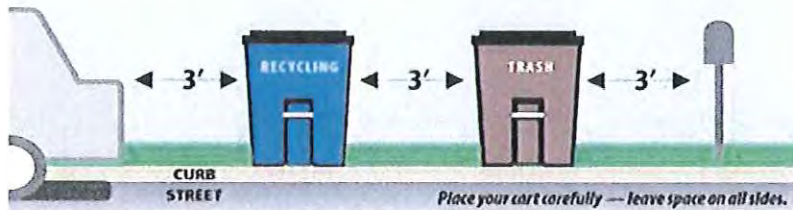
Plastic milk jugs, soda, detergent, shampoo bottles, butter tubs, & cool whip tubs

Metal Cans

Aluminum & steel cans, food & beverage cans, pet food cans, ALL METAL!



Please place your cart **3 feet away** from your garbage cart, cars, trees, or mailbox.



Most Popular

- Employment
- Pay Your Utility Bill
- One-Stop Shop
- Mayor's Message
- Florence Police Department
- Pay Parking Tickets
- Renew Business License

Site Tools

- Help
- Site Search
- Site Map
- Document Center
- Report a Problem
- Employee Portal

Resources

- Location & Map
- Current Weather
- City Calendar

Contact

- Emergency Numbers
- Contact Directory
- Email Us
- Connect With Us



City of Florence, Alabama
110 West College Street
Florence, Alabama 35630

(256) 760-6300

Master artwork may not be reproduced without the prior written consent of das.
© 2007 das Manufacturing, Inc.

4.0" DIAMETER / COLORS = DAS GREEN AND BLUE / BLACK ON BACK



FRONT



BACK

Transportation *Standard Specifications for Highway Construction*, latest edition.

(3) 110 pounds/square yard (1") hot bituminous concrete wearing course in accordance with Section 416, Mix A, of the Alabama Department of Transportation *Standard Specifications for Highway Construction*, latest edition.

(4) Prime coat in accordance with Section 401 of the Alabama Department of Transportation *Standard Specifications for Highway Construction*, latest edition.

The mix will be approved by the City Engineer and be covered in the latest memorandum recommendation from the office of the Alabama Department of Transportation County Transportation Engineer or as specified by the Alabama Department of Transportation *Standard Specifications for Highway Construction*, latest edition. Local approved limestone may be used in lieu of the siliceous aggregate requirement.

(j) Storm drainage: An adequate storm drainage system based on a minimum twenty-five (25) year design storm including curb, pipes, culverts, headwalls, and ditches will be provided for the drainage of surface water. All cross drains will have sufficient length for required typical section and will be installed according to ALDOT specifications. Minimum diameter of cross drain pipes will be eighteen (18) inches. Cross drains will be concrete pipe (Class III minimum) and will meet or exceed the current ALDOT specifications. Minimum diameter of side drain pipes will be eighteen (18) inches. Side drains will be either concrete pipe (Class III minimum), bituminous corrugated metal pipe with paved invert (14 gauge minimum), or High Performance Polyethylene pipe (color other than black).

All manhole covers for drainage structures shall be lettered "Dump No Waste! Drains to Waterways" with a raised fish image.

(k) Installation of utilities: After grading is completed and approved by the developer's engineer and City Engineer and before any roadbed processing of the sub-grade is performed, all of the underground utilities within the roadway prism will be installed completely and approved by the developer's engineer and the City Engineer throughout the length of the street and across the section. Once pavement is placed, it will not be open cut except with written permission of the City Engineer. Any utility desiring to cross the road will go over the road or dry bore under the road. All water lines located under pavement will be encased. Backfill placed in utility trenches will be a suitable material compacted to density requirements in accordance with the Alabama Department of Transportation *Standard Specifications for Highway Construction*, latest edition.

(l) Signage of subdivision: Proper signage in accordance with the *Manual of Uniform Traffic Control Devices*, latest edition, (MUTCD) will be required and maintained in all subdivisions. The developer will be responsible for the placement and maintenance of proper signage of new streets or roads until and unless the road is accepted into the city road system. A signage plan will be submitted to the City Engineer for approval prior to the installation of any street signs. Regulatory and warning signs will be in accordance with the MUTCD. All

PUBLIC INVOLVEMENT AND PARTICIPATION

- TVA Valley Sustainable Community Program
- TVA Valley Sustainable Communities Program Recognition Luncheon (12/4/14)
- TVA Valley Sustainable Community Program Awards & Press Conference (3/17/15)
- City of Florence Sustainability Green Team Program Press Release
- Billboards Displaying TVA Valley Sustainable Community Program Award
- Green Team Partners
- 2015 Clean-Up Day Flier & Rubbish Report (4/18/15)
- Recycling Showcase Event (4/3/15)
- Minimum Requirements for Construction Permitting and Erosion Control
- Permit to Construct Site Work
- Ordinance for Stormwater Operation and Maintenance
- Ordinance for Erosion and Sediment Control



TVA VALLEY SUSTAINABLE COMMUNITY PROGRAM

FLORENCE, ALABAMA

SUSTAINABLE INVENTORY AND MARKETING MESSAGES

OCTOBER 2014





Program Overview

The Valley Sustainable Communities Program initiated by TVA Economic Development provides a framework and structure to assist communities in making the commitment necessary to demonstrate the role sustainability plays in their areas as they work with existing and new companies. The program offers communities assistance in developing and implementing sustainability initiatives that not only serve to make the community more competitive, but also support TVA's environmental policy. Boyette Strategic Advisors (BSA) was engaged by TVA Economic Development to develop and assist in the management of the program.

The program's components allow communities to meet environmental, economic and social goals and be more competitive for investment. Components of the program address the following topics:

Preparation

- Sustainability Planning
- Community Participation and Education

Economic

- Business Competitiveness
- Land Use and Zoning
- Local Economies

Environmental

- Energy Efficiency
- Transportation
- Natural Resources
- Waste Management
- Water Conservation

Social

- Climate Protection/Air Quality
- Green Design and Construction
- Health and Wellness
- Education, Culture and Historic Preservation

To provide flexibility for communities, the program offers three levels of qualification based on a points system that allows participating communities to choose the portions of the program they believe will be most beneficial to their efforts. Communities will earn points in 15 categories by implementing specific policies and practices that contribute to overall sustainability, with an emphasis on those components that directly impact economic development efforts and/or the success of existing businesses in the community. Qualification levels are Platinum, Gold and Silver. Communities can also earn points in the Innovation category for activities that do not fall under the 15 other categories.





For communities with populations of 50,000 or less, the requirements would be to complete fewer required components at each level to qualify. Measures are worth 5, 10 or 15 points, depending on their difficulty and overall impact to economic development, and the maximum number of points that can be earned is 790, not including additional points for the Innovation category.

In addition to earning the required points to achieve recognition in the program, communities must also meet some mandatory baseline criteria for each level within the program. Following is the baseline criteria for recognition:

Silver Level

- Establish a Sustainability Team
- Develop (or have in place) a Community Outreach Program related to Sustainability

Gold Level

All Silver Level requirements, plus the following additional criteria:

- Develop (or have in place) a Greenspace Plan
- Address Sustainability in Community Land Use Plan
- Complete a Natural Resources Inventory
- Provide recycling options for residents (i.e. drop-off recycling)

Platinum Level

All Gold and Silver Level requirements, plus the following additional criteria:

- Develop (or have in place) Water Conservation and Protection Policies
- Complete a Carbon Footprint and Develop Greenhouse Gas Emission Goals
- Offer Residential Curbside Recycling
- Develop (or have in place) a Sustainability Plan

Qualification Level

Based on all of the activities and initiatives outlined below, the City of Florence qualifies at the Gold Level.





Inventory

An inventory of all current sustainable activities occurring in the community has been completed. The information below related to Florence was gathered through in-person discussions with members of the community’s Sustainability Team, information provided by the primary community contact and online research conducted by BSA. Please note that although BSA believes this is a very comprehensive inventory of all sustainable activities/initiatives occurring in Florence, there may be some activities that were not captured.

Preparation

Initial Qualification

Before applying and being selected to participate in the Valley Sustainable Communities Program, the community must obtain Mayor support and form a Sustainability Team. The City of Florence accomplished both of these tasks as follows:

- The Mayor is a member of the Sustainability Team.
- Florence’s Sustainability Team consists of: ¹

Name	Organization/Company
Melissa Bailey	City of Florence, Planning Department Director
Bill Batson	City of Florence Engineer
Melissa Bevis	City of Florence, One Stop Shop
Mike Doyle	Florence Utilities, Gas and Water/Wastewater
Jeff Ekholm	ECM Hospital
Blake Edwards	City of Florence, Council Member
Michael Gautney	University of North Alabama
Mickey Haddock	City of Florence, Mayor
Susie Heird	Shoals Economic Development Authority
Dee Hubbert	Planning Commission and Beautification Board
David Koonce	City of Florence, Solid Waste, Street and Recycling
Rachel Mansell	City of Florence, Recycling Education/Outreach
Richard Morrissey	Florence Utilities, Electricity
Todd Nix	City of Florence, Community Services
Matthew Oglesby	ECM Hospital
Connie Wallace	Florence City Schools
Michael Thompson	University of North Alabama
Thomas Trissl	TMT America, Inc.
Janet Womack	Florence City Schools





Sustainability Planning

A community must first make a commitment to a sustainability program and develop a plan to ensure that program is effective. Florence has completed the activities listed below to help ensure that a solid foundation is in place as the community further expands its sustainability initiatives.

Inventory and Marketing Messages

- Working with BSA as part of this program, Florence has received this Sustainable Inventory of its current sustainability programs/initiatives.
- Working with BSA as part of this program, Florence has received Sustainability Marketing Messages focused on current sustainability programs/initiatives that would be most important to business/industry considering locating or expanding in Florence.

Sustainable Plan

While the City of Florence does not currently have a sustainability plan in place, the city has a Comprehensive Plan that includes the following categories, some of which address sustainability.²

- Major Development Components
 - Green infrastructure
 - Activity Centers
 - Neighborhoods
- Land Use and Transportation
 - Citywide Development Patterns
 - Uses of Land
 - Gateways and Corridors
 - Traffic and Roadways
- Public Investment and Improvement
 - Roadway and Intersection Improvements
 - Water System Investment
 - Wastewater System
 - Major Parks and Recreation Centers
 - Public Buildings and Sites
- Implementing the Plan
 - Growth and Development Regulation
 - Other

Community Preparation and Education

Educating the public and making resources available to assist residents helps to ensure that the community embraces sustainable activities and programs. Florence has completed the activities below, providing a framework for engaging the community in sustainability initiatives.





Online Sustainability Resources

- The Florence Goes Green program is an online, citywide green initiative with a wide-range of resources available to all residents. The website has information about the city's litter prevention program that promotes litter prevention through education and action. This program supports Adopt-a-Street, the Florence police department promoting their litterbug hotline, and the citywide cleanup event. Also, on the website there is a tab titled Resource Center that currently provides four different resources to use as a reference in efforts to go green. Moreover, www.florencegoesgreen.org has a kid connection tab that has two videos and an activity to promote recycling. To help simplify the information available related to Energy Conservation, www.florencegoesgreen.org has broken energy conservation information down into four categories: basic energy savings tips, electricity, natural gas, and water.³
- The Florence Utilities Gas and Water/Wastewater Department provides online energy conservation⁴ and water conservation tips.⁵
- The Florence Electricity Department includes a newsletter on its website that includes energy savings tips and other information.⁶
- Shoals Earth Month Inc. is a non-profit board that hosts the Annual Earth Day Festival in the Shoals. The mission of Shoals Earth Month Incorporated is to provide and support educational opportunities for individuals, families, local governments, schools, businesses, and organizations to enhance understanding of the importance and interconnectedness of all natural systems and to celebrate the beauty, bio-diversity, and abundance of life on Earth.⁷ The Shoals Earth Month Inc. website has a green resources section.⁸

School-based Sustainability

- The Florence Public Schools have classroom and grade-level competitions regarding various green and sustainable projects. The school system also promotes school gardening programs in partnership with career tech programs that are based in agriculture and horticulture at various campuses. Moreover, Florence High School has recycling collection bins.⁹
- Florence Goes Green provides the following programs to local schools, educators and other groups.¹⁰
 - Recycle Center Field Trip
 - Landfill Field Trip





- Biodiesel Plant and Wastewater Treatment Plant Field Trip
 - Educational Outreach for On-site Presentations
- The Florence Electricity Department provides safety and energy programs to schools and civic groups at no charge.¹¹

Community Outreach/Sustainability

- Keep the Shoals Beautiful (KTSB) is a non-profit that is hosted by the Shoals Chamber of Commerce. The KTSB board's mission is to promote a cleaner, healthier and safer community to protect our natural resources through education, enforcement and action. KTSB programs include the following:
 - KTSB challenges all students (K-6 grades) within Lauderdale (the county that Florence resides in) and Colbert Counties to maintain an environmentally friendly campus with litter prevention and recycling programs. The Litter Prevention Champ receives a Steve Trash Litter Prevention Champ Trophy that will be displayed in the school for a year, a \$150 cash prize, and recognition at the annual KTSB Awards Ceremony.
 - KTSB also has a trailer with equipment that can be borrowed for Litter Free events or clean ups.
 - KTSB provides two \$500 scholarships each year for student members.
 - KTSB has education support for teachers and students on their website, as well as a way to report littering and dumping, and links to resources and anti-littering publication.¹²
- The city has a litter prevention program that promotes litter prevention through education and action. This program supports Adopt-a-Street, the Florence police department promoting their litterbug hotline, and the city-wide cleanup event.¹³
- The Alabama Cooperative Extension offers classes and trainings on water reuse to Florence residents including the use of rain barrels.¹⁴

Economic

Business Competitiveness

Many companies today have indicated and shown a strong commitment to sustainability. Activities in this category should be focused on increasing a location's economic development competitiveness by offering programs of importance to current and potential new businesses. Below is information about sustainable business developments in Florence.





Resources for Companies Practicing Sustainability

- A Green Team Committee of city leaders has been assembled in Florence. The Certified Green Team Partnership Program, discussed below in more detail, is not only recognizing companies for green practices but is encouraging other companies to incorporate green practices and be environmentally friendly.¹⁵
- The One Stop Shop is a helpful guide that provides information about all the City of Florence services that a new or expanding business could need. The One Stop Shop provides the following services: arranges for companies to meet department contacts; outlines services available and provide new business information; organizes pre-development meetings; provides applications and other valuable information; informs the client of the next step in the business process; and informs the client of business resources.¹⁶

Workforce Training for Sustainable Occupations

Northwest Shoals Community College, located outside of Florence in the Town of Muscle Shoals, provides workforce development education for the area. Sustainability related courses offered include the following: air conditioning/refrigeration, energy management technology, environmental health safety technology, water/wastewater management.¹⁷

Land Use and Zoning

How a community manages new development and use of existing land is a key component of a sustainability program. Below are land use and zoning activities that positively contribute to sustainability in Florence.

Land Use Plans that Encourage Sustainability

- In 2007, Florence created a Comprehensive Plan. The first major development component in the plan is related to green infrastructure. To facilitate decisions about construction, the city mapped all surface water resources, floodplain areas, wetlands, and steep slopes. The Comprehensive Plan has two green infrastructure policies, outlined below, that are to be applied to construction in the various types of activity centers that the plan recognizes.
- Conserve green infrastructure and landscape form: The river's edge, natural woodlands along all of the city's watercourses and the rural landscape within and surrounding Florence are some of its greatest assets. Streambeds, wooded streambanks and floodplains are linear elements of the landscape that should be conserved. Development should be planned and arranged within the landscape.





- Organize development to capitalize on critical open spaces: The city's most important and scenic locations should be reserved for public open spaces. These places and their interconnections should be accounted for as part of a citywide open space network. Once key areas are selected, appropriate public uses should be determined, whether it be for greenways, community parks or regional parks. These should be linked together into an overall citywide open space system, and development should be planned and designed so that buildings look into these areas rather than back up to them.¹⁸
- The Comprehensive Plan has a future land use map. The map is intended to serve several functions that are also applied to the city's various activity centers.
 - Avoid and resolve land use conflicts
 - Identify and sustain desirable land use patterns
 - Forecast infrastructure needs
 - Provide a foundation for zoning decisions
- The land use plans in the Comprehensive Plan are intended to enlarge the city's holdings on behalf of the public to include at least the following:
 - Greenways to provide opportunities for walking and bicycling, act as wildlife corridors, development buffers, and storm water recharge areas and to provide links in the chain of the city's public park system. Ideally, they should eventually include all significant streams and appropriate portions of their floodplains. The use of greenways for multi-purpose trails should avoid redundancy with sidewalks and bikeways, but should strive to interconnect public parks and open space areas.
 - Citywide parks should preserve the natural character of the city while providing both active and passive recreational opportunities. They may be important for the protection of historical sites, significant land features, watersheds and wildlife and as outdoor recreation centers. Park facilities and buildings should foster a positive community image, and sense of pride, which should be evident in the use of local materials and respect for local context.
 - Community parks should serve a range of both passive and active recreation needs appropriate to their location and context. They may provide a mixture of activities and uses such as active sports fields, play areas, trails, informal practice fields, picnic areas, outdoor classrooms and gathering places such as a community center. They should be carefully integrated into the natural environment, ideally with a significant portion of the land area held in a natural, tree-covered state. Park facilities and buildings should foster a positive community image, and sense of pride, which should be evident in the use of



- local materials and respect for local context.
- Neighborhood parks should provide relatively small residential areas with opportunities for appropriate levels and types of both active and passive recreation. Neighborhood parks provide a place for informal community gatherings and neighborhood events, and may include such features as shaded paths, playground structures and open space for active play.¹⁹
 - Residential growth should be organized as neighborhoods rather than merely as subdivisions. This is described as a planned unit development district in the Zoning Ordinance. The Planned Unit Development District (PUD) is intended to permit and encourage flexibility and to accomplish the following purposes:
 - To stimulate creative approaches to the residential and commercial development of land and streetscape design;
 - To provide more efficient use of land;
 - To preserve natural features and provide common open space areas and recreation areas;
 - To develop new approaches to the living environment through variety in type, design and layout of residential structures, commercial buildings, transportation systems, public facilities, shared parking and pedestrian ways;
 - To unify building and structures through a common design scheme; and
 - Buffer land uses proposed for the PUD so as to minimize any adverse impact, which new development may have on surrounding properties; additionally provide buffers and transitions of density within the PUD itself to distinguish between different land use areas.
 - Inherent to realizing these objectives are being followed is continuous and in-depth scrutiny of the proposed Planned Unit Development (PUD). Hence, to enable thorough analysis of a PUD, more information is demanded about the proposal than would be required if development were being pursued under conventional zoning requirements. The development of a PUD allows flexibility from the restraints of the conventional Zoning Ordinance and Subdivision Regulations and shall be granted only upon a recommendation of the Planning Commission and approval by the City Council.²⁰
 - According to the PUD, growth is channeled to balance expansion with infill of vacant properties²¹
 - Mixed-use village centers of various sizes are encouraged with special attention in the Zoning Ordinance and Subdivision regulations. In the Zoning Ordinance these centers are called sweetwater districts. This type of district promotes and encourages the pursuit and development of a mix of housing, specialty retail and services, restaurants,



arts and cultural venues, entertainment and “nightlife” within a creative, innovative, safe and attractive environment. Proposed development or re-development within the area shall be in such a manner to maintain the unique, historic character of the district with the incorporation of architectural and landscaping guidelines as well as a pedestrian friendly streetscape to provide a strong sense of place for the community.²²

Brownfield/Grayfield Redevelopment

- The EPA has selected the City of Florence for two brownfields assessment grants. Hazardous Substances Grant funds will be used to inventory sites and conduct about 20 Phase I and 10 Phase II environmental site assessments within the Sweetwater Arts and Entertainment District. Petroleum Grant funds will be used to inventory sites and conduct about 25 Phase I and 12 Phase II environmental site assessments within the District. Grant funds also will be used to support community outreach activities.²³
- Florence has a Brownfield Redevelopment Task Force.²⁴
- The 7-Points Shopping Center, a grayfield site, is being redeveloped by a private developer.
- Within the Florence Comprehensive Plan, infill is promoted to revitalize and redevelop areas of the city including downtown.

Local Economies

Encouraging residents to support local businesses and buy locally not only boosts the success of the businesses, but also reduces travel and the overall impact on the environment. Florence has the following programs in place to support local businesses.²⁵

Sustainable Gift Fair

The Court Street Market is a privately owned business that promotes local artisans and farmers. Items will be locally sourced and organic and range from produce and cheese to vino and baked goods. In addition, two farm to table restaurants will be located at the market.²⁶

Farm to Table

- Florence has a farmers’ market on Tuesdays, Thursdays, and Saturdays from May to October.²⁷
- Florence has two Community Supported Agriculture (CSA) farms: Aliyah Acres, and Windy Hill Farms.²⁸





- The Shoals Entrepreneurial Center houses the Culinary Academy. The teachers at the Culinary Academy promote local ingredients and produce when possible.²⁹

Buy Local Campaign

- A regional-wide initiative, the "Made in the Shoals" campaign exposes and markets items that have been made in the Muscle Shoals area. Companies participate in the marketing program to generate more awareness about artisan items in the area. A special label is given to all companies for their products that mark the item as Made in the Shoals.³⁰
- The city and the electric utility give preference to local vendors when purchasing goods and services.³¹

Green Business Recognition

The City of Florence is now offering a green certification for businesses and non-profits. The goal of the Certified Green Team Partnership Program is to highlight and support the businesses and non-profit organizations in Florence that are committed to green practices. The free application for the certification is a checklist including sustainable practices such as water conservation, energy conservation, pollution prevention, and waste reduction.³²

Companies that become Green Team Certified will be recognized by the Mayor at a Council meeting, receive a green logo for publications, and join the list of green businesses on the www.florencegoesgreen.org website.³³

Environmental

Energy Efficiency

Energy efficiency initiatives are often among the first to be addressed by community sustainability programs. The activities below outline opportunities to assist both residents and businesses, which seek to be more energy efficient that have been implemented by Florence.

TVA Green Power Switch and Providers Program

- Florence Utilities Electricity Department participates in the TVA Green Power Switch Program, which allows \$4 green power blocks to be purchased by commercial and industrial members to ensure 150 kilowatt/hours of electricity are generated sustainably.³⁴





- Florence Utilities Electricity Department also participates in the TVA Green Power Providers Program.³⁵
- As part of the TVA Green Power Provider program, two commercial buildings have solar panel installations. Those include the following buildings.³⁶
 - Shoals Entrepreneurial Center – 12kW capacity
 - Cloverdale Village (former Food World) – 50 kW capacity

Energy Audits to Residents and Businesses

- TVA and Florence Utilities Electricity Department are providing free energy efficiency kits to customers who complete a do-it-yourself home energy audit. The offer is part of TVA's effort to help inform the public about energy efficiency while providing tools consumers can use now to start saving energy in addition to money on their electric bills.³⁷
- TVA and Florence Utilities Electricity Department provide engineering and technical assistance to business and industry covering all areas of energy use, including energy audits.³⁸

Other Customer Services

- The Florence Utilities Electricity Department participates in the TVA Comprehensive Services Program, which offers demand-side management, HVAC improvements, infrared scans, ultrasonic testing, lighting system design, electrical usage metering, power factor grounding, power quality evaluation, water heating efficiency, and wiring and electrical distribution improvements for businesses.³⁹
- Florence Utilities Electricity Department participates in TVA's EnergyRight program, where they will finance up to \$10,000 for a heat pump retrofit, provide \$200 cash for all electric, energy efficient, new homes, and provide \$50 for a new electric water heater.⁴⁰
- Florence Utilities Electricity Department offers Energy Depot, a set of online tools and resources to help customers better understand and manage energy use and costs.⁴¹

Energy Audits of Government Facilities

- The Municipal Building and Florence/Lauderdale Government Building have completed energy audits, replaced and updated the lighting, and is in the process of updating the heating and cooling systems. The City of Florence has implemented green practices in many departments and buildings.⁴²





- An energy audit was completed of the city-owned parking deck that resulted in lighting sensor installations.⁴³
- Schneider Electric implemented energy efficiency capital improvements at Florence City Schools that are responsible for unit savings of 4,447,261 kWh of electricity and 46,995 CCF of natural gas. The district's lower utility usage results in a smaller environmental impact representing an approximate 3,217 ton reduction in CO2 emissions.⁴⁴
- The City of Florence Water Department has received approximately \$5.8 million in low interest loans and grant funds from the Alabama Department of Environmental Management to upgrade the City of Florence Wilson Lake drinking water plant intake. A portion of this project, at a cost of approximately \$620,000, will be to upgrade to more energy efficient electrical equipment including the installation of variable frequency drive pumps, resulting in an annual power savings of approximately \$30,000 per year for the department's operation budget. This portion of the project will be funded by the low interest Alabama Department of Environmental Management loan and a TVA energy efficiency grant of \$300,000. Once installed, the energy efficient equipment will reduce energy consumption at the plant by over 375,000 kilowatt hours per year.⁴⁵

Energy Efficient Traffic Lights

The entire traffic lighting system in the City of Florence has been updated to LED lighting.

Alternative Energy Installations

- The University of North Alabama replaced high-energy use equipment and put a 66 panel solar installation on Keller Hall.
- The City of Florence installed solar powered lighting on the wayfinding sign located on Highway 72 near Kendall Gardens.⁴⁶

Transportation

Limiting the number of cars on the road and ensuring that those vehicles are as efficient as possible can significantly reduce environmental impact. Florence has implemented the following transportation initiatives to reduce environmental impact.

Bicycle and Pedestrian Friendly Policies

- The City of Florence Subdivision Regulations require all new developments, residential and commercial, to have, and maintain open space and/or significant landscaping, and sidewalks.⁴⁷





- The Comprehensive Plan discusses providing sidewalks in commercial and residential areas where appropriate as well as providing adequate tree frontage to shade the sidewalks.⁴⁸
- The University of North Alabama is a pedestrian campus with various pedestrian friendly policies such as campus bike sharing, a bus system that takes students to different areas of the community, and a policy that does not allow freshmen to obtain a parking pass on campus.⁴⁹

Complete Streets Policy

Florence has adopted a Complete Streets resolution.⁵⁰

Commuter Parking Lot

A commuter parking lot is located in the parking deck on Pine Street in Downtown Florence.⁵¹

Fuel Efficient Vehicle Stations

- Florence has one residential charging station and one public charging station at Nissan.⁵²
- Beginning in 2008, the City of Florence began a biodiesel recycling program. The first batch of biodiesel was produced August 19, 2008. A year later the city had produced a total of 840 gallons of 100 percent biodiesel from used cooking oil. This means that 840 gallons of cooking oil did not go to the sewer and it did not go into the landfill. The 840 gallons of biodiesel has been blended with purchased diesel to create 5, 10, 15, or 20 percent blends producing 3,900 gallons of blended fuel for city vehicles.⁵³

Sustainability at Local Airport

Northwest Regional Airport serves the region. The airport recently underwent improvements to the terminal to make the building more energy efficient, which should lead to lower utility costs.⁵⁴ The energy efficiency upgrades will increase user comfort and provide a sustainable exterior building envelope. The project includes an entirely new wall system composed of new exterior cladding, new wall and roof air and moisture barriers, new wall and roof insulation, a new roofing system and new interior wall finished along with new entrance canopies and signage. The airport has also implemented various performance standards set forth by the Department of Defense.⁵⁵





Other Transportation Initiatives

- Florence fosters an ongoing, positive relationship with the Alabama Department of Transportation to address access management in accordance with the comprehensive plan, which contains a 25-year forecast.
- The City of Florence is an active funding partner of the local public transportation system and the University transit system.⁵⁶

Natural Resources

Protection of natural resources is a key component of any sustainability initiative. Florence has implemented the following programs to enhance natural spaces and protect existing resources.

Natural Resources Inventory

Florence does not have a comprehensive Natural Resources Inventory but in its' Comprehensive Plan, the city discusses its natural resources and how to best protect them.⁵⁷

Tree Preservation

- Florence has been a Tree City USA for 27 years.⁵⁸
- Florence has a tree commission which is responsible for studying, investigating, counseling, developing and/or updating annually, and administering a written plan for the care, preservation, pruning, planting, replanting, removal or disposition of trees and shrubs in parks, along streets and in other public areas. They co-sponsor a Tree Workshop each year in February.⁵⁹
- The Urban Forestry Department of the City of Florence oversees the city's landscaping needs, tree planting programs, and renewal of the older urban trees. In addition to acquiring, planting, and caring for new plantings of trees and ornamental plants, special attention is given to old, mature trees and their maintenance. The Urban Forester/Horticulturist also executes the landscape beautification program for the city.⁶⁰

Natural Resources Protection

The City of Florence Comprehensive Plan describes the long-range planning efforts for the protection of natural resources. Regulations such as the Zoning Ordinance and supplements, and Subdivision Regulations address the day-to-day protection through development practices.⁶¹ The plan includes the following efforts:





- Conserve green infrastructure and landscape form
- Organize development to capitalize on critical open spaces
- Plan activity centers for residents that positively affect urban form and adjacent to neighborhoods with transportation networks⁶²

Pet Waste Program

The City of Florence has an ordinance that requires the owners of pets to be responsible in removing any and all pet waste in public areas, recreational areas and private property.⁶³

Community Gardens

The Florence Community Garden opened in April 2014. It's located next to the Lauderdale County Extension Office on Veterans Drive. The purpose of the garden is to promote locally grown food and self-sustainability. Organizers said they also wanted to provide garden space for people who may not otherwise be able to garden.⁶⁴ The garden consists of 45 raised beds.⁶⁵

Organic and Drought Tolerant Landscape Practices⁶⁶

- The Florence Sports Complex irrigates 19 athletic fields with water fed by a well pump to a lake.
- Within River Heritage Park, a fountain, which is also a kids play area and features a music and light show, re-circulates and treats 34,000 gallons of water in a holding tank.
- Blackberry Trail Golf Course has an irrigation system that is supported by the in-site lake.

Waste Management

Managing and reducing waste that goes into landfills is often a centerpiece of sustainability programs. Florence has the following waste management initiatives in place.

Recycling in City Parks/Government Buildings

- Permanent recycle bins are located in Wilson Park, Dilbert Park, Sportsplex, Braly Stadium (Florence High school-UNA College Stadium), and there are also three bins along Court Street.





- Six-gallon desk recycling bins are provided to all city employees and 96 gallon blue recycle carts are located throughout government buildings that are collected weekly for all recyclable materials. Ink cartridge & cell phone collection bins are also located in three locations of the government building.

Recycling Services Offered to Residents and Businesses

- The City of Florence has provided single-stream curbside recycling services to residents since 1988. The following can be recycled: cardboard (both corrugated and chipboard), all types of paper, all types of aluminum, plastic bottles #1 and #2, steel, motor oil, and cooking oil.⁶⁷ The program has received national recognition and has remained one of the most successful and longest running programs in the state. The facility sorted 3.5 tons of recyclables last year and the collected materials are sold to local industries. The City of Florence received a grant from the Alabama Department of Environmental Management to upgrade the facility. In 2013 the plant was completely redesigned with conveyors and drop bins to increase efficiency in the processing of materials.⁶⁸
- Curbside comingled recycling is collected weekly citywide. Recycling is collected in bags, bins, boxes, or carts. The City of Florence has implanted RFID technology along with 64-gallon carts to 3,006 residents through grants. Florence is working toward supplying carts citywide to all residents.⁶⁹
- The City of Florence provides recycling services to businesses. The following is recyclable: computer paper, sorted office paper, newspaper, cardboard, other paper, and aluminum.⁷⁰

Recycling Drop off for Electronics, Batteries and Cell Phones

The City of Florence has an electronic recycling drop off location that accepts computers, monitors, telephones, cell phones, phone systems, fax machines and central office equipment, banking and financial equipment, medical equipment, rechargeable batteries, electronic circuit boards and components, stereo equipment, games, and PDA's.⁷¹

Yard Debris Composting

The City of Florence Street Department collects leaves curbside for residents. The leaves are composted and leaf debris is available to residents at no charge.⁷²

Materials Reuse

The City of Florence has a biodiesel recycling program, which recycles cooking oil to produce blended fuel for city vehicles.⁷³





Other Waste Management Initiatives

- There are 10 recycle bins and 10 garbage bins that are utilized at festivals or other events in Florence.
- The Parks and Recreation Department utilizes the Clear Stream recycle bins at city park events and at Florence Lauderdale Coliseum Events.

Water Conservation

In addition to natural resources protection, water conservation should specifically be addressed in sustainability programs. Florence has implemented the following initiatives related to water management issues.

Community Wastewater and Stormwater Management Plan

In the City of Florence Comprehensive Plan, it is referenced that in 2003 the city completed a comprehensive plan for wastewater facilities to plan for projects the city may need over the ensuing 10 to 15 years. The city has completed, or is in the process of completing, all the first priority projects in the plan.⁷⁴

Watershed Protection Policies and Activities

- The City of Florence has an ordinance for stormwater operation and maintenance.⁷⁵
- The City of Florence Water Department has received approximately \$5.8 million in low interest loans and grant funds from the Alabama Department of Environmental Management to upgrade the City of Florence Wilson Lake drinking water plant intake. A portion of the funds, \$315,000, will originate from a clean air agreement that was signed between the Tennessee Valley Authority, the State of Alabama, and other entities while the remaining \$5.5 million will originate from the ADEM Drinking Water State Revolving Fund.⁷⁶
- Section thirteen of the Florence Zoning Ordinance is titled: stormwater detention and minimum requirements for construction permitting and erosion control. It mandates that stormwater detention shall be provided for all developments within the city and the extraterritorial zoning jurisdiction. Along with the permit for construction the owner/developer will submit a plan for Best Management Practices that will describe in detail the use of silt fences, hay bales, rip rap siltation basins, and other means to be used for erosion control.⁷⁷
- Florence is beginning the implementation of an Automatic Meter Reading (AMR)





program by the Water Department for the City's water meters. Funded through the State of Alabama State Revolving Loan Fund, the program will result in the equipping of 24,500 water meters with AMR and will reduce unaccounted for water loss in the city's water system, while at the same time providing accurate use measurement and leak detection to businesses and customers, thereby reducing and stabilizing cost in the future for all. As a parallel program, the Gas Department is installing 15,000 AMR units on its gas meters also.⁷⁸ Contractors for the City of Florence will begin installing the AMR system for gas and water customers beginning in May 2014 with a projected duration of 24 months.⁷⁹

Water Reuse Policy

The entrance sign to the City of Florence includes a custom solar irrigation system designed to capture storm water.⁸⁰

Societal

Green Building Design and Construction

Both commercial and residential construction activities are moving toward green design initiatives, which impact a variety of sustainable areas. Below are activities by Florence or its partners that support and encourage green design and construction.

Sustainable Buildings

- Florence has one Energy Star rated building. It is ECM Hospital and was labeled with a rating of 75 in 2010. The total floor space of the building is 406,324 square feet.⁸¹
- Sustainable developments, both residential and commercial, are encouraged in the City of Florence Comprehensive Plan, and developmental regulations such as the Zoning Ordinance and supplements, and Subdivision Regulations.⁸²

Health and Wellness

The overall health of a community's residents is an important part of a commitment to sustainability. The activities below address green space, workplace wellness and other programs implemented by Florence and its partners that contribute to a healthy community.

Community Wellness

- The Florence Comprehensive Plan intends to enlarge the city's holdings of greenways on behalf of its residents to provide opportunities for walking and bicycling, act as wildlife corridors, development buffers, and storm water recharge areas and to provide links in





the chain of the city's public park system. The use of greenways for multi-purpose trails should avoid redundancy with sidewalks and bikeways, but should strive to interconnect public parks and open space areas.⁸³

- The Sports Complex is a state of the art facility comprised of more than 180 acres that has eight softball fields, five baseball fields, six soccer fields, and an irrigation lake fed by well water.

Greenspace

- The City of Florence does not appear to have a Greenspace Plan. However, Florence Comprehensive Plan states that in all non-residential areas at least ten percent of the total site area shall be dedicated to accessible, usable, pedestrian sensitive open space. Where feasible the standard should be fulfilled with plazas, courtyards or other similar public spaces at or adjacent to building. In all neighborhoods and residential development there shall be included a legible, compact center appropriate to the needs of the residents, for example, a park or usable community open space. And at least fifteen percent of the total residential development shall be dedicated to accessible, usable, pedestrian-sensitive open space that includes appropriate focal points.⁸⁴
- The City of Florence is unique with the vast amount of greenspace offered to citizens and tourists, with nearly 1,000 acres.

Education, Culture and Historic Preservation

Involving educational and cultural institutions in sustainability initiatives provides mechanisms for involving more people from across the community. Florence is engaged in the following educational, cultural and historic preservation activities.

School Gardening

The Florence Public School System promotes school gardening programs in partnership with career tech programs that are based in agriculture and horticulture at various campuses.⁸⁵

Downtown Revitalization

- Downtown Florence Unlimited (DFU) is an organization comprised of retail and service businesses, educational institutions, non-profit organizations and individuals that works in cooperation with the City of Florence, Florence/Lauderdale Tourism Department, the University of North Alabama, and the Florence Main Street Program to support the vitality of Downtown Florence.⁸⁶
- Florence Main Street is a non-profit organization designed to keep Florence "unique and





wonderful.” The organization’s mission is to bring attention to the unique character of Florence’s historic commercial district while promoting progressive marketing and retail management techniques. Florence Main Street host more than 200 events, such as First Fridays, Music in the Park, the Renaissance Faire, Arts Alive, the Handy Festival, and numerous events at the Shoals Theatre.⁸⁷

Sustainability Curriculum

The environmental biology option under the Biology major at the University of North Alabama is designed for students who wish to prepare for positions requiring a general background in biology, with ancillary work in computer science, chemistry, physics and earth science, and mathematics. This program should prepare the student for positions in natural resource utilization, environmental research, and environmental education; or for graduate work in environmental biology.⁸⁸

Sustainable Initiatives in Higher Education

The University of North Alabama has several sustainability initiatives on campus including:

- In the 2010 Campus Master Plan, sustainable site planning and design is a concern including:
 - Maintaining and enhancing the interconnected series of open spaces in the campus core created by careful placement of new buildings and shifting of parking to perimeter facilities;
 - Restoration, enhancement, and celebration of drainage ways, creeks, and wetlands to allow them to better serve as campus amenities;
 - Re-landscaping with indigenous plant materials to help minimize water use;
 - Decoupling impervious surfaces and replacing or installing drainage swales (rather than storm sewers) to remove and percolate runoff as necessary;
 - Reduction of heat island effects through tree planting and building orientation to provide shade;
 - Interconnection of key areas via an integrated pedestrian/bike/open space system;
 - Buildings sited so outdoor spaces may be shaded in summer, accept south sunlight in winter, and encourage inside/outside use in moderate and fair weather.
- There is a natural open space project that reclaims a large part of the campus previously developed for student apartments. The site will be restored to a near natural state and will serve as a linear park continuing the greenway emanating from the center of





campus.⁸⁹

- Two students and one graduate of the University of North Alabama have come together to form the Shoals Cycling Initiative, a group that works to promote sustainable energy and cycling within the quad city area.⁹⁰
- Dining Services sustainability efforts include:
 - Trayless dining
 - Recycling fryer oil into biofuel
 - Local / seasonal / responsible sourcing
 - Local dairy
- The University of North Alabama and the City of Florence Recycling Center received a grant from the Alabama Department of Environmental Management to improve and increase recycling initiatives on the university campus. The funds will be used to purchase recycling containers for placement across campus.⁹¹

Innovation

The City of Florence Welcome sign is a sustainable beacon in the community. It boasts solar lighting, storm water capture, mulch from recycled tires, drought tolerant landscaping and is made from recycled aluminum and steel poles.⁹²





Sustainability Marketing Messages

Following are recommended economic development key messages related to sustainability for the City of Florence that would be most important to business and industry:

- The City of Florence is now offering a green certification program for businesses and non-profits. The goal of the Certified Green Team Partnership Program is to highlight and support the businesses and non-profit organizations in Florence that are committed to sustainable practices and encourage other existing business to engage in more sustainable practices.
- TVA and Florence Utilities Electricity Department provide engineering and technical assistance to business and industry covering all areas of energy use, including energy audits.
- The entire traffic lighting system in the City of Florence has been updated to LED lighting.
- Florence has been a Tree City USA for 27 years.
- The City of Florence provides recycling services to businesses.
- Weekly farmers markets are promoted citywide.
- The City of Florence has more than 1,000 acres of greenspace.





Observations

The Valley Sustainable Communities Program is designed to recognize communities for their sustainability initiatives, with a particular focus on programs that impact economic development and business success. The following observations are designed to enhance Florence initiatives in these key areas.

- The City of Florence should separate all elements of sustainability within the comprehensive plan to develop a stand alone Sustainability Plan.
- To further support the local economy and locally owned businesses, Florence should consider developing a local products directory and expand its buy local marketing programs.
- The City of Florence needs to increase their focus on sustainability programs that support business and industry in becoming more sustainable, which may include sponsoring networking opportunities, such as a lunch n' learn or happy hour for businesses interested in learning about sustainability on a bi-monthly basis.
- The City of Florence could promote LEED or other sustainable building standards by implementing incentives such as expedited permitting for companies seeking to build sustainably and/or implementing city policies that require future or renovated government buildings to be built to sustainable building standards.
- Consider developing a Green Development Checklist to be used as part of the city planning application to further encourage sustainable building.
- Develop a formalized Community Trails program to identify, develop and promote multi-use trails throughout the city.





- ⁵⁵ Information provided in Sustainable Communities Application
⁵⁷ <http://www.florenceal.org/Florence%20Comp%20Plan%20FINAL.pdf>
⁵⁸ <http://www.arborday.org/programs/treeCityUSA/treecities.cfm?chosenstate=Alabama>
⁵⁹ http://ci.florence.al.us/Administration/Boards_Commissions/index.html
⁶⁰ http://ci.florence.al.us/City_Departments/Urban_Forestry/index.html
⁶¹ <http://www.florenceal.org/Florence%20Comp%20Plan%20FINAL.pdf>
⁶² <http://www.florenceal.org/Florence%20Comp%20Plan%20FINAL.pdf>
⁶³ Information provided by community.
⁶⁴ <http://www.myfoxdaily.com/story/25257531/shoals-community-garden-now-open>
⁶⁵ http://www.timesdaily.com/news/local/article_dcf4f90e-9d12-11e3-b37a-0017a43b2370.html
⁶⁶ Information provided by the community
⁶⁷ http://ci.florence.al.us/Public_Works/Recycling/Residential_Recycling/index.html
⁶⁸ <http://florenceal.org/blog/recycle-center-open-house-celebration/>
⁶⁹ Information provided by community.
⁷⁰ http://ci.florence.al.us/Public_Works/Recycling/Commercial_Recycling/index.html
⁷¹ http://www.florencegoesgreen.org/Recycling_Florence/recycling_program__electronics.html
⁷² From sustainability tour information.
⁷³ http://www.florencegoesgreen.org/Recycling_Florence/cooking%20oil.html
⁷⁴ <http://www.florenceal.org/Florence%20Comp%20Plan%20FINAL.pdf>
⁷⁵ http://www.florenceal.org/City_Departments/City_Engineer/Ordinance%20Stormwater%20Operation%20and%20Maintenance.pdf
⁷⁶ <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=11&ved=0CFoQFjAK&url=http%3A%2F%2Fwww.adem.state.al.us%2FnewsEvents%2Fpressreleases%2F2014%2FADEM%20FlorenceUpgrades.pdf&ei=Qt7GU7iuM47IsAT3zYJI&usq=AFQjCNFhia3jZ5ziZnDOZSXpERfFYUZK4g>
⁷⁷ http://ci.florence.al.us/City_Departments/Building_Department/index.html
⁷⁸ Information provided in Sustainable Communities Application.
⁷⁹ <http://www.florenceutilities.com/>
⁸⁰ Information provided by community.
⁸¹ http://www.energystar.gov/index.cfm?fuseaction=labeled_buildings.showMiniProfile&building_type_id=ALL&year=&s_code=AL&search_prop_manager_id=&search_owner_id=&FILTER_B_ID=&zip=&STARTNUM=1&search_spp_id=&city=Florence&profiles=0&b_id=b_2341255
⁸² Information provided by community.
⁸³ http://www.florenceal.org/City_Departments/Planning_Department/Comprehensive_Planning/index.html
⁸⁴ http://www.florenceal.org/City_Departments/Planning_Department/Comprehensive_Planning/index.html
⁸⁵ Information provided by community.
⁸⁶ www.downtownflorenceunlimited.org/about.html
⁸⁷ www.florencemainstreet.org/about/
⁸⁸ <http://www.una.edu/biology/biology-programs/environmental-biology.html>
⁸⁹ www.una.edu/administration/docs/final-master-plan.pdf
⁹⁰ <http://www.una.edu/pressroom/detail.php?id=456&date=2011-09-30>
⁹¹ <http://www.una.edu/pressroom/detail.php?id=555&date=2012-03-16>
⁹² http://courierjournal.our-hometown.com/news/2012-10-17/Front_Page/Going_Green_OutsideIn.html?print=1





TVA Valley Sustainable Communities Program Recognition Luncheon – December 2, 2014

Welcome

Heidi Smith, General Manager, Global Business of TVA Economic Development

Opening Remarks

John J. Bradley, TVA Senior Vice President of Economic Development
Del Boyette, President & CEO of Boyette Strategic Advisors

Presentation of Awards

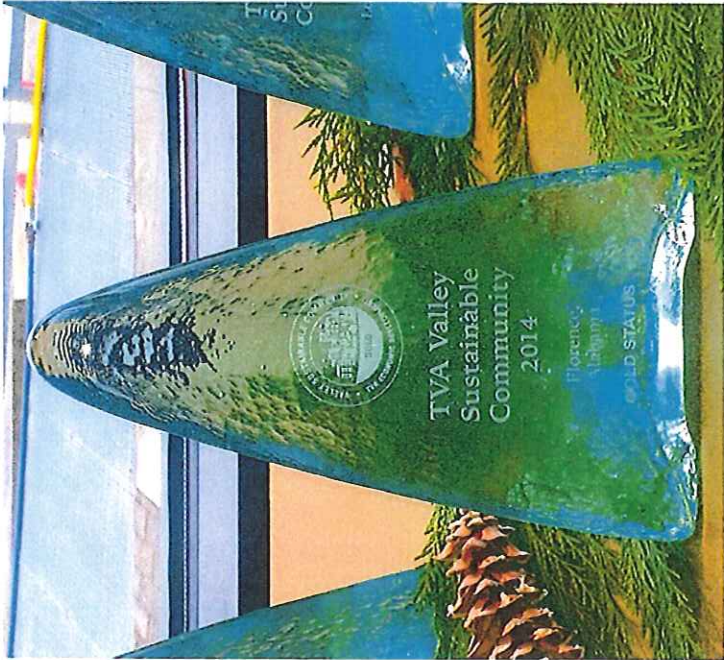
Heidi Smith, General Manager, Global Business of TVA Economic Development

Community Designations:

Maury County, Tennessee – Silver
Murfreesboro, Tennessee – Gold
Florence, Alabama – Gold
Logan County, Kentucky – Silver
Scottsboro, Alabama – Gold
Crossville/Cumberland County, Tennessee – Silver
Tupelo, Mississippi – Gold
Memphis/Shelby County, Tennessee – Gold
Huntsville, Alabama – Gold
Morristown/Hamblen County, Tennessee – Silver
Blount County, Tennessee – Gold
Starkville, Mississippi – Gold

Closing Remarks

Heidi Smith, General Manager, Global Business of TVA Economic Development





Valley Sustainable Communities Forum

Sustainable Thinking in an Economic Development World

Wednesday, March 9, 2016
10:00 a.m. to 1:00 p.m.

Welcome

Heidi Smith, General Manager, Global Business of TVA Economic Development

Valley Sustainable Communities Program Update

Dei Boyette, President & CEO of Boyette Strategic Advisors

Lunch

Sustainable Thinking: A Company's Perspective

Stephanie Myers, Kourig Green Mountain

Telling Your Sustainable Story in Today's Market

Melissa Madrox, VisorFirst Advisors

Moving Forward & Closing Remarks

Dei Boyette, President & CEO of Boyette Strategic Advisors

Milo Callaway, Program Manager, TVA Economic Development





AGENDA

TVA Valley Sustainable Community Program and
Florence Green Team Partners Recognition Awards & Press Conference
Tuesday, March 17, 2015
7:30 a.m. to 9:00 a.m.

8:15 a.m. – 8:20 a.m.

Welcome by Mayor Mickey Haddock

8:20 a.m. – 8:30 a.m.

Remarks by Mildred Calloway, TVA Senior Consultant,
Community Development - TVA Economic Development
Valley Sustainable Community Program - Florence Gold Designation

8:30 a.m. – 8:50 a.m.

Remarks by Rachel Mansell, City of Florence Education/Outreach Coordinator
Green Team Partnership Program
Presentation of Certificates and Photo with Mayor Mickey Haddock

8:50 a.m. – 8:55 a.m.

Closing by Mayor Mickey Haddock

8:55 a.m. – 9:00 a.m.

Questions from the Press





PRESS RELEASE

City of Florence • P. O. Box 98 • Florence, AL 35631 • (256) 760-6400 • Fax (256) 760-6388

FOR IMMEDIATE RELEASE

DATE: March 17, 2015
CONTACT: Mayor's Office
PHONE: (256) 760-6400
FAX: (256) 740-4665

CITY OF FLORENCE SUSTAINABILITY GREEN TEAM PROGRAM MARCH 17, 2015 - FLORENCE, ALABAMA

FUN FACTS:

- Florence served as a **Tree City USA** for **28 years**.
- Florence provides **curbside recycling citywide** and all City of Florence residents will receive 64 gallon recycling carts in April 2015.
- Florence traffic lights have been updated to **LED lights**. The downtown parking deck will receive LED lights Spring 2015.
- Florence Green Team Partnership Program has **62 partners** in promoting sustainability in the City of Florence.
- Florence has more than **1,000 acres of green space**.

Mayor Mickey Haddock is pleased to announce the TVA Sustainable Community Award. The City of Florence is recognized as gold level award. This is a result many efforts of organizations and business in the community.

Tandus Centiva

Thomas Trissl

Robin Wade Furniture

Shoals Chamber of Commerce

Scope 310/The Blue Door

TNT fireworks

Eliza Coffee Memorial Hospital

Rhoda P's

Southwire

Progress Bank

Beautification Board

Keep the Shoals Beautiful

Master Gardeners

Florence Garden Club

Alabama Cooperative Extension

Planning Commission

Tree Commission

Tree Commission

Florence Main Street

Court Street Market

Downtown Florence Unlimited/
Parking Deck

Outdoor Adventure Center

University of North Alabama

Sodexo

SEDA

Florence City Schools

Florence Middle School

Beautification Board

of

The goal of the program is to highlight and support the businesses and non-profit organizations in Florence that are committed to green practices. The application is a checklist including water conservation, energy conservation, pollution prevention, and waste reduction measures to promote green business practices. It includes items such as tracking water and energy use, repairing leaks, turning out lights, not printing emails, and recycling. The application contains the most common green practices and encourages businesses to incorporate green methods specific to their business.

Businesses and non-profits that become Green Team Certified will be recognized by the Mayor at a Council meeting, receive a green logo for publications, join the list of green businesses on the www.florencegoesgreen.org website, and most importantly, help conserve our natural resources. Green practices within a business will also provide cost savings.

Many businesses in Florence are making great efforts to incorporate green practices and be environmentally friendly. This program will recognize them and encourage others to participate. Businesses that have already become certified include Centiva, American Wholesale Book Company, Firenze Gifts & Interiors, Shoals Children's Museum, Sara Lee, Shoals Web, Residence Inn, and Robin Wade Furniture.

The City of Florence is committed to sustainable initiatives.

What: Certified Green Team Partnership Program
Where: www.florencegoesgreen.org
How: Complete a checklist of green business practices
Who: All City of Florence businesses and non-profit organizations

Contacts:

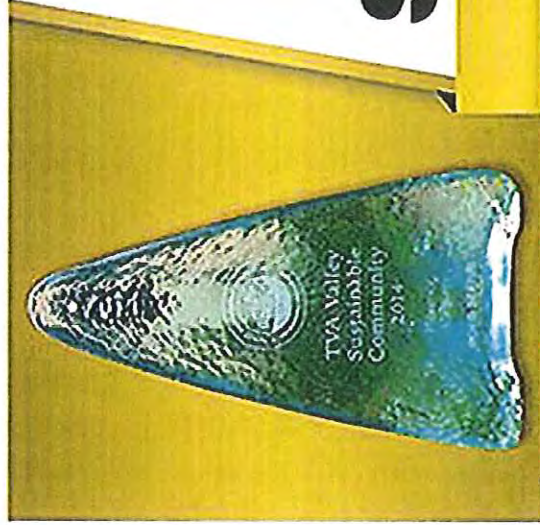
Mayor Mickey Haddock 256-760-6400

Melissa Bevis, One Stop Shop 256-70-6068

David Koonce, Recycle Center 256-760-6495

Rachel Mansell, Education Outreach 256-627-0970

Billboard: March 2015 - June 2016



CITY OF FLORENCE

earns

GOLD

for being

SUSTAINABLE!

FlorenceAL.org



Special Notes:

CITY OF FLORENCE
earns
GOLD
for being
SUSTAINABLE!
FlorenceAL.org

TVA Valley Sustainable Community 2014

VALLEY SUSTAINABLE COMMUNITY
TVA ECONOMIC DEVELOPMENT
GOLD

LAMAR



#	Green Team Partners	Contact/Official	GTP and/or VSCP	Email Address	Sheila Rancy and Jared Hamm
	Tandus Centiva	Erin Istanbuloglu		elstanbulluoglu@centiva.com	
	Residence Inn by Marriott	Silka Miller		silka.miller@marriott.com	
	Shoals Web	Jeff Whitten		jeffw@shoalsweb.com	
	Robin Wade Furniture	Robin Wade		info@robinwade-furniture.com	
	Robin Wade Furniture	Linda Wade		info@robinwade-furniture.com	
	Children's Museum of the Shoals			cmos@shoalschildrensmuseum.org	
	American Wholesale Book Company	Tiffany Scogin		scoginT@awbcinc.com	
	Firenze Gifts & Interiors	Linda Daniel		Firenzegifts@aol.com	
	Dish Café & Catering	Leslie Carter		dishcafeandcatering@gmail.com	
	Dish Café & Catering	Heidi King		dishcafeandcatering@gmail.com	
	The Grilling Room	Tony Cox		grillingroom@cs.com	
	Longrider Supply Company	Brad Johnson		brad@longridersupply.com	
	Lewis Signs	Terry Lewis		lewissigns@comcast.net	
	Hampton Inn	Tammy Borden		tammy.borden@hilton.com	
	Help Center	Louise Tanner		crrr85@bellsouth.net	
	Help Center	Charles Wickwire		crrr85@bellsouth.net	
	Shoals Chamber of Commerce	Stephen Holt		steveh@shoalschamber.com	
	Shoals Chamber of Commerce	Judy Keenum		ikeenun@shoalschamber.com	
	Lyons Human Resource	Jessica Sanderson		jsanderson@lyonshr.com	
	Lyons Human Resource	Ana Villia		avilla@lyonshr.com	
	Bobo Real Estate	James Bobo		james@boborealestate.com	
	Bobo Real Estate	James Bobo II		james@boborealestate.com	
	Shoals Yoga	Danielle Snoddy		info@shoalsyoga.com	
	H&R Block	Kim Copeland		kimberly.copeland@tax.hrblock.com	
	Steve Pierce State Farm	Darti Eason		darti@stevepierceinsurance.com	
	Steve Pierce State Farm	Steve Pierce		steve@steve-pierce.com	
	Scope 310/The Blue Door	Paula Michael		pmichael@scope310.com	
	Scope 310/The Blue Door	Paula Maharray		pmaharray@yahoo.com	
	Renaissance Eye Care	Dr. Moore		office@renaissanceeyecare.com	
	Renaissance Eye Care	Becky Gist		office@renaissanceeyecare.com	
	Dr. Frank A. Wall Cosmetic and Family Dentistry	Dr. Wall		wallfrankadmdpc@bellsouth.net	
	O'Haira's Salon	Tiffany Vandiver		tif883@aol.com	
	Jos A Bank	Kelly Heaps		kellykatherineheaps@yahoo.com	
	Pet Depot	Andrew Schutt		abschutt@petdepotonline.com	
	TNT fireworks	Ann Risner		risnera@tnfireworks.com	
	Eliza Coffee Memorial Hospital	Mathew Oglesby	VSCP	Mrogleshy@chgroup.org	
	Eliza Coffee Memorial Hospital	Jeff Ekholm	VSCP	isekholm@chgroup.org	

Katy Haddock & Spencer Butler

Mars Hill Bible School	Dexter Rutherford	drutherford@mhbs.org
Marriot Shoals Hotel	Einar Gudmundsson	Einar.Gudmundsson@marriottshoals.com
Marriot Shoals Hotel	Larry Bowser	larry.bowser@marriottshoals.com
Studio 23	April Howton	joynbirth@comcast.net
Hampton Inn	Vickie Atwood-Romine	vickie.atwood@hilton.com
Rhoda P's	Rhoda Plain	rsplain@hiwaay.net
The Wine Cellar	Jennifer Highfield	wineseller@att.net
Southwire	Jonathan Hinton	jonathan.hinton@southwire.com
Southwire	Scott Williams	scott.williams@southwire.com
Progress Bank	Jeffrey Jones	jiones@myprogressbank.com
Progress Bank - Trent Jordan for Andy Mann	Andy Mann	amann@myprogressbank.com
Tasus	Denny Tester	dtester@tasus.com
Tasus	Scott Christmas	schristmas@tasus.com
MS Metals	Jim Nienhouse	jnienhouse@msmetalsolutions.com
MS Metals	Tom Panozzo	tpanozzo@msmetalsolutions.com
Elite Medical	Bryan Dowdy	bdowdy@elite-memphis.com
Performance Scrubs	David Prentice	david@performancescrubs.com
Performance Scrubs	Kirby Best	ikirbybest@gmail.com
Monarch	Greg Guenin	greg.guenin@daltile.com
Beautification Board	Dee Hubbard	chubbert@bellsouth.net
Keep the Shoals Beautiful	Judy Keenum	judy@shoalschamber.com
Master Gardeners	Kay Hillis	gardenerkaye@bellsouth.net
Florence Garden Club		margmick271@aol.com
Alabama Cooperative Extension	Chris Becker	cmb0034@aces.edu
UNA Outdoor Adventure Center	McKenzie Martin	mlmartin2@una.edu
	Nancy Muse	nancymusesea@aol.com
Shoals Entrepreneurial Center	Giles McDaniel	giles@shoalsec.com
Shoals Entrepreneurial Center	Suanne Shaw	sshaw@shoalsec.com
Planning Commission	Ernie Fite	E_fite@yahoo.com
Planning Commission	Francis Koti	Frikoti@una.edu
Planning Commission	Keith Abernathy	keith@tallmanco.com
Planning Commission	Ben Graves	bgraves@gmail.com
Planning Commission	Jim Stanphill	jqsjr@aol.com
Planning Commission	Bud Pride	jpride.107@bellsouth.net
Tree Commission	Bryan Miller	bmc35633@comcast.net
Tree Commission	Joe McPhail	jmcp@mail@florencetilities.com
Tree Commission	John Norton	john_norton35633@yahoo.com
Tree Commission	Kevin Langaard	kjangaard@hjarich.com

Tree Commission	Lavetta Adams	ladams@florencel.org	
Tree Commission	Nancy Muse	nancymusesea@aol.com	
Tree Commission	Preston Hillis	hillisp@bellsouth.net	
Tree Commission	Steve McEachron	lauderdale.county@forestry.alabama.gov	
First Friday's Committee		andy@lrayco.com	
Florence Main Street	Teryl Shields	tshields@florencemainstreet.org	
Court Street Market	Carmen Erdmann	courtstreetmarket218@gmail.com	Kai-Uwe Erdmann
Florence Farmers Market		bbryant@lauderdalecountyal.gov	
Aliyah Acres		farmer@Aliyah-Acres.com	
Windy Hill Farms		lbas503517@aol.com	
Downtown Florence Unlimited	Ray Grissom	raygrissom@yahoo.com	
Florence/Lauderdale Tourism	Alison Stanfield	alison@visitflorenceal.com	
Florence/Lauderdale Library	Nancy Sanford	nsanford@flpl.org	
University of North Alabama	Bethany Oliver	bloliver@una.edu	
University of North Alabama	McKenzie Martin	mlmartin2@una.edu	
University of North Alabama	Michael Gautney	mbgautney@una.edu	VSCP
University of North Alabama	Michael Thompson	mthompson@una.edu	VSCP
University of North Alabama	Mark Puckett	mpuckett@una.edu	
Sodexo	Gabi Borden		
Tarket	Jamie Underwood	Jamie.Underwood@tarkett.com	
Alabama Chanin		office@alabamachanin.com	
Billy Reid	Billy Reid	service@billyreid.com	
Jack O Lantern Farms	Dee Hubbert		
SEDA	Steve Carpenter	steve@jackolanternfarm.com	
SEDA	Forrest Wright	forrest.wright@seda-shoals.com	
Florence City Schools	Susie Heird	susie.heird@seda-shoals.com	VSCP
Florence City Schools	Janet Womack	jwomack@florencek12.org	VSCP
Florence Middle School	Connie Wallace	cwallace@florencek12.org	VSCP
TVA	Jill Johnson	isjohnson@florencek12.onmicrosoft.com	Marc Johnson
City Council Member - District 1	Millie Calloway	mecalloway@tva.gov	
City Council Member/Pres. - District 2	Dave Smith	dmsmith@florencel.org	
City Council Member - District 3	Dick Jordan	djordan@micarterins.com	
City Council Member - District 4	Herman Graham	hermon1@comcast.net	
City Council Member - District 5	Barry Morris	bkmorris@una.edu	
City Council Member - District 6	Blake Edwards	bedwards@florencel.org	
Mayor	Andrew Betterton	andy@abetterton.com	
Mayor's Office	Mickey Haddock	mhaddock@florencel.org	
	Sandra Morgan	smorgan@florencel.org	

City Engineer	Bill Batson	GTP /VSCP	bbatson@florencel.org
City Attorney	Bill Musgrove	GTP	wmusgrove@florencel.org
City Clerk	Bob Leyde	GTP	bleyde@florencel.org
One Stop Shop	Melissa Bevis	Melissa Bevis	mbevis@florencel.org
Solid Waste, Street & Recycling	David Koonce	GTP /VSCP	dkoonce@florencel.org
Solid Waste, Street & Recycling	Rachel Mansell	GTP /VSCP	rmansell@florencel.org
EMA	George Grabryan	GTP	ggrabryan@florencel.org
Fire	Jeffrey Perkins		JPerkins@florencel.org
Planning	Melissa Bailey	GTP /VSCP	mbailey@florencel.org
Gas & Water Dept.	Mike Doyle	GTP /VSCP	mdoyle@florencel.org
Purchasing	Phil Stevenson		pstevenson@florencel.org
Electric	Richard Morrissey	GTP /VSCP	rmorrissey@florencel.org
Electric	Chip Rasch	TVA GPSP	crasch@florencel.org
Electric	Ben Maharrey	TVA EnergyRight	bmaharrey@florencel.org
Electric	Clara Lambert	TVA EnergyRight	clambert@florencel.org
Community Services	Todd Nix	VSCP	TNix@florencel.org
Controller - Florence Utilities	Vance Young	GTP	vwyoung@florencel.org
Animal Control Director	Vinne Grosso	GTP	VGrosso@florencel.org
Urban Forestry	Craig Thompson	GTP	CThompson@florencel.org
Thomas Trissl	Thomas Trissl	VSCP	ttrissl@tmtamerica.com
David Doroh	David Doroh		dadoroh@luno.com
Eva Scull	Eva Scull		eva@florencelharbor.com
John Baker	John Baker		baker140@comcast.net
Linda Van Sandt	Linda Van Sandt		lv@keystonebusinesscenter.com
Margaret McCloy	Margaret McCloy		mccloymm@gmail.com
Pat Bulls-Butler	Pat Bulls-Butler		hosta1@hotmail.com
Ralph Jones	Ralph Jones		ralphjoneslpc@hotmail.com
Scott Townsend	Scott Townsend		STMSI@yahoo.com
Susan Burdine	Susan Burdine		stagewithsusan@gmail.com
Susan Williams	Susan Williams		suzwilliams729@gmail.com
Virginia Gooch	Virginia Gooch		vgooch@att.net
WHNT 19			news.department@whnt.com
WHNT 19	Carter Watkins		carter.watkins@whnt.com
East Lauderdale News	Jim Cox		elnewsrog@aol.com
WAFF 48	Maggie Martin		mmartin@apr.org
WAFF 48	Marie Waxel		mwaxel@waff.com
WAFF 48	Nick Lough		news@waff.com nlough@waff.com

Jennifer Threeth and Diane Williams

Jennifer Kennedy and colleague

Big River Broadcasting

Times Daily

Times Daily

Quad Cities Daily

Quad Cities Daily

Courier Journal

WAAV

WXFL 5

WZZA Radio

WZZA (news@wzzaradio.com)

Nick Martin

Mike Goens

Robert Palmer

Sheri Wiggins

Steve Wiggins

Tom Magazzu

Breken Terry

Tori Bailey

nmartin@bigriverbroadcasting.com

mike.goens@timesdaily.com

robert.palmer@timesdaily.com

gcdnews@gmail.com

whfilms@gmail.com

editor@courierjournal.net

newsroom@waaytv.com

news@wbcf.com

toribailey@aol.com

news@wzzaradio.com

Citywide Volunteer Clean -Up Day



Join us at the annual Citywide Volunteer Clean-Up Day to help pickup littered streets. Volunteers (organizations, scouts, businesses, or individuals) will be supplied with vests

Groups can call ahead for a designated area or meet us at the Florence-Lauderdale Coliseum on Saturday morning.

CALL 256 760 6495 or EMAIL recycle@florenceal.org

Saturday, April 18, 2015 Florence-Lauderdale Coliseum



SPONSORS

Mayor 's Office • Waste Connections, Inc • Rosie's Cantina
Florence Gas & Water • Home Depot •
McDonald's • PALS • LAMAR •
Keep the Shoals Beautiful • TNT
PUBLIX • Courier Journal •
American Wholesale Book Company





2015 RUBBISH REPORT



Rubbish Collected

Litter collected from roadways throughout the City of Florence

6,460 pounds of trash collected

Volunteers

Florence has community pride!

158 Volunteers



Participating Organizations

Florence Mayor/Council
TNT Fireworks
Girls Scouts
Tandus Centivas
Keep the Shoals Beautiful
Faith Church
UNA Greek Life
ARK Church
Florence Building

Christ Chapel
Forest Hills 3rd Grade Class
Waste Connections
Florence Electricity
SCA Tissue
UNA Outdoor Adventure
Florence One Stop Shop
Keep the Shoals Beautiful

Florence Solid Waste, Street, & Recycle
Florence Gas & Water Department
Florence Police Department
Florence Parks & Recreation
Florence Customer Service
Florence Human Resources
WHNT News 19
Florence Engineers

SPONSORS

Mayor's Office • Waste Connections • Rosie's Cantina • Florence Gas & Water • Home Depot
WHNT News19 • McDonald's • PALS • LAMAR • Hillshire Brands • Keep the Shoals Beautiful



SUPER NEWS, FLORENCE!

WE'RE ON A ROLL

RECYCLING CARTS COMING SOON

Check them out at the First Fridays Florence Recycling Showcase

**RECYCLING
MAKES BEING A SUPERHERO
SUPER EASY!**

#RealHeroesRecycle

FlorenceRecycles.org

**BE A
SUPERHERO** 

**VISIT THE FLORENCE
RECYCLING SHOWCASE**



FRIDAY, APRIL 3rd 5-8pm



**MINIMUM REQUIREMENTS FOR CONSTRUCTION PERMITTING
AND
EROSION CONTROL**

ADDITION TO SUBDIVISION REGULATIONS

Construction which disturbs one acre or more of ground surface within the city limits of Florence will require a general permit for stormwater runoff control. This permit will be obtained from ADEM by the owner/developer of the property. A copy of the approved permit will be submitted to the city stormwater management personnel prior to beginning site construction, grading or clearing activity. The owner/developer will submit along with his construction plans, a plan for Best Management Practice (BMP). The BMP will describe in detail the use of silt fences, hay bales, rip rap siltation basins or other means to be used for erosion control. Placement of silt fence, hay bales and rip rap will be done as per the city of Florence Standard details for erosion control.

All construction plans will include by notation in the project notes, requirements for the contractors to provide erosion control, for preventing fuel or hazardous chemical spills and over use of pesticides, fertilize, or herbicides. Waste material such as asphalt, petroleum products, sealants, concrete, etc., will not be left on site in contact with stormwater runoff.

Any information provided by the public as to betterment of the proposed BMP or as to the failure of an operating BMP can be addressed to the stormwater management personnel for consideration or correction.

Any owner/developer of a site one acre or larger which does not conform to these regulations is subject to a fine of not more than \$ _____ per day.

Once an owner/developer has been notified by the city stormwater management personnel that his/her BMP is not meeting the requirements of these regulations the owner/developer will have 3 working days to correct the problem before fines become effective. The fine will be enforced each day thereafter that the BMP is not corrected. The owner/developer will be responsible for the correction and for notifying the city stormwater management personnel when the correction are made.

REGULATIONS FOR MUNICIPAL OPERATION AND STORMWATER QUALITY

City personnel who are involved with maintenance facilities or with construction of streets, storm drainage, utility construction of any nature, parks and recreation facilities or landfill operations will hereby be required to adhere to these regulations.

MAINTENANCE OPERATIONS

All vehicle repair or maintenance facilities and/or wash areas will be managed such that no pollutants from the premises will enter the stormwater system. Spill prevention control including grease pits will be constructed to catch oil and grease. Any soil washed from a vehicle will be stockpiled for future removal from the site and properly disposed of.

The volume of pesticides, fertilizers and herbicides used on public property will be studied by the park and recreation department and/or the horticulture department. These chemicals will be used as sparingly as possible.

All city personnel who are responsible for disturbing the ground surface on a municipal project will provide adequate soil erosion controls such as silt fence, hay bales, rip rap or siltation basins. The responsible person will note for the file that proper BMP was used. This note will be kept on file by project name or number. The note will include a brief description of the BMP.

All disturbed areas will be seeded and mulched or sodded immediately after construction is complete.

Steep gradient trenches will be protected by silt fence or hay bales which will slow water velocity and reduce erosion.

Landfill personnel will employ silt fence to prevent erosion while areas of the landfill are bare. Every effort will be made to prevent solid waste from leaving the site and entering any water of the state.

All deposited material which is removed from siltation basins, inlets, storm sewers, streets, etc., will be disposed of as directed by the city stormwater management personnel.

Any storm sewer construction project will be designed using proper methods of controlling siltation which are caused by concentrating flows. Methods to reduce velocity will be employed.

The street department will limit the use of salt during inclement weather to only the amount required or better yet employ the use of other more environmentally friendly materials.

PERMIT TO CONSTRUCT SITE WORK

PROJECT NAME: _____

The City of Florence Engineering Department has reviewed the BMP for this project and has received a copy of the approved ADEM permit.

_____ is hereby permitted to begin clearing
Developer/Owner
and excavation operations.

City Engineer

Date _____

THIS SIGN TO BE POSTED AT THE CONSTRUCTION SITE

ARTICLE I. - OPERATION AND MAINTENANCE

Sec. 23-1. - Best management practice (BMP).

- (a) Defined. A BMP is defined as a structural device, measure, facility, or activity that helps to achieve stormwater management control objectives at a designated site.
- (b) Plan. A document approved at the site design phase that outlines the measures and practices used to control stormwater runoff at a site. The plan shall be prepared by a professional engineer. The subdivision regulations and the building code shall be revised to include these regulations.

(Ord. No. 2004-16, § I, 3-16-2004)

Sec. 23-2. - Design.

- (a) All stormwater BMPs shall be designed in a manner to minimize the need for maintenance and reduce the chances of failure. Design guidelines are outlined in the most recent version of the subdivision regulations of the city.
- (b) Stormwater easements and covenants shall be provided by the property owner for access for facility inspections and maintenance. Easements and covenants shall be recorded with the city prior to the issuance of a permit.
- (c) Final design shall be approved by the city engineer.
- (d) The property owner/developer will acquire an NPDES permit from ADEM and present a copy to the city engineer.
- (e) A permit will be issued by the city engineer prior to construction start up. This permit acknowledges receipt of proper BMP and ADEM permit.

(Ord. No. 2004-16, § II, 3-16-2004)

Sec. 23-3. - Routine maintenance.

- (a) All stormwater BMPs shall be maintained according to the measures outlined in the most recent version of the city stormwater pollution prevention plan, as required by the subdivision regulations and as approved in the permit.
- (b) The person or organization responsible for maintenance shall be designated in the plan. Options include:
 - (1) Property owner.
 - (2) Homeowner's association; provided that provisions for financing necessary maintenance are included in deed restrictions or other contractual agreements.
 - (3) Private contractor under contract with the owner.
- (c) Maintenance agreements shall specify responsibilities for financing maintenance.

(Ord. No. 2004-16, § III, 3-16-2004)

Sec. 23-4. - Nonroutine maintenance.

Nonroutine maintenance includes maintenance activities that are expensive but infrequent, such as pond dredging or major repairs to stormwater structures.

- (1) Nonroutine maintenance shall be performed on an as-needed basis based on information gathered during regular inspections.
- (2) If nonroutine maintenance activities are not completed in a timely manner or as specified in the approved plan, the city may fine the owner an appropriate amount to cover the cost of the city providing maintenance.

(Ord. No. 2004-16, § IV, 3-16-2004)

Sec. 23-5. - Inspections.

- (a) The person or organization responsible for maintenance shall inspect stormwater BMPs on a regular basis as outlined in the plan.
- (b) Authorized representatives of the city may enter at reasonable times to conduct on-site inspections or routine maintenance.
- (c) For BMPs maintained by the property owner or homeowner's association, inspection and maintenance reports shall be filed with the city, as provided for in the plan.
- (d) Authorized representatives of the city may conduct inspections to confirm the information in the reports filed under section (c) of this section.

(Ord. No. 2004-16, § V, 3-16-2004)

Secs. 23-6—23-28. - Reserved.

ARTICLE III. - EROSION AND SEDIMENT CONTROL

Sec. 23-70. - Introduction/purpose.

- (a) During the construction process, soil is highly vulnerable to erosion by wind and water. Eroded soil endangers water resources by reducing water quality and causing the siltation of aquatic habitat for fish and other desirable species. Eroded soil also necessitates repair of sewers and ditches and the dredging of lakes. In addition, clearing and grading during construction cause the loss of native vegetation necessary for terrestrial and aquatic habitat.
- (b) As a result, the purpose of this local regulation is to safeguard persons, protect property, and prevent damage to the environment in the city. This article will also promote the public welfare by guiding, regulating, and controlling the design, construction, use, and maintenance of any development or other activity that disturbs or breaks the topsoil or results in the movement of earth on land in the city.

(Ord. No. 2004-18, § I, 3-16-2004)

Sec. 23-71. - Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Certified contractor means a person who has received training and is licensed by ADEM to inspect and maintain erosion and sediment control practices.

Clearing means any activity that removes the vegetative surface cover.

Drainage way means any channel that conveys surface runoff throughout the site.

Erosion and sediment control plan means a set of plans prepared by or under the direction of a licensed professional engineer indicating the specific measures and sequencing to be used to control sediment and erosion on a development site during and after construction.

Erosion control means a measure that prevents erosion.

Grading means the excavation or fill of material, including the resulting conditions thereof.

Perimeter control means a barrier that prevents sediment from leaving a site by filtering sediment-laden runoff or diverting it to a sediment trap or basin.

Phasing means clearing a parcel of land in distinct phases, with the stabilization of each phase completed before the clearing of the next.

Sediment control means those measures that prevent eroded sediment from leaving the site.

Site means a parcel of land or a contiguous combination thereof, where grading work is performed as a single unified operation.

Site development permit means a permit issued by the municipality for the construction or alteration of ground surface. Permitted BMP includes improvements and structures for the control of erosion, runoff, and grading.

Stabilization means the use of practices that prevent exposed soil from eroding.

Start of construction means the first land disturbing activity associated with a development, including land preparation such as clearing, grading, and filling; installation of streets and walkways; excavation for basements, footings, piers, or foundations; erection of temporary forms; and installation of accessory buildings such as garages.

Watercourse means any body of water, including, but not limited to lakes, ponds, rivers, streams, and bodies of water delineated by the city.

Waterway means a channel that directs surface runoff to a watercourse or to the public storm drain.

(Ord. No. 2004-18, § II, 3-16-2004)

Sec. 23-72. - Permits.

- (a) No person shall be granted a site development permit for a land disturbing activity that would require the uncovering of one (1) acre or more without the approval of an erosion and sediment control plan by ADEM.
- (b) No site development permit is required for the following activities:
 - (1) Any emergency activity that is immediately necessary for the protection of life, property, or natural resources.
 - (2) Existing nursery and agricultural operations conducted as a permitted main or accessory use.
- (c) Each application shall bear the name and address of the owner or developer of the site, and of any consulting firm retained by the applicant together with the name of the applicant's principal contact at such firm.
- (d) Each application shall include a statement that any land clearing, construction, or development involving the movement of earth shall be in accordance with the erosion and sediment control plan and that a certified contractor shall provide inspection when a construction or grading activity takes place.
- (e) The applicant will be required to file with the city, a faithful performance bond, letter of credit, or other improvement security in an amount deemed sufficient by the city to cover all costs of improvements, landscaping, maintenance of improvements for such period as specified by the city and engineering and inspection costs to cover the cost of failure or repair of improvements installed on the site.

(Ord. No. 2004-18, § III, 3-16-2004)

Sec. 23-73. - Review and approval.

- (a) ADEM will review each application for a site development permit to determine its conformance with the provisions of this regulation. ADEM shall, in writing:
 - (1) Approve the permit application;
 - (2) Approve the permit application subject to such reasonable conditions as may be necessary to secure substantially the objectives of this regulation, and issue the permit subject to these conditions; or
 - (3) Disapprove the permit application, indicating the reason(s) and procedure for submitting a revised application and/or submission.
- (b) Failure of the ADEM to act on an original or revised application within thirty (30) days of receipt shall authorize the applicant to proceed in accordance with the plans as filed unless such time is extended by agreement between the applicant and ADEM. Pending preparation and approval of a revised plan, development activities shall be allowed to proceed in accordance with conditions established by ADEM.

(Ord. No. 2004-18, § IV, 3-16-2004)

Sec. 23-74. - Erosion and sediment control plan.

- (a) The erosion and sediment control plan shall include the following:
- (1) A sequence of construction of the development site, including stripping and clearing; rough grading; construction of utilities, infrastructure, and buildings; and final grading and landscaping. Sequencing shall identify the expected date on which clearing will begin, the estimated duration of exposure of cleared areas, areas of clearing, installation of temporary erosion and sediment control measures, and establishment of permanent vegetation.
 - (2) All erosion and sediment control measures necessary to meet the objectives of this local regulation throughout all phases of construction and after completion of development of the site. Depending upon the complexity of the project, the drafting of intermediate plans may be required at the close of each season.
 - (3) Seeding mixtures and rates, types of sod, method of seedbed preparation, expected seeding dates, type and rate of lime and fertilizer application, and kind and quantity of mulching for both temporary and permanent vegetative control measures.
 - (4) Provisions for maintenance of control facilities, including easements and estimates of the cost of maintenance.
- (b) Modifications to the plan shall be processed and approved or disapproved in the same manner as section 23-73, may be authorized by ADEM by written authorization to the permittee, and shall include
- (1) Major amendments of the erosion and sediment control plan submitted to ADEM.
 - (2) Field modifications of a minor nature.

(Ord. No. 2004-18, § V, 3-16-2004)

Sec. 23-75. - Design requirements.

- (a) Grading, erosion control practices, sediment control practices, and waterway crossings shall meet the design criteria set forth in the most recent version of the city's stormwater pollution prevention plan (SWPPP), and shall be adequate to prevent transportation of sediment from the site to the satisfaction of ADEM. Cut and fill slopes shall be no greater than 2:1, except as approved ADEM to meet other community or environmental objectives.
- (b) Clearing and grading of natural resources, such as forests and wetlands, shall not be permitted, except when in compliance with all other chapters of this Code. Clearing techniques that retain natural vegetation and drainage patterns, as described in the SWPPP, shall be used to the satisfaction of ADEM.
- (c) Clearing, except that necessary to establish sediment control devices, shall not begin until all sediment control devices have been installed and have been stabilized.
- (d) Phasing shall be required on all sites disturbing greater than thirty (30) acres, with the size of each phase to be established at plan review and as approved by ADEM.
- (e) Erosion control requirements shall include the following:
 - (1) Soil stabilization shall be completed within five (5) days of clearing or inactivity in construction;
 - (2) If seeding or another vegetative erosion control method is used, it shall become established within two (2) weeks or ADEM may require the site to be reseeded or a nonvegetative option employed;
 - (3) Special techniques that meet the design criteria outlined in the SWPPP on steep slopes or in drainage ways shall be used to ensure stabilization;
 - (4) Soil stockpiles must be stabilized or covered at the end of each workday. Silt fence may be used. Silt basins may also be used;

- (5) The entire site must be stabilized, using a heavy mulch layer or another method that does not require germination to control erosion, at the close of the construction season;
- (6) Techniques shall be employed to prevent the blowing of dust or sediment from the site;
- (7) Techniques that divert upland runoff past disturbed slopes shall be employed.
- (f) Sediment control requirements shall include:
 - (1) Settling basins, sediment traps, or tanks and perimeter controls;
 - (2) Settling basins that are designed in a manner that allows adaptation to provide longterm stormwater management, if required by ADEM;
 - (3) Protection for adjacent properties by the use of a vegetated buffer strip in combination with perimeter controls. The buffer strip shall be used only if required by the city engineer.
- (g) Waterway and watercourse protection requirements shall include:
 - (1) A temporary stream crossing installed and approved by the Army Corp of Engineers if a wet watercourse will be crossed regularly during construction;
 - (2) Stabilization of the watercourse channel before, during, and after any in-channel work;
 - (3) All on-site stormwater conveyance channels designed according to the criteria outlined in the SWPPP;
 - (4) Stabilization adequate to prevent erosion located at the outlets of all pipes and paved channels.
- (h) Construction site access requirements shall include:
 - (1) A temporary access road provided at all sites;
 - (2) Other measures required by ADEM in order to ensure that sediment is not tracked onto public streets by construction vehicles or washed into storm drains.

(Ord. No. 2004-18, § VI, 3-16-2004)

Sec. 23-76. - Inspection.

- (a) ADEM or a designated agent shall make inspections as hereinafter required and either shall approve that portion of the work completed or shall notify the permittee wherein the work fails to comply with the erosion and sediment control plan as approved. Plans for grading, stripping, excavating, and filling work bearing the stamp of approval of the city engineer shall be maintained at the site during the progress of the work. To obtain inspections, the permittee shall notify the city engineer at least two (2) working days before the following:
 - (1) Start of construction.
 - (2) Installation of sediment and erosion measures.
 - (3) Completion of site clearing.
 - (4) Completion of rough grading.
 - (5) Completion of final grading.
 - (6) Close of the construction season.
 - (7) Completion of final landscaping.
- (b) The permittee or his agent shall make regular inspections of all control measures in accordance with the inspection schedule outlined on the approved erosion and sediment control plan. The purpose of such inspections will be to determine the overall effectiveness of the control plan and the need for additional control measures. All inspections shall be documented in written form and submitted to ADEM at the time interval specified in the approved permit.

- (c) ADEM or its designated agent shall enter the property of the applicant as deemed necessary to make regular inspections to ensure the validity of the reports.

(Ord. No. 2004-18, § VII, 3-16-2004)

Sec. 23-77. - Enforcement.

- (a) Stop work order; revocation of permit. In the event that any person holding a site development permit pursuant to this article violates the terms of the permit or implements site development in such a manner as to materially adversely affect the health, welfare, or safety of persons residing or working in the neighborhood or development site so as to be materially detrimental to the public welfare or injurious to property or improvements in the neighborhood, ADEM may suspend or revoke the site development permit.
- (b) Violation and penalties. No person shall construct, enlarge, alter, repair, or maintain any grading, excavation, or fill, or cause the same to be done, contrary to or in violation of any terms of this article. Any person violating any of the provisions of this article shall be deemed guilty of a misdemeanor and each day during which any violation of any of the provisions of this article is committed, continued, or permitted, shall constitute a separate offense. Upon conviction of any such violation, such person, partnership, or corporation shall be punished by a fine of not more than five hundred dollars (\$500.00) for each offense. In addition to any other penalty authorized by this section, any person, partnership, or corporation convicted of violating any of the provisions of this article shall be required to bear the expense of such restoration.

(Ord. No. 2004-18, § VIII, 3-16-2004)

ILLICIT DISCHARGE DETECTION AND ELIMINATION

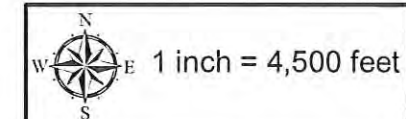
- City of Florence Map
- Stormwater Runoff Sampling and Testing Results
- Ordinance for Illicit Discharge and Connection to Stormwater System
- Illicit Discharge, Detection and Elimination Video Series
- List of Construction Sites Inspected by City
- Inspection Report Form

MS4 Limits

CITY OF FLORENCE

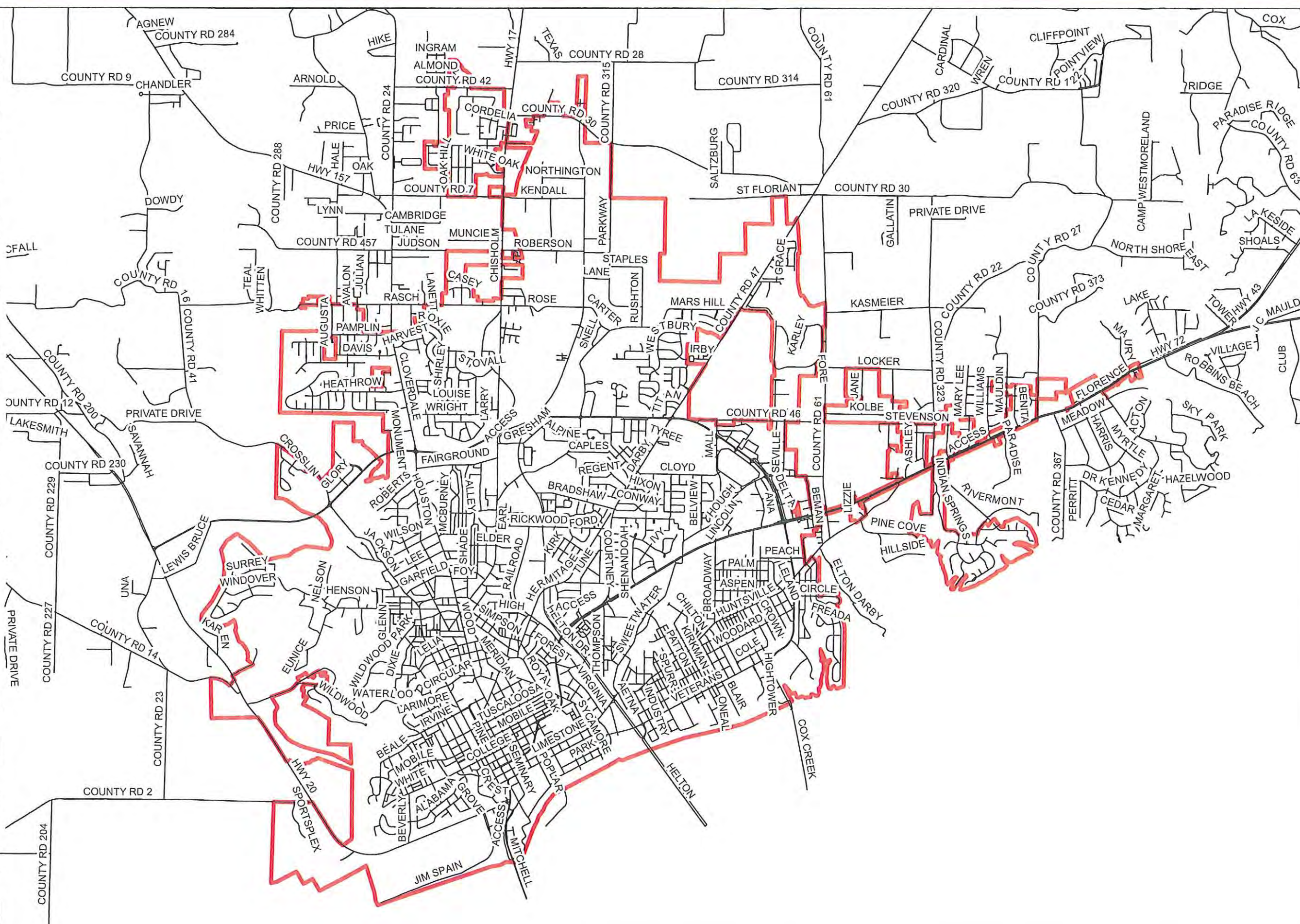


Engineering Department
110 West College St
Florence, AL 35630
Phone (256) 760-6350



LEGEND

- Streets
- ▭ Florence City Limits





TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project: City of Florence
Project Number:
Sample Location: Florence, AL
Sampled By: E. Curtis
Date/Time Collected: 11/18/15 4:05

Lab Number: 1502652
Sample Type: Stormwater
Date/Time Received: 11/19/15 10:07
Date Reported: 12/3/2015

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	23-2-11-1	Oil and Grease	<5.00		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	23-2-11-1	Solids, Total Suspended	64.0		mg/L	1	11/20/15 14:30	2540D (2)	SJL

pH (field) = 6.22 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project: City of Florence
Project Number:
Sample Location: Florence, AL
Sampled By: E. Curtis
Date/Time Collected: 11/18/15 4:20

Lab Number: 1502653
Sample Type: Stormwater
Date/Time Received: 11/19/15 10:07
Date Reported: 12/3/2015

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	23-2-11-2	Oil and Grease	7.32		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	23-2-11-2	Solids, Total Suspended	363		mg/L	1	11/20/15 14:30	2540D (2)	SJL

pH (field) = 7.72 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88-039, Revised July, 1991, August 1995.



TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project: City of Florence
Project Number:
Sample Location: Florence, AL
Sampled By: E. Curtis
Date/Time Collected: 11/18/15 4:30

Lab Number: 1502654
Sample Type: Stormwater
Date/Time Received: 11/19/15 10:07
Date Reported: 12/3/2015

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	25-2-11-1	Oil and Grease	<5.00		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	25-2-11-1	Solids, Total Suspended	51.0		mg/L	1	11/20/15 14:30	2540D (2)	SJL

pH (field) = 7.40 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project:	City of Florence	Lab Number:	1502655
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	11/19/15 10:07
Sampled By:	E. Curtis	Date Reported:	12/3/2015
Date/Time Collected:	11/18/15 4:38		

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	36-2-11-1	Oil and Grease	<5.00		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	36-2-11-1	Solids, Total Suspended	116		mg/L	1	11/20/15 14:30	2540D (2)	SJL

pH (field) = 7.91 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-83/039, Revised July, 1991, August 1995.



TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project: City of Florence
Project Number:
Sample Location: Florence, AL
Sampled By: E. Curtis
Date/Time Collected: 11/18/15 4:45

Lab Number: 1502656
Sample Type: Stormwater
Date/Time Received: 11/19/15 10:07
Date Reported: 12/3/2015

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	31-2-10-1	Oil and Grease	<5.00		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	31-2-10-1	Solids, Total Suspended	27.0		mg/L	1	11/23/15 10:58	2540D (2)	SJL

pH (field) = 8.04 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88-039, Revised July, 1991, August 1995.



SOUTHERN ENVIRONMENTAL TESTING

P.O. Box 487
3103 Northington Court
Florence, Alabama 35630

(256) 740-5532
Fax (256) 740-5529

TEST RESULTS

Larry Lynn
White, Lynn, Collins & Associates
219 W Alabama St
Florence AL 35630

Project:	City of Florence	Lab Number:	1502657
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	11/19/15 10:07
Sampled By:	E. Curtis	Date Reported:	12/3/2015
Date/Time Collected:	11/18/15 4:53		

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	6-3-10-1	Oil and Grease	<5.00		mg/L	5	11/30/15 9:05	1664A (1)	DRK
002	6-3-10-1	Solids, Total Suspended	27.0		mg/L	1	11/23/15 10:58	2540D (2)	SJL

pH (field) = 8.10 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996.
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979.
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.

ARTICLE II. - ILLICIT DISCHARGE AND CONNECTION

Sec. 23-29. - Purpose/intent.

The purpose of this article is to provide for the health, safety, and general welfare of the citizens through the regulation of nonstormwater discharges to the storm drainage system to the maximum extent practicable as required by federal and state law. This article establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this article are:

- (1) To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user;
- (2) To prohibit illicit connections and discharges to the municipal separate storm sewer system;
- (3) To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this article.

(Ord. No. 2004-17, § I, 3-16-2004)

Sec. 23-30. - Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Authorized enforcement agency means employees or designees of the director of the municipal agency designated to enforce this article.

Best management practices (BMPs) mean schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

Clean water act means the Federal Water Pollution Control Act (33 USC 1251 et seq.), and any subsequent amendments thereto.

Construction activity means activities subject to NPDES construction permits. Currently these include construction projects resulting in land disturbance of one (1) acre or more. Beginning in March 2003, NPDES stormwater phase II permits will be required for construction projects resulting in land disturbance of one (1) acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

Hazardous materials means any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial presence or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Illegal discharge means any direct or indirect nonstormwater discharge to the storm drain system, which is not covered under a proper permit.

Illicit connections means either of the following: any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system including but not limited to any conveyances which allow any nonstormwater discharge including sewage, process wastewater, and

wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency or, any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

Industrial activity means activities subject to NPDES industrial permits as defined in 40 CFR 122.26(b)(14).

National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit means a permit issued by EPA (or by a state under authority delegated pursuant to 33 USC 1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

Nonstormwater discharge means any discharge to the storm drain system that is not composed entirely of stormwater.

Person means any individual, association, organization, partnership, firm, corporation or other entity recognized by law and acting as either the owner or as the owner's agent.

Pollutant means anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; nonhazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordinances, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

Premises means any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

Storm drainage system means any publicly-owned facilities by which stormwater is collected and/or conveyed, including but not limited to any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures.

Stormwater means any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation and resulting from such precipitation.

Stormwater pollution prevention plan means any document which describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

Wastewater means any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

(Ord. No. 2004-17, § II, 3-16-2004)

Sec. 23-31. - Applicability.

This article shall apply to all water entering the storm drain system generated on any developed and undeveloped lands unless explicitly exempted by an authorized enforcement agency.

(Ord. No. 2004-17, § III, 3-16-2004)

Sec. 23-32. - Responsibility for administration.

The city shall administer, implement, and enforce the provisions of this article. Any powers granted or duties imposed upon the authorized enforcement agency may be delegated in writing by the director of the authorized enforcement agency to persons or entities acting in the beneficial interest of or in the employ of the agency.

(Ord. No. 2004-17, § IV, 3-16-2004)

Sec. 23-32.1. - Severability.

The provisions of this article are hereby declared to be severable. If any provision, clause, sentence, or paragraph of this article or the application thereof to any person, establishment, or circumstances shall be held invalid, such invalidity shall not affect the other provisions or application of this article.

(Ord. No. 2004-17, § V, 3-16-2004)

Sec. 23-33. - Minimum standards.

The standards set forth herein and promulgated pursuant to this article are minimum standards; therefore this article does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants.

(Ord. No. 2004-17, § VI, 3-16-2004)

Sec. 23-34. - Discharge prohibitions.

- (a) Prohibition of illegal discharges. No person shall discharge or cause to be discharged into the municipal storm drain system or watercourses any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater. The commencement, conduct or continuance of any illegal discharge to the storm drain system is prohibited except as described as follows:
- (1) The following discharges are exempt from discharge prohibitions established by this article: water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising groundwater, groundwater infiltration to storm drains, uncontaminated pumped groundwater, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, noncommercial washing of vehicles, natural riparian habitat or wetland flows, swimming pools (if dechlorinated - typically less than one (1) PPM chlorine), firefighting activities, and any other water source not containing pollutants.
 - (2) Discharges specified in writing by the authorized enforcement agency as being necessary to protect public health and safety.
 - (3) Dye testing is an allowable discharge, but requires a verbal notification to the authorized enforcement agency prior to the time of the test.
 - (4) The prohibition shall not apply to any nonstormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency; provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations; and provided, that written approval has been granted for any discharge to the storm drain system.
- (b) Prohibition of illicit connections.

- (1) The construction, use, maintenance or continued existence of illicit connections to the storm drain system is prohibited.
- (2) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (3) A person is considered to be in violation of this article if the person connects a line conveying sewage to the MS4, or allows such a connection to continue.

(Ord. No. 2004-17, § VII, 3-16-2004)

Sec. 23-35. - Suspension of MS4 access.

- (a) Suspension due to illicit discharges in emergency situations. The city may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the authorized enforcement agency may take such steps as deemed necessary to prevent or minimize damage to the MS4 or waters of the United States, or to minimize danger to persons.
- (b) Suspension due to the detection of illicit discharge.
 - (1) Any person discharging to the MS4 in violation of this article may have their MS4 access terminated if such termination would abate or reduce an illicit discharge. The authorized enforcement agency will notify a violator of the proposed termination of its MS4 access. The violator may petition the authorized enforcement agency for a reconsideration and hearing.
 - (2) A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to this section, without the prior approval of the authorized enforcement agency.

(Ord. No. 2004-17, § VIII, 3-16-2004)

Sec. 23-36. - Industrial or construction activity discharges.

Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the city prior to the allowing of discharges to the MS4.

(Ord. No. 2004-17, § IX, 3-16-2004)

Sec. 23-37. - Monitoring of discharges.

- (a) Applicability. This section applies to all facilities that have stormwater discharges associated with industrial activity, including construction activity.
- (b) Access to facilities.
 - (1) The city shall be permitted to enter and inspect facilities subject to regulation under this article as often as may be necessary to determine compliance with this article. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the authorized enforcement agency.
 - (2) Facility operators shall allow the city ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the

conditions of an NPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.

- (3) The city shall have the right to set up on any permitted facility such devices as are necessary in the opinion of the authorized enforcement agency to conduct monitoring and/or sampling of the facility's stormwater discharge.
- (4) The city has the right to require the discharger to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.
- (5) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the city and shall not be replaced. The costs of clearing such access shall be borne by the operator.
- (6) Unreasonable delays in allowing the city access to a permitted facility is a violation of a stormwater discharge permit and of this article. A person who is the operator of a facility with a NPDES permit to discharge stormwater associated with industrial activity commits an offense if the person denies the authorized enforcement agency reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this article.
- (7) If the city has been refused access to any part of the premises from which stormwater is discharged, and he is able to demonstrate probable cause to believe that there may be a violation of this article, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this article or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction.

(Ord. No. 2004-17, § X, 3-16-2004)

Sec. 23-38. - Requirement to prevent, control, and reduce stormwater pollutants by the use of best management practices.

The city will adopt requirements identifying best management practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of stormwater, the storm drain system, or waters of the U.S. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses through the use of these structural and nonstructural BMPs. Further, any person responsible for a property or premises, which is, or may be, the source of an illicit discharge, may be required to implement, at said person's expense, additional structural and nonstructural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with the industrial activity, to the extent practicable, shall be deemed compliance with the provisions of this section. These BMPs shall be part of a stormwater pollution prevention plan (SWPP) as necessary for compliance with requirements of the NPDES permit.

(Ord. No. 2004-17, § XI, 3-16-2004)

Sec. 23-39. - Notification of spills.

Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into stormwater, the storm drain system, or water of the U.S., said person shall take all

necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch service. In the event of a release of nonhazardous materials, said person shall notify the authorized enforcement agency in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the city within three (3) business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years.

(Ord. No. 2004-17, § XII, 3-16-2004)

Sec. 23-40. - Enforcement.

- (a) Notice of violation. Whenever the city finds that a person has violated a prohibition or failed to meet a requirement of this article, the authorized enforcement agency may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:
- (1) The performance of monitoring, analyses, and reporting;
 - (2) The elimination of illicit connections or discharges;
 - (3) That violating discharges, practices, or operations shall cease and desist;
 - (4) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
 - (5) Payment of a fine to cover administrative and remediation costs; and
 - (6) The implementation of source control or treatment BMPs.
- (b) Abatement of violation. If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such redemption or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator.

(Ord. No. 2004-17, § XIII, 3-16-2004)

Sec. 23-41. - Appeal of notice of violation.

Any person receiving a notice of violation may appeal the determination of the authorized enforcement agency. The notice of appeal must be received within ten (10) days from the date of the notice of violation. Hearing on the appeal before the appropriate authority or his designee shall take place within fifteen (15) days from the date of receipt of the notice of appeal. The decision of the municipal authority or their designee shall be final.

(Ord. No. 2004-17, § XIV, 3-16-2004)

Sec. 23-42. - Enforcement measures after appeal.

If the violation has not been corrected pursuant to the requirements set forth in the notice of violation, or, in the event of an appeal, within thirty (30) days of the decision of the municipal authority upholding the decision of the authorized enforcement agency, then representatives of the authorized enforcement agency shall enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner,

agent or person in possession of any premises to refuse to allow the government agency or designated contractor to enter upon the premises for the purposes set forth above.

(Ord. No. 2004-17, § XV, 3-16-2004)

Sec. 23-43. - Cost of abatement of the violation.

- (a) Within fifteen (15) days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may file a written protest objecting to the amount of the assessment within five (5) days. If the amount due is not paid within a timely manner as determined by the decision of the municipal authority or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.
- (b) Any person violating any of the provisions of this article shall become liable to the city by reason of such violation. The liability shall be paid in not more than twelve (12) equal payments. Interest at the rate of five (5) percent per annum shall be assessed on the balance beginning on the 30th day following discovery of the violation.

(Ord. No. 2004-17, § XVI, 3-16-2004)

Sec. 23-44. - Injunctive relief.

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this article. If a person has violated or continues to violate the provisions of this article, the authorized enforcement agency may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

(Ord. No. 2004-17, § XVII, 3-16-2004)

Sec. 23-45. - Compensatory action.

In lieu of enforcement proceedings, penalties, and remedies authorized by this article, the authorized enforcement agency may impose upon a violator alternative compensatory actions, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

(Ord. No. 2004-17, § XVIII, 3-16-2004)

Sec. 23-46. - Violations deemed a public nuisance.

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this article is a threat to public health, safety, and welfare, and is declared and deemed a nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

(Ord. No. 2004-17, § XIX, 3-16-2004)

Sec. 23-47. - Criminal prosecution.

- (a) Any person that has violated or continues to violate this article shall be liable to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of five hundred dollars (\$500.00) per violation per day and/or imprisonment for a period of time not to exceed thirty (30) days.
- (b) The authorized enforcement agency may recover all attorney's fees, court costs, and other expenses associated with enforcement of this article, including sampling and monitoring expenses.

(Ord. No. 2004-17, § XX, 3-16-2004)

Sec. 23-48. - Remedies not exclusive.

The remedies listed in this article are not exclusive of any other remedies available under any applicable federal, state or local law and it is within the discretion of the authorized enforcement agency to seek cumulative remedies.

(Ord. No. 2004-17, § XXI, 3-16-2004)

Secs. 23-49—23-69. - Reserved.

Five Program Options

Each of the five programs aids in educating and motivating members of the community to participate in eliminating illicit discharges.

30 sec. The 30 second spot is designed primarily for your local public media outlet. Public service announcements. Community TV stations.

60 sec. The 60 second spot expands on the previous announcement. Both can be used to reach a broad community audience. Public service announcements. Community TV stations.

2 min. The 2 minute presentation works when there is limited time or for audiences with short attention spans. For booths or tables at street fairs, county fairs, public events. Looping on closed circuit TV in public places like city halls and permit application waiting areas.

5½ min. The 5½ minute presentation may be best for short speaker presentations or for young audiences. Elementary school and short group presentations.

10½ min. The 10½ minute presentation presents a similar message but with more depth. This presentation is focused on full understanding of the problem of illicit discharge and what can be done within the community to reduce it. Public and private secondary school classrooms. High school science classes. School assemblies. Public service or business organizations such as Rotary, Moose, Trout Unlimited, Chamber of Commerce, etc.

IDDE:PO-insert:rd.1301

IDDE

Illicit Discharge Detection and Elimination

Public Outreach

This **Public Outreach** video series, titled *IDDE, a grate concern*, can be used in conjunction with your water quality improvement effort or watershed plan to help build a program of community awareness of Illicit Discharge, Detection and Elimination. The EPA offers a Six Step guide for developing public outreach programs. This package fits nicely into that implementation plan.

The video series, *IDDE, a grate concern*, delivers the essential message the community needs about Illicit Discharge, Detection and Elimination, including understanding illicit discharges, the damage they can do, what they look like, how to recognize them and what citizens can do to help eliminate them. *IDDE, a grate*

EPA: Six Steps of Outreach

- define driving forces, goals and objectives
- identify/analyze target audience
- create message
- package message
- distribute message
- evaluate outreach campaign

concern is actually an ensemble of 5 videos (English and Spanish options) that delivers the message with varying levels of detail, appropriate for diverse target audiences and available public outreach media.

Every municipality will have numerous target audiences and various opportunities to reach them—from show-and-tell at elementary schools to speaking engagements with business leader associations, to community television and even the internet. The five videos are all of different lengths and available in several media formats for delivering just the right message through many distribution channels.

Excal Visual LLP • www.ExcalVisual.com • 888-925-6554

The 4 Disc Package IDDE Public Outreach

Disc Type	What's On It
(1) DVD	DVD Video with menus to allow the viewer to play any of 5 English versions and any of 5 Spanish versions. Plays in set top DVD players or computers with DVD player software.
(2) CDROM	Windows Media Video with menus to allow viewer to play any of 5 English versions and any of 5 Spanish versions. Plays on a Windows computer. The files can be loaded on a server for use on a network, generally an organization's internal network. Clients (viewers) are generally restricted to Windows computers.
(3) DVD	Digital video for TV includes 10 files, 5 English and 5 Spanish versions, for use by a TV station.
(4) DVD	Digital video for Internet. There are 3 files (different file types) of each of the 10 program versions (5 English and 5 Spanish) to give playback ability on a variety of devices. A sample player program, web page, is included that can be used as is or modified or cannibalized to make a custom player page. These video files along with a player web page can be loaded on a web server to deliver the program to internet users. With the sample player or derivative, the videos can be viewed from a variety of internet connected devices, e.g computers, phones (android and iphone) and tablets.



CITY of FLORENCE, ALABAMA

ENGINEERING DEPARTMENT

Monthly NPDES Construction Site Inspection List January 2015 – February 2016

SportsPlex
Chert Pit
Hunters Ridge
Bentbrook
Blackberry Villages
Old Hickory
Clark Gas
Meadows
Martha's Vineard
Stoney Brook
Cypress Creek Manor
Donald Thomas
Florence Freshman Center
UNA Center
UNA Science Building
Wade Gilchirst (Industrial Park)
Bimbo Bakeries
Underwood Baptist Church
Millennium Tire
Industrial Park Substation
Florence Nursing and Rehab Center
UNA Student Housing
Parkway Industrial Sites
Student Parking Lot Florence High School
Super Sonic Car Wash
JDG Investments (Sky Zone)
Zaxby's Cloverdale Rd

INSPECTION REPORT

Sheet ___ of ___

Project Name: _____ File No. _____

Inspection Date: _____ Time: _____ Inspected by: _____

STAGE OF CONSTRUCTION

Pre-Construction Conference Rough Grading Finish Grading
 Clearing and Grubbing Building Construction Final Stabilization

=====

INSPECTION CHECKLIST

Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have all denuded areas requiring temporary or permanent stabilization been stabilized? Seeded? yes/no Mulched? yes/no Graveled? yes/no
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are soil stock piles adequately stabilized with seeding and/or sediment trapping measures?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does permanent vegetation provide adequate stabilization?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have sediment trapping facilities been constructed as a first step in LDA?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For perimeter sediment trapping measures, are earthen structures stabilized?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are sediment basins installed where needed?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are finished cut and fill slopes adequately stabilized?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are on-site channels and outlets adequately stabilized?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do all operational storm sewer inlets have adequate inlet protection?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are stormwater conveyance channels adequately stabilized with channel lining and/or outlet protection?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is in-stream construction conducted using measures to minimize channel damage?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are temporary stream crossings of non-erodible material installed where applicable?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is necessary restabilization of in-stream construction complete?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are utility trenches stabilized properly?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are soil and mud kept off public roadways at intersections with site access roads?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have all temporary control structures that are no longer needed been removed?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have all control structure repairs and sediment removal been performed?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are properties and waterways downstream from development adequately protected from Erosion and sediment deposition due to increases in peak stormwater runoff?

Comments: _____

Verbal/Written notification given to: _____

Report by: _____ Date: _____

POLLUTION PREVENTION/GOOD HOUSEKEEPING

- Regulations for Municipal Operations and Stormwater Quality
- Rain Check Training Video Program
- Seminar Brochure—QCI Storm Water Management Training
- Storm Drain Clean-Out Reports

REGULATIONS FOR MUNICIPAL OPERATION AND STORMWATER QUALITY

City personnel who are involved with maintenance facilities or with construction of streets, storm drainage, utility construction of any nature, parks and recreation facilities or landfill operations will hereby be required to adhere to these regulations.

MAINTENANCE OPERATIONS

All vehicle repair or maintenance facilities and/or wash areas will be managed such that no pollutants from the premises will enter the stormwater system. Spill prevention control including grease pits will be constructed to catch oil and grease. Any soil washed from a vehicle will be stockpiled for future removal from the site and properly disposed of.

The volume of pesticides, fertilizers and herbicides used on public property will be studied by the park and recreation department and/or the horticulture department. These chemicals will be used as sparingly as possible.

All city personnel who are responsible for disturbing the ground surface on a municipal project will provide adequate soil erosion controls such as silt fence, hay bales, rip rap or siltation basins. The responsible person will note for the file that proper BMP was used. This note will be kept on file by project name or number. The note will include a brief description of the BMP.

All disturbed areas will be seeded and mulched or sodded immediately after construction is complete.

Steep gradient trenches will be protected by silt fence or hay bales which will slow water velocity and reduce erosion.

Landfill personnel will employ silt fence to prevent erosion while areas of the landfill are bare. Every effort will be made to prevent solid waste from leaving the site and entering any water of the state.

All deposited material which is removed from siltation basins, inlets, storm sewers, streets, etc., will be disposed of as directed by the city stormwater management personnel.

Any storm sewer construction project will be designed using proper methods of controlling siltation which are caused by concentrating flows. Methods to reduce velocity will be employed.

The street department will limit the use of salt during inclement weather to only the amount required or better yet employ the use of other more environmentally friendly materials.

THE RAIN CHECK VIDEO

The *Rain Check* video program is available primarily in two formats: DVD and CD-ROM. How *Rain Check* is used for training will depend on which BMPs are included and how the trainer elects to present the training.

DVD FORMAT

The DVD opens with a menu of three main training options. The trainer can select the option that best fits the training needs of the employees at each facility or operation.

Option #1 Complete Program (31 minutes)

This presents all 14 chapters of training and includes basic and specialty BMP training. The following chapters are included:

- CHAPTER 1: Introduction
- CHAPTER 2: Good Housekeeping & Spill Prevention
- CHAPTER 3: Spill Control & Response
- CHAPTER 4: Vehicle Fueling
- CHAPTER 5: Vehicle & Equipment Maintenance
- CHAPTER 6: Vehicle & Equipment Washing
- CHAPTER 7: Materials Management
- CHAPTER 8: Waste Management
- CHAPTER 9: Municipal Facility Maintenance
- CHAPTER 10: Parking Lots & Streets
- CHAPTER 11: Storm Drain System Cleaning
- CHAPTER 12: Landscaping & Grounds Maintenance
- CHAPTER 13: Working Over or Near Surface Waters
- CHAPTER 14: Conclusion

Bill Batson

From: Thompson Engineering <rbaya@thompsonengineering.ccsend.com> on behalf of Thompson Engineering <rbaya@thompsonengineering.com>
Sent: Friday, June 12, 2015 9:04 AM
To: Bill Batson
Subject: QCI Refresher Training - 6/26/15

Having trouble viewing this email? [Click here](#)



**QCI REFRESHER CLASSROOM TRAINING
JUNE 26, 2015
BIRMINGHAM**

Thompson Engineering will conduct an ADEM Qualified Credentialed Inspector (QCI) Refresher Training class in Birmingham on the morning of Friday, June 26, 2015. This four-hour session is designed for those current QCI students who prefer classroom instruction instead of our online refresher training course.

The registration fee for members of our affiliated associations is \$200 per student. The fee is \$250 per student for non-members. Pre-registration is requested to ensure that we have enough seats and training materials available.

[Click here](#) to download a registration form or to obtain more information about the Thompson Engineering QCI Training Program including our

**Are you due for a
refresher?**



To find your QCI number and expiration date, click [here](#) to go to the certified inspectors page of our website.

Type your last name in the Search Box at the upper right of this page and click on the "Go" icon next to the box. You will see your QCI number, name, company, city, and expiration date. You have a grace period of 45 days after your expiration date in which

training schedule through August 2015, information about our online refresher course, and a searchable list of QCIs who have been trained by Thompson Engineering. For information about how to find your QCI number and expiration date, see the sidebar to the right.

to complete your refresher training. ADEM requires that QCIs take annual refresher training, either in a classroom setting or online. Questions? Call us at 251-666-2443 or [email us](#).

Thank you!

Questions?
Call us at 251-666-2443

Follow us on LinkedIn 

Copyright © 2015. All Rights Reserved.

[Forward this email](#)

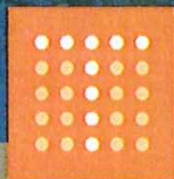
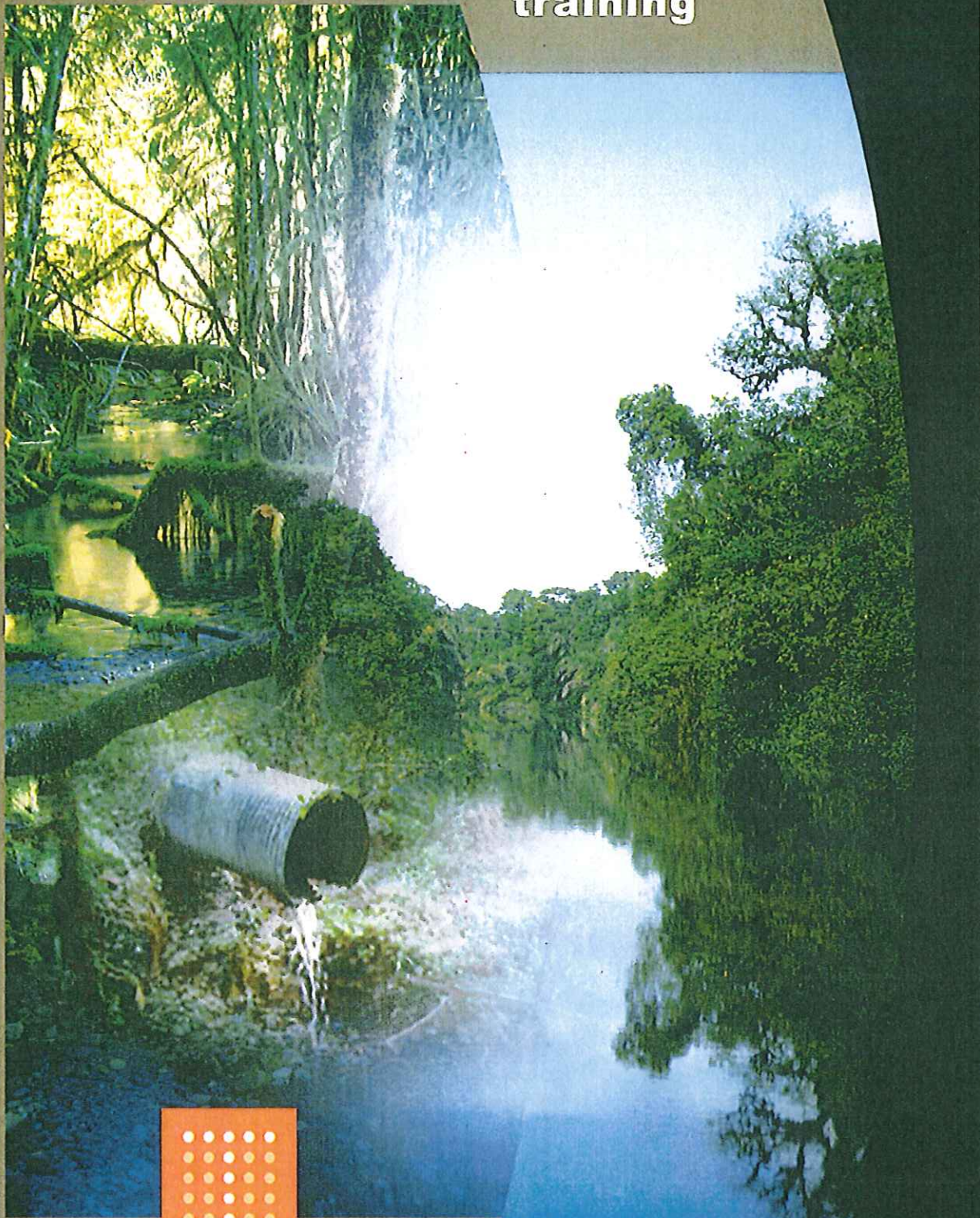
 [SafeUnsubscribe](#)

This email was sent to bbatson@florenceal.org by rbaya@thompsonengineering.com
[Update Profile/Email Address](#) Rapid removal with [SafeUnsubscribe™](#) [Privacy Policy](#).



Thompson Engineering 2970 Cottage Hill Road Suite 190 Mobile AL 36606

storm water management
training



thompson
ENGINEERING

Qualified Credentialed Inspector Program storm water management training

Objectives

The objectives of the Thompson Engineering Qualified Credentialed Inspector (QCI) Program are to provide training in storm water pollution prevention regulations and requirements, and to provide practical instruction in performance-oriented best management practice (BMP) inspection and maintenance. Thompson Engineering is approved by the Alabama Department of Environmental Management (ADEM) as a provider of this training program.



Company Overview

Thompson Engineering develops and delivers erosion and sediment control training classes to engineers, planners, inspectors, and contractors in Alabama, Florida, Louisiana and Mississippi. We create customized training workshops, seminars, and field exercises that help protect the environment and ensure compliance with regulatory

requirements. Thompson personnel also make presentations to civic and community groups on storm water pollution prevention, best management practices, and other issues related to water quality.

Founded in 1953, Thompson Engineering is a multi-disciplined engineering design and environmental consulting firm. Our staff includes over 320 experienced personnel, providing a broad and diverse line of services. In the past 60 years, we have grown from a local firm providing basic soils and materials tests into a full-service architectural/engineering firm with multiple office locations throughout the Southeastern United States.





storm water management training courses

Training Team

Lead Instructor

Carl A. Pinyerd, III, CPESC, CPSSc, CHMM

Instructors

Wilson B. Folmar, PE, CPESC, CPSWQ

David L. Upton, PE

William J. O'Bannon, CPESC

Consultants

Joel D. Seawell, CPESC

Erosion Pros, LLC

John C. Carlton, CPESC

Former Chief, Mobile Branch - ADEM (Retired)

Training Coordinator

Cindy Roton

Training Administrator

Celeste Viola

What Our Students Are Saying . . .

"Comprehensive training given in layman's terms with good visual examples."

"Excellent course! I've learned a lot about BMPs. I will definitely be sharing my notes with my contractors."

"Representation of topics was great; the trainers knew the material very well."

"Excellent workshop! Very well organized. Consistent material from start to finish."

"Tells you exactly what has to be done to prevent erosion and reduce pollution."

About our courses

Thompson Engineering offers a one-day (8-hour) initial course, a half-day (4-hour) refresher course, and an online refresher. Each course features a virtual tour highlighting both functioning and non-functioning BMPs on construction sites.

Initial Training (8-hour)

- Introduction and Overview
- NPDES Regulations
- Erosion and Sedimentation Basics
- Pollution Prevention Principles
- Erosion Control BMPs
- Sediment Control BMPs
- Permanent BMPs
- Product Demonstrations
- Construction Site Inspection
- BMPs Gone Bad
- Summary and Conclusion

Refresher Training (4-hour)

- NPDES Regulations - Review and update
- BMP Review
- New-and-Improved BMPs
- Construction Site Inspection Review

For a schedule of courses, fee schedule, and registration form please visit our storm water training website at www.thompsonengineering.com or call us at 251.666.2443.

THE UNIVERSITY OF CHICAGO
PRESS
CHICAGO, ILLINOIS
1995

