City of Florence

Annual Report for 2016

General Permit for Phase II

Small Municipal
Separate Storm Sewer Systems (MS4)

May 31, 2017

Prepared by:

City of Florence

Annual Report

General Permit for Phase II

Small Municipal Separate Storm Sewer Systems (MS4)

NPDES Permit No. ALR04008

May 31, 2017

Prepared for the City of Florence

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

Richard O. Edmonds, P.E.

Annual Report for 2016-2017
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.

Steve Holt
Signature—Responsible Official

5-26-17
Date

Steve Holt
Print Name

Mayor
Title

City of Florence, Alabama
NPDES (MS4) 2016-17 Annual Report
Permit No. ALR040008
May 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. (See Appendix for a list of Stormwater Education events and activities that were conducted in 2016 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 purchased in June 2016 but have not yet been placed on inlets around the City. Additional markers will be purchased in 2017. (See Appendix for a picture of the markers that will be 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. New manhole covers were placed on the Wood Avenue project and the Downtown Streetscape project from Seminary Street to Poplar Street. 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 2016.)

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.

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. Twenty-five (25) local businesses are recognized as Green Team Partners on the City's sustainability website (www.florencegoesgreen.org)

4) The City organized a city wide Clean-Up Day in April. Fifteen (15) different organizations and businesses sponsored the event. Over one hundred fifty eight (158) volunteer citizens participated in the event. A

total of 4,600 pounds of trash and litter was collected from various roadways throughout the City of Florence. (See Appendix for copy of 2016 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. Updates 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 12/12/2016. 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 2016 a total of twenty-nine (29) sites were inspected on a monthly basis. (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 City of Florence Engineering Department has two training programs it uses to educate and train 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. The videos are "Rain Check Trainer's Guide for Stormwater Pollution Prevention for MS4s" and "Illicit Discharge Detection and Elimination Public Outreach Program". (See Appendix for outline of the "Rain Check Trainer's" video training program.)

4) One (1) employee, Todd Sullivan, with the City Engineering Department attended an ADEM Qualified Credentialed Professional (QCP) Workshop in November of 2016. Two (2) employees, Todd Sullivan and David Looney, with the City Engineering Department attended an Erosion Control, Sediment Control, and Stormwater Management on Construction Sites Seminar in March of 2016 sponsored by Alabama Technology Transfer Center. These seminars and workshops provided the Stormwater Management Training for 2016. (See Appendix for brochures on these events.)

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 from January 2016 through February 2017. Approximately 17,000 lbs. of debris was cleared from the storm sewer system during the 2016 reporting year. (See Appendix for Storm Drain Clean-Out Reports and Pictures.)

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 2017-18, 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 mail outs.
   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 Stormwater 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 Stormwater 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
  - Storm Drainage Marker
  - Excerpt from Subdivision Regulations

- PUBLIC INVOLVEMENT AND PARTICIPATION
  - 2016 Clean-Up Day Flier & Rubbish Report (4/9/16)
  - City of Florence Green Team Partnership Meeting Agenda (6/9/16)
  - 2016 Tennessee River Litter Tournament Press Release and Flyer (9/24/16)
  - 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
  - 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
  - Workshop Brochure—QCP Stormwater Management Training
  - Seminar Brochure—Erosion
  - Storm Drain Clean-Out Reports

PUBLIC EDUCATION AND OUTREACH

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

You're Invited To Our Front Porch!

University of North Alabama
FRONT PORCH STORYTELLING FESTIVAL

Friday & Saturday
May 20 & 21st
9 a.m.—5 p.m. GUC Performance Center
6:30 p.m.—9:30 p.m. Norton Auditorium
Single Ticket: $15 adult/day, students free
Two Day Package: $25 per adult

Enjoy stories all day Friday and Saturday on campus from 9am until 5pm. Beginning at 6:30pm, venture to McFarland Park to experience featured musical performances from Three on a String Friday night and The Dill Pickers on Saturday night. Each evening will also include a selection of stories from our world class tellers. The McFarland Park portion of our festival will be FREE to the public!

Our featured storytellers 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

PRE FESTIVAL FUN!

Wednesday, May 18, 2016

- An Evening With Donald Davis $10
  Location: UNA Guillot University Center

Thursday, May 19, 2016

- Shoals Historic Tour 9am or 1pm, $25
- *The Muscle Shoals Documentary* $5
  10am- Private showing in the GUC Loft
- The Shoals Music Tour 1:30pm, $25
  Guided by Walt Aldridge
- *Kathryn: The Story of a Teller* $5
- 2pm– Private showing in the GUC Loft

Singing River Songwriter's Round
May 19, 7:30pm, GUC Performance Center

Our newest event, The Singing River Songwriter's Round, will feature Walt Aldridge, Kate Campbell, Donny Lowery and Mark Narmore, performing their hit songs and sharing the stories that inspired them. This event is FREE to the public! Seating will be limited, You do not want to miss this special evening!

April 2016
Volume 15, No. 2

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.

University of North Alabama
FRONT PORCH STORYTELLING FESTIVAL

Friday & Saturday
May 20 & 21, 2016

Spring cleaning makes way for yard sales this time of year. See inside for information about where NOT to put your signs.

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

Spring cleaning makes way for yard sales this time of year. In fact, you've probably seen signs popping up in your neighborhood. Nailing these signs to utility poles may seem like harmless, free advertising, but it poses a serious risk to our line workers.

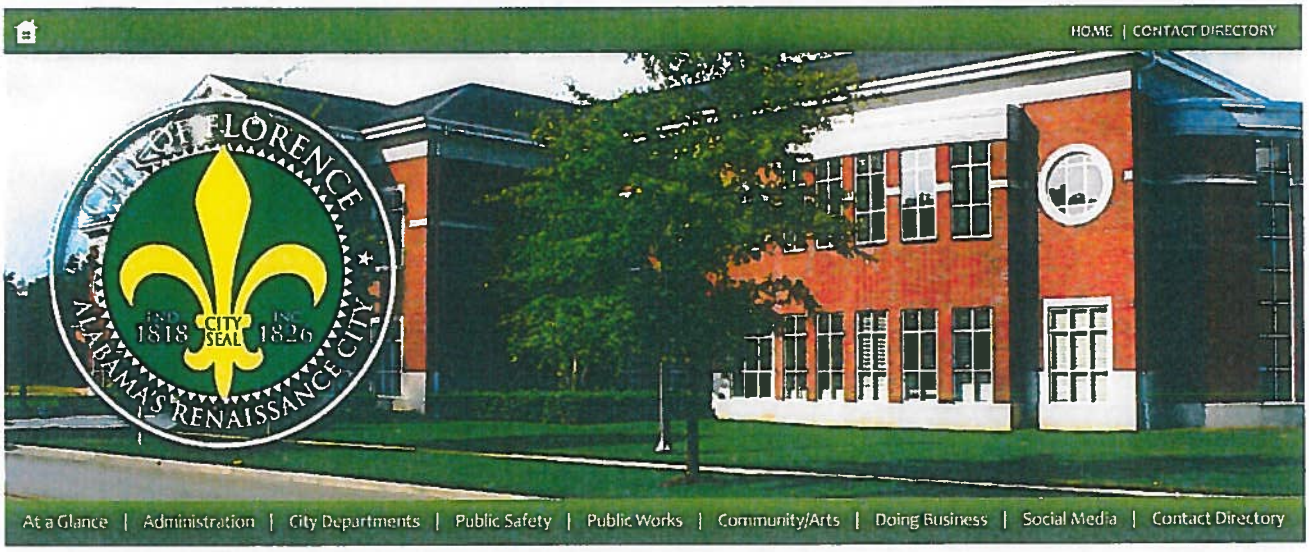
Our crews depend on special gloves that enable them to safely handle live power lines, and a simple prick in the gloves could spell disaster.

Please help us protect our employees. Don't put tacks, nails, or any other metal fasteners on utility poles.

NOTICE

FLORENCE UTILITIES WILL BE CLOSED ON

MON., MAY 30	MEMORIAL DAY
MON., JULY 4	INDEPENDENCE DAY



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
- General Permit for Phase II Annual Report for 2015

5 Videos

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

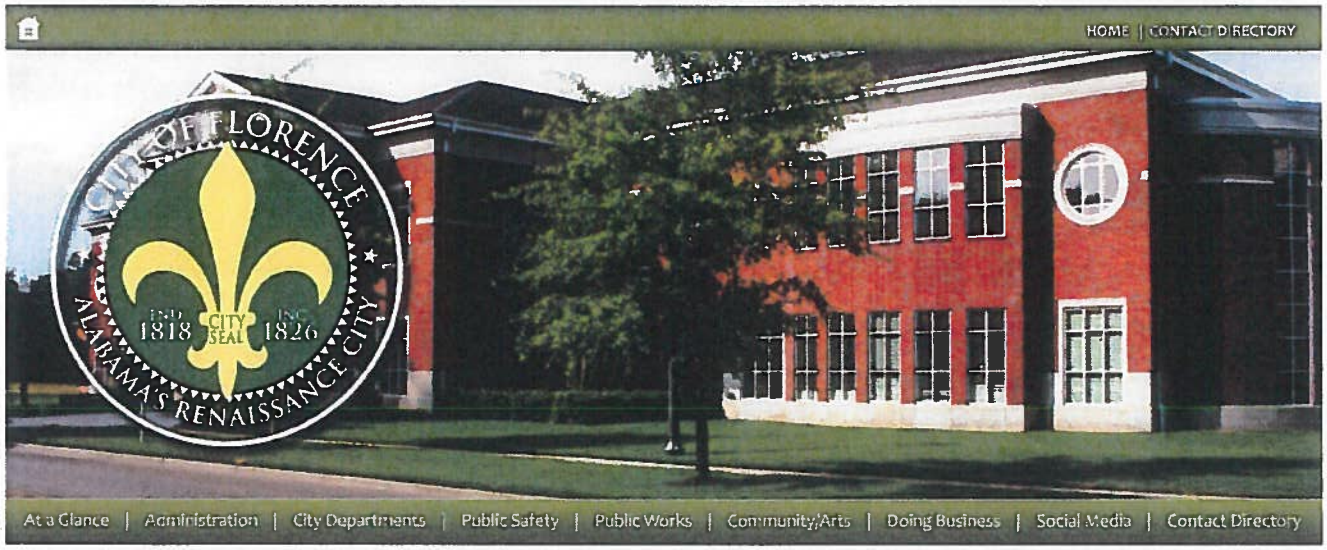
Return to florenceal.org

Bill Batson
City Engineer

City Engineering Department
110 West College Street
Florence, AL 35630

Phone: (256) 760-6350

Fax: (256) 740-4667



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.

Click Here for More Videos

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

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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

Annette Menne

From: Rachel Mansell
Sent: Friday, March 31, 2017 3:49 PM
To: Annette Menne
Cc: David Koonce
Subject: Environmental Education Activities 2016
Attachments: Stormwater activities 2016 1.xlsx; Litter Tournament Flyer.pdf; 08122016 Shoals Residents can Catch Prize Money at the Tennessee River L....docx; image1.JPG; Rubbish Report 2016.pdf; June 9,2016.docx; Clean up Insert 2016.jpg; IMG_5151.JPG; FW: Recap: Litter Tournament

Hello,

See attached lists of activities and some supporting documents. I have tons of pictures. Please let me know if you need additional information. I listed the activities in excel this year just to be different. Let me know if you would like it in a different format.
The #I Keep the Shoals Beautiful Social Media Campaign was huge and lasted from Jan - April. We gave out 100's of prizes all over the shoals. The Tennessee Litter Tournament in September was a big event too.

I hope you are fantastic. Thank you for letting me work on storm water education. I love talking about the Earth with these kiddos.

Rachel Mansell

City of Florence
Solid Waste, Street, & Recycle
Education Outreach Coordinator
256-627-0970

DATE	Event		#	Notes
20-Jan-17	Earth Day Planning meeting	Meeting	10	
25-Jan-17	City Ambassadors Program	Presentation	40	10 min presentation on City's sustainability efforts/goals
10-Feb-17	Earth Day Planning meeting	Meeting	10	
1-Mar-17	Youth & Government Day	tour	27	Florence High School Students toured recycle &street dept.
3-Mar-17	Recycle Fashion Show Methodist W	Presentation	30	Environmental Education & Recycle Fashion Show
9-Mar-17	TVA Sustainable Community Meetir	Meeting	4	City employees received training on sustainability programs
11-Mar-17	Kiwanis Presentation	Presentation	40	Environmental Education presentation: recycle, storm water, & litter
29-Mar-17	Courier Journal - Full Page Insert	Education	17,000	Flyers were placed in the weekly paper to all residents
13-Mar-17	Sheffield Church Group	Presentation	25	Environmental Education presentation: recycle, storm water, & litter
22-Mar-17	Keep Alabama Beautiful Meeting	Meeting	3	Attended the statewide training on litter prevention
24-Mar-17	#IKTSB Awards and presentations	Presentation	400	Award & presentation was made during school wide assembly at Weeden Elementary
1-Apr-17	First Friday Event - Goes Green	Booth	2000-3000	Environmental Education Booth: recycle, storm water, & anti litter. We gave away coloring books, supper hero capes, Stop Litter T-shirts
9-Apr-17	Shoals Earth Day Festival	Booth	500+	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. 160 brochures and coloring books were distributed.

9-Apr-17	Citywide Clean up event	Event		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)
15-Apr-17	#IKTSB Awards and presentations	Presentation		Awarded winning students (Underwood, Central, Rogers)
19-Apr-17	Florence Gas Department Presentat	Presentation	50	Environmental Education presentation: recycle, storm water, & litter
21-Apr-17	First Methodist Day School Tour	tour	45	Students, parents, & teachers toured the landfill & recycle
20/21-Apr-17	Forest Hill School Visit - 1st	Presentation		Environmental Education presentation: recycle, storm water, & litter
25-Apr-17	City Ambassadors Program	Presentation	40	Environmental Education presentation: recycle, storm water, & litter

25-Apr-17	Forest Hill School Visit -Kindergarte	Presentation	120	Environmental Education presentation: recycle, storm water, & litter
5-May-17	Legacy Christian 1st/2nd grade tour	tour		Students toured the landfill & recycle center
7-May-17	Kids Fest	Booth		800+ kids and adults Environmental Education Display along and basket ball goal for students to "Take a shot at Recycling"
16-May-17	Clean Campus Award	Presentation		Harlan Elementary was presented a 5' trophy and environmental presentation by Steve Trash
19-May-17	St. Joseph 1st grade	Tour	25	Recycle and landfill tour
20-May-17	Kilby First Grade Presentation	Presentation	23	Environmental Education presentation: recycle, storm water
6-Jun-17	Angle Touch Wellness Fair	Booth/Presentati	50	Environmental Education presentation: recycle, storm water
9-Jun-17	Green Team Meeting	Meeting	7	City of Florence Sustainability Efforts
13-Jun-17	KTSB River Clean up Meeting	Meeting	8	
20-Jun-17	Trinity Episcope Green Camp Day	Presentation	60	Student lesson on recycle and litter/made supper hero capes
24-Jun-17	KTSB River Clean up Meeting	Meeting	8	
25-Jul-17	Jazz it up with Trash	Event	100	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.
23-30-July-17	Handy Festival - In Harmony with N	Events	1000	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.
2-Aug-17	Parents Night Out Event		400	Environmental Education Display along and basket ball goal for students to "Take a shot at Recycling"
10-Aug-17	KTSB River Clean up Meeting	Meeting	10	
30-Aug-17	UNA Sustainability Center meeting	Meeting	5	
19-Sep-17	KTSB River Clean up Meeting	Meeting	8	

24-Sep-17	KTSB River Clean up Tournament	Event	100+	Volunteers collects 200+ bags of trash from the Tennessee River
25-Sep-17	Faith Church Litter clean up	Event	60	Volunteers collected trash from the roadways and ditches
16-Oct-17	Florence Fall Festival	Booth	400+	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.
13/14-Oct-17	Keep Alabama Beautiful Conference		2	Attended the statewide training on litter prevention
22-Mar-17	Urban Forestry Conference Booth	Booth	220	Environmental Education Booth: recycle, storm water, & anti litter.
22-Apr-17	UNA Earth Day Celebration		500+	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
6-Jun-17	Community Sustainability Meeting	Meeting	50	Florence Lauderdale Tourism hosted a community meeting to discuss community sustainably efforts.
22-May-15	Litter Index Survey		2	Keep the Shoals Beautiful completed a litter Index in the City of Florence and determined the monitored street has improved since last year.
24-Oct-17	UNA booth- Sustainability Efforts		140	Students set up a booth for the week to educate students on recycling and litter
30-May-15	Shred Day Event		120	Better Business Beau hosted a Shred Event to the public. The event included an environmental display about recycling.
15-Nov-17	America Recycle Day Proclamation		1	Mayor presented a proclamation at the Council Meeting to promote recycling

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.


EXIT
BIG
Olive Garden
Beneful
Incredibites


BIRTHDAYS
April 20,2016
Write about a time you
DIGIORNO
STUFFED
CLUB

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

FRONT

BACK

Proof #1: DAS 4.0 FLORENCE / APRIL 4, 2007 DD

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

- 2016 Clean-Up Day Flier & Rubbish Report (4/9/16)
- City of Florence Green Team Partnership Meeting Agenda (6/9/16)
- 2016 Tennessee River Litter Tournament Press Release and Flyer (9/24/16)
- 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

2016 RUBBISH REPORT

Rubbish Collected

Litter collected from roadways throughout the City of Florence

3,800 pounds of trash collected

Volunteers

Florence has community pride!

174 Volunteers

Participating Organizations

Florence Mayor/Council
TNT Fireworks
Girls Scouts
Southern Legacy Outreach
Keep the Shoals Beautiful
Faith Church
UNA Greek Life
ARK Church
Christ Chapel
Waste Connections
Florence Electricity
UNA Outdoor Adventure
Florence One Stop Shop
Christ Chapel
Boy Scouts
Florence Solid Waste, Street, & Recycle
Florence Gas & Water Department
Florence Police Department
Florence Parks & Recreation
Florence Customer Service
Florence Engineers
Florence Building

SPONSORS

Mayor's Office • Waste Connections • Rosie's Cantina • Florence Gas & Water

WHNT News19 •McDonald's • PALS• LAMAR • Keep the Shoals Beautiful

Citywide Volunteer
Clean -Up Day



Join us at the annual Citywide Volunteer Clean-Up Day to help pickup litter.

CALL 256 760 6495

Volunteers (organizations, scouts, businesses, or individuals) will be supplied with **vests, bags, gloves, and breakfast**. Groups can call ahead for a designated area or meet us at the **Florence-Lauderdale Coliseum.**

Saturday, April 9, 2016
Florence-Lauderdale Coliseum
8:00 am - 12 noon



SPONSORS

Mayor 's Office • Waste Connections, Inc.
Florence Gas & Water • Rosie's Cantina
McDonald's • PALS• Chick-fil-A • LAMAR
Keep the Shoals Beautiful • TNT• Home Depot
PUBLIX • Courier Journal • Faith Church • Christ Chapel

City of Florence Green Team Partnership
Valley Sustainable Community

June 9, 2016

Agenda

- Merging the Green Team and Tennessee Valley Sustainable Community Program
- Updating the program name from GREEN TEAM
- Plans to recognize our newest members
- Look at our mission and establish goals

Green Team Partners practicing resource efficiency are assuming stewardship for the City of Florence, the Earth, and its resources, with the goals of achieving a successful business operation, and sustenance of the environment and its inhabitants. A Green Team Partner not only conserves resources but educates about resource conservation.

- Look at what we need to do become a Platinum Community

See attached recommendations from TVA

Phone: (256) 764-4661
Fax: (256) 766-9017

FOR IMMEDIATE RELEASE

Shoals Residents can Catch Prize Money at the Tennessee River Litter Tournament in September

Keep the Shoals Beautiful, in partnership with TVA, is challenging Shoals residents to "fish for litter to catch $500 in cash" at its Tennessee River Litter Tournament scheduled for Saturday, September 24, 2016, from 8:00 a.m. to 4:00 p.m.

Waste Connections Inc. will set up roll off bins at four locations spanning Colbert and Lauderdale Counties, and reaching both Wilson and Pickwick Lakes. These collection sites include McFarland Park, Killen Lock Six, TVA Fleet Harbor and Riverfront Park in Sheffield.

Litter grabbers, gloves and trash bags will be provided at each location for participants. Each 13-gallon trash bag brought in from the shoreline or Tennessee River waterways qualifies participants to one entry in the drawing for $500 in cash. Participants can start now by collecting litter if they can't participate on collection day.

"We normally think of litter as what we see on our roadways and other public access areas. What we often don't see is the large amounts of litter in our local lakes, creeks, and shorelines," said Keep the Shoals Beautiful board member Bud Pride. "We want all Shoals residents to be aware of this issue and take part in helping out. It's everyone's responsibility."

"We hope this tournament will empower the public to take charge of a big issue facing our local water system in the form of fun and friendly competition," added Chelsea Kauchick, Director of Keep the Shoals Beautiful.

Participants are encouraged to pre-register for this event by emailing KTSB@keeptheshoalsbeautiful.com or by calling 256-764-4661. All participants will receive a free t-shirt on the day of the tournament.

###

Tennessee River Litter Tournament

Fish for Litter on Lake Pickwick & Lake Wilson to Catch $500 in Cash!

Saturday, September 24, 2016
8:00 am - 4:00 pm

Shoals area collection sites include:

- McFarland Park, Florence
- Lock Six, Killen
- TVA Fleet Harbor, Muscle Shoals
- Riverfront Park, Sheffield

Register as a group or individual!

KTSB@keeptheshoalsbeautiful.com
256-764-4661

Every participant gets a free t-shirt!

Each 13-gallon trash bag you fill with litter from the Tennessee River or the shoreline enters you for a chance to win $500. Start now and bring your full bags to our collection site or join us for the tournament!

Gloves, litter grabbers, and trash bags will be provided the day of the tournament. Bring your own or use ours! The drawing will take place at 5:00 p.m.

ktsb
KEEP THE SHOALS BEAUTIFUL
KEEP AMERICA BEAUTIFUL AFFILIATE

TVA

Alabama Society of Hazardous Materials Managers · ASHMM

Waste Connections Inc.
Connect with the Future

Roll up Your Sleeves. There's Work to be Done!

The Shoals area, while made up of several municipalities and townships, has one thing that connects us all — The Tennessee River is a crucial element to our way of life. We generate power with it. We drink from it. Swim in it. Fish from it. For Shoals residents, the Tennessee River feels like home.

Our beautiful waters have long been a source of enjoyment; but, we need your help to maintain this same quality of life for future generations. Many citizens are unaware of locations, like the one pictured here, where litter stretches from bank to bank. While we have several pristine locations to swim and fish, we must also be aware of the work to be done to keep all of the Tennessee River Beautiful for years to come.

Tennessee River Litter Tournament — Rules and Regulations

- Trash bags must be 13-gallon standard tall kitchen bags to qualify.
- Trash can be obtained from the shoreline or the Tennessee River waterways.
- Each full trash bag entitles participants to one entry for the drawing.
- Participants can enter for the drawing as an individual or as a group.
- The drawing will take place at 5:00 p.m. on September 24. You do not need to be present to win.
- The winner of the contest must be willing to sign a photo release form, and will be publicized in various types of news outlets, including: digital media, social media, and print media.

Thank You to Our 2016-2017 Program Sponsors:

Platinum Leaf

City of Florence
Courier Journal
Lauderdale County Commission
Lowe's Foundation
Shoals Solid Waste Authority Recycling
City of Muscle Shoals
City of Sheffield
City of Tuscumbia
Colbert County Commission
SCA Tissue
Tennessee Valley Authority

Gold Leaf

Integrated Corporate Solutions, Inc.

Silver Leaf

Agrium
Florence-Lauderdale Tourism

ktsb
Keep The Shoals Beautiful
KEEP AMERICA BEAUTIFUL AFFILIATE

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 $500 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.

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

ORDINANCE
FOR
STORMWATER OPERATION AND MAINTENANCE

ORDINANCE #2004-16

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FLORENCE, ALABAMA as follows:

Section I. **Best Management Practice (BMP)**

Definitions. Structural device, measure, facility, or activity that helps to achieve stormwater management control objectives at a designated site.

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.

Section II. **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 of Florence.

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 City of Florence 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.

Section III. **Routine Maintenance**

A. All stormwater BMPs shall be maintained according to the measures outlined in the most recent version of The City of Florence Stormwater Pollution Prevention Plan, as required by the subdivision regulations and as approved in the permit.

B. The person(s) or organization(s) 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.

Section IV. Nonroutine Maintenance

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

A. Nonroutine maintenance shall be performed on an as-needed basis based on information gathered during regular inspections.

B. If nonroutine maintenance activities are not completed in a timely manner or as specified in the approved plan, The City of Florence may fine the Owner an appropriate amount to cover the cost of the city providing maintenance.

Section V. Inspections

A The person(s) or organization(s) responsible for maintenance shall inspect stormwater BMPs on a regular basis as outlined in the plan.

B Authorized representatives of The City of Florence 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 of Florence, as provided for in the plan.

D Authorized representatives of The City of Florence, may conduct inspections to confirm the information in the reports filed under Section C.

ADOPTED this the 16th day of March, 2004.

ORDINANCE
FOR
EROSION AND SEDIMENT CONTROL

ORDINANCE #2004-18

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FLORENCE, ALABAMA as follows:

Section I. **Introduction/ Purpose**

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.

As a result, the purpose of this local regulation is to safeguard persons, protect property, and prevent damage to the environment in The City of Florence. This ordinance 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 of Florence.

Section II. **Definitions**

Certified Contractor

A person who has received training and is licensed by ADEM to inspect and maintain erosion and sediment control practices.

Clearing

Any activity that removes the vegetative surface cover.

Drainage Way

Any channel that conveys surface runoff throughout the site.

Erosion Control

A measure that prevents erosion.

Erosion and Sediment Control Plan

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.

Grading

Excavation or fill of material, including the resulting conditions thereof.

Perimeter Control

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

Phasing

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

Sediment Control

Measures that prevent eroded sediment from leaving the site.

Site

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

Site Development Permit

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

The use of practices that prevent exposed soil from eroding.

Start of Construction

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

Any body of water, including, but not limited to lakes, ponds, rivers, streams, and bodies of water delineated by The City of Florence.

Waterway

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

Section III. Permits

A) No person shall be granted a site development permit for land-disturbing activity that would require the uncovering of *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(s) and address(es) 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 construction or grading activity takes place.

E) The applicant will be required to file with City of Florence 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 of Florence and engineering and inspection costs to cover the cost of failure or repair of improvements installed on the site.

Section IV. 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 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.

Section V. <u>Erosion and Sediment Control Plan</u>

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 IV of this regulation, 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

Section VI. **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 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 days* of clearing or inactivity in construction.
2) If seeding or another vegetative erosion control method is used, it shall become established within *two weeks* or ADEM may require the site to be reseeded or a non-vegetative 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 controls 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

long term 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

Section VII. Inspection

A) ADEM or 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 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/her agent shall make regular inspections of all control measures in accordance with the inspection schedule outlined on the approved Erosion and Sediment Control Plan(s). 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.

Section VIII. **Enforcement**

A) Stop-Work Order; Revocation of Permit

In the event that any person holding a site development permit pursuant to this ordinance 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 ordinance. Any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and each day during which any violation of any of the provisions of this ordinance 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 $1,000.00 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 ordinance shall be required to bear the expense of such restoration.

Section IX. **Separability**

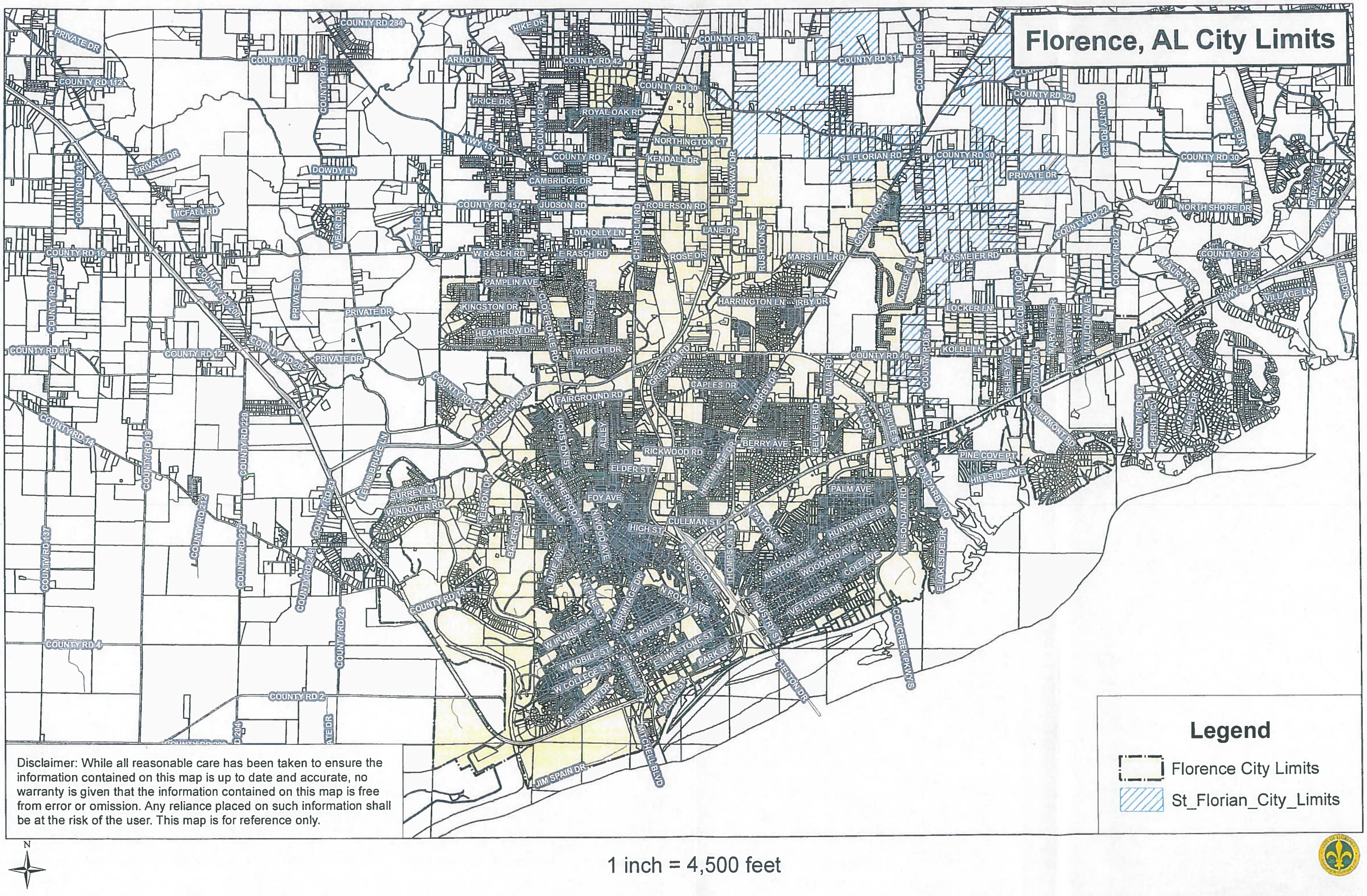
The provisions and sections of this ordinance shall be deemed to be separable, and the invalidity of any portion of this ordinance shall not affect the validity of the remainder.

ADOPTED this the 16th day of March, 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
- List of Construction Sites Inspected by City
- Inspection Report Form

Florence, AL City Limits



Disclaimer: While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, no warranty is given that the information contained on this map is free from error or omission. Any reliance placed on such information shall be at the risk of the user. This map is for reference only.

Legend

- Florence City Limits
- St_Florian_City_Limits

N

1 inch = 4,500 feet

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:	1602882
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 5:50		

Sample No.	Client No.	Parameter	Result	Qual	Units	Report Limit	Date/Time	Method	Analys
001	23-2-11-2	Oil and Grease	<5.00		mg/L	5	12/23/16 9:45	1664A (1)	DRK
002	23-2-11-2	Solids, Total Suspended	27.0		mg/L	1	12/14/16 16:01	2540D (2)	KMS

pH (field) = 6.9 su

Report Approved By: Allison Dixon

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, INC.

3103 Northington Court *Ph: (256)740-5532*
Florence, AL 35630 *Fax: (256)740-5529*

CHAIN-OF-CUSTODY RECORD

REFERRING CLIENT:

SET

PROJECT NAME: City of Florence Stormwater

PROJECT #:

SAMPLE SITE: Florence, AL

REQUESTOR:

SAMPLED BY: E Curtis

P O #:

TURNAROUND: ☒ NORMAL ☐ RUSH

SPECIAL INSTRUCTIONS:

LAB USE ONLY SAMPLE #	SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE TYPE	GRAB	COMP	CONTAINER TYPE	# OF CONTAINERS	SAMPLE PRESERVATION	ANALYSIS REQUESTED: O&G	TSS	pH				
1602882-01	23-2-11-2	12/12/2016	5:50	SW	X		G	1	H2SO4	X						
-02	23-2-11-2	12/12/2016	5:50	SW	X		P	1	NONE		X	6.9				
1602883-01	23-2-11-1	12/12/2016	5:55	SW	X		G	1	H2SO4	X						
-02	23-2-11-1	12/12/2016	5:55	SW	X		P	1	NONE		X	7.4				
1602884-01	36-2-11-1	12/12/2016	6:05	SW	X		G	1	H2SO4	X						
-02	36-2-11-1	12/12/2016	6:05	SW	X		P	1	NONE		X	7.6				
1602885-01	31-2-10-1	12/12/2016	6:10	SW	X		G	1	H2SO4	X						
-02	31-2-10-1	12/12/2016	6:10	SW	X		P	1	NONE		X	7.8				
1602886-01	6-3-10-1	12/12/2016	6:15	SW	X		G	1	H2SO4	X						
-02	6-3-10-1	12/12/2016	6:15	SW	X		P	1	NONE		X	7.7				

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RECEIVED FOR LAB BY:	DATE	TIME
E Curtis	12/12/16	11:15				Mark C Blue	12/12/16	1110
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	COMMENTS:		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME			

SOUTHERN ENVIRONMENTAL TESTING

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Fax (256) 740-5529

LOG-IN CHECKLIST

Rev 150223

Cooler Received/Opened: 12/12/16 1110 Lab No: 1602332-07

Courier: ☐ SET ☐ FedEx ☐ UPS ☐ USPS ☐ Customer ☒ Other SEE ☐ Drop box

Thermometer Used: ☒ Fisher IR 61857065 ☐ Other _____

1. Were custody seals on outside of cooler? YES (NO) NA
2. Were the seals intact, signed, and dated correctly? YES NO (NA)
3. Temperature of rep. sample or temp. blank when opened: 11.5 °C (should be above freezing to 6°C) taken this morning
4. If Item #3 temp is 0°C or less, was there evidence of freezing? YES NO (NA)
5. Was there a Chain-Of-Custody form? (YES) NO NA

I certify that I opened the cooler and answered questions 1-5 (initial) AO

6. Were custody seals on containers? YES (NO) (NA)
7. Were these seals intact and signed and dated correctly? YES NO (NA)
8. Packing material used: (Bubble wrap) Peanuts Vermiculite Foam Paper Other None
9. Cooling process: (Ice) Ice-pack Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? (YES) NO NA
11. Were all container labels complete (#, date, analysis, pres, etc.)? (YES) NO NA
12. Did all container labels agree with C-O-C? (YES) NO NA
13. a. Were VOA vials received? YES (NO)
    b. Was observable headspace present? YES NO (NA)
14. Was there a Trip Blank in this cooler? YES NO (NA)

I certify that I unloaded the cooler and answered questions 6-14 (initial) AO

15. a. On preserved bottles, did pH test strips indicate correct pH level reached? (YES) NO NA
    b. If NO, was preservative added? YES NO. Record lot no. added: HNO3 _____ H2SO _____
    c. Did the bottle label indicate correct preservative was used? (YES) NO NA
16. Was residual chlorine (TRC) present? YES NO (NA)

I certify that I checked TRC and pH per SOPs and answered questions 15-16 (initial) AO

17. Was the C-O-C properly filled out (ink, signed, etc.)? (YES) NO NA
18. Did you sign the custody papers in the received by lab area? (YES) NO NA
19. Correct containers used for analysis requested? (YES) NO NA
20. Sufficient amount of sample received? (YES) NO NA
21. All samples arrive within method holding time? (YES) NO NA

I certify that I entered this project in the LIMS and answered questions 17-21 (initial) AO

I certify that I attached a label with the unique LIMS number to each container (initial) AO

22. Were there Non-Conformance issues at login? YES (NO) Note action taken:

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TEST RESULTS

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

Project:	City of Florence	Lab Number:	1602883
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 5:55		

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	12/23/16 12:15	1664A (1)	DRK
002	23-2-11-1	Solids, Total Suspended	6.00		mg/L	1	12/14/16 16:01	2540D (2)	KMS

pH (field) = 7.4 su

Report Approved By: Allison Dixon

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.

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Florence, Alabama 35630

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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:	1602884
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 6:05		

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	12/23/16 12:15	1664A (1)	DRK
002	36-2-11-1	Solids, Total Suspended	5.50		mg/L	1	12/14/16 16:01	2540D (2)	KMS

pH (field) = 7.6 su

Report Approved By: Allison Dixon

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:	1602885
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 6:10		

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	12/23/16 12:15	1664A (1)	DRK
002	31-2-10-1	Solids, Total Suspended	2.00		mg/L	1	12/14/16 16:01	2540D (2)	KMS

pH (field) = 7.5 su

Report Approved By: Allison Dixon

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

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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:	1602886
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 6:15		

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	12/23/16 12:15	1664A (1)	DRK
002	6-3-10-1	Solids, Total Suspended	9.00		mg/L	1	12/15/16 14:36	2540D (2)	KMS

pH (field) = 7.7 su

Report Approved By: Allison Dixon

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.

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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:	1602887
Project Number:		Sample Type:	Stormwater
Sample Location:	Florence, AL	Date/Time Received:	12/12/16 11:10
Sampled By:	E. Curtis	Date Reported:	12/28/2016
Date/Time Collected:	12/12/16 6:20		

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	12/23/16 12:15	1664A (1)	DRK
002	25-2-11-1	Solids, Total Suspended	7.00		mg/L	1	12/15/16 14:36	2540D (2)	KMS

pH (field) = 7.2 su

Report Approved By: Allison Dixon

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, INC.

3103 Northington Court *Ph: (256)740-5532*
Florence, AL 35630 *Fax: (256)740-5529*

CHAIN-OF-CUSTODY RECORD

REFERRING CLIENT:

SET

PROJECT NAME: City of Florence Stormwater

PROJECT #:

SAMPLE SITE: Florence, AL

REQUESTOR:

SAMPLED BY: F. Curtis

P.O. #:

TURNAROUND: ☒ NORMAL ☐ RUSH

SPECIAL INSTRUCTIONS:

LAB USE ONLY SAMPLE #	SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE TYPE	GRAB	COMP	CONTAINER TYPE	# OF CONTAINERS	SAMPLE PRESERVATION	ANALYSIS REQUESTED: O&G	TSS	pH				
1602887-01	25-2-11-1	12/12/2016	6:20	SW	X		G	1	H2SO4	X						
-02	25-2-11-1	12/12/2016	6:20	SW	X		P	1	NONE		X	7.2				

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME
E C	12/12/16	11:15				Wanda McClain	12/12/16	1110
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	COMMENTS		
R NQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME			
RELINQUISHED BY	DATE	TIME	RECEIVED BY		TIME			

ORDINANCE
FOR
ILLICIT DISCHARGE AND CONNECTION TO THE STORMWATER SYSTEM

ORDINANCE #2004-17

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FLORENCE, ALABAMA as follows:

SECTION 1. PURPOSE/INTENT.

The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of Florence through the regulation of non-storm water discharges to the storm drainage system to the maximum extent practicable as required by federal and state law. This ordinance 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 ordinance 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 ordinance

SECTION 2. DEFINITIONS

For the purposes of this ordinance, the following shall mean:

Authorized Enforcement Agency: employees or designees of the director of the municipal agency designated to enforce this ordinance.

Best Management Practices (BMPs): schedules of activities, prohibitions of practices, general good house keeping 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. The federal Water Pollution Control Act (33 U.S.C. § 1251 et seq.), and any subsequent amendments thereto.

Construction Activity. Activities subject to NPDES Construction Permits. Currently these include

construction projects resulting in land disturbance of 1 acre or more. Beginning in March 2003, NPDES Storm Water Phase II permits will be required for construction projects resulting in land disturbance of 1 acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

Hazardous Materials. 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. Any direct or indirect non-storm water discharge to the storm drain system, which is not covered under a proper permit.

Illicit Connections. An illicit connection is defined as 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 non-storm water 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. Activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26 (b)(14).

National Pollutant Discharge Elimination System (NPDES) Storm Water 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.

Non-Storm Water Discharge. Any discharge to the storm drain system that is not composed entirely of storm water.

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. Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous 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. Any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

Storm Drainage System. Publicly-owned facilities by which storm water 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.

Storm Water. 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. A 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 storm water, discharged from a facility.

SECTION 3. APPLICABILITY.

This ordinance 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.

SECTION 4. RESPONSIBILITY FOR ADMINISTRATION.

The City of Florence shall administer, implement, and enforce the provisions of this ordinance. 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.

SECTION 5. SEVERABILITY.

The provisions of this ordinance are hereby declared to be severable. If any provision, clause, sentence, or paragraph of this Ordinance 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 Ordinance.

SECTION 6. ULTIMATE RESPONSIBILITY.

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

SECTION 7. DISCHARGE PROHIBITIONS.

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 storm water.

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 ordinance: water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising ground water, ground water infiltration to storm drains, uncontaminated pumped ground water, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, non-commercial washing of vehicles, natural riparian habitat or wet-land flows, swimming pools (if dechlorinated - typically less than one PPM chlorine), fire fighting 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 non-storm water 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.

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 ordinance if the person connects a line conveying sewage to the MS4, or allows such a connection to continue.

SECTION 8. SUSPENSION OF MS4 ACCESS.

Suspension due to Illicit Discharges in Emergency Situations

The City of Florence 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.

Suspension due to the Detection of Illicit Discharge

Any person discharging to the MS4 in violation of this ordinance 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.

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.

SECTION 9. INDUSTRIAL OR CONSTRUCTION ACTIVITY DISCHARGES.

Any person subject to an industrial or construction activity NPDES storm water 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 of Florence prior to the allowing of discharges to the MS4.

SECTION 10. MONITORING OF DISCHARGES.

1. Applicability.

   This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.

2. Access to Facilities.

(1) The City of Florence shall be permitted to enter and inspect facilities subject to regulation under this ordinance as often as may be necessary to determine compliance with this ordinance. 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 The City of Florence 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 storm water, and the performance of any additional duties as defined by state and federal law.

(3) The City of Florence 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 storm water discharge.

(4) The City of Florence 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 of Florence and shall not be replaced. The costs of clearing such access shall be borne by the operator.

(6) Unreasonable delays in allowing the City of Florence access to a permitted facility is a violation of a storm water discharge permit and of this ordinance. A person who is the operator of a facility with a NPDES permit to discharge storm water 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 ordinance.

(7) If the City of Florence has been refused access to any part of the premises from which stormwater is discharged, and he/she is able to demonstrate probable cause to believe that there may be a violation of this ordinance, 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 ordinance 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.

SECTION 11. REQUIREMENT TO PREVENT, CONTROL, AND REDUCE STORM WATER POLLUTANTS BY THE USE OF BEST MANAGEMENT PRACTICES.

City of Florence will adopt requirements identifying Best Management Practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of storm water, 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 non-structural BMPs. Further, any person responsible for a property or premise, which is, or may be, the source of an illicit discharge, may be required to implement, at said person's expense, additional structural and non-structural 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 storm water associated with 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.

SECTION 12. 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 storm water, 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 services. In the event of a release of non-hazardous 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 of Florence within three 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 years.

SECTION 13. ENFORCEMENT.

1. Notice of Violation.

Whenever the City of Florence finds that a person has violated a prohibition or failed to meet a requirement of this Ordinance, the authorized enforcement agency may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

(a) The performance of monitoring, analyses, and reporting;
(b) The elimination of illicit connections or discharges;
(c) That violating discharges, practices, or operations shall cease and desist;
(d) The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property; and
(e) Payment of a fine to cover administrative and remediation costs; and
(f) The implementation of source control or treatment BMPs.

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.

SECTION 14. 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 10 days from the date of the Notice of Violation. Hearing on the appeal before the appropriate authority or his/her designee shall take place within 15 days from the date of receipt of the notice of appeal. The decision of the municipal authority or their designee shall be final.

SECTION 15. 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 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.

SECTION 16. COST OF ABATEMENT OF THE VIOLATION.

Within 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 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.
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 12 equal payments. Interest at the rate of 5 percent per annum shall be assessed on the balance beginning on the 30th day following discovery of the violation.

SECTION 17. INJUNCTIVE RELIEF.

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Ordinance. If a person has violated or continues to violate the provisions of this ordinance, 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.

SECTION 18. COMPENSATORY ACTION.

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

SECTION 19. 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 Ordinance 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.

SECTION 20. CRIMINAL PROSECUTION.

Any person that has violated or continues to violate this ordinance shall be liable to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of $1,000.00 dollars per violation per day and/or imprisonment for a period of time not to exceed 30 days.
The authorized enforcement agency may recover all attorney's fees court costs and other expenses associated with enforcement of this ordinance, including sampling and monitoring expenses.

SECTION 21. REMEDIES NOT EXCLUSIVE.

The remedies listed in this ordinance 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.

SECTION 22. ADOPTION OF ORDINANCE.
This ordinance shall be in full force and effect (30) days after its final passage and adoption. All prior ordinances and parts of ordinances in conflict with this ordinance are hereby repealed.

ADOPTED this the 16th day of March, 2004.

2016-2017 NPDES Monthly Stormwater Inspection Sites

1. Academy Sports
2. Bent Brook
3. Blackberry Village
4. Chert Pit
5. Clark Gas
6. Creek view Village Apartments
7. Cypress Creek Manor
8. Donald Thomas
9. Drainage ditch off Hough
10. Florence Middle School
11. Helton drive site
12. Hunters Ridge
13. Industrial Park Substation
14. JDG Investments (Sky Zone)
15. Meadows
16. North Alabama Medical
17. Old Hickory
18. Old Rex TV Site
19. O'Reilly's
20. Riverhill School Site
21. Self Storage Faculty
22. Simpson Garage
23. Stoney Brook
24. Storage Units
25. Super Sonic Car Wash
26. Underwood Baptist Church
27. Veterans Drive Site
28. Wade Gilchirst Industrial Park Site
29. Zaxby's

INSPECTION REPORT

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	
[ ]	[ ]	[ ]	Have all denuded areas requiring temporary or permanent stabilization been stabilized? Seeded? yes/no Mulched? yes/no Graveled? yes/no
[ ]	[ ]	[ ]	Are soil stock piles adequately stabilized with seeding and/or sediment trapping measures?
[ ]	[ ]	[ ]	Does permanent vegetation provide adequate stabilization?
[ ]	[ ]	[ ]	Have sediment trapping facilities been constructed as a first step in LDA?
[ ]	[ ]	[ ]	For perimeter sediment trapping measures, are earthen structures stabilized?
[ ]	[ ]	[ ]	Are sediment basins installed where needed?
[ ]	[ ]	[ ]	Are finished cut and fill slopes adequately stabilized?
[ ]	[ ]	[ ]	Are on-site channels and outlets adequately stabilized?
[ ]	[ ]	[ ]	Do all operational storm sewer inlets have adequate inlet protection?
[ ]	[ ]	[ ]	Are stormwater conveyance channels adequately stabilized with channel lining and/or outlet protection?
[ ]	[ ]	[ ]	Is in-stream construction conducted using measures to minimize channel damage?
[ ]	[ ]	[ ]	Are temporary stream crossings of non-erodible material installed where applicable?
[ ]	[ ]	[ ]	Is necessary restabilization of in-stream construction complete?
[ ]	[ ]	[ ]	Are utility trenches stabilized properly?
[ ]	[ ]	[ ]	Are soil and mud kept off public roadways at intersections with site access roads?
[ ]	[ ]	[ ]	Have all temporary control structures that are no longer needed been removed?
[ ]	[ ]	[ ]	Have all control structure repairs and sediment removal been performed?
[ ]	[ ]	[ ]	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
- Workshop Brochure—QCP Stormwater Management Training
- Seminar Brochure—Erosion

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 inclimate 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

A Local Technical Assistance Program - LTAP

ALABAMA TECHNOLOGY TRANSFER CENTER

AT AUBURN UNIVERSITY

in association with

VOLKERT

Presents a Seminar on:

Alabama Qualified Credentialed Professional (QCP) Workshop

Madison, AL	Irondale, AL	Tuscaloosa, AL	Montgomery, AL	Spanish Fort, AL
Oct 31, 2016	Nov. 1, 2016	Nov. 2, 2016	Nov. 3, 2016	Nov. 8, 2016

Todd Sullivan

The Alabama NPDES General Permit for Construction Discharge places significant responsibility, authority, and liability directly on the Qualified Credentialed Professional (QCP). For years, QCPs have been critical to the effectiveness and compliance of stormwater management efforts before, during, and at the completion of construction activities. The 2016 update to the general permit increases those professional obligations and highlights the importance of having a technically competent and experienced credentialed professional ensuring regulatory compliance.

The Alabama QCP Workshop is designed to prepare technical professionals to meet regulatory and societal expectations for the protection of water quality during construction. Course participants will gain a better understanding of the history and importance of environmental regulation and will be equipped to fully design and implement effective Construction Best Management Practices Plans (CBMPPs).

Case studies, practice calculations, technical discussion, and regulatory and research updates will fill this full-day workshop. Participants are encouraged to bring a straight edge and calculator.

The Alabama Department of Environmental Management includes the following professionals in the definition of QCP: Professional Engineers, Certified Professionals in Erosion and Sediment Control, Registered Landscape Architects, Professional Land Surveyors, Registered Geologists, Registered Foresters, Registered Environmental Managers, and Certified Professional Soil Scientists.

The Alabama QCP Workshop is geared toward aspiring and practicing QCPs and those who are affected by and review their work. All stormwater professionals will benefit from the workshop and are encouraged to attend.

Participants will receive certificates documenting the completion of 6.5 contact hours of instruction and participation.

Workshop Instructors

Barry Fagan, PE/PLS, CPESC, CESSWI, CPMSM
Future Vice President, Green Infrastructure, Volkert, Inc.

Barry Fagan joins Volkert as a Vice President, creating and leading a new Green Infrastructure service line for the company. Volkert is an engineering firm based in Mobile Alabama with over 91 years of history serving our infrastructure needs. Barry is recognized in Alabama and across the Nation for his innovative approach to stormwater and construction management. He brings to Volkert over 27 years of progressive experience in construction, environment, and program and project management. Barry retires as the Environmental Program Engineer for the Alabama Department of Transportation on October 1st of this year.

Michael A. Perez, EI, CPESC, LEED Green Associate
Graduate Research Assistant, Dept. of Civil Engineering, Auburn University

Michael Perez is currently a civil engineering Ph.D. candidate at Auburn University where he also earned his Master's degree in 2014. In 2012, he received his Bachelor of Science degree in Civil Engineering with a double major in Environmental Engineering from Florida State University. His current research involves investigating and improving current Alabama Department of Transportation erosion and sediment control standard practices using large-scale testing techniques. Michael has also developed practice ready design tools for open channel flow systems and stormwater management practices, and has conducted investigations into the application of unmanned aerial vehicle technology for construction and stormwater inspections.

Partnership

The Alabama QCP Workshop is being delivered in collaboration with several strategic partners in order to maximize the reach, effectiveness, and influence of the training. Initial workshop partners include:

VOLKERT

AUBURN UNIVERSITY
SAMUEL GINN COLLEGE OF ENGINEERING

A Local Technical Assistance Program - LTAP
ALABAMA TECHNOLOGY TRANSFER CENTER
AT AUBURN UNIVERSITY

AGC

HOME BUILDERS ASSOCIATION OF ALABAMA

This workshop is also coordinated with and complements an Innovative Erosion and Sediment Control Field Day presented by the Auburn University - Erosion and Sediment Control Testing Facility. QCPs are encouraged to register for and attend this event as well. The Field Day will be held in Opelika, AL on Nov. 18, 2016. Registration and information for both events is available online.

Workshop Schedule andTopics

8:00 - 8:30	Registration
8:30 - 10:00	Construction Stormwater Management and the Role of the QCP
10:00 - 10:20	Break (snacks provided)
10:20 - 11:50	Developing an Effective CBMPP - I
11:50 - 12:35	Lunch (box lunch provided)
12:35 - 2:05	Developing an Effective CBMPP - II
2:05 - 2:25	Break (snacks provided)
2:25 – 4:00	Project Operation and Management
4:00 - 4:30	State of the Practice and Additional QCP Development

Continuing Education Units

Participants completing this seminar will receive 0.65 Continuing Education Units (CEUs). The CEU is a nationally accepted measure of continuing education credit and is awarded at the rate of one CEU for each ten contact hours of qualifying instruction. Auburn University makes every effort to ensure that its CEU granting programs conform to the requirements of the State of Alabama Board of Licensure for Professional Engineers and Land Surveyors for the award of Professional Development Hours to support the annual renewal of professional licensure.

Accommodation of Participants with Disabilities

It is the policy of Auburn University to provide accessibility to its programs and reasonable accommodation for persons defined as having disabilities under the Americans with Disabilities Act of 1990. Please contact us at least two weeks prior to the event so that proper consideration can be given to any special needs.

Cancellation Policy

We understand that circumstances may arise that could require you to cancel your registration, and we make every effort to accommodate your needs. Due to commitments to our instructors and facilities, the registration fee is not refundable if a registrant withdraws less than five working days before the seminar. You may substitute registrants; please notify us in advance if possible. Non-paid, no show registrants will be invoiced for the full cost of the seminar. Engineering Continuing Education reserves the right to cancel or modify any program offering, but will provide registrants the option of a full refund. Auburn University will not be responsible for expenses incurred by a registrant as the result of a cancelled or rescheduled program.

Registration

Your pre-paid registration guarantees you a spot in the seminar as well as information on any changes to the seminar. Registration on the day of the seminar will be accepted on a space available basis, but enrollment will close when the capacity of the seminar is reached. **Participants are reminded that registration is not complete until payment is received.**

A Local Technical Assistance Program - LTAP

ALABAMA TECHNOLOGY TRANSFER CENTER

AT AUBURN UNIVERSITY

Presents a Seminar on

Erosion Control, Sediment Control, and Stormwater Management on Construction Sites

Mobile	Montgomery	Huntsville	Pelham
March 23, 2016	March 24, 2016	March 30, 2016	March 31, 2016

David Looney

Todd Sullivan

The Alabama Technology Transfer Center is pleased to announce a new training course in erosion control, sediment control, and stormwater management technology. The course is developed specifically for Alabama site planners and designers, and site plan reviewers to provide advanced level training that can help participants incorporate proven technology into land-disturbing development projects and meet National Pollutant Discharge Elimination System (NPDES) regulations administered by the Alabama Department of Environmental Management.

Additional knowledge of sound technology can help most professionals that work in land-disturbing activities that impact surface and ground waters and aquatic habitats. The many sciences involved and the diversity of landscapes and construction activities over Alabama create a need for comprehensive understanding of the systems and measures needed by those involved in site planning, design, inspection, and maintenance.

Seminar participants can expect to learn how to more effectively address various problems that occur in Alabama related to erosion control, sediment control, and stormwater management. The seminar consists of selected topics and will provide in-depth information that is not included in the Alabama. Establishing vegetation, designing stable channels, designing sediment basins, using and designing low impact development, and stream restoration will be highlighted. In addition, the latest information on NPDES Construction Stormwater Regulations that are required by the Alabama Department of Management will be presented. Participants are strongly encouraged to bring a laptop with Microsoft Excel installed on the day of the seminar.

This course should be of direct interest to those people in the civil engineering field, including county engineers, city engineers, public works officials, transportation engineers, DOT personnel, consultants, and all those with responsibilities for drainage areas.

Please complete and return the enclosed registration form. A fee of $150.00 per person should be mailed with your registration. Payment may be made by phone or fax paying with Visa, MasterCard or government agency purchase order. Registrants are reminded that registration is not complete until payment is made. The registration fee includes handout materials, break refreshments, lunch and a certificate of participation. Thank you for your continued support of the Alabama Technology Transfer Center. Rod Turochy, Larry Sellers, and Garry Havron look forward to your attendance at this seminar.

Seminar Topics and Schedule

8:00	Registration and Check-in
8:30	2014 Handbook Changes (overview)
8:50	Stormwater Regulations Update
9:30	Highlights of Tests at the Auburn University – Erosion and Sediment Control Testing Facility
10:15	BREAK
10:30	Stabilization with Vegetation
11:15	Engineering Design of E&SC Structures – New Thoughts and Concepts
12:00	LUNCH
1:00	Improved Basin Design Program
1:45	Low Impact Development (LID) Guidelines
2:30	BREAK
2:45	LID Case Studies
3:15	Stream Restoration Case Studies
4:00	Seminar Evaluations, Certificates, and Adjournment

Locations

Mobile — March 23, 2016
Hampton Inn & Suites Providence Park
525 Providence Park Drive
Mobile, AL 36695
251.776.5866

Montgomery — March 24, 2016
Renaissance Montgomery Hotel
201 Tallapoosa Street
Montgomery, AL 36104
877.545.0311

Huntsville — March 30, 2016
Holiday Inn - Research Park
5903 University Drive
Huntsville, AL 35816
800.845.7275

Pelham — March 31, 2016
Pelham Civic Center
500 Amphitheater Road
Birmingham, AL 35124
205.620.6448

Seminar Instructors

Eve Brantley, PhD, is the Alabama Cooperative Extension System Water Resource Specialist and is an Associate Professor with the Auburn University Department of Crop, Soil and Environmental Sciences. She has degrees in from Berry College, Clemson University, and Auburn University.

Jeff Kitchens, P.E., began his career with ADEM in 1994 and assumed his current position as Chief of the Stormwater Management Branch in the Water Division in August of 2012. Mr. Kitchens graduated from Auburn University in 1993 with a BS in Agricultural Engineering. He is a Certified Public Manager and is a registered Professional Engineer in Alabama.

Earl Norton, CPESC, CPAg, CCA, retired from the USDA Natural Resources Conservation Service in 1994. Since retirement, he has been active in construction erosion and sediment control and stormwater management and has coordinated a statewide erosion and sediment control program related to construction stormwater for the Alabama Soil and Water Conservation Committee (SWCC) since 2001.

Perry Oakes, P.E., retired from the Natural Resources Conservation Service at the end of 2013 after serving as State Conservation Engineer for over 20 years. Before joining NRCS full-time in 1982, he served three years as a Research Associate in the Agricultural Engineering Department at Auburn University. Since retirement from NRCS, he has supported the SWCC State-wide Erosion and Sediment Control Program as both a contractor and volunteer and worked as a consultant on other erosion and sediment projects.

Michael A. Perez, E.I., CPESC, LEED GA, is a graduate student at Auburn University pursuing a Ph.D. degree in civil engineering. He has an M.S. degree in civil engineering from Auburn University and a B.S. degree in civil engineering and environmental engineering from Florida State University. His research involves investigating and improving current ALDOT sediment basin and inlet protection standard practices using large-scale testing techniques and conducting construction inspections using unmanned aerial vehicles.

Continuing Education Units

Participants completing this seminar will receive 0.60 Continuing Education Units (CEUs). The CEU is a nationally accepted measure of continuing education credit and is awarded at the rate of one CEU for each ten contact hours of qualifying instruction. Auburn University makes every effort to ensure that its CEU granting programs conform to the requirements of the State of Alabama Board of Licensure for Professional Engineers and Land Surveyors for the award of Professional Development Hours to support the annual renewal of professional licensure.

Sponsorship

This seminar is one of the series of conferences and workshops being conducted as part of the Alabama Technology Transfer Center at Auburn University. This program is a part of the Local Technical Assistance Program (LTAP) supported by the Federal Highway Administration, the Alabama Department of Transportation and Auburn University.

This seminar is the 331st offered, with more than 40,000 attendees, since the program's inception in 1983. In addition to conducting training seminars, the T^2 Center also publishes a newsletter, distributes publications and maintains a lending library of videotapes on technical subjects. The Alabama Technology Transfer Center is administered at Auburn University through the Engineering Continuing Education office and the Department of Civil Engineering. For further information and suggestions for future programs, contact Rod Turochy, Department of Civil Engineering, at (334) 844-6271 or rodturochy@auburn.edu

Accommodation of Participants with Disabilities

It is the policy of Auburn University to provide accessibility to its programs and reasonable accommodation for persons defined as having disabilities under the Americans with Disabilities Act of 1990. Please contact us at least two weeks prior to the event so that proper consideration can be given to any special needs.

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We understand that circumstances may arise that could require you to cancel your registration, and we make every effort to accommodate your needs. Due to commitments to our instructors and facilities, the registration fee is not refundable if a registrant withdraws less than five working days before the seminar. You may substitute registrants; please notify us in advance if possible. Non-paid, no show registrants will be invoiced for the full cost of the seminar. Engineering Continuing Education reserves the right to cancel or modify any program offering, but will provide registrants the option of a full refund. Auburn University will not be responsible for expenses incurred by a registrant as the result of a cancelled or rescheduled program.

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Your pre-paid registration guarantees you a seat in the seminar as well as information on any changes to the seminar. Registration on the day of the seminar will be accepted on a space available basis, but enrollment will close when the capacity of the seminar is reached. **Participants are reminded that registration is not complete until payment is received.**

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
OAK & MOBILE	1-4-16	8:13	1	50 lbs	1-4-16	8:17	2
Baldwin & Chilton	1-4-16	8:33	3	150 lbs	1-4-16	8:45	4
Sherrod Ct and Roberts Ln	1-7-16	7:30	5	150 lbs	1-7-16	7:36	6
2000 Block Sherrod	1-7-16	7:41	7	300 lbs	1-7-16	7:50	8
Hawthrone and Sherrod	1-7-16	8:22	9	250 lbs	1-7-16	8:30	10
Randolph and Randolph Ct	1-7-16	11:15	11	500 lbs	1-7-16	11:30	12
131 Creekwood Drive	1-8-16	7:35	13	500 lbs	1-8-16	8:05	14
200 Block of W. Lee	1-11-16	1:09	15	600 lbs	1-11-16	1:22	16
401 Plum St	1-14-16	1:05	17	200 lbs	1-14-16	1:15	18
1902 Fairfax	1-15-16	11:00	19	150 lbs	1-15-16	11:13	20
Cypress and Mobile	1-21-16	9:41	21	250 lbs	1-21-16	9:50	22
Tom Bagley and Cypress	1-29-16	9:50	23	300 lbs	1-29-16	10:00	24
916 Pine St	1-29-16	10:10	24	50 lbs	1-29-16	10:13	25


Jan 2016 (1).JPG


Jan 2016 (1).JPG


Jan 2016 (2).JPG


Jan 2016 (3).JPG


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Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
GROVE AND RIVERVIEW CIR	2-1-16	8:15	1	75lbs	2-1-16	8:22	2
130 N. ~~FRANKLIN~~	2-1-16	11:05	3	#2- BOXES 250lbs	2-1-16	11:25	4, 5
314 SIMPSON	2-2-16	8:20	6	125lbs	2-2-16	8:33	7
1224 LIMESTONE	2-2-16	12:27	8	100lbs	2-2-16	12:33	9
201 S. O'NEAL	2-3-16	8:20	10	250lbs	2-3-16	8:30	11
530 HERMITAGE	2-4-16	8:15	12	75lbs	2-4-16	8:20	13
1926 GREENBRIER	2-8-16	10:53	14	150lbs	2-8-16	11:00	15
GILBERT CT and N WOOD	2-9-16	7:44	16	200lbs	2-9-16	7:55	17
408 S. PATTON	2-9-16	9:43	18	100lbs	2-9-16	9:55	19
TOMBIGBEE and WOOD	2-11-16	10:44	20	225lbs	2-11-16	11:00	21
100 3 TERRACE	2-22-16	7:35	22	100 lbs	2-22-16	8:03	23
MERIDIAN and HERMITAGE	2-22-16	8:10	~~24~~ FORGOT	175lbs	2-22-16	8:32	24
2121 SHERROD	2-23-16	12:45	25	50lbs	2-23-16	12:48	26

FEB 2016 3.JPG

FEB 2016 4 .JPG

FEB 2016 5.JPG

FEB 2016 6.JPG

FEB 2016 7.JPG

FEB 2016 8.JPG

FEB 2016 9.JPG

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FEB 2016 24.JPG

FEB 2016 25.JPG

FEB 2016 26.JPG

FEB 2016 1.JPG

FEB 2016 2.JPG

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
201 CREEKSIDE DR	3-17-14	8:40	1	100lbs	3-17-14	8:55	2


2016/03/17


2016/03/17

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
2332 Norwood Blvd	4-7-16	9:57	1	75 lbs	4-7-16	10:02	2
1204 Wildwood	4-7-16	1:27	3	200 lbs	4-7-16	1:43	4
Behind Baby Room Drainage Ditch	4-15-16	8:05	5	Building material	4-15-16	8:10	6
413 & 409 Cherry Hill Homes (2 Boxes)	4-19-16	7:30	7, 8	650 lbs	4-19-16	9:36	9, 10
512 & 514 Long Lane	4-28-16	7:15	11, 12, 13, 14	750 lbs	4-28-16	8:15	15, 16

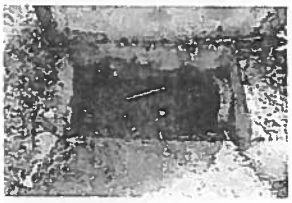
April 2016-13.JPG

April 2016-14.JPG

April 2016-15.JPG

April 2016-16.JPG

April 2016-1 .JPG



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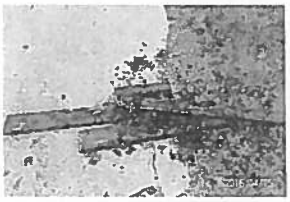
April 2016-3.JPG

April 2016-4.JPG



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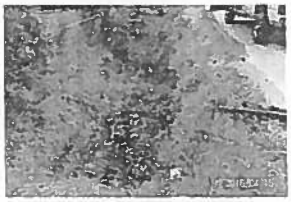

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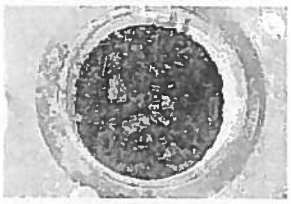

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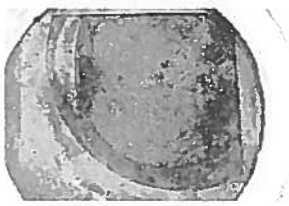
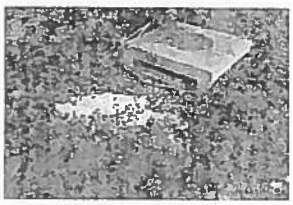
April 2016-8.JPG

April 2016-9.JPG



April 2016-10.JPG

April 2016-11.JPG



April 2016-12.JPG

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
Behind Baby Room	5-2-16	9:15	1,2,3,4	Lumber	5-2-16	9:22	5
St. Paul and ~~Scottwater~~ Ave	5-3-16	7:30	6	50 lbs	5-3-16	7:35	7
108 ~~[illegible]~~ Lee	5-9-16	10:15	8	75 lbs	5-9-16	10:23	9
Cradle Lilies and Cherry	5-26-16	10:59	10	25 lbs	5-26-16	11:05	11

May2016-10.JPG

May 2016-1.JPG

May 2016-2.JPG

May 2016-3.JPG

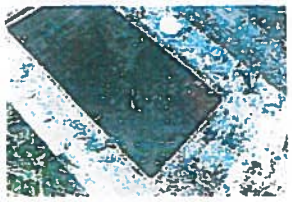
May 2016-4.JPG

May 2016-5.JPG

May 2016-6.JPG

May 2016-7.JPG

May 2016-8.JPG



May 2016-9.JPG

May 2016-11.JPG

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
MARIETTA and CENTRAL AV	6-21-16	7:20	1	50 lbs	6-21-16	7:30	2


2016:06:21


2016/06/21

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
Tenn. & Cherry	7-26-16	7:15	1, 2	200lb	7-26-16	8:15	3, 4


2016/07/26


2016/07/26


2016/07/26


2016/07/26

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
215 N. Main	8-29-16	7:45	1	300 lbs	8-29-16	8:05	2


2016/08/29


2016/08/29

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
405 Tenn.	9-12-16	10:45	1	100lbs	9-12-16	11:00	2


2016/09/12

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
ST. PAUL & SWEETWATER	11-2-16	9:15	1	75 lbs	11-2-16	9:25	2
Grady Tiles & Cheers	11-9-16	9:30	3	50 LBS	11-9-16	9:47	4
SWEETWATER REF POND	11-30-16	7:10	5	500 lbs	11-30-16	8:15	6


2016/11/02


NO DUMPING
2016/11/02


2016/11/09


2016/11/09


2016/11/30


2016/11/30

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
RAPCLIFF and FAIRGROUND Rd	12-2-16	10:30	1	50lbs	12-2-16	10:45	2
SWEETWATER RET. POND	12-5-16	7:30	3	500lbs	12-5-16	9:45	4
OAK AND MOBILE #2 BOXES	12-12-16	9:51	5 & 6	150 lbs	12-12-16	10:10	7 & 8
WOOD & TOWNSEE	12-12-16	10:12	9	200 lbs	12-12-16	10:26	10
#2 BOXES ROBERT LANE and SHERRod	12-12-16	10:34	11 & 12	350 lbs	12-12-16	10:47	13 & 14
SEMINARY and IRVING	12-12-16	10:53	15	100lbs	12-12-16	11.02	16
~~WEATHERHEAD and BALTIMORE~~	12-13-16	7:15	17	200lbs	12-13-16	7:25	18
N FRANKLIN and MAHOGANY	12-13-16	7:30	19	150lbs	12-13-16	7:40	20
WILDWOOD PK RD and W CLEVELAND	12-13-16	9:50	21	100lbs	12-13-16	10:00	22
EDGEWOOD and WILDWOOD PK RD	12-13-16	10:05	23	100lbs	12-13-16	10:12	24

Dec 2016 (7).JPG

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Dec 2016 (1).JPG

Dec 2016 (2).JPG

Dec 2016 (3).JPG

Dec 2016 (4).JPG

Dec 2016 (5).JPG

Dec 2016 (6).JPG

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
WOODARD and ~~HEATHERRIDGE~~	1-4-17	10:45	1	25lbs	1-4-17	10:50	2
WOODARD and HUNTSVILLE Rd	1-4-17	10:55	3	2 BOXES & PIPES 200lbs	1-4-17	11:10	4
2100 BLOCK ARLINGTON	1-4-17	11:19	5	35lbs	1-4-17	11:25	6
HOWELL and HERMITAGE	1-4-17	12:19	7, 8	250lbs	1-4-17	12:35	9, 10
417 N COURT	1-4-17	12:40	11	250lbs	1-4-17	1:09	12
STEWART and W. LELIA	1-4-17	1:15	13	350lbs	1-4-17	1:25	14
2 BOXES MERIDIAN & HERMITAGE	1-5-17	9:45	15, 16	250lbs	1-5-17	10:05	17, 18
MATHEW and WILLINGHAM	1-5-17	10:05	19	200lbs	1-5-17	10:20	20
OLIVE & LELIA	1-5-17	10:23	21	150lbs	1-5-17	10:30	22
1021 STEWART	1-5-17	10:33	23	400lbs	1-5-17	10:50	24
SHERRED & ROBERTS LANE	1-5-17	12:53	25	100lbs	1-5-17	12:58	26
POPULAR and BARNES	1-13-17	10:55	27	75lbs	1-13-17	11:05	28
MECH PIC → SHERRED & CALHOUN	1-18-17	7:35	29	150lbs	1-18-17	8:53	30
HUNTSVILLE Rd	1-18-17	9:38	31	250lbs	1-18-17	9:45	32
HUNTSVILLE Rd	1-18-17	9:46	33	600lbs	1-18-17	10:40	34
3 BOXES HUNTSVILLE Rd and PICKENS	1-18-17	10:40	35	1800lbs	1-24-17	10:30	36, 37, 38

1-18-17 JET RODDER DOWN COULD NOT START HUNTSVILLE Rd & PICKENS BOX TOOK TO SHOP TO BE WORK ON

1-24-17 STARTED BACK ON BOXES AT PICKENS & HUNTSVILLE Rd # 3 BOXES AND WASH OUT PIPES 7:30 AM – 10:30 AM

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
ROYAL & DAYTON	1-24-17	10:35	39	150lbs	1-24-17	10:55	40
201 CREEKSIDE DR	1-31-17	11:15	41	50lbs	1-31-17	11:30	42

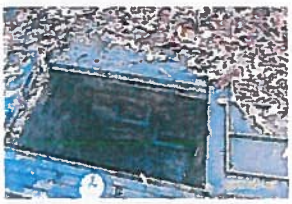

Jan 2017 (29).JPG


Jan 2017 (30).JPG


Jan 2017 (31).JPG


Jan 2017 (32).JPG


Jan 2017 (33).JPG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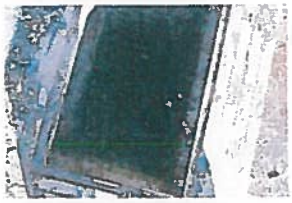
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Jan 2017 (1).JPG


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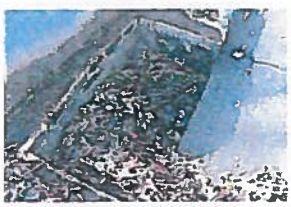
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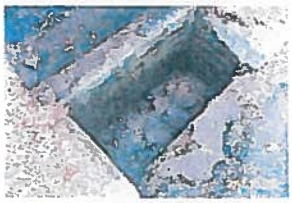

Jan 2017 (28).JPG

Storm Drain Clean-Out

Location	Start Date	Start Time	Start Picture #	Debris Weight	End Date	End Time	End Picture #
2121 Sherrod	2-2-17	10:55	1	50lbs	2-2-17	11:00	2
Cypress and Mobile	2-15-17	12:45	3	150lbs	2-15-17	12:52	4
205 Pueblo	2-21-17	9:30	5	800lbs	2-21-17	9:50	6


2017/02/02


2017/02/02


2017/02/15


2017/02/15


NO DUMPING
2017/02/21


2017/02/21