

OFFICE OF THE CITY ENGINEER

CITY ENGINEER
DAVID R. GRIFFIN, III, PE

LAND SURVEYOR
JOE DUNCAN, PLS

2201 UNIVERSITY BLVD (35401)
POST OFFICE BOX 2089 (35403)
PHONE NO. (205) 248-5380
FAX NO. (205)248-5798
www.tuscaloosa.com

CITY OF TUSCALOOSA



WALTER MADDOX
Mayor

STORM DRAINAGE ENGINEER
CHAD P. CHRISTIAN, PE, CFM

TRANSPORTATION ENGINEER
SELVIN B. GREENE, PE

WASTEWATER ENGINEER
DANIEL PRICE, PE

WATER DISTRIBUTION ENGINEER
KIMBERLY A. MICHAEL, PE

03/26/2014

Alabama Department of Environmental Management
Attention: Ms. Marla Smith
1400 Coliseum Blvd.
Montgomery, AL 36130

RE: City of Tuscaloosa Phase II Stormwater Permit
2013 – 2014 Annual Report

Dear Ms. Smith:

Enclosed please find the Eleventh Annual Report for the City of Tuscaloosa Stormwater Phase II Program. You will find that we have continued to make positive strides, particularly in our GPS Outfall Mapping and Dry Weather Screening Programs. We have created several Illicit Discharge (IDDE) success stories and have become very familiar with our local waters as we continue to walk and re-map each stream. Additionally, we have our 2014 Advertising Campaign developed for Council approval that includes 6 months of multimedia advertising worth \$23,854.

One of the most important tools for reducing polluted runoff continues to be our emphasis on green site design. Since April of 2011, we have permitted over 140 sites that incorporate various Low-Impact Development (LID) design elements. We are documenting these sites for inclusion on our website, and we will inspect each of these sites on an annual basis.

Please feel free to contact me with any further questions or should you need any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad P. Christian", is written over a horizontal line.

Chad P. Christian, P.E.
Storm Drainage Engineer

CITY COUNCIL

Burrell Odum <i>District 1</i>	Harrison Taylor <i>President Pro-Tem</i> <i>District 2</i>	Cynthia Lee Almond <i>District 3</i>	Matthew Calderone <i>District 4</i>	Kip Tyner <i>District 5</i>	Eddie Pugh <i>District 6</i>	Sonya McKinstry <i>District 7</i>
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03/26/2014

Alabama Department of Environmental Management
Attention: Ms. Marla Smith
1400 Coliseum Blvd.
Montgomery, AL 36130

RE: City of Tuscaloosa Phase II Stormwater Permit
2014 SWMP Changes

Dear Ms. Smith:

We have made the following adjustments to our SWMP for 2014:

We have removed the phone survey and have replaced this element with a web-based survey, to be solicited through water bill leaflets. We have also removed the Storm Drain Stenciling Program, as we are working successfully (and more safely) with our youth through both the Watershed Festival and our targeted Ad campaign.

We have added the Watershed Festival to the Public Education and Outreach section, as it is distinct from the Lake Clean-up. Thank you for noting these changes and please feel free to contact me with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad P. Christian", is written over the word "Sincerely,".

Chad P. Christian, P.E.
Storm Drainage Engineer

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CITY OF TUSCALOOSA
PHASE II STORMWATER PROGRAM

2013 – 2014 ANNUAL REPORT

3/31/2014



CITY OF TUSCALOOSA

OFFICE OF THE CITY ENGINEER

A. STORMWATER MANAGEMENT MISSION STATEMENT

The City of Tuscaloosa will develop and implement an efficient and effective Stormwater Management Plan (SWMP) to reduce the discharge of pollutants from the City MS4 to the maximum extent practicable. Through existing and modified local ordinances and technical standards, the City will require and promote the use of Low Impact Development/Green Infrastructure techniques for both new development and redevelopment. This guiding philosophy will effectively reduce runoff quantity and improve water quality through both a net reduction of impervious area and enhanced infiltration of stormwater discharges.

The City will inform the Public concerning the impacts of stormwater pollution and educate the Public about individual actions that can reduce contaminated discharges. The City will provide opportunities for Public input and involvement.

The City will identify and eliminate illicit discharges through a comprehensive outfall mapping and wet and dry-weather inspection program.

The City will inspect construction sites both during and after construction and enforce existing and modified ordinances to reduce or eliminate erosion and associated pollutant discharges.

The City will develop Stormwater Pollution Prevention Plans for all Municipal Operations to reduce contaminated runoff from all public streets and facilities.

The City will continuously evaluate the SWMP and modify the plan as necessary to maximize pollutant reduction and eliminate ineffective measures.

The person responsible for the implementation of the overall SWMP is as follows:

Chad P. Christian, P.E., CFM
Storm Drainage Engineer
P.O. Box 2089
Tuscaloosa, AL 35403
(205) 248-5384
cchristian@tuscaloosa.com

B. MINIMUM CONTROL MEASURES

B.1 PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The City of Tuscaloosa will engage in a continuous Stormwater Education Campaign to educate and include the public in stormwater management. We will use a combination of a website, brochures, seminars, newspaper ads, and radio and television spots to maximize our outreach efforts. We will also tailor aspects of the campaign to reach the following target audiences:

- General Public/Homeowners
 - May contribute to pollution through littering, pet waste disposal, poor vehicle washing and maintenance practices, and improper lawn fertilization.
- Local Businesses
 - May contribute to pollution through improper use and storage of chemicals and poor parking lot maintenance practices.
- Landscapers and Property Managers
 - May contribute to pollution through improper lawn fertilization and illegal dumping of grass clippings and woody debris.
- Engineers, Planners and Review Staff
 - May reduce pollution by ensuring development plans incorporate Low Impact Design techniques at the earliest possible stage and ensure adequate BMP Plans are in place for erosion and sedimentation control.
- Contractors
 - May contribute to pollution through poor construction techniques and inadequate maintenance of structural BMPs.

The Education Campaign is intended to address all pollutants of concern:

- Nutrients (Fertilizer Usage)
- Sediment (Construction Activity)
- Pathogens (Pet Waste Disposal)
- Hydrocarbons (Vehicle Maintenance and Parking Lot Runoff)
- Metals (Vehicle Maintenance)
- Debris (Grass Clipping/Limb Disposal and Littering)

PUBLIC EDUCATION AND OUTREACH BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
STORMWATER PHASE II WEBSITE	WEBSITE FOR STORMWATER INFORMATION AND COMPLAINTS	www.ttownstormwater.com WEBSITE ACTIVE SINCE OCTOBER 2012	PROVIDE LINKS TO ANNUAL REPORTS AND SWMP
STORMWATER EDUCATION BROCHURE	UPDATE, PRINT AND DISTRIBUTE STORMWATER EDUCATION BROCHURE	PRINTED 3000 COPIES RECEIVED 8/13/12 STILL HAVE PLENTY	USE FOR COMMUNITY MEETINGS, SEMINARS
STORMWATER SEMINARS	TARGETED EDUCATIONAL SEMINARS	BMP TRAINING HELD FOR CITY BUILDING INSPECTORS ON 1/23/2013 HAD A BOOTH SET UP AT THE WATERSHED INFORMATION FAIR FOR THE GENERAL PUBLIC APRIL 4 TH , 2013 AND SPOKE AND HAD A BOOTH SET UP FOR 4 TH AND 5 TH GRADERS APRIL 5 TH , 2013 FOR THE WATERSHED STUDENT EXPO OUR INFORMATION AND BROCHURES/PENS WERE HANDED OUT AND AVAILIABLE AT THE WATER RESOURCES CONFERENCE SEPTEMBER 4-6, 2013 AND THE ADEM NONPOINT CONFERENCE JANUARY 22 ND , 2014 THROUGH THE CWP SCHEDULING A LID	PROVIDE TRAINING SEMINARS FOR DESIGNERS, INSPECTORS AND CONTRACTORS

		<p>WORKSHOP THIS YEAR FOR LOCAL ENGINEERS/DEVELOPERS THROUGH THE CWP AND ALONG WITH THE CITY OF NORTHPORT</p> <p>TRIED TO GET THE CLEAN WATER ALABAMA CONFERENCE IN TUSCALOOSA THIS YEAR BUT IT DID NOT HAPPEN WILL TRY TO FIND ANOTHER ONE TO REPLACE</p>	
STORMWATER AD CAMPAIGN	RADIO, TV AND NEWSPAPER ADS	<p>CONTRACT PROPOSED WITH TOTALCOM WAITING COUNCIL APPROVAL \$23,854 ADDING SOCIAL MEDIA (FACEBOOK LINKS)</p>	HIRE PR FIRM TO DESIGN AND IMPLEMENT ADS
WEBSITE AND PHONE SURVEY	REMOVED PHONE SURVEY	WEBSITE SURVEY WILL BE ADVERTISED SUMMER 2014	SURVEY WILL LINK TO WEBSITE
STORMWATER LEAFLET	WATER BILL INSERT	<p>ADDED INTO THE TOTALCOM CONTRACT</p> <p>45,700 CUSTOMERS</p>	MASS MAILOUT TO TARGET GENERAL PUBLIC

We plan to evaluate the success of the Public Education and Outreach program by conducting an annual website and telephone survey to track the level of public awareness of stormwater management as related to water quality improvement.

B.2 PUBLIC INVOLVEMENT AND PARTICIPATION

The City of Tuscaloosa will engage and involve the general public in the implementation and refinement of the SWMP by soliciting feedback and providing opportunities for direct action. We will attempt to reach the following target audiences:

- General Public/Homeowners
 - May contribute input through the website or 311 system and may participate directly in lake clean-ups, volunteer monitoring and storm drain stenciling.
- Local Businesses
 - May participate by sponsoring lake or stream cleanups.
- Homeowner's Associations
 - May participate by adopting a local stream segment.
- Schools
 - May participate by adopting a stream segment or stenciling storm drains.
- Watershed Organizations
 - May participate through volunteer monitoring and illicit discharge reporting.

PUBLIC INVOLVEMENT AND PARTICIPATION BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
STORMWATER PHASE II WEBSITE	SOLICIT PUBLIC INPUT ON SWMP, ALLOW EASY REPORTING OF DUMPING OR ILLICIT DISCHARGES	www.ttownstormwater.com WEBSITE ACTIVE SINCE OCTOBER 2012	PROVIDE ONLINE REGISTRATION FOR LAKE AND STREAM CLEANUPS AND DRAIN STENCILING PROGRAM
STORMWATER AD CAMPAIGN	RADIO, TV AND NEWSPAPER ADS	WON ADDY AWARD IN 2013 FOR BEST AD CAMPAIGN CONTRACT WAITING COUNCIL APPROVAL	ADVERTISE LAKE AND STREAM CLEANUPS
VOLUNTEER MONITORING	WORK WITH WATERSHED GROUPS TO PROVIDE MONITORING ASSISTANCE	CURRENTLY MEETING WITH THE BLACK WARRIOR CLEAN WATER PARTNERSHIP – NORTH RIVER PROJECT COMMITTEE (LOWER SUB-BASIN) MONTHLY. WE HAVE PURCHASED WATERWATCH KITS TO LEND OUT TO VOLUNTEERS	REQUIRE ALABAMA WATERWATCH CERTIFICATION

LAKE/STREAM CLEANUPS	ANNUAL LAKE TUSCALOOSA CLEANUP	BIG SUCCESS IN 2013 SEVERAL VOLUNTEERS WORKED ALONGSIDE THE BLACK WARRIOR RIVERKEEPER	GAUGE PUBLIC INTEREST AND ADD STREAM CLEANUPS AS WARRANTED
STORM DRAIN STENCILING	REMOVED	REMOVED	REMOVED
TUSCALOOSA 311	EXISTING SYSTEM PROVIDING "ONE CALL" ACCESS TO CITY GOVERNMENT	EXISTING	HOTLINE FOR PROVIDING SWMP INPUT OR REPORTING ILLICIT DISCHARGES

The success of the Public Involvement and Participation program will be tracked through the annual survey responses as well as a year-to-year comparison of participation levels in the lake/stream cleanup and drain stenciling programs.

B.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

The City of Tuscaloosa has implemented an illicit discharge detection and elimination (IDDE) program to identify and eliminate illicit discharges to the MS4. Moving forward, the City will strengthen and expand its IDDE program.

IDDE PROGRAM BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
STORMWATER OUTFALL MAP	OUTFALLS HAVE BEEN PREVIOUSLY MAPPED. WE ARE RE-MAPPING WITH CITY FORCES (25%) INCLUDING PHOTOS & MORE INFO.	CONTINUOUS PROCESS OVER 350 NEW OUTFALLS MAPPED AND MANY MORE ADDED DAILY AS WE WALK OUR STREAMS MAP IN APPENDIX	INTEGRATE GPS OUTFALL MAPPING AND INSPECTION WITH GIS DATABASE

STORMWATER PHASE II ORDINANCE	ORDINANCE FORBIDDING NON- STORMWATER DISCHARGES TO MS4	EXISTING	REVIEW ORDINANCE ANNUALLY
DRY WEATHER SCREENING PROGRAM	ESTABLISH GPS- BASED OUTFALL INSPECTION PROGRAM	CONTINUES IN CONJUNCTION WITH OUTFALL MAPPING HAVE HAD SEVERAL SUCCESS STORIES	INTEGRATE INSPECTION DATA WITH GIS OUTFALL LAYER. SAMPLE AND TEST SUSPICIOUS DISCHARGES
BACKGROUND SAMPLING PROGRAM	SAMPLE AND TEST STREAM FLOWS WITHIN EACH WATERSHED TO DETECT POSSIBLE ILLICIT DISCHARGES	REPORT RECEIVED / REVIEWED / AND MEASURE ARE BEING TAKEN TO ADDRESS CONCERNS	HIRE OUTSIDE TESTING LAB TO PROFESSIONALLY SAMPLE AND TEST FOR POLLUTION
IDDE DETECTION STRATEGY	ADOPT PROCEDURES TO IDENTIFY POTENTIAL ILICIT DISCHARGE SOURCES	EXISTING EECC AND STORMWATER INSPECTOR WATERWATCH CERTIFIED, QCI CERTIFIED, AND OUR STORMWATER INSPECTOR IS LOOKING TO BECOME A CERTIFIED STORMWATER INSPECTOR THROUGH THE EPA	<i>Illicit Discharge Detection and Elimination: A Guidance Manual</i>

The overall success of the IDDE program will be indicated by a reduction in pollutant levels present in background samples.

B.4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

The City of Tuscaloosa implemented a construction site stormwater runoff control program during the first permit cycle to manage construction site stormwater discharges. The City will continue to evaluate and enhance the construction site program during the current permit cycle.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
STORMWATER PHASE II ORDINANCE	ORDINANCE FORBIDDING NON-STORMWATER DISCHARGES TO MS4	EXISTING	REVIEW ORDINANCE ANNUALLY
LAND DEVELOPMENT ORDINANCE	ORDINANCE AND TECHNICAL SPECS FOR PERMITTING AND GOVERNING CONSTRUCTION	EXISTING	REVIEW ORDINANCE AND SPECS ANNUALLY
STORMWATER SEMINARS	TARGETED EDUCATIONAL SEMINARS	<p>BMP TRAINING HELD FOR CITY BUILDING INSPECTORS ON 1/23/2013</p> <p>HAD A BOOTH SET UP AT THE WATERSHED INFORMATION FAIR FOR THE GENERAL PUBLIC APRIL 4TH, 2013 AND A BOOTH SET UP FOR 4TH AND 5TH GRADERS APRIL 5TH, 2013 FOR THE WATERSHED STUDENT EXPO</p> <p>OUR INFORMATION AND BROCHURES/PENS WERE HANDED OUT AND AVAILIABLE AT THE WATER RESOURCES CONFERENCE SEPTEMBER 4-6, 2013 AND THE ADEM NONPOINT CONFERENCE JANUARY 22ND, 2014 THROUGH THE CWP</p>	PROVIDE TRAINING SEMINARS FOR DESIGNERS, INSPECTORS AND CONTRACTORS

		<p>SCHEDULING A LID WORKSHOP THIS YEAR FOR LOCAL ENGINEERS/DEVELOPERS THROUGH THE CWP AND ALONG WITH THE CITY OF NORTHPORT</p> <p>TRIED TO GET THE CLEAN WATER ALABAMA CONFERENCE IN TUSCALOOSA THIS YEAR BUT DID IT DID NOT HAPPEN WILL TRY TO FIND ANOTHER ONE TO REPLACE</p>	
SITE INSPECTION PROCEDURE	ESTABLISH STANDARD PROCEDURE AND FORMS FOR CONSTRUCTION SITE INSPECTION AND PRIORITY AND SCHEDULING	HAVE FOUND THE BMP INSPECTION FORM TO BE INEFFECTIVE. ALL PERTINENT INFORMATION IS BEING RELAYED TO THE OWNER/DEVELOPER/ENGINEER THROUGH EMAIL WITH PICTURES ATTACHED (EXAMPLES INCLUDED) THE ESCALATING ENFORCEMENT PROCEDURE IS FINALIZED AND INCLUDED IN APPENDIX	MODIFY AND ADOPT EXISTING ADEM AND EPA PROCEDURES AND FORMS. REQUIRE MONTHLY INSPECTION OF PRIORITY SITES.
DESIGN HANDBOOK	ADOPT STANDARD REQUIREMENTS FOR BMP DESIGN	ALL SUBMITTED COMMERCIAL DEVELOPMENTS ARE REQUIRED TO COMPLY WITH THIS MANUAL AND REFERENCE IT ON THE PLANS	<i>Alabama Handbook for Erosion Control...</i>
ENFORCEMENT STRATEGY AND TRACKING SYSTEM	ADOPT ENFORCEMENT STRATEGY WITH ESCALATING REMEDIES AND ESTABLISH RECORDKEEPING SYSTEM	INCLUDED IS A LIST OF VIOLATIONS AND CORRECTIVE ACTIONS TAKEN THE EECC AND STORMWATER INSPECTOR INSPECTS JOB SITES ON A DAILY BASIS.	FORMS AND PROCEDURES FOR SITE INSPECTIONS AND ENFORCEMENT. RECORDKEEPING SYSTEM TO DOCUMENT

			VIOLATIONS AND RESPONSE
RAINFALL DATA NETWORK	ESTABLISH NETWORK OF PERMANENT WEATHER STATIONS TO COLLECT AND DISSEMINATE RAINFALL DATA	EXISTING	SHARED RAINFALL DATA THROUGH WUNDERGROUND WEBSITE HELPS DETERMINE WHEN INSPECTIONS ARE REQUIRED

The success of our construction site stormwater runoff will be proven through a reduction in erosion control complaints and a lower need for enforcement action.

B.5 POST-CONSTRUCTION STORMWATER MANAGEMENT

The City of Tuscaloosa has an established program to manage post-construction stormwater runoff from new development and redevelopment sites. The City will continue to evaluate and improve this program during the current permit cycle.

POST-CONSTRUCTION STORMWATER MANAGEMENT BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
LANDSCAPE ORDINANCE	REQUIRES LID AND PROMOTES INFILTRATION	EXISTING	REVIEW ANNUALLY
LAND DEVELOPMENT ORDINANCE	ESTABLISHED INSPECTION AND APPROVAL FRAMEWORK FOR POST-CONSTRUCTION BMPS	EXISTING	REVIEW ORDINANCE ANNUALLY

BUILDING CODE	ESTABLISHED REQUIREMENTS FOR WASTE CONTROL AT CONSTRUCTION SITES	EXISTING	ADOPTED THE 2006 INTERNATIONAL RESIDENTIAL CODE
LOW-IMPACT DEVELOPMENT DATABASE	CREATE AND MAINTAIN A DATABASE OF NEWLY DEVELOPED AND REDEVELOPED LOCAL SITES THAT INCORPORATE LID TECHNIQUES	CREATED AND THE WEBSITE WILL HAVE PICTURES OF THESE SITES ADDED TO THEM SOON	PROVIDE EXAMPLES OF WATER QUALITY IMPROVEMENTS ON A LOCAL LEVEL BY DOCUMENTING EXISTING LID SITES AND LINKING TO WEB PAGE

The success of our post-construction stormwater management program will be shown through a documented reduction in impervious cover and the continued promotion of stormwater capture, infiltration, and reuse.

B.6 POLLUTION PREVENTION/GOOD HOUSEKEEPING

The City of Tuscaloosa will build upon existing efforts to develop and implement a comprehensive program to reduce stormwater pollution from all municipal operations.

POLLUTION PREVENTION/GOOD HOUSEKEEPING BMPs

BMP	DESCRIPTION	ANNUAL REPORT	NOTES
INVENTORY OF MUNICIPAL OPERATIONS	IDENTIFY AND INVENTORY ALL MUNICIPAL OPERATIONS THAT DISCHARGE TO THE MS4	ATTACHED	INCLUDES FUEL STORAGE TANKS, VEHICLE WASH RACKS, FLEET MAINTENANCE OPERATIONS,



CITY OF TUSCALOOSA
PHASE II STORMWATER PROGRAM

APPENDIX



CITY OF TUSCALOOSA

OFFICE OF THE CITY ENGINEER

Tuscaloosa Area Stormwater Management

[Home](#)
[About Us](#)
[Report A Problem](#)
[Public Education](#)
[Lake Clean Up](#)
[LID Sites](#)
[Annual Reports](#)
[Inspections](#)
[Brochures](#)



Water Quality Equals Quality of Life

What is Stormwater Pollution?

Think of a single rain drop falling from the sky. It lands on your roof, flows down into the gutter, across your lawn and down your driveway. Along the way, it picks up pesticides, fertilizer, oil and grease, pet waste, and many other chemicals and trash. Next, it reaches the road where it can pick up sediment, cigarette butts, and more. Then, it flows into a drain, stream, river, or network of pipes that flow to a favorite fishing hole. Now, imagine an entire storm, millions of raindrops, catching all these pollutants and flowing into our water bodies. This is "Stormwater Pollution" and it can be a real problem.

Why is Stormwater Pollution a Problem?

Stormwater pollution can result in dirty lakes and streams, fewer and less healthy fish and wildlife, limits on recreational use of Lake Tuscaloosa, and increased water and sewer treatment costs.

How Can I Prevent Stormwater Pollution?

1. Report Spills or Erosion Problems Immediately
2. Establish Grass on Bare Areas to Prevent Erosion
3. Watch Your Car On The Lawn Instead of The Driveway
 4. Recycle Used Oil and Antifreeze
5. Sweep Your Driveway Instead of Pressure Washing
6. Maintain Septic Tanks Properly

COMMON STORMWATER POLLUTANTS

POLLUTANT IMPACT

POLLUTANT	IMPACT
SEDIMENT Dirt and Sand	Flooding due to blocked ditches and storm drains Choked streams that cannot support fish or animals
DEBRIS Grass Clippings, Cigarette Butts, Trash, Plastic	Polluted lakes and rivers
HEAVY METALS Lead, Mercury	Fish that are unsafe to eat
HOUSEHOLD WASTE Antifreeze, Gas, Oil, Pesticides, Fertilizers, Paint	Increased water treatment costs Polluted groundwater Fish kills and polluted waterways

For More Information
Or
To Report A Problem Call:

CITY of TUSCALOOSA
Chad Christian - 248-5311



CITY OF TUSCALOOSA
www.ttownstormwater.com

TUSCALOOSA COUNTY
Bob Cunningham - 345-6600



CITY of NORTHPORT
Charles Swann - 339-7000



TUSCALOOSA AREA STORMWATER MANAGEMENT GUIDE



*Water Quality Equals
Quality of Life*

Always remember..... "ONLY RAIN DOWN THE DRAIN"

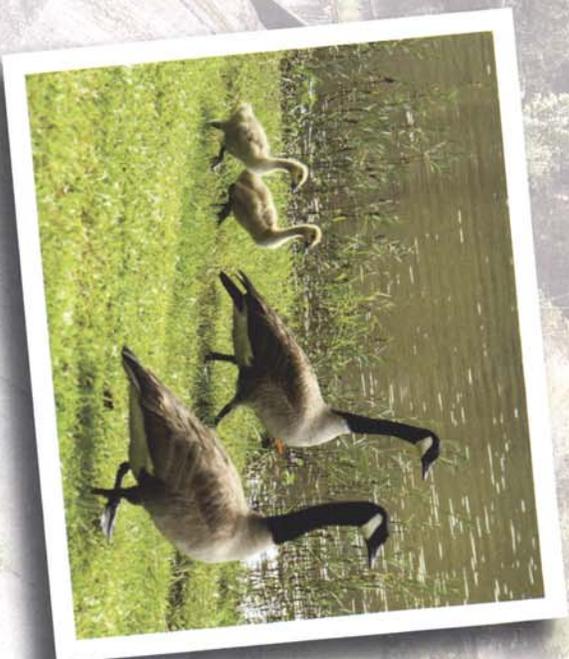
WHAT IS STORMWATER POLLUTION?

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Next, it reaches the road where it can pick up sediment, cigarette butts, and more. Then, it flows into a drain, stream, river, or network of pipes that flow into your favorite fishing hole.

Now, imagine an entire storm, millions of raindrops, catching all these pollutants and flowing into our water bodies.

This is "Stormwater Pollution" and it occurs every time it rains!



WHY IS STORMWATER POLLUTION A PROBLEM?

Stormwater pollution can result in dirty lakes and streams, fewer and less healthy fish and wildlife, limits on recreational use of Lake Tuscaloosa, and increased water and sewer treatment costs.

HOW CAN I PREVENT STORMWATER POLLUTION?

- Report Spills or Erosion Problems Immediately
- Establish Grass on Bare Areas to Prevent Erosion
- Wash Your Car On The Lawn Instead Of The Driveway
- Dispose of Clippings, Leaves and Garbage Properly - Compost or Place Behind the Curb
- Recycle Used Oil and Antifreeze
- Sweep Your Driveway Instead of Pressure Washing
- Maintain Septic Tanks Properly
- Use Silt Fencing and Other Erosion Control Measures in Construction
- Don't Over Fertilize Your Lawn and Don't Apply Before Heavy Rainfall

2013

Alabama Water Resources CONFERENCE & SYMPOSIUM

September 4-6, 2013

Perdido Beach Resort
Orange Beach, Alabama

auei.auburn.edu/conference/



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

January 22, 2014

MEMORANDUM

To: Conference Attendees

From: Anthony Scott Hughes, Chief 
Office of External Affairs

Re: Continuing Education Credits
Nonpoint Source Pollution Conference

This memo serves to verify that you attended the Nonpoint Source Pollution Conference that was hosted by the Alabama Department of Environmental Management on January 22, 2014. The event included technical presentations related to Nonpoint Source Pollution.

Your participation in this event could result in you being eligible for Continuing Education Credits from your accrediting organization/association. You may submit this Memorandum, along with a copy of today's agenda, to your accrediting organization/association to apply for your Continuing Education Credits.

ASH



Josh D. Yates

From: SESWA@ksanet.net
Sent: Monday, March 18, 2013 4:06 PM
To: Josh D. Yates
Subject: Event Registration: Seminar - Stormwater BMPs and LID

You are confirmed to attend the SESWA Seminar "Stormwater BMPs and LID." By registering you understand that SESWA is holding a seat for you. If you cannot attend, you must notify SESWA in writing by April 5th as indicated by our cancellation policy below.

Event Date: Friday, April 19, 2013

Location: Westin Atlanta Perimeter North – 7 Concourse Parkway, Atlanta, GA.

Payment: If paying by check, please send a copy of this confirmation along with a check payable to the Southeast Stormwater Association to SESWA, PO Box 10530, Tallahassee, FL 32302.

Cancellation/Refunds: Refunds will be provided (minus a \$25 processing fee) for cancellations received in writing prior to April 5, 2013. There will be no refunds granted after April 5th, however, substitutions are allowed.

Materials: All course materials will be provided. Please bring your own pen/pencil.

Meals: Your seminar registration includes morning coffee, lunch and an afternoon snack.

Hotel Information: The seminar will be held at the Westin Atlanta Perimeter North, located at 7 Concourse Parkway, Atlanta, Georgia 30328. A block of rooms is reserved at a rate of \$129/night. The deadline to receive the discounted room rate is March 18, 2013. Call 1-888-627-8407 for room reservations and be sure to mention the Southeast Stormwater Association to receive the discounted rate. All hotel guests will receive a discounted breakfast in the Lakeside Grill at \$15 per person (not including tax and gratuity).

Continuing Education: Professional Engineers attending this seminar will be eligible for up to six (6) continuing education credits. SESWA is an approved Professional Engineer (PE) continuing education provider for Alabama, Florida (#0004288), Georgia, Kentucky, Mississippi, North Carolina, South Carolina and Tennessee.

Questions? Call 866-FOR SESWA (367-7379) or Email SESWA@ksanet.net

We look forward to seeing you in Atlanta!

Event: Seminar - Stormwater BMPs and LID

Date: 4/19/2013

Time: 9:00:00 AM EST-4:00:00 PM EST

Organization: City of Tuscaloosa, AL

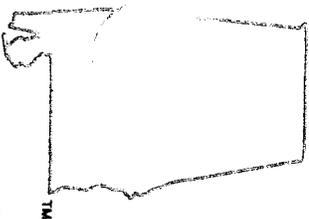
Registrant Name: Josh Yates

Title: Engineering Environmental Compliance Coordinator

Main Registrant Price:\$179.00

Total Paid: \$179.00

Total Due: \$0.00



**ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
&
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP**

CERTIFICATE OF TRAINING

**CLEAR WATER ALABAMA WORKSHOP
OCTOBER 8, 2013**

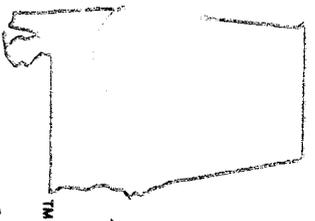
THIS CERTIFIES THAT

Kevin Turner

COMPLETED

6.0 CONTACT HOURS – 0.6 CEUS, 6.0 PDHS, OR 6.0 PDUS

**EARL NORTON, COORDINATOR
ALL EROSION AND SEDIMENT CONTROL
PARTNERSHIP**



**ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
&
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP**

CERTIFICATE OF TRAINING

CLEAR WATER ALABAMA SEMINAR

OCTOBER 9, 2013

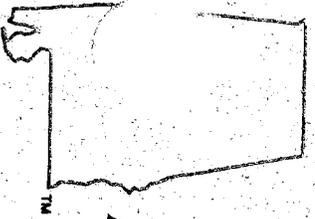
THIS CERTIFIES THAT

Kevin Turner

COMPLETED

6.0 CONTACT HOURS – 0.6 CEUS, 6.0 PDHS, OR 6.0 PDUS

**EARL NORTON, COORDINATOR
AL EROSION AND SEDIMENT CONTROL
PARTNERSHIP**



ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
&
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP

CERTIFICATE OF TRAINING

CLEAR WATER ALABAMA FIELD DAY SITE VISITS
OCTOBER 10, 2013

THIS CERTIFIES THAT

Kevin Turner

COMPLETED

3.5 CONTACT HOURS -- 0.35 CEUS, 3.5 PDHS, OR 3.5 PDUS
FIELD DAY PLUS QCI SESSION OF THE DAY COMPLETES THE MANDATORY 4-HOUR
CONTINUING EDUCATION REQUIREMENT FOR INDIVIDUALS POSSESSING
EXISTING QCI CERTIFICATION FROM
THE HOME BUILDERS ASSOCIATION OF ALABAMA

EARL NORTON, COORDINATOR
AL EROSION AND SEDIMENT CONTROL
PARTNERSHIP



ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
8
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP

CERTIFICATE OF TRAINING

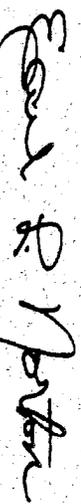
CLEAR WATER ALABAMA FIELD DAY SITE VISITS
OCTOBER 10, 2013

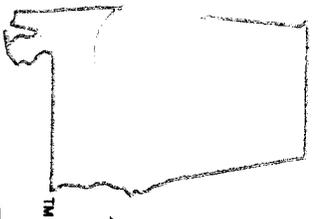
THIS CERTIFIES THAT

Josh Yates

COMPLETED

3.5 CONTACT HOURS – 0.35 CEUS, 3.5 PDHs, OR 3.5 PDUS
FIELD DAY PLUS QCI SESSION OF THE DAY COMPLETES THE MANDATORY 4-HOUR
CONTINUING EDUCATION REQUIREMENT FOR INDIVIDUALS POSSESSING
EXISTING QCI CERTIFICATION FROM
THE HOME BUILDERS ASSOCIATION OF ALABAMA


EARL NORTON, COORDINATOR
AL EROSION AND SEDIMENT CONTROL
PARTNERSHIP



**ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
&
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP**

CERTIFICATE OF TRAINING

**CLEAR WATER ALABAMA WORKSHOP
OCTOBER 8, 2013**

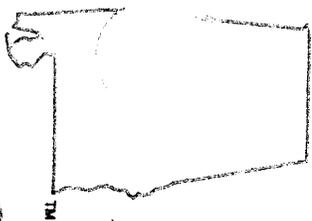
THIS CERTIFIES THAT

Josh Yates

COMPLETED

6.0 CONTACT HOURS – 0.6 CEUS, 6.0 PDHS, OR 6.0 PDUS

**EARL NORTON, COORDINATOR
AL EROSION AND SEDIMENT CONTROL
PARTNERSHIP**



**ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
&
ALABAMA EROSION AND SEDIMENT CONTROL PARTNERSHIP**

CERTIFICATE OF TRAINING

**CLEAR WATER ALABAMA SEMINAR
OCTOBER 9, 2013**

THIS CERTIFIES THAT

Josh Yates

COMPLETED

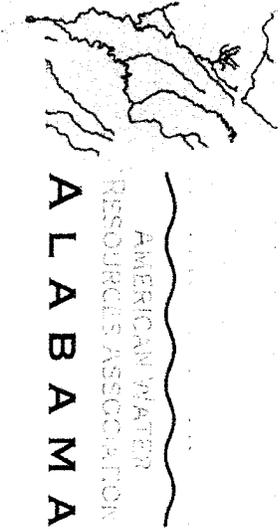
6.0 CONTACT HOURS – 0.6 CEUS, 6.0 PDHS, OR 6.0 PDUS

**EARL NORTON, COORDINATOR
AL EROSION AND SEDIMENT CONTROL
PARTNERSHIP**

AWRA
Certificate of Membership

Kevin Turner

*is a member in full standing of the Alabama Section of the
American Water Resources Association
and is entitled to all the rights and privileges of membership during 2013*



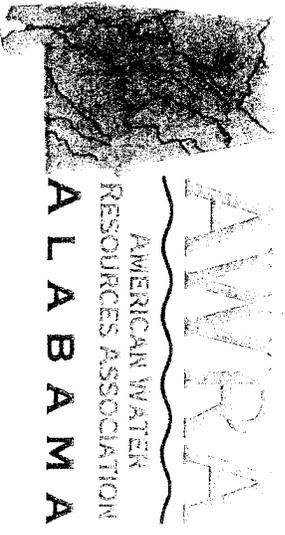
Stan Cook

Stan Cook, Alabama Section President

AWRA
Certificate of Membership

Josh D. Yates

*is a member in full standing of the Alabama Section of the
American Water Resources Association
and is entitled to all the rights and privileges of membership during 2013*



Stan Cook

Stan Cook, Alabama Section President

BMP Training class sign-in sheet 1-23-¹³~~12~~

Andy Farley

Greg White

David Rice

Thiel Alfano

BARRY FAUS

Ron Ruane

Michael Dyer

David Hill

Walter H. Hogg

~~_____~~

Kevin Turner

Chad Christian

Josh Yates

} OCE



MEDIA DETAILS:

- Tuscaloosa News – ¼ Page Full Color, Sunday
- Radio - :30, M-Sat 6a-7p
- Cable - :30, M-Sun 6p-12m
- WVUA - :30, M-F News 5P/6P/10P; Hey Coach, Tider Insider, Tommy Wilcox
- TuscaloosaNews.com – Display ad on homepage with link, up to 40,000 impressions per month
- Utility Statement Stuffers – 4 x 9, 100# Gloss Text, Full Color One Side – includes printing and shipping
- Facebook Paid Ads – Will display only to Men 25 plus in Tuscaloosa City with lifestyle interests in hunting, fishing, outdoors, etc.

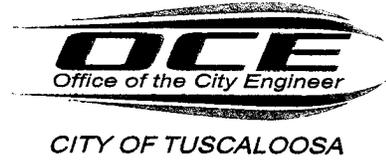
PRODUCTION/AGENCY CHARGES:

- Account Management
- Account Planning
- Procure Bonus Media
- Resize Artwork for Print, Internet, Statement Stuffers
- Deliver Orders and Production to Media
- Media Order Reconciliation

Presented By:

Lori Moore

TotalCom Marketing Communications
205.345.7363



HOW CAN I PREVENT STORMWATER POLLUTION?

- **Report Spills or Erosion Problems Immediately**
- **Establish Grass on Bare Areas to Prevent Erosion**
- **Wash Your Car On The Lawn Instead Of The Driveway**
- **Dispose of Clippings, Leaves and Garbage Properly - Compost or Place Behind the Curb**
- **Recycle Used Oil and Antifreeze**
- **Sweep Your Driveway Instead of Pressure Washing**
- **Maintain Septic Tanks Properly**
- **Use Silt Fencing and Erosion Control Measures in Construction**
- **Don't Over Fertilize Your Lawn and Don't Apply Before Heavy Rainfall**

**For More Information
Or To Report A Problem:
Dial 311 Or Visit
www.townstormwater.com**

WATERFEST



Where does YOUR water come from?

Here are some great events to find out exactly where YOUR water does come from, how you can help protect it, how we can preserve it for the future & how to enjoy it!

WATER TALK

April 4th, 6pm-7:30pm, Phelps Activity Center

Lake Tuscaloosa-North River Watershed Information Fair/Open Forum for General Public

2nd Annual WATERFEST Student Expo

April 5th, 9am-2pm, Phelps Activity Center

(preregistration required for Expo)

5th Annual CLEAN OUR LAKE DAY

April 6th, 8am-12pm, Binion Creek (Hwy43) Boat landing

Volunteer Lake Clean-up Event

For more details contact 205-349-0279 or www.northriverwatershed.org



Waterfest made possible by...

Alabama Outdoors~Alabama Power Service Org.~Almon Associates~Bama Docks~Black Warrior Riverkeeper~Blue Heron Marina
Buffalo Rock~Campus Collections~Chris Watkins Const.~CH2MHill~Hansel King~Harrison Const.~Hudson Poole
Jim Walter Energy~McAbee Const.~Nick's Kids~Nucor~PALS~PARA~Patton Geologics~Pottery Grill~Rex Veron Designs
Sentell Engineering~Smith's Marina~Thornton Welding~TTL~TuscaloosaScaleCo.~Walker Associates~WSV Architects

3rd Annual WATERFEST

April 4th 10am-2pm, Phelps Activity Center

The WATERFEST Information Fair is a good place to learn about where your water comes from, how it is protected, and ways you can help preserve it for the future of the Tuscaloosa area.

6th Annual Clean Our Lake Day

April 5th 8am-1pm, Binion Creek (Hwy 43) Boat Landing

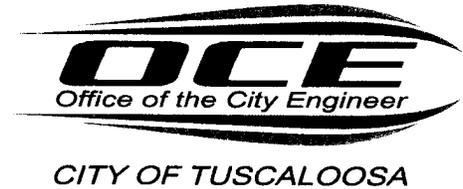
Annual Lake Cleanup day where volunteers clean the trash from bridge crossings, streams, rivers and lakes in the Tuscaloosa area to help protect one of our areas greatest natural resources.



For more details contact 205-349-0279
or www.northriverwatershed.org

Waterfest made possible by...

Alabama PALS ~ Almon Associates ~ Bama Docks ~ Black Warrior Riverkeeper
Blue Herron Marina ~ Buffalo Rock ~ Campus Collections ~ Chris Watkins Construction
CH2MHill ~ City of Northport ~ Hansel King ~ Harrison Construction ~ Hudson Poole
McAbee Construction ~ Nick's Kids ~ Nucor ~ PARA ~ Patton Geologies
Planet Weekly ~ Pottery Grill ~ Sentell Engineering ~ Smith's Marina
Tuscaloosa Assoc. of Realtors ~ Thornton Welding ~ TTL ~ Tuscaloosa Scale Co.
Varmon Engineering. ~ Walker Associates, Inc. ~ Ward Scott Architecture



- B.) A copy of this ordinance can be found in the City of Tuscaloosa's Municipal Code, at the City Engineers Office, and online at www.ttownstormwater.com

Stormwater Seminars

See Page 7.

Site Inspection Procedure

- A.) The EECC and Stormwater Inspector inspect construction job sites that require a Land Development Permit on a daily basis. We also inspect job sites based on citizen request by email or phone, or through our 311 system, or through our website.
- B.) All residential sites that do not require a Land Development Permit are inspected by building inspectors in the Planning and Development Services Department.
- C.) When Issues are found by the EECC or the Stormwater Inspector, photographs are taken, deficiencies are noted, and an email is sent to the owner, engineer, and contractor. Next, the Escalating Enforcement Procedure is followed.

Design Handbook

- A.) All plans are required to comply with "The Alabama handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas" or provide details of the BMPs for review.

Tuscaloosa, Alabama, Code of Ordinances >> - CODE >> **Chapter 21 - STREETS AND SIDEWALKS >>
ARTICLE IX. STORMWATER PHASE II >>**

ARTICLE IX. STORMWATER PHASE II

Sec. 21-150. Preamble, findings of fact and intent.

Sec. 21-151. Definitions.

Sec. 21-152. Illicit discharges.

Secs. 21-153—21-179. Reserved.

Sec. 21-150. Preamble, findings of fact and intent.

- (a) The City of Tuscaloosa has for a number of years had a storm drainage and erosion control ordinance intended to provide a measure for the City of Tuscaloosa to minimize erosion and sedimentation onto city streets and rights-of-way. The existing subdivision regulations and erosion control ordinance and the associated site development permit (SDP) regulations shall remain in effect and are enhanced but not superceded by this article.
- (b) However, as required by phase II of the National Pollutant Discharge Elimination System (NPDES) stormwater program, as published in the Federal Register on December 8, 1999, and promulgated by the Environmental Protection Agency (EPA) under the Clean Water Act (CWA), a regulated small municipal separate storm sewer system (MS4) operator must develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants from their MS4 to the "maximum extent practicable," to protect water quality and to satisfy the appropriate water quality requirements of the CWA. The rule provides for the use of narrative, rather than numeric, effluent limitations that require implementation of best management practices (BMPs).
- (c) Under the stormwater phase II final rule, the small MS4 stormwater management program must include the following six (6) minimum control measures, except where a statewide NPDES program exists to address that control measure:
 - (1) *Public education and outreach.* Distributing educational materials and performing outreach to inform citizens about the impacts polluted stormwater runoff discharges can have on water quality;
 - (2) *Public participation/involvement.* Providing opportunities for citizens to participate in program development and implementation, including effectively publicizing public hearings and/or encouraging citizen representatives on a stormwater management panel;
 - (3) *Illicit discharge detection and elimination.* Developing and implementing a plan to detect and eliminate illicit discharges to the MS4.
 - (4) *Construction-site runoff control.* Developing, implementing, and enforcing an erosion and sediment control program for construction activities that disturb one or more acres of land or less, if part of a larger common plan or development. ADEM Administrative Code Ch. 335-6-12 implements a statewide construction stormwater regulatory program consistent with NPDES requirements for construction activities.
 - (5)

Postconstruction runoff control. Developing, implementing, and enforcing a program to address discharges of postconstruction stormwater runoff from new development and redevelopment areas. ADEM Administrative Code Ch. 335-6-12 implements a statewide construction stormwater regulatory program consistent with NPDES requirements for postconstruction activities.

- (6) *Pollution prevention/good housekeeping.* Developing and implementing a program with the goal of preventing or reducing pollutant runoff from municipal operations. The program must include municipal staff training on pollution prevention measures and techniques.
- (d) As required by phase II of the NPDES stormwater program, a regulated small MS4 operator must identify its selection of BMPs and measurable goals for each minimum measure in the permit application. The evaluation and assessment of those chosen BMPs and measurable goals must be included in periodic reports to the NPDES permitting authority. The City of Tuscaloosa has prepared and submitted to ADEM a stormwater management plan that addresses these elements.
- (e) This article is enacted to preserve, protect and promote the health, safety and welfare of the citizens of Tuscaloosa, Alabama, through the reduction, control and prevention of the discharge of pollutants to the MS4. It is the expressed intent of the city council in enacting this article to provide for and promote compliance by the city with federal and state laws governing the discharge of pollutants from the MS4 and to provide for and promote compliance with the NPDES stormwater program and the terms of the city's municipal phase II stormwater permit. This article shall be known as the "Tuscaloosa NPDES Stormwater Compliance Ordinance."
- (f) Nothing herein shall be construed to require the city or its officials, employees, agents or attorneys to restore or cause the restoration of property damaged by erosion or sedimentation in violation of this article or to otherwise seek or assist others in seeking compensation to private property owners for any such damage caused by a violation of this article. The city and its officials, employees, agents and attorneys shall not be liable for any condition or damages that result from any failure to observe or recognize a hazardous condition, any failure of an approved plan to prevent erosion or sedimentation, or any failure of the city to cause owners and builders to adhere to the terms of this article. Nothing herein shall be construed to expand the liability of the city or its officials, employees, agents or attorneys nor shall it create any additional, further, different or expanded claim or cause of action.

(Ord. No. 6572, § 1, 2-3-04)

Sec. 21-151. Definitions.

The following defined terms shall apply to this article:

ADEM shall mean the Alabama Department of Environmental Management.

AWPCA shall mean the Alabama Water Pollution Control Act, Code of Ala. 1975, §§ 22-22-1 through 22-22-14; and the Alabama Environmental Management Act, Code of Ala. 1975, §§ 22-22A-1 through 22-22A-16, both as amended, and regulations promulgated thereunder.

BMPs or best management practices shall mean schedules of activities, prohibitions of practices, maintenance procedures and other structural and nonstructural management devices implemented to prevent or reduce the discharge of pollutants to the MS4. Nonstructural BMPs are strategies implemented to control stormwater runoff that focus on pollution prevention such as

alternative site design, zoning and ordinances, education, and good housekeeping measures. Structural BMPs are engineered devices to control, treat, or prevent stormwater runoff pollution. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

City shall mean the City of Tuscaloosa, Alabama, a municipal corporation organized under the laws of the State of Alabama.

City engineer shall mean the city engineer or employee(s) of the office of the city engineer.

Clean Water Act or *CWA* shall mean the federal Clean Water Act, 33 U.S.C. § 1251 ;et seq. and regulations promulgated thereunder.

Construction site shall mean land-disturbing activity associated with a development, including but not limited to, 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.

Discharge or *discharge of a pollutant* shall mean any addition of any "pollutant" to the "MS4."

EPA shall mean the federal Environmental Protection Agency.

Illicit discharge shall mean any discharge to the MS4 that is not composed entirely of stormwater except discharges pursuant to an NPDES permit (other than the NPDES permit for discharges from the MS4) and discharges from firefighting and emergency management activities and those discharges specifically excluded in [sub]section 21-152(a)(2) of this article.

LDP or *land development permit* shall mean a drawing approved and stamped by the city engineer showing all the important physical features, both existing and proposed, of a given parcel of land and abutting the right-of-way as described in section 21-100, Code of Tuscaloosa.

MS4 (municipal separate storm sewer system) in accordance with 40 CFR 122.26(b)(8), shall mean a conveyance or system of conveyances (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) meeting all of the following criteria:

- (1) Owned or operated by the city that discharges into waters of the United States.
- (2) Designed or used for collecting or conveying stormwater; and
- (3) Which is neither a publicly owned treatment works (POTW) nor a combined sewer.

NPDES or *National Pollutant Discharge Elimination System* shall mean the state permitting program implemented under the Clean Water Act and the AWPCA.

Person shall mean any individual, partnership, syndicate, joint venture, group, firm, company, association, trust, public or private corporation, business, estate, commission, board, utility, cooperative, county, city or other political subdivision, or any entity recognized by law, or any combination of the foregoing.

Pollutant means, but is not limited to, dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended), heat, wrecked or discarded equipment, rock, sand, silt, topsoil, cellar dirt, dirt, and industrial, domestic, and agricultural waste discharged into water.

Stormwater shall mean stormwater runoff, snow melt runoff, and surface runoff and drainage.

(Ord. No. 6572, § 1, 2-3-04; Ord. No. 7248, § 5, 5-13-08)

Sec. 21-152. Illicit discharges.

Recognizing the adverse effects that illicit discharges can have on receiving waters as well as the health, safety, and welfare of local citizens, this article implements and enforces an illicit discharge detection and elimination program.

(a) *Illicit discharge prohibitions.*

- (1) The illicit discharge of pollutants to the MS4 by any person is prohibited. The spilling, dumping, or disposal of materials other than stormwater in such a manner as to cause the illicit discharge of pollutants to the MS4 is also prohibited.
- (2) The following discharges are specifically excluded from the prohibitions of this article:
 - Water line flushing (including fire hydrant testing);
 - Landscape irrigation;
 - Diverted stream flows;
 - Rising ground waters;
 - Uncontaminated ground water infiltration;
 - Uncontaminated pumped ground water;
 - Discharges from potable water sources;
 - Foundation drains;
 - Air conditioning condensate;
 - Irrigation water;
 - Springs;
 - Water from crawl space pumps;
 - Footing drains;
 - Lawn watering;
 - Individual residential car washing;
 - Flows from riparian habitats and wetlands;
 - Dechlorinated swimming pool discharges;
 - Street wash water;
 - Discharges of flows from firefighting activities.

(b) *Permits.* A separate stormwater permit from the City of Tuscaloosa is not required under this article due to the existing ADEM NPDES stormwater permit program. However, the City of Tuscaloosa expressly reserves the right to protect the MS4, ensure the health, safety, and welfare of local citizens, and to promote compliance with the terms of the city's stormwater phase II permit by detecting and eliminating illicit discharges. Any such illicit discharge shall be eliminated by the application and enforcement of the Code of Tuscaloosa as necessary, regardless of ADEM permit status.

(c) *ADEM notice of registration.* Each SDP or set of subdivision plans submitted to the city engineer for approval shall include a copy of the proposed ADEM notice of registration specific to the site in question.

(d) *Design requirements.* Facilities submitted for approval in the subdivision or SDP process shall be designed to reduce the discharge of pollutants to the MS4 to the "maximum extent

practicable", to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act, the AWPCA and the ADEM NPDES stormwater permit program. Grading, erosion control, sediment control, waterway crossings and any other necessary best management practices shall meet the design criteria set forth in the most recent edition of the Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas.

- (e) *Inspection.* Inspections by the director of transportation/city engineer or his representative for the purpose of identifying potential illicit discharges shall be made as part of the subdivision, site development, or building inspection process, or as the response to a citizen complaint or city council request. Inspections to identify pollutant sources from upland areas may also be generated by the discovery and subsequent investigation and tracing of downstream pollutants in the MS4.
- (f) *Enforcement.* Every effort shall be made to achieve the resolution of isolated violations of this article via the established subdivision, site development permit, and building inspection procedures. Repeated or gross violations of this article or those violations where the aforementioned measures cannot be successfully applied shall be treated as a violation of the Code of Tuscaloosa punishable in accordance with section 11-45-9, Code of Alabama, 1975.
- (g) *Providing false information and tampering prohibited.* It shall be unlawful for any person to provide false information to the city engineer or anyone working under the city engineer's supervision when such person knows or has reason to know that the information provided is false, whether such information is required by this article or any approval granted under this article.
- (h) *Existing authorities.* Nothing in this article shall be construed to limit the existing authority of the city to enforce rules and regulations regarding: (a) charges, limits and restrictions on the discharge of waste into the sanitary sewerage system of the city; (b) health or sanitation ordinances of the city enforced by the Tuscaloosa County Health Department; or (c) ordinances governing the sanitation of premises where animals are kept. This article shall be cumulative to and in furtherance of any statutory, common law, or other legal right, duty, power, or authority possessed by the city. Compliance with this article shall not excuse any person from compliance with any other federal, state or local law, ordinance, regulation, rule or order.

(Ord. No. 6572, § 1, 2-3-04; Ord. No. 7248, §§ 6, 7, 5-13-08)

Secs. 21-153—21-179. Reserved.



CITY OF TUSCALOOSA

Dry Weather Screening Program

- A.) This program is currently a part of our Outfall Mapping Program (Page 15). As we map, we are walking in the stream looking for possible illicit discharges, strong odors, discoloration, or any pipe that could be sending non-stormwater discharges to the stream.
- B.) We wait to Map at a minimum of 72 Hours after a rain event. This way we can let the water recede and be able to look for uncommon discharges.
- C.) Any suspicious discharge is sent to the wastewater treatment plant for fecal bacteria testing and to the water treatment plant for chlorine/fluoride testing to determine whether or not it is deemed wastewater and/or a water-line break
- D.) Upon completion of our Outfall Mapping Program, the Outfalls will continue to be evaluated and the streams will continue to be monitored on a regular basis.

Illicit Discharge Success Stories

<u>Date</u>	<u>Where</u>	<u>Violation</u>	<u>Results</u>
11/13/2013	Academy Drive Subdivision	Saw a high discharge without Rain	Sampled and Found Flouride an indicator of Treated Water / Followed up-stream and found a WaterLine Break - Fixed
1/2/2014	Wood Village Mobile Home Park	Pumping Sewage Into Storm Drain	Maintenance Supervisor Charged with Illicit Discharge / Sewage Pump fixed within a week Found no evidence of intentional wrongdoing / Connected to City Sewer and no longer on Septic Tank
2/6/2014	Coral Industries	Sewage leaking into stream	



INVOICE

LaMotte Company
 202 Washington Avenue • PO Box 329 • Chestertown • Maryland • 21620-0329 • USA
 410-778-3100 • Fax 410-778-6394

INVOICE 1332308
 INVOICE DATE 12/04/2013
 TERMS CREDIT CARD

ORDER 01356646
 DATE OF ORDER 11/21/2013
 ACCOUNT 00000622203
 PURCHASE ORDER

CARRIER UPS SURFACE
 COL/PPD N
 REF LAF

INVOICE TO
 CITY OF TUSCALOOSA
 2201 UNIVERSITY BLVD
 TUSCALOOSA, AL 35401

DELIVERED TO
 CITY OF TUSCALOOSA
 ATTN: KEVIN TURNER/OFC OF CITY ENGINEER
 1000 28TH AVE
 TUSCALOOSA, AL 35401

ITEM NUMBER/ CUSTOMER'S ITEM NO	DESCRIPTION	UOM	QTY TO SHIP/ QTY B/O	UNIT PRICE	EXT. PRICE
9844-02	ALABAMA WTR QUAL MON KIT > (QTY:1,10,25) OPEN MKT *r1	EA	1.00	270.00	270.00
R-9844-01	REFILL-ALABAMA WTR QUALITY *10 MONITORING KIT *r1	EA	2.00	90.80	181.60

Additional Information

COMMENTS

Go Green! Download your MSDS
 now on-line at www.lamotte.com

- PLEASE CALL before returning any goods
- FILE CLAIMS for damages or shortages within 10 days.
- PLEASE REMIT IN US FUNDS.
- SELLER REPRESENTS that with respect to the production of the articles covered by this invoice it has fully complied with the fair labor standards act of 1938, as amended.
- **DISCLAIMER** All products are offered in accordance with the seller's current production specifications and are intended solely for use in chemical testing. The seller shall, in no event, be liable for any injury, loss or damage resulting from the handling, use or misuse of products.

Sale Amount	451.60
Handling Fee	0.00
Freight	21.70
Sales Tax	0.00
Total	473.30
Amount Rec'd	473.30CR
Balance Due	0.00

Please reference Account Number and Invoice Number with payment.

Tuscaloosa, Alabama, Code of Ordinances >> - CODE >> **Chapter 21 - STREETS AND SIDEWALKS >>
ARTICLE XII. REGULATION OF CERTAIN LAND DEVELOPMENT ACTIVITIES Land Development
Activities Regulations Generally >>**

**ARTICLE XII. REGULATION OF CERTAIN LAND DEVELOPMENT ACTIVITIES
Land Development Activities Regulations Generally**

Sec. 21-210. Purpose.

Sec. 21-211. Scope.

Sec. 21-212. Definitions.

Sec. 21-213. Legal aspects, other regulations.

Sec. 21-214. Language and interpretation of text.

Sec. 21-215. Design objectives.

Sec. 21-216. Engineering design, accountability and standards.

Sec. 21-217. Drainage standards—Generally.

Sec. 21-218. Land development: permit requirement.

Sec. 21-219. Driveway land development: permit requirement.

Sec. 21-220. Waiver of certain technical specifications.

Sec. 21-221. Erosion control required generally.

Sec. 21-222. Inspections.

Sec. 21-223. Enforcement and penalties.

Sec. 21-224. Technical specifications.

Secs. 21-225—21-235. Reserved.

Sec. 21-210. Purpose.

The purpose of this article is to establish minimum standards for design and construction of site grading and site and land development projects within the city and within its police jurisdiction. These minimum standards for land development activities are intended to protect and promote the public health, safety and general welfare by requiring the developing party to achieve these goals:

- The design and construction of safe and durable streets, driveways and parking lots.
- The design and construction of adequate stormwater drainage systems to reduce flooding.
- The design and construction of adequate, reliable and durable sanitary sewer systems that prevent illicit discharges.
- Preparing complete and accurate plans to enable the developing party to adequately address grading and lot issues.
- Insuring that there are adequate measures in place to control erosion and sediment and that stormwater pollution is reduced and controlled through establishment and maintenance of best management practices during construction and development activities.
- That appropriate measures have been taken to maintain stormwater sewer systems.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-211. Scope.

This article does not contain all the regulations and requirements for development activities, design and construction nor does a permit issued pursuant to the provisions hereof serve as a substitute for obtaining and complying with all other applicable city ordinances, building and related codes, zoning restrictions, and other applicable regulations. Without limiting the generality of the foregoing development activities may also require building and related technical permits and inspections, compliance with zoning and subdivision ordinances and regulations. Municipal utilities for water and sewer require compliance with separate ordinances and policies of the water and sewer department of the city.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-212. Definitions.

The terms as defined in chapter 21 and chapter 16 of the Code of Tuscaloosa shall have applicability herein except that, whenever the following terms are used in this article they shall have the meaning respectively ascribed to them unless the context clearly indicates otherwise:

AASHTO: American Association of State Highway and Transportation Officials.

Alley: A street intended to provide access to the rear or side of lots or buildings in urban districts and not intended for the purpose of through vehicular traffic.

Application: A form provided by and submitted to the city engineer by a developer desiring a land development permit (LDP) to engage in development as herein defined. An Application must be complete and properly supported with a land development plan, maps, and applicable data.

Applicant: A developer as herein defined, including applicant or developer's representative, who is applying for a land development permit pursuant to the provisions hereof.

Area. The provisions of this article shall have applicability to all site and land development projects and development activities within the corporate limits of the city and the city's police jurisdiction, including the development of subdivisions and planned unit developments (not individual lots within subdivisions) and the development of single family residential homes in flood hazard areas.

BMP—Best management practices: Schedules of activities, prohibitions of practices, maintenance procedures and other structural and nonstructural management devices implemented to prevent or reduce the discharge of pollutants off site. Nonstructural BMPs are strategies implemented to control stormwater runoff that focus on pollution prevention such as alternative site design, zoning and ordinances, education, and good housekeeping measures. Structural BMPs are engineered devices to control, treat, or prevent stormwater runoff pollution. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

City drainage standards: The criteria, standards and specifications for the design and construction of storm drainage structures, streets and earth change issued by the city engineer.

City engineer: The city engineer or his/her authorized representative.

Commercial: Pertaining to the use of any area, structure or other facility for commercial use, industrial use or for multifamily dwelling where more than four dwelling units are involved.

Contractor: A person, firm or corporation either self-employed or otherwise employed by the developer to engage in development activity or to construct, reconstruct, alter, remove or replace a driveway approach.

Corner: The point at which the prolongation of the lateral boundary lines of two roadways intersect.

Curbed street: A street having concrete curbs or curbs and gutters or other such equivalent physical features which serve to establish a permanent street grade.

Detention: The temporary storage and controlled release of stormwater runoff.

Detention facility: A facility that provides temporary storage of storm runoff and controlled release of this runoff.

Development: Any manmade or earth change to property within the area including, but not limited to, preparation of land for the construction of buildings or other structures, mining, dredging, filling, grading, regrading, paving, clearing, excavation or drilling operations. This definition also includes changes or improvements to any property subject to these regulations such as curb and gutter, storm drainage structures, streets, drainage facilities, sidewalks, and related public or private roads and the installation of utilities. Development includes the construction or reconstruction of driveways or driveway approaches.

Developer: Any person, firm, partnership, corporation or other legal entity engaged in or seeking to engage in development activity as herein defined including a developer that has been issued a land development permit pursuant to the provisions of this article.

Drainage facilities: Drainage facilities shall consist of storm sewers (closed conduits), improved channels, unimproved drainage ways left in their natural condition, areas covered by restricted drainage way easements for the purpose of providing overland flow and appurtenances, including inlets, manholes, junction boxes, headwalls, dissipaters, culverts, detention facilities and the like, all such facilities being either public or private.

Driveway or driveway approach: An area existing or to be constructed across a street, intended for the operation of automobiles and other motor vehicles, giving access between a roadway and the right-of-way line.

Driveway land development permit—Permit—(DLDP): A land development permit that relates to a driveway or driveway approach.

Earth change: Any excavating, grading, regrading, land filling, berming, or diking of land or other activity upon land.

Erosion: The process in which by wind or water, soil particles are displaced and transported.

FHWA: Federal Highway Administration.

Flood: A temporary rise in the level of water which results in inundation of areas not ordinarily covered by water.

Floodplain area: The area subject to flooding as designated on the flood insurance rate map (FIRM), an official map of the city on which the Federal Emergency Management Agency has delineated both the areas of special flood hazard and the risk premium zones applicable to the city,

where the boundaries of the areas of special flood hazard have been defined as zone A (latest edition), and its subsequent amendments including the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot of the area as herein defined.

Intersection:

- (a) The area embraced within the prolongation or connection of the lateral curb lines, or, if none, then the lateral boundary lines of the roadways of two streets which join one another at, or approximately at, right angles, or the area within which vehicles traveling upon different streets joining at any other angle may come in conflict.
- (b) Where a street includes two roadways thirty (30) feet or more apart, then every crossing of each roadway of such divided street by an intersecting street shall be regarded as a separate intersection. In the event such intersecting street also includes two roadways thirty (30) feet or more apart, then every crossing of two (2) roadways of such streets shall be regarded as a separate intersection.
- (c) The junction of an alley with a street shall not constitute an intersection.

Joint driveway approach: A driveway approach that provides motor vehicular access to a street for more than one parcel of land.

Land development permit or permit (LDP): A written document prepared and executed by the city engineer or his/her designee which authorizes development in accordance with the provisions hereof and subject to any additional or specific requirements that may be stated therein. (Formerly SDP or site development permit, sections 21-101 and 21-152).

Land development plan or plan: A properly documented written plan, prepared, signed and stamped by a registered professional engineer, licensed in the state, consisting of a completed application with supporting documents demonstrating that development as herein defined will occur upon an identified parcel of land within the area in compliance with the provisions of this chapter [article]. The land development plan shall include drainage plans in compliance with city drainage standards, and compliance with technical specifications issued by the city engineer. An engineering drawing showing all the important physical features both existing and proposed, of a given parcel of land and abutting the right-of-way shall also be submitted with the application and form part of the plan. The land development plan will adequately and sufficiently address in accordance with the provisions of this article traffic, parking, stormwater, sanitary sewer, erosion, use of BMPs, sanitary sewer and related components.

Lot—Parcel—Plot—Property: Refers to a single undivided portion of land that is either legally recorded in the Tuscaloosa County property records, or is being proposed in good faith by well-prepared plan drawings for the purpose of being legally recorded. It is the responsibility of the property owner (or his agent) to insure that the property is legally recorded with the office of the probate judge.

Minimal land development plan: A land development plan for a parcel of land less than one acre in size or any land development where all required improvements are in place or there are minor earth changes in regard to which the city engineer may waive certain requirements and approve the land development plan as he deems appropriate to meet the purposes of this chapter [article].

Motor vehicle: Every vehicle which is self-propelled and every vehicle which is propelled by electric power obtained from overhead trolley wires, but not operated upon rails, except for electric personal assistive mobility devices.

MUTCD: Manual on Uniform Traffic Control Devices, Latest Edition.

Natural: The cover and topography of land before any manmade changes, or in areas where there have already been manmade modifications and development, the state of the area and topography of land at the date of the adoption of this article.

Owner: Persons or agent with lawful title or control of a parcel of land.

OSHA: Occupational Safety and Health Administration.

Parcel: See "Lot."

Parking: The standing of a vehicle, whether occupied or not, otherwise than temporarily for the purpose of and while actually engaged in loading or unloading merchandise or passengers.

Permittee: A person or a developer as herein defined including developer's representative who has been issued a land development or driveway land development permit pursuant to the provisions hereof.

Person: The word "person" shall include any person, corporation, firm, partnership, association, organization, contractor and/or any group acting as a unit as well as developers and individuals engaged in development as herein defined in the area. It shall also include an executor, administrator, trustee, receiver or other representative appointed according to law.

Plot: See "Lot."

Pollutants: As defined in section 21-151.

Property: See "Lot."

Property line: The boundary between two (2) or more lots.

Residential: Pertaining to the use of any area, structure or other facility primarily for dwellings, up to and including four (4) units.

Right-of-way: A general term denoting public ownership or interest in land, usually in a strip which has been acquired for or devoted to the use of a street or alley.

Right-of-way line: The boundary denoting the right-of-way limit usually between any public street or alley and one or more parcels of private property.

Roadway: That portion of a street improved, designed or ordinarily used for vehicular travel, exclusive of the berm or shoulder. In the event a street includes two (2) or more separate roadways, the term "roadway" as used herein shall refer to any such roadway separately but not to all such roadways collectively.

Runoff: The water from rain or melted snow that flows over the surface.

Sanitary sewer system: Lines, pump stations, treatment systems and any other permanent asset associated with the collection, transport, conveyance, treatment discharge of sanitary sewage or wastewater.

Sanitary sewer system capacity: The ability of all lines, pump stations and treatment assets in a sanitary sewer system to contain and properly treat sewage or wastewater which enters the system from any development.

Sedimentation: The deposition of eroded material.

Sedimentation facilities: Those facilities including debris basins, sedimentation traps, berms, interceptor ditches, land terraces, hay bales, and vegetation ground covers.

Sidewalk: That portion of a street between the curb lines, or the lateral lines of a roadway, and the adjacent property lines, improved for use by pedestrians.

Stormwater: As defined in section 21-151 of the City Code of Tuscaloosa.

Street: As defined by section 21-1 of the City Code of Tuscaloosa.

Street classification: Pertaining to the location of driveway approaches, the hierarchy of the street network as recorded on the official major street plan as is now constituted and as the same may be, from time to time, amended, recorded in the office of the director of community planning and development.

Uncurbed street: A street not having concrete curbs, or curbs and gutters, or other such equivalent physical features which serve to establish a permanent street grade, whether paved or unpaved.

Written order: A written directive from the city engineer or his designee in regard to a land development permit or application.

(Ord. No. 7075, § 2, 5-22-07; Ord. No. 7254, § 1, 5-27-08)

Sec. 21-213. Legal aspects, other regulations.

All local, state and federal laws and regulations shall be considered when interpreting provisions of this article or technical specifications promulgated pursuant to this article. In each instance, the more restrictive requirement shall govern unless sound engineering judgment can determine and prove that the more restrictive requirement would be otherwise unnecessary. In most instances, laws and regulations that are phrased more explicitly shall apply over those items that are not phrased as precisely.

Nothing herein contained shall authorize a person to engage in development or earth changes within the area defined herein in a manner inconsistent with current zoning or subdivision regulations or other applicable codes or ordinances. All development or earth changing activity within the area defined herein shall be in conformity with current zoning or subdivision regulations and all other applicable codes or ordinances.

A land development permit or a driveway development permit does not authorize any person or developer to engage in any activity that would violate any other applicable code, ordinance, regulation or state or federal laws nor substitute for obtaining any licenses or permits otherwise required.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-214. Language and interpretation of text.

The following language rules are applicable to this article:

- (a) The imperative case is always mandatory. The words "shall" and "must" are always mandatory. These actions must be performed unless sufficient engineering justification is submitted to the city engineer and written approval has been granted.
- (b) The word "should" indicates an action that is highly recommended under most conditions. The word "may" indicates an allowable action or choice that is usually beneficial in meeting the minimum city requirements.
- (c) Use of the singular or plural case of a noun will not affect the applicability of this article, or any other law, regulation, or ordinance, unless the context of the sentence specifically indicates that the singular/plural case affects the intended use or function on a scientific or engineering basis. The use of a singular or plural noun does not necessarily indicate whether to design or construct a single unit or multiple units. The masculine includes the feminine.
- (d) Any reference to the city engineer shall also mean the duly authorized representatives, designees or employees under his supervision who have the delegated responsibility. Areas of delegated responsibility may include, but is not limited to: review and approval of plans, review and approval of survey plats, definition of standards or requirements, approval of special conditions, review and issuance of permits, inspections and field investigations, enforcement actions, issuing notices of violation, conducting public meetings, etc.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-215. Design objectives.

The purpose of this article is to establish minimum requirements to be met by a developer or persons with respect to development and driveway activities on property in the area. The design objectives of the developers land development plan and application for a land development permit shall sufficiently and adequately address the following issues:

- (a) Safe and functional design of roads, streets, driveways, and parking lots.
- (b) Safe and functional design of sidewalks, walkways, trails and other pedestrian routes.
- (c) Safe and functional design of drainage inlets, culverts, pipes and open channels.
- (d) Minimize flooding, interruptions of utility service, traffic inconvenience and potential water damage to residences and businesses.
- (e) Minimize the amount of public expenditures needed for maintenance of streets and roads, flood control projects, flood relief efforts, and stormwater facility maintenance.
- (f) Preservation of trees, woods, natural meadows and other green spaces as much as possible (in conjunction with allowable land uses and zoning codes).
- (g) Protect and enhance streams, wetlands, waterways and rivers for wildlife and plants by reducing stormwater pollution, erosion, and negative stormwater impacts.
- (h) Promote development of recreational facilities and design aesthetics along streams, waterways, wooded areas and other green ways to benefit local neighborhoods.
- (i) Protect and enhance the source of drinking water for the city in Lake Tuscaloosa, Harris Lake and Lake Nicol.

- (j) Eliminate illicit discharges in the area.
- (k) Protect and promote the general welfare of all citizens by achieving the goals of this article.
- (l) Preserve and protect existing utilities and utility easements.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-216. Engineering design, accountability and standards.

- (a) The developer shall submit with the application a land development plan which shall contain details, calculations, construction specifications and other technical details and related documents which must be designed and sealed (stamped) by a professional engineer registered in the state, with sufficient knowledge and experience to accomplish all design elements of the land development plan. The plan designs for all submitted developments must also meet federal and state standards for use of best management practices and health and safety. Trenching, scaffolding, temporary work platforms and excavations must satisfy OSHA standards. Traffic signs and signals must be designed to meet FHWA, MUTCD and AASHTO requirements. Consideration for public safety must be reflected throughout the design process of the land development plan. The plan must also locate, identify and address existing public utilities and public utility easements and what measures will be taken to insure that the integrity, access and usability of the utilities and easements by the utility itself will be preserved. The plan shall provide calculations and capacity planning done for the proper design and construction of the sanitary sewer system serving the development and for the downstream sanitary sewer system receiving any wastewater from the development. All sanitary sewer system designs shall meet city requirements for sanitary sewer and/or water main construction and any other special requirements added as a result of the city engineer's review of the plan.
- (b) The design of the development in the plan must reflect a professional level of design expertise for stormwater calculations and flooding analyses. Stormwater design criteria are based upon current scientific knowledge and engineering judgment. The design should address the fact that floods and flooding may occur at any time due to any number of factors beyond the reasonable control of the city, such as: greater amounts of precipitation or different rainfall patterns than used in design storms, wet soil conditions, debris or blockage of key stormwater channels, high groundwater tables, etc.
- (c) All design professionals must have sufficient education and experience to perform a complete and thorough design of each element shown on the land development plan, and he or she must also have complete control to change or alter plans during the design phase. The professional's stamp is a public guarantee that his/her design has the highest regard for health and safety, protects the environment (air, soil, water) to the maximum degree possible, and serves the interests of the general public within the Area.
- (d) Design disclaimer: Compliance with applicable building and related codes, laws, ordinances of the city, state or the United States government, the use of best management practices and generally accepted engineering practices is the responsibility of the design professional, the contractor and the developer. The city through its permitting and inspection process pursuant to this article does not and cannot guarantee or assure that any development activity fully complies with all such codes and laws.

Submission of applications, plans, or drawings required herein are utilized only to ascertain their existence, that they comply with obvious requirements and generally meet the goals of this article. Plans are not reviewed by the city for compliance with all aspects of codes, ordinances or other laws or generally accepted engineering and design practices, that being the responsibility of the

design professional. Inspections by the city are routine checks to determine compliance with the requirements of this article and are not intended as a substitute for proper design or development activity in accordance with the contract documents or all applicable code or technical provisions.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-217. Drainage standards—Generally.

Without limiting the generality of a land development plan (plan) as herein defined, such a plan submitted in support of a permit application shall also consist of text statements, engineering drawings, contour maps and supporting engineering calculations, as applicable to the property covered by the plan, which are necessary to demonstrate full compliance with the requirements of these drainage standards. A plan shall include all pertinent information required by the city engineer and shall include, but is not limited to, the following elements:

- (a) An engineering hydrologic analysis of stormwater runoff under existing site conditions and under proposed developed site conditions prepared by a professional engineer with expertise in hydrology.
- (b) A detailed evaluation of the projected effects on public and private property adjoining the site and on existing drainage facilities and systems both on and off the site; including evaluation of increased runoff of stormwater caused by the development or earth change.
- (c) Topographic information shall extend a minimum of two hundred (200) feet beyond the property line. Topographic information from the outfall of any piped or ditched (natural or manmade) area shall extend downstream to the nearest drainage structure through which the water flows.
- (d) The location of all existing drainage channels and subsurface drainage structures.
- (e) The on-site regulatory flood elevations and the boundaries of any floodplain area.
- (f) Drainage facilities on property lying downstream of other developable vacant land shall be sized to accommodate the pass through of the twenty-five-year postdeveloped or one-hundred-year predeveloped flow, whichever is greater. It shall be assumed that the vacant property will be developed at a similar density of the proposed development.
- (g) Proposed fill or other structure elevating techniques, levees, channel modifications and detention facilities;
- (h) The location and size of all existing and proposed drainage easements and areas;
- (i) Any computer software that is used must be approved by the city engineer prior to submitting a hydrologic study. If a computer program is not used to determine stormwater runoff, the rational method shall be used.
- (j) A minimum design storm of twenty-five (25) years must be used for all computations (excepting detention facilities and spillways).
- (k) Evidence that application for NPDES permit has been filed, where applicable, must be presented before a permit will be issued.
- (l) The minimum pipe size shall be fifteen (15) inches and in accordance with the specifications set out below.
- (m) Delineating and/or blue-lined streams as depicted on the USGS topographic maps.
- (n) The location of all public utilities and public utility easements on the site and adjacent to the site and an evaluation of what measures will be taken to insure that the

integrity, access, maintenance and usability of the utilities and easements by the public utility itself will be preserved.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-218. Land development: permit requirement.

- (a) *Generally.* Prior to any development on any property in the area, the developer or person in charge or control thereof shall make application to the city engineer and obtain a land development permit ("LDP") authorizing development on the property in accordance with the provisions of this article. If approval of construction plans by the city engineer are otherwise required, the LDP must be approved and issued prior to approval of construction plans.

All development activity on the property shall be under the supervision of a professional engineer or his/her designated representative employed by the person or contractor in charge or control of the site of the development. No development activity shall occur on any property in the area until a land development permit has been issued pursuant to the provisions hereof.

- (b) *Minimal Land Development Permit:* On a parcel of land less than one acre in size if in the opinion of the City Engineer only minor earth changes are required or to be made, he may issue a Land Development Permit for the Property with an application supported by a Land Development Plan that does not contain all the elements, features and requirements of a Land Development Plan as otherwise required herein.
- (c) *Applications for land development permits.*
- (1) A developer desiring to engage in development as herein defined in the area shall make application for a land development permit to the city engineer on a form provided for that purpose. The application shall be complete, signed and provide all information required. The application shall be supported and have attached thereto a land development plan as herein defined and contain all information and meet all requirements of this article. A complete application shall be submitted at least thirty (30) days prior to any planned development activity. An application will not be considered complete if any aspect of the land development plan or any supporting documents are not deemed sufficient by the city engineer or require further substantiation, revision or detail from the applicant.
 - (2) The city engineer will endeavor, within thirty (30) working days after receipt of a completed application for a land development permit, to approve, disapprove or request further information or clarification in regard to an application. If an application is disapproved, the applicant will be advised, either verbally or in writing, and the reasons therefor. If further information is needed, the city engineer will specify the kind of additional information required. Within ten (10) working days after receipt of such additional information, if the same results in a completed application, a final decision shall be made by the city engineer to approve or disapprove the application.
 - (3) Provided; however, the failure of the city engineer to approve, disapprove or request further information in regard to any application for land development permit shall not be construed as an approval thereof nor constitute a waiver of any requirement of this article.
 - (4) Provided further, however, that the city engineer shall not issue a land development permit upon or in regard to any property within the corporate limits of the city that is zoned riverfront development unless and until the city council has granted final approval to the development in accordance with the zoning ordinance pertaining to the Riverfront Development District and the issuance of any such permit shall be in accordance with such approval.

- (d) *Land development permit required.* It shall be unlawful for any person to engage in development of any property in the area without having a land development permit issued pursuant to the provisions of this article unless otherwise exempt. It shall be unlawful for any developer to engage in development activity in the area in a manner that is in violation of the terms and conditions of a land development permit or the provisions of this article.
- (e) *[Exceptions.]* Land development permits are not required for:
- (1) Emergency repairs of a temporary nature made on public or private property which are necessary for the preservation of life, health or property and which are made under such circumstances where it would be impossible or impracticable to obtain a land development permit.
 - (2) Temporary excavation for the purpose of installing, maintaining, or repairing any public street, public utility facility or any utility service lines.
 - (3) Agricultural activities.
 - (4) Any lot within a subdivision or planned unit development having received final plat approval in accordance with applicable subdivision regulations, zoning ordinances and approved by the city engineer.
 - (5) Driveways or driveway approaches. (Driveway permit required instead in accordance with the provisions hereof)
 - (6) Modifications, alterations or additions to an existing single-family dwelling.
 - (7) Development activity on a lot for a single-family dwelling unit if the lot is not within a flood hazard area.
- (f) *Relocation of utilities a condition of permit.* It shall be a condition of all land development permit or permit (LDP) or driveway land development permit—Permit (DLDP) that the person and/or permittee shall relocate and/[or] re-establish all public utilities or public facilities including water, sewer, drainage structures, gas, electricity, CATV cable, publicly owned facilities including fiber cable, streets, sidewalks, curbs, gutters, traffic signals or traffic control devices in accordance with the relevant owner's requirements and specifications at the person's or permittee's own expense.
- (g) The city engineer shall issue a placard to the developer indicating that a LDP has been issued. The developer shall prominently display the placard at the site that is the subject of the LDP.

(Ord. No. 7075, § 2, 5-22-07; Ord. No. 7254, §§ 2—4, 5-27-08; Ord. No. 7285, § 5, 7-29-08)

Sec. 21-219. Driveway land development: permit requirement.

- (a) *Permit required.* It shall be unlawful for any person to construct, reconstruct, alter, remove or replace any driveway approach, or any curb, guttering or sidewalk in connection therewith or to cause said work to be performed on any street or right of way within the corporate limits of the city without first applying for and receiving a driveway land development permit.
- (b) *Application for driveway land development permit.* Any person desiring to construct, reconstruct, alter, remove or replace any Driveway approach, or any curb, guttering or sidewalk in connection therewith or to cause said work to be performed on any street or right of way within the corporate limits of the city shall make application for a driveway land development permit (DLDP). The application shall contain such site, location and condition information as the city engineer shall deem necessary or desirable in order to determine whether or not the application is acceptable and in conformity with the provisions of this article. The application shall include a location/condition diagram, to be completed by the applicant, which shall depict the specific application of the standards and regulations of this

article. Unless the application is made by the owner of the property, authorized representative or contractor, no permit shall be issued for the work. Each applicant for such a permit shall certify as to their respective capacity to make application for such a permit. As a condition for the issuance of the permit, the applicant shall agree to indemnify and hold harmless the city, its employees and agents from any liability to person or property resulting from any act or omission of applicant in performing the work.

- (c) *Preapproved permits.* Driveway approaches serving single-family residential lots in platted subdivisions and PUDs are deemed preapproved as a DLDP once the City engineer has approved the subdivision plat or PUD plan. Provided; however, such preapproval of a DLDP shall not apply to certain lots in a subdivision or a PUD, if the city engineer has indicated in regard to the same, either thereon or by separate document, that a separate individualized DLDP is required for said lot due to potential access concerns. The building official of the city shall not issue a building permit for a structure on any lot in a subdivision or PUD in regard to which the city engineer has made such an indication of the requirement for a separate DLDP.
- (d) *Maintenance of driveway approach.* As a further condition for the issuance of a DLDP, the owner of the property shall agree that all maintenance of said driveway approach shall be the owner's responsibility or his successors, heirs and assigns. The city engineer may, by written notice to the owner, require maintenance of a driveway approach when he determines that said driveway approach fails to comply with any applicable municipal ordinances or regulations or poses a danger to the public. The owner shall obtain a DLDP as required herein and promptly perform maintenance work required by the order. As a condition of issuing a DLDP, the owner, his successors, heirs or assigns shall agree to indemnify and hold harmless the city, its employees and agents from all liability to property or persons resulting from the owner, his successors, heirs or assigns failing to maintain the driveway approach.
- (e) *State highway system.* Permits granted by the Alabama Department of Transportation for any driveway approach work on any highway maintained by the state within the corporate limits shall be subject to approval of the city engineer in accordance with the terms and conditions herein but consistent with state regulations.
- (f) *Existing driveway approaches.* Whenever the city engineer shall find that an existing driveway approach was constructed contrary to the standards which were required at the time the driveway approach was constructed or presents a hazard to the public or to persons traveling upon the abutting roadway, the same is hereby declared to be a public nuisance and he may, by written order, direct that:
- (1) The owner of the property which such driveway approach serves to remove the driveway approach and restore the curb or,
 - (2) Alter the driveway approach if it might thereby be corrected to comply with the present ordinance or,
 - (3) The driveway approach be relocated to safely serve the parcel of land or,
 - (4) The driveway approach be reconstructed so as to minimize the hazard to persons traveling upon the abutting roadway,
 - (5) Request the chief building official initiate demolition proceedings pursuant to Code of Ala. 1975 § 11-53B-1 et seq.

The written order shall set forth the reasons for its issuance and shall advise the owner as to the nature of the work he should perform, giving not less than thirty (30) nor more than sixty (60) days time for the completion thereof.

(g)

Removal of abandoned driveway approaches. Whenever a driveway approach has been abandoned, either by closing the entrance to the property served or by changing the use of the property served so that the driveway approach is no longer necessary or usable, it shall be the duty of the owner of the property served by said approach to remove the driveway approach, restore sidewalk, curb, gutter and street to the line and grade of the adjoining sidewalk, curb, gutter and street within thirty (30) days after receiving a written order for removal from the city engineer.

- (h) *[Service of order.]* Any written order required or given under the provisions of this Section may be served on the owner of record or the person to whom the permit was issued by personally delivering a copy thereof to such person or by mailing a copy thereof certified registered mail to the owner's last known address; and if there should be more than one owner, then by such service upon each of them. In the event the owner is unknown, or his whereabouts unknown, the city engineer shall post the order on the parcel of land where the violation occurs or where the driveway approach is to be removed or altered. Should the owner of the abutting property fail to perform the work specified in the order within the time specified therein, the city engineer may cause the work required in these orders to be performed and seek reimbursement for all such cost.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-220. Waiver of certain technical specifications.

In the issuance of driveway or land development permits pursuant to and as required by this article, the city engineer shall issue the same based upon applications which are in compliance with the requirements of this article but, while substantively in compliance, are not fully or strictly in compliance with all the rules, regulations and technical specifications promulgated by the city engineer for such permits when:

- (1) It is necessary to implement the purposes of this Article;
- (2) Conditions exist which were not accounted for or adequately addressed by said standard plans, specifications, and rules and regulations; and
- (3) The deviation or variance is not substantive and is noted on the permit along with the reasons therefore.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-221. Erosion control required generally.

Notwithstanding the fact that development activity on the property may be exempt from the requirements of a LDP or DLDP pursuant to the provisions of this article, any person causing any development, any earth change or constructing or reconstructing a driveway approach on any property, regardless of size, within the area shall take the necessary erosion control measures, utilizing best management practices, to provide for sedimentation facilities that prevent erosion and/or sedimentation in or upon city streets, public rights-of-way, public storm drainage facilities or public easements, public utilities, public water reservoirs, creeks, rivers and streams and/or property of others.

(Ord. No. 7075, § 2, 5-22-07; Ord. No. 7254, § 7, 5-27-08)

Sec. 21-222. Inspections.

The city engineer may inspect any work on a driveway approach or development activity or any work in connection therewith pursuant to a permit issued in accordance with this article to determine that such activities are in accordance with the provisions of this article; except that when DLDPs were preapproved by the city engineer in single-family residential subdivisions, the building official or his designated representative shall be responsible for providing the required inspections. Such preapproved DLDPs shall be constructed and ready for inspection at the same time as the structure's "final inspection" required before the issuance of a certificate of occupancy by the building official.

(Ord. No. 7075, § 2, 5-22-07)

Sec. 21-223. Enforcement and penalties.

- (a) If at any time development occurs on any property in the area or construction of a driveway approach not consistent with the requirements of the LDP or DLDP or the provisions of this article, a written notice to comply and/or to stop work may be given by the city engineer stating the nature and location of the alleged noncompliance and specifying what remedial steps are necessary to bring the matter into compliance and, at the option of the city engineer, ordering that all development activity or construction or reconstruction of driveway approaches cease. It shall be unlawful for a person or developer to continue to engage in development or construction or reconstruction of driveway approaches after the issuance of a stop work order by the city engineer or for the person or developer to fail or refuse to take the remedial measures necessary to bring the activity into compliance within the time required. In addition, the city engineer may request the office of the city attorney to pursue civil sanctions and remedies against the developer.

The chief of inspection services or any of his inspectors, the director of the department of transportation and any of her designated representatives, the director of the water and sewer department and any of his designated representatives, the director of the department of planning and economic development and any of his designated representatives and the director of environmental services and any of his designated representatives may also issue stop-work orders under the same circumstances, provided; however, if such a stop-work order is issued, the city engineer shall be notified.

- (b) Any person or developer who shall engage in development activity or construct or reconstruct any driveway approach in violation of the provisions of this article or technical requirements promulgated by the city engineer and adopted by reference herein or who shall refuse to obey any lawful order given by the city engineer in relation thereto shall be guilty of a misdemeanor punishable pursuant to section 1-8 of the City Code.
- (c) It shall be unlawful for any person, property owner or developer to allow or permit the accumulation or discharge of dirt, silt, mud, debris, sedimentation or earth materials (sediment or sedimentation) onto property of others, city streets, rights-of-way and/or city storm drainage easements or facilities, public water reservoirs, creeks, rivers and streams due to the failure to provide or maintain adequate sedimentation or erosion control facilities.
- (d) It shall be unlawful for any person, property owner or developer to engage in earth moving or grading activity or any other development activity that in any manner impairs, impedes or interferes with the operation or maintenance of public utilities or public utility easements or to allow or permit the accumulation or discharge of dirt, silt, mud, debris, sedimentation or earth materials (sediment or sedimentation) over or upon public utilities or public utility easements in such a manner as to impair, impede or interfere with the operation or maintenance of a public utility or public utility easement.
- (e)

It shall be unlawful for any person, property owner, permittee or developer to fail to relocate and/re-establish all public utilities or public facilities including water, sewer, drainage structures, gas, electricity, CATV cable, publicly owned facilities including fiber cable, streets, sidewalks, curbs, gutters, traffic signals or traffic control devices in accordance with the relevant owners requirements and specifications.

- (f) In addition to any criminal or civil action the city may take in regard to such prohibited activities, any person, Developer or property owner who fails to comply with the erosion control requirements of this article or allows sedimentation, erosion and/or siltation to occur on city streets, rights-of-way, public water reservoirs, creeks, rivers and streams and/or city storm drainage easements or facilities will be in violation of the this article and the city engineer may give said developer, person or property owner written notice to remove any sedimentation within a stated number of days. If any developer, person or property owner fails to remove said sedimentation and restore said city streets or rights-of-way, public water reservoirs, creeks, rivers and streams after such written notice is provided by the city engineer, the city may take action to remove said sedimentation and restore said streets or rights-of-way, public water reservoirs, creeks, rivers and streams and require said developer, person or property owner to pay all cost of said removal and restoration. Emergency situations may require immediate cleanup (without notice to the person or property owner) and the city engineer may direct that city crews remediate the sedimentation and invoice the person or property owner.

(Ord. No. 7075, § 2, 5-22-07; Ord. No. 7254, § 8, 5-27-08)

Sec. 21-224. Technical specifications.

The city engineer is hereby authorized and directed to develop and promulgate all necessary rules and regulations of technical specifications and design criteria relating to any permit authorized to be issued by this article and not in conflict with any term or condition of this article and to cause the same to be printed in book or pamphlet form for adoption by the city council in accordance with Code of Ala. 1975 § 11-45-8(c).

(Ord. No. 7075, § 2, 5-22-07)

Secs. 21-225—21-235. Reserved.

Kevin Turner

From: Kevin Turner
Sent: Tuesday, July 09, 2013 2:08 PM
To: Clif Penick; 'fsummers@walkercivil.com'
Cc: Josh D. Yates
Subject: Verbal Warning Issued for Environmental Services Building at 35th Str/Kauloosa Ave
Attachments: Environmental Services Building (1).JPG; Environmental Services Building (4).JPG

A Verbal Warning has been issued for the Environmental Services Building construction site at the northwest corner of the intersection of 35th Street and Kauloosa Avenue. As you can see from the attached photos, the exit pads on the east and south side of the construction site need to be updated. Sediment has been tracked off site in both areas. Also, the silt fence on the west side of the site has been overtaken in at least one area and sediment has entered the adjoining drainage ditch. Please have the contractor address the BMP failures within the next 24 hours or a Corrective Action Notice will be issued, which could be followed by a Stop Work Order. Feel free to contact me if you have any questions.

Thanks,

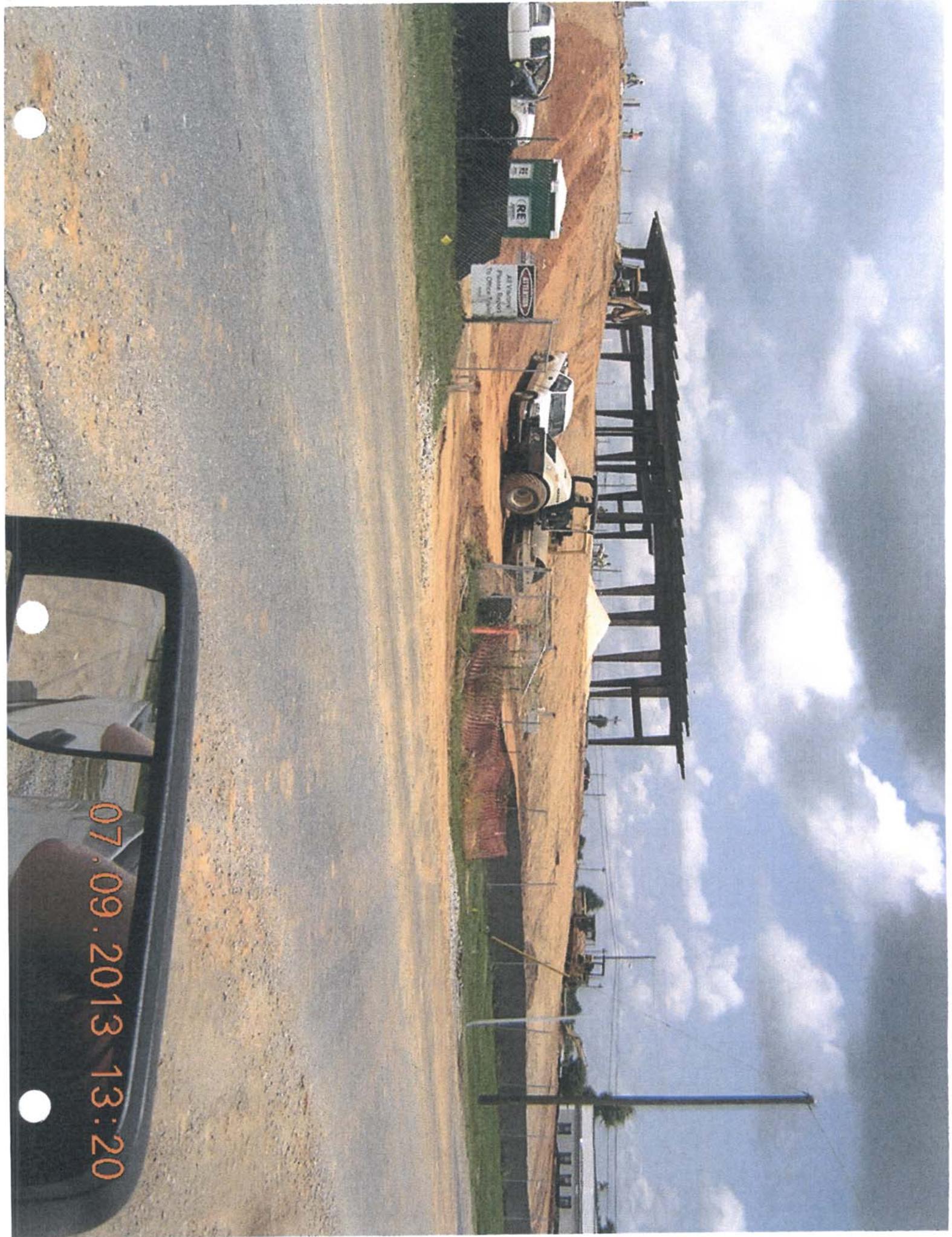
Kevin Turner

Stormwater Engineering Inspector
City of Tuscaloosa
Office of the City Engineer
(205) 248-5880 – office
(205) 534-0299 – cell



"The opinions expressed here are my own and do not necessarily represent those of the City of Tuscaloosa. This message may contain confidential and/or proprietary information and is intended for the person/entity to whom it was originally addressed. Any use by others is strictly prohibited."

07.09.2013 13:20





07.09.2013 13:18

Kevin Turner

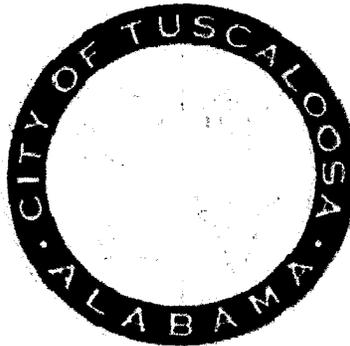
From: Kevin Turner
Sent: Friday, March 28, 2014 7:34 AM
To: douglasfletcher@comcast.net; acabaniss@cabanisseng.com
Cc: Josh D. Yates
Subject: Correction Notice Issued for 1400 13th Street
Attachments: DSCN1014.JPG; DSCN1015.JPG; DSCN1016.JPG; DSCN1018.JPG; DSCN1019.JPG

A Correction Notice has been issued for the construction site at 1400 13th Street. As you can see from the attached pictures, sediment is leaving the site in multiple areas. There are holes in the silt fence and a disturbed hillside. A Verbal Warning was issued on March 18th and I spoke with Mr. Ricky Whatley on Monday, March 24th about the issues with this site. Mr. Whatley told me they would be taken care of before the next rain. Nothing has been done to address these issues as of this morning. A Stop Work Order will be posted Monday, March 31st if these BMP issues have not been addressed. Feel free to contact me if you have any questions.

Thanks,

Kevin Turner

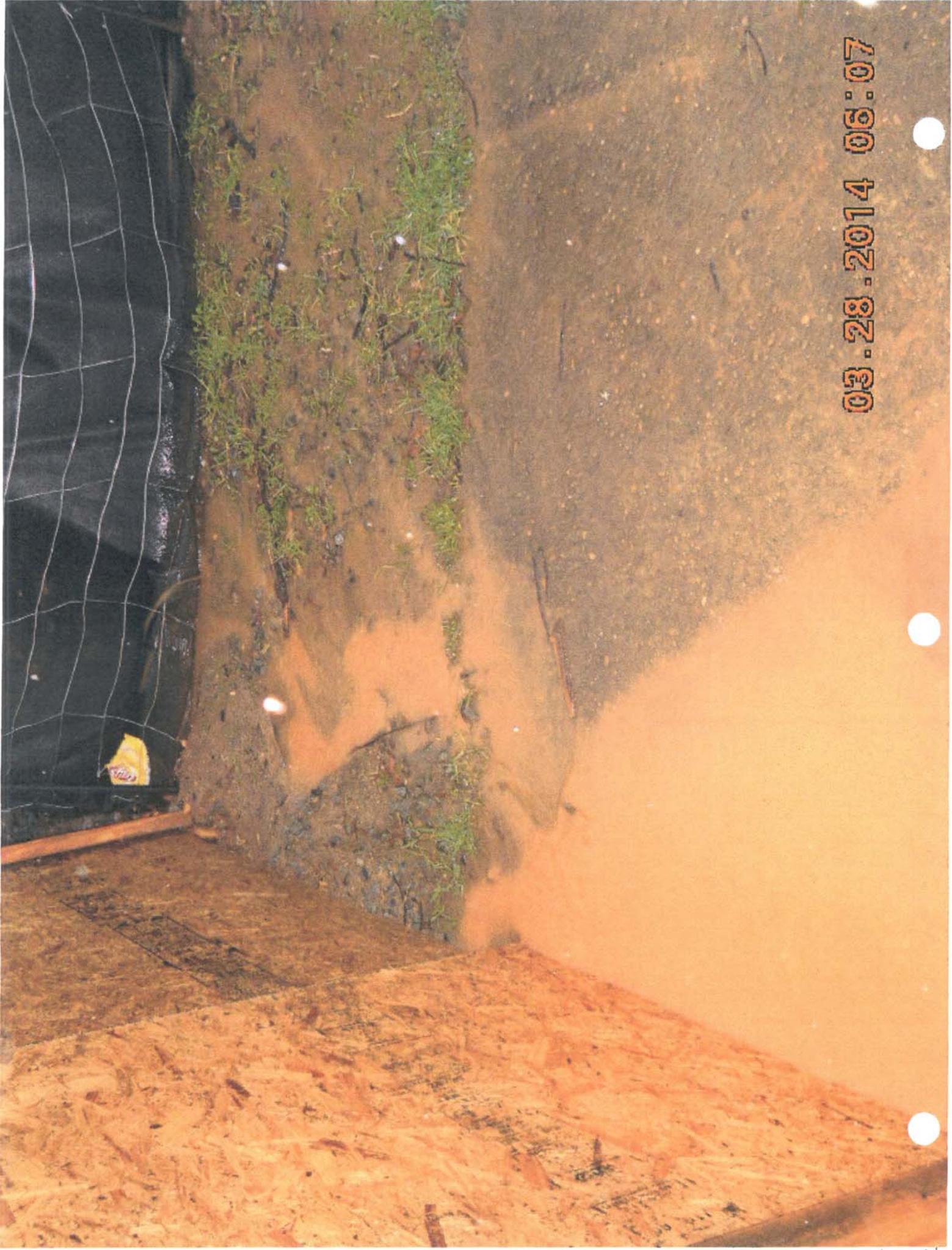
Stormwater Engineering Inspector
City of Tuscaloosa
Office of the City Engineer
(205) 248-5880 – office
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03-28-2014 06:07





03.28.2014 06:07



03.28.2014 06:07



03.28.2014 06:09



03.28.2014 06:09

Kevin Turner

From: Josh D. Yates
Sent: Wednesday, June 19, 2013 8:37 AM
To: 'petroamerica@bellsouth.net'; 'bryant@thirtyoneinc.com';
'bryan@pressnellengineering.com'
Cc: Kevin Turner; Chad Christian; David Griffin
Subject: Stop Work Order Issued for Petro Gas Station LDP # 2083
Attachments: Petro Gas Station (26).JPG; Petro Gas Station (30).JPG; Petro Gas Station (31).JPG

A Stop Work Order is hereby issued for the Petro Gas station at the Northeast corner of Kicker Rd. and Veterans Memorial Parkway intersection. As you can see from the photos, sediment has left the site and needs to be cleaned up and brought back to the site. The silt fence shown in the photo was not installed correctly and needs to be addressed along with other BMP failures. Why have the graded slopes behind the retaining wall not been vegetated? Erosion and sediment control is the only item that shall be worked on until the stop work order is lifted. This site has had three verbal warnings and a correction notice. Also, the stormwater detention system will need to be cleaned and free of any mud/sediment prior to a CO being issued. Contact me when the above items are addressed and if corrected, I will lift the stop work order.

Thanks,

Josh Yates, CFM
Engineering Environmental Compliance Coordinator
City of Tuscaloosa
Office of the City Engineer
(205)248-5893



"The opinions expressed here are my own and do not necessarily represent those of the City of Tuscaloosa."

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06.19.2013 07:35





06.19.2013 07:37



06.19.2013 07:37

Construction Sites

<u>File</u>	<u>Date</u>	<u>Location</u>	<u>District</u>	<u>Description of Violation</u>	<u>Action Taken</u>
C-1		UA	4	Paint & floatables discharging into the river	Conducted meeting with UA & contractors to discuss BMP's on 7/24.
C-2	19-Jul-12	Tractor Supply Patriot Parkway	2	Mud/dirt in the street due to lack of exit pad	Talked with engineer and on site superintendent.
C-3	26-Jul-12	The Province 1104 Hillard Dr.	4	No storm drain inlet protection.	Corrective action notice issued 7/26. Talked with engineer and on site superintendent.
	30-Jul-12	The Province 1104 Hillard Dr.		Dirt on paved areas needed sweeping/cleaned. A lot of trash on site that can get into stormwater inlets.	Contractor brought in for BMP training.
C-4	1-Aug-12	Bojangles/AutoZone 5 Points/Cottondale	5	Sediment being tracked onto Univ. Blvd. & Old Cottondale Rd.	Verbal warning. Engineer also e-mailed contractor
	10-Aug-12	Bojangles/AutoZone 5 Points/Cottondale		Sediment being tracked onto Univ. Blvd. & Old Cottondale Rd.	Verbal warning to contractor and e-mail sent to engineer.
C-5	8-Aug-12	Rock Point Estates 513 13th Street	4	No erosion control devices present. Mud tracked out onto 6th Ave.	Corrective Action Notice issued to both sites. Notice lifted on 8/13 for both sites. BMP training 8/22.
	2-Oct-12			Mud/dirt being tracked onto the street due to lack of exit pad.	Talked with Graves Watkins (contractor) and gave verbal warning.
C-6	16-Jul-13	Houndstooth Carwash McFarland	3	Mud/dirt being tracked onto Hackberry.	Corrective Action Notice issued 10/2. Notice lifted 10/3.
C-7	13-Aug-12	18th Street sidewalk - Forest Lake	2	Exit pad was covered in mud which was tracking into the street.	Verbal warning to contractor (Graves Watkins)
C-8	14-Aug-12	Jamestown Villas 6th Street East	5	Mud/dirt in the curb/gutter from lack of BMP's on road.	Told on site superintendent to get pad cleaned or lay a new pad. New pad was laid.
C-9	16-Aug-12	Residences at City Lot - Univ. Blvd	1	Not enough vegetation and turbid water leaving the site.	Josh talked to BKI and issued a verbal warning.
	16-Aug-12			No inlet protection and sediment leaving the site.	Stop Work Order posted 5/17/12. Stop Work Order lifted 5/30/13.
	28-Dec-12			Sediment leaving site due to failure to maintain BMP's.	Corrective Action Notice issued 8/16. Notice lifted 8/23. No BMP training due to contractor leaving town. Corrective Action Notice issued 8/16. Stop Work Order issued 9/7. Stop Work Order/Corrective Action Notice lifted 9/10.
					Verbal warning to engineer (Al Cabaniss)

C-25	20-Dec-12	Cheddar's Café 900 Skyland Blvd. E	6	Sediment leaving site. Silt fences failing. 2" of mud has entered Chili's dumpster area.	Corrective Action Notice issued 12/20. Notice lifted 12/28.
C-26	7-Dec-12	Horton's Truck Serv. 5860 Old Mtgy. Hwy.	7	No LDP, filling in a floodway/flood hazard area.	Stop work order posted 12/7.
C-27	10-Dec-12	Fields Crossing	PJ	No BMP's in place. This has caused the sewer lift station to fill with sediment and mud.	Referred to Ronnie Pugh per Chad Christian. Verbal warning to contractor (Graves Watkins) Corrective Action Notice issued 12/26. Notice lifted 12/28.
C-28	21-Dec-12	Parker Drug 501 15th Street E	2	Mud/dirt being tracked off site. No entrance/exit pad.	Corrective Action Notice issued 12/27. Notice lifted 1/10.
C-29	27-Dec-12	Hoo's BBQ 101 15th Street	2	Sediment entering storm drain. No entrance/exit pad. Silt fences failing.	Corrective Action Notice issued 12/27. Notice lifted 1/10.
C-30	27-Dec-12	Central Church of Christ 304 Hargrove Road	2	Inlet protection missing/failing. Silt fences failing.	Corrective Action Notice issued 12/27. Notice lifted 12/31.
C-31	26-Dec-12	Alberta Baptist Church 2210 University Blvd.	5	No inlet protection.	Corrective Action Notice issued 12/26. Notice lifted 12/27.
C-32	27-Dec-12	Gilda's 19 15th Street	2	Stockpile uncovered. No inlet protection.	Verbal warning to contractor. (Rushing Construction)
C-33	27-Dec-12	Masonic Temple 110 Hargrove Road	2	Sediment leaving site. Failure to maintain BMP's.	Verbal warning to contractor. (Harrison)
	27-Dec-12			Sediment leaving site. Failure to maintain BMP's.	Verbal warning to on site superintendent.
	9-May-13			Sediment leaving site.	Verbal warning to owner and engineer. (Via e-mail)
	4-Jun-13			Silt fence down in multiple areas, sediment leaving site.	Verbal warning to on site superintendent. (J.J.)
C-34	7-Jun-13	Cedar Crest Village 324 15th Street E	4	Silt fence down in multiple areas, sediment leaving site.	Verbal warning to owner and engineer. (Via e-mail)
	27-Dec-12			Sediment leaving site. Failure to maintain BMP's.	Verbal warning to engineer. (Ron Henderson)
	5-Mar-13			Sediment leaving site.	Corrective Action Notice issued 3/5. Notice lifted 3/11.
	11-Jun-13			Sediment leaving site. Failure to maintain BMP's.	Corrective Action Notice issued 6/11.
C-35	19-Jun-13	Crimson Village 1402 18th Ave. E	5	Sediment leaving site. Installed BMP's are not sufficient.	Corrective Action Notice continued. Notice lifted 6/24.

C-36	27-Dec-12	Public Safety Building 3440 Kauloosa Ave Career & Tech. High School	2	Failure to maintain BMP's. Improper inlet protection.	Verbal warning to engineer. (Doug Varnon)
C-37	3-Jan-13	2800 MLK Jr. Blvd Wood Square	1	Mud/sediment leaving site.	Verbal warning to engineer & contractor. (Mike Gardiner & Harrison)
C-38	10-Jan-13	1309 McFarland Blvd. E	5	Mud/sediment leaving site.	Verbal warning to engineer & contractor. (Gonzalez-Strength & CEI)
	25-Jan-13			Mud/sediment leaving site.	Verbal warning on site superintendent. Corrective Action Notice issued 1/31. Notice lifted 2/5.
	19-Jun-13			Mud/sediment leaving site.	Verbal warning to contractor. (Brian Hurd)
C-39	20-Jun-13	1100 & 1104 13th Street	4	Lack of BMP's.	Corrective Action Notice issued 6/20. Notice lifted 6/21.
	25-Jan-13			Insufficient exit pad. Mud/sediment leaving site.	Verbal warning on site superintendent.
	1-Mar-13			No onsite inlet protection.	Verbal warning on site superintendent.
	15-Apr-13			Sediment leaving site.	Verbal warning via e-mail to owner, engineer & contractor.
	6-Jun-13			Sediment leaving site. Mud entering adjoining property owners' yards.	Corrective Action Notice issued 6/6.
	19-Jun-13	Petro Gas Station 1902 Veterans Mem. Parkway		Sediment leaving site. Improperly installed BMP's.	Stop Work Order issued 6/19. Stop Work Order/CAN lifted 7/12.
C-40	18-Sep-13		5	No inlet protection. No BMP's on uncovered soil.	Verbal warning via e-mail to owner, engineer & contractor.
	25-Jan-13	Forest Lake Townhomes Forest Lake Dr & 16th Street E		No exit pad. Mud/sediment leaving site.	Verbal warning on site superintendent.
	27-Feb-13		2	Mud/sediment leaving site. Failure to maintain erosion control devices. Adjacent lay down yard needs BMP's installed.	Corrective Action Notice issued 1/28. Notice lifted 1/28. Corrective Action Notice issued 2/27. Stop Work Order issued 3/5. Stop Work Order/CAN lifted 3/7.
	31-Jan-13			No BMP's. Mud/sediment leaving site.	Corrective Action Notice issued 1/31. Notice lifted 2/5.
	19-Jun-13			Mud/sediment leaving site. No exit pad/lack of perimeter control on 13th Street	Corrective Action Notice issued 6/19.

C-42	20-Jun-13	1005 13th Street	4	Mud/sediment leaving site. No exit pad/lack of perimeter control on 13th Street	Stop Work Order issued 6/20. Stop Work Order & CAN lifted 6/20.
C-43	31-Jan-13	1021 Convent Street	4	No exit pad. Mud/sediment leaving site.	Corrective Action Notice issued 1/31. Notice lifted 2/19.
C-44	1-Feb-13	Alabama One CU 70 Skyland Blvd.	7	Inlet protection needed.	Verbal warning to engineer. (Josh Rogers)
	1-Feb-13			No exit pad. Mud/sediment leaving site.	Corrective Action Notice issued 2/1. Notice lifted 2/6.
C-45	26-Apr-13	Cloverdale Lots 23, 25 & 27	4	Failure to maintain BMP's. Sediment leaving the site.	Verbal warning to on site superintendent. Also e-mail sent to owner and engineer.
C-46	5-Feb-13	908 13th Street	4	No BMP's. Mud/sediment leaving site.	Corrective Action Notice issued 2/5. Notice lifted 2/6.
	5-Feb-13			Sediment leaving site. Inlet protection needed. Broken storm drain pipe exposed.	Corrective Action Notice issued 2/5. Notice lifted 2/6.
	19-Feb-13			Sediment leaving site due to insufficient exit pads.	Corrective Action Notice issued 2/19. Notice lifted 2/21.
	26-Apr-13			Failure to maintain BMP's. Trash/debris in temporary storm drain.	Verbal warning issued via e-mail. (Owner, contractor, engineer.)
C-47	15-May-13	Old Row at Cloverdale	4	Sediment leaving site on both ends of the site at the exits.	Verbal warning issued via e-mail. (Owner, contractor, engineer.)
C-48	7-Feb-13	37 Cloverdale Road	4	Sediment leaving site due to insufficient exit pad.	Corrective Action Notice issued 2/7. Notice lifted 2/10.
	19-Feb-13			Sediment leaving site due to insufficient exit pad.	Corrective Action Notice issued 2/19. Notice lifted 2/21.
C-49	26-Apr-13	29 Meador Drive	4	Insufficient exit pad. Mud/sediment leaving site.	Verbal warning issued via e-mail. (Owner, contractor, engineer.)
C-50	26-Feb-13	705 13th Street	4	Sediment leaving site.	Corrective Action Notice issued 2/26. Notice lifted 3/1.
C-51	27-Feb-13	5900 McFarland Blvd. E	7	No LDP. No BMP's.	Stop Work Order issued 2/27. No plan received. Owner removed soil & hayed site. Will check back later for vegetation.
C-52	5-Mar-13	Thornton Welding Burchfield Drive	1	Sediment leaving site. (Also, concrete scrap pieces being placed into ditch beside property.)	Corrective Action Notice issued 3/5. Notice lifted 3/6.
C-53	23-Apr-13	Soma Church 212 44th Court NE	5	Sediment leaving site at playground area.	Verbal warning to pastor. (Shaun Faulkner)

C-54	26-Apr-13	518 Wesley Place	4	Paint left the site and was on the curb. No perimeter control.	Verbal warning to engineer and property owner. (Via e-mail)
C-55	7-May-13	496 Wesley Place	4	Silt fence down and insufficient exit pad.	Corrective Action Notice issued 5/7. Notice lifted 5/9.
C-56	9-May-13	28 Cloverdale	4	Sediment leaving site due to insufficient exit pad.	Verbal warning to owner and engineer. (Via e-mail)
	10-Jun-13			Insufficient exit pad. Mud/sediment leaving site.	Verbal warning to owner and engineer. (Via e-mail)
C-57	11-Jun-13	Rock Point Units 1214 Bryant Drive	4	Insufficient exit pad. Mud/sediment leaving site.	Corrective Action Notice issued 6/11. Notice lifted 6/12.
C-58	11-Jun-13	Hurricane Creek Trace 6th Street East Environmental	5	No exit pad. Mud/sediment leaving site.	Verbal warning to owner, engineer & contractor. (Via e-mail)
C-59	9-Jul-13	Services Building 35th Str/Kauloosa	2	Insufficient exit pad. Mud/sediment leaving site. Silt fence failing.	Verbal warning to owner and engineer. (Via e-mail)
C-60	10-Jul-13	318 Wesley Place	4	Insufficient exit pad. Mud/sediment leaving site. Silt fence failing.	Corrective Action Notice issued 7/10. Notice lifted 7/12.
C-61	12-Jul-13	ZF Industries Commerce Drive	1	Failing silt fence. Sediment leaving site.	Verbal warning to owner and engineer. (Via e-mail)
		Green Bear Development Bryant Dr./			
C-62	29-Jul-13	Greensboro Ave.	4	Mud/sediment leaving site due to insufficient exit pad.	Verbal warning to owner and engineer. (Via e-mail)
C-63	29-Jul-13	Townes of North River Phase VII	3	Mud/sediment leaving site.	Verbal warning to owner and engineer. (Via e-mail)
	14-Aug-13			Various BMP and erosion control issues on multiple residential lots.	Corrective Action Notice issued 8/13. Stop Work Order issued 8/15. Lots released individually. Last one released on 8/20.
C-64	22-Feb-14	Townes of North River	3	Various BMP & erosion control issues in undeveloped areas of the property.	Verbal warning to contractor. (Via e-mail & phone conversation)
C-65	17-Jul-13	Shadesbrook subdivision	7	Fill dirt being brought in with no BMP's or LDP in place.	Stop Work Order issued 7/17. Stop Work Order lifted 7/23.
	1-Oct-13			Mud/sediment leaving site due to insufficient exit pad. Lack of proper perimeter control.	Verbal warning to owner and engineer. (Via e-mail)

C-66	18-Mar-14	1400 13th Street	4	Mud entering 13th Street due to a disturbed hillside.	Verbal warning to on-site superintendent. Verbal warning also sent to owner and engineer. (Via e-mail)
C-67	21-Oct-13	2204 Greensboro Ave	2	No BMP's on site.	Verbal warning to engineer. (Via e-mail.)
C-68	18-Nov-13	Panda Express 636 15th Str. E	4	Mud/sediment leaving site due to insufficient exit pad. Inlet protection missing.	Verbal warning to on-site superintendent.
C-69	9-Dec-13	Tusc. Credit Union 2925 Skyland Blvd E	7	Failing silt fence. Sediment leaving site.	Verbal warning to engineer. (Via e-mail.)
	26-Dec-13			Sediment leaving site. Multiple BMP failures.	Corrective Action Notice Issued 12/26. Notice lifted 12/31.
C-70	22-Feb-14	Acadian Place Phase III	3	Sediment leaving site. Multiple BMP failures.	Corrective Action Notice Issued 2/22. Notice lifted 2/25.
C-71	2-Jan-14	303 15th Street E	2	Mud/sediment leaving site.	Verbal warning to engineer. (Via e-mail.)
		Transamerican Equipment			
C-72	5-Mar-14	2500 Greensboro Av	2	Bare soil for longer than 14 days.	Verbal warning to owner/engineer. (Via e-mail)
C-73	20-Mar-14	4605 Hargrove Rd E	PJ	Failed inlet protection, no exit pad.	Corrective Action Notice issued 3/20.
C-74	24-Mar-14	Old Row at Cloverdale II	4	Insufficient exit pad. Sediment leaving site.	Verbal warning to owner, engineer & contractor. (Via e-mail)

Municipal Sites

<u>File No.</u>	<u>Date</u>	<u>Location</u>	<u>Description of Violation</u>	<u>Action Taken</u>
M-1	19-May-12	Ed Love Water Plant	4,000 gallon sodium hypochlorite tank spilled causing unknown amount of NaOCl to enter storm drain	None. Was not notified. Talked with David Hartin so we will be notified on future spills.
M-2				
M-3				
M-4				
M-5				
M-6				
M-7				
M-8				
M-9				
M-10				
M-11				

Reported Spills

<u>File</u>	<u>Date</u>	<u>Location</u>	<u>District</u>	<u>Description of Spill</u>	<u>Action Taken</u>
R-1	25-Jul-12	RaceTrac 940 15th Street E	5	Fire dept. reported petroleum spill in parking lot.	Fire dept. said they contained & cleaned spill. No sign of spill once Kevin got to the site.
R-2	14-Aug-12	2109 Forest Lake Dr.	2	Paint washed into stormdrain inlet and was discharging into Cribbs Mill Creek tributary No. 1.	Talked to resident and informed him that dumping any materials into stormdrain is illegal.
R-3	17-Aug-12	Residences @ City Lot 2128 Univ. Blvd.	1	Hose broke on truck hauling dumpster which spilled hydraulic fluid into the street. Estimated 3-4 gallons entered stormdrain	Contractor stopped flow of fluid with sand. EMA was notified.
R-4	24-Aug-12	Veterans Mem. Pkwy at 13th Ave. E	5	Paint spill on road. No responsible party identified. Minimal amount reached storm drain.	Investigated & documented.
R-5	21-Aug-12	Acadian Place	3	Dried paint on gutter leading to storm drain.	Investigated & documented.
R-6	9-Oct-12	Buttermilk Road & I 59/20	6	Tanker truck overturned spilling 3000 gallons of biodegradable cleaning solvent DDE-4.	Investigated & documented.
R-7	26-Feb-13	Peco 3701 Kauloosa Ave	2	Sewage backup.	Investigated & documented.
R-8	4-Apr-13	10th Ave & Meadowlawn	2	Wreck involving front end of semi. Estimated 5 gallons entered storm drain.	Investigated & documented.
R-9	17-Jun-13	Hunt Oil	1	Oily wastewater was spilled into Black Warrior River.	Received report from EMA & Hunt Oil.
R-10	30-Sep-13	10th Ave & 359 ramp	2	18 wheeler saddlebag fuel tanks ruptured spilling approximately 150 gallons of diesel fuel onto roadway and potentially into storm drain.	Investigated & documented.
R-11	1-Oct-13	MLK Blvd.	PJ	Asphalt truck overturned spilling hot mix & diesel fuel.	Investigated & documented.
R-12	18-Dec-13	15th Street @ 359 off ramp	2	18 wheeler overturned at intersection and 2-3 gallons of diesel fuel entered storm drain, but not pipe.	Investigated & documented.
R-13	6-Nov-13	Wood Village Mobile Home Park	PJ	Intentionally discharging raw sewage from damaged lift station into storm drain.	Investigated & filed charges against responsible person.
R-14	6-Feb-14	Coral Industries 3010 Rice Mine Rd	PJ	Discharging raw sewage into tributary that leads to Black Warrior River.	Investigated & spoke with Coral officials.
R-15	28-Feb-14	Margaret Drive behind Campus Dr Parking Deck	4	UA bus fuel tank ruptured. Minimal diesel fuel entered storm drain.	Investigated & documented.

Tuscaloosa, Alabama, Code of Ordinances >> - CODE >> Chapter 24 - ZONING >> ARTICLE XIX.
LANDSCAPE AND BUFFER REQUIREMENTS >>

ARTICLE XIX. LANDSCAPE AND BUFFER REQUIREMENTS

Sec. 24-250. Statement of intent.

Sec. 24-251. Applicability.

Sec. 24-252. Definitions.

Sec. 24-253. Landscape plan submittal requirements

Sec. 24-254. General requirements

Sec. 24-255. Landscaping requirements.

Sec. 24-256. Tree preservation and off-street parking credits.

Sec. 24-257. Compliance.

Sec. 24-258. Alternative compliance.

Sec. 24-259. Landscaping requirements for urban areas.

Sec. 24-260. Maintenance.

Sec. 24-261. Approved tree list.

Sec. 24-262. Legal aspects, other regulations.

Sec. 24-263. Penalty for violation.

Sec. 24-264. Effective date.

Secs. 24-265-24-279. Reserved.

Sec. 24-250. Statement of intent,

- (a) *[Trees and landscaping.]* This article recognizes the importance of trees and landscaping throughout the city and their relationship with the economic, ecological and cultural processes that give Tuscaloosa its tradition and identity. Through preservation, replacement, and maintenance of the urban forest, this article will provide a better quality of life for the citizens of Tuscaloosa while promoting the stability of residential neighborhoods making them more livable and desirable, and educating the public in the areas of preservation and conservation of the natural processes that exist within the city.

Urban landscaping aids in preventing soil erosion, siltation of streams and reservoirs and flood damage. Trees are valuable in providing shade and cooling effects, in preventing air and noise pollution, as well as preserving the character of the city.

- (b) *[Purpose of article.]* The purpose of this article is:
- (1) To promote the public health, safety and welfare by decreasing incompatibility between adjacent uses, by establishing a buffer between residential and business uses and by preserving property values;
 - (2) To make Tuscaloosa, Alabama, a more attractive and healthy environment in which to live, and better control noise, glare and heat;
 - (3) To preserve, protect and maintain the health of existing vegetation, encourage the incorporation of plant materials, especially native plants, and ecosystems into landscape design where possible and discourage the proliferation of invasive species of plants;
 - (4)

- To establish and maintain the maximum sustainable amount of tree cover on public and private lands in the city;
- (5) To promote the character of the city by encouraging aesthetically pleasing sustainable designs of commercial, industrial and residential areas while still allowing for innovative, diverse and cost-conscious approaches to the design, installation and maintenance of the landscape;
 - (6) To promote the conservation of the local waterways and aquifers by encouraging the planting of local plant species or site specific species when possible, providing means for natural aquifer recharge; preventing excess runoff by containing the maximum amount of water on site possible and facilitating compliance with state and federal legislation relative to water and air quality, including the Clean Air Act (42 U.S.C. § 7401, et seq.) and the Clean Water Act (33 U.S.C. § 1251, et seq.).
- (c) *Scope.* This article does not contain all the regulations and requirements for development activities, design and construction nor does approval of a landscape plan pursuant to the provisions herein serve as a substitute for obtaining and complying with all other applicable city ordinances, building and related codes, zoning restrictions, and other applicable regulations. Without limiting the generality of the foregoing development activities may also require building and related technical permits and inspections, compliance with zoning and subdivision ordinances and regulations. Municipal utilities for water and sewer require compliance with separate ordinances and policies of the water and sewer department of the city.

(Ord. No. 7396, 3-24-09)

Sec. 24-251. Applicability.

- (a) *Property affected by this article.*
 - (1) All property located within the corporate limits of the city.
 - a. The provisions of this article shall apply to all new construction, development, redevelopment, or change of use for any multifamily residential, commercial, industrial, or other nonresidential use and shall become applicable to any property for which a land development permit is required. The requirements shall remain applicable at all times once the property has become subject to these provisions.
- (b) *Landscape plan required.* Prior to any development on any property in the city, the developer or person in charge or control thereof submit an application to the landscape administrator and obtain approval of a landscape plan authorizing development on the property in accordance with the provisions of this article. A landscape plan must be submitted and approved by the landscape administrator prior to the issuance of a land development permit or building permit.

(Ord. No. 7396, 3-24-09; Ord. No. 7448, § 1, 8-18-09)

Sec. 24-252. Definitions.

Application: A form provided by and submitted to the office of planning and economic development by a developer desiring a landscape plan to engage in development as herein defined.

Applicant: A developer as herein defined, including applicant or developer's representative, who is applying for approval of a landscape plan.

Area: The provisions of this article shall have applicability to all site and land development projects and development activities within the corporate limits of the city and the city's police jurisdiction, including the development of subdivisions and planned unit developments (not individual lots within subdivisions).

Bioswale: Vegetated surfaces that are designed to treat sheet flow from adjacent surfaces. Bioswales function by slowing runoff velocities, filtering out sediment and other pollutants and by providing some infiltration into underlying soils.

Buffer: Property used to visibly separate one land use from another through screening and distance.

Caliper: The diameter or thickness of a nursery-grown tree trunk as measured at six (6) inches above the top of the root mass.

Canopy trees: Any of the trees listed as a canopy tree in section 24-261, or other species approved by the landscape administrator.

City: The City of Tuscaloosa, Alabama, a municipal corporation, organized and operating pursuant to Code of Ala. 1975, § 11-44B-1 et seq., whose address is 2201 University Boulevard, Tuscaloosa, Alabama 35403.

Construction: Any improvement, replacement, alteration or renovation activity including that which erects a building or structure, including accessory use, and/or parking or landscape area or development as herein defined.

Critical root zone: An area around a tree that is within the drip line of a tree.

DBH (diameter at breast height): The diameter of a tree four and one-half (4½) feet above ground level.

Developer: Any person, firm, partnership, corporation or other legal entity engaged in or seeking to engage in development activity as herein defined including a developer that has been issued approval of a landscape plan pursuant to the provisions of this article.

Development: Any manmade or earth change to property within the city including, but not limited to, preparation of property for the construction of buildings or other structures, mining, dredging, filling, grading, regrading, paving, clearing, excavating, or drilling operations. This definition also includes changes or improvements to any property subject to these regulations such as curb and gutter, storm drainage structures, streets, drainage facilities, sidewalks, and related public or private roads and the installation of utilities.

Director: The director of the office of planning and economic development or his designee.

Drip line: The perimeter of a tree's canopy.

Grading: Altering the shape of the ground surfaces to a predetermined condition; this includes stripping, cutting, filling, stockpiling and shaping or any combination thereof and shall include the property in its cut or filled condition.

Green space: Any area retained as permanently vegetated property.

Land development permit (LDP): A written document prepared and executed by the city engineer or his/her designee which authorizes development in accordance with the provisions in article 12 chapter 21 section 21-212 of the City Code and subject to any additional or specific requirements that may be stated therein.

Land development plan: A properly documented written plan, prepared, signed and stamped by a registered professional engineer licensed in the state, consisting of a completed application with supporting documents demonstrating that development as herein defined will occur upon an identified parcel of property within the area in compliance with the provisions of this article. The land development plan shall include drainage plans in compliance with city drainage standards, and compliance with technical specifications issued by the city engineer. An engineering drawing showing all the important physical features both existing and proposed, of a given parcel of property and abutting the right-of-way shall also be submitted with the application and form part of the plan. The land development plan will adequately and sufficiently address in accordance with the provisions of this article traffic, parking, stormwater, sanitary sewer, erosion, use of best management practices (BMPs), sanitary sewer and related components.

Landscape administrator: The staff member designated by the director of planning and economic development to administer this article.

Landscape plan: A plan showing all plant types to be used, all planting standards and specifications, location, scheduling, stormwater mitigation areas identified and showing detailed design specification for solid type, depth and construction of said mitigation area, and any other appropriate details considered important for the compliance with this article. Also, any alternative compliance methods should be identified.

Landscaping: The treatment of grade, groundcover, vegetation and ornamentation for a given area. Landscaping shall include plant materials such as trees, shrubs, groundcovers, perennials and annuals; and any other materials such as rocks, water, walls and fences; and any other feature affecting layout and use of the site.

Lot, parcel, plot, property: A single undivided portion of property that is either legally recorded in the office of the Tuscaloosa County Probate Judge, or is being proposed in good faith by well-prepared plan drawings for the purpose of being legally recorded. It is the responsibility of the property owner (or his/her agent) to insure that the property is legally recorded with the office of the Tuscaloosa County Probate Judge.

Low impact development (LID): A set of approaches and practices intended to reduce runoff of water and pollutants from the site at which they are generated by means of infiltration, evapotranspiration, and reuse of runoff. LID techniques manage water and water pollutants at the source and thereby prevent or reduce the impact of development on rivers, streams, lakes, coastal waters, and ground water.

Park: Any public property set aside for open space and recreation purposes.

Parking area: The paved area including parking spaces and abutting aisle ways.

Parking lot: A surface used for the parking, storage or display of motor vehicles, boats, recreational vehicles, etc.

Parking space: A delineated area reserved for the parking of a single vehicle.

Perimeter planting strip: Property located within the boundary of a lot and required to be set aside and used for landscaping upon which only limited encroachments are authorized.

Property line: The boundary between two (2) or more lots.

Rain garden: Vegetated surfaces that are designed to treat sheet flow from adjacent surfaces. Filter strips function by slowing runoff velocities, filtering out sediment and other pollutants, and by providing some infiltration into underlying soils.

Redevelopment: The demolition and/or rebuilding or expansion of a site's physical development in association with the following guidelines:

- (1) If the original building size is less than two thousand (2,000) square feet, then a twenty-five (25) per cent or greater expansion of the building will require compliance with this article;
- (2) If the building size is between two thousand one (2,001) square feet and five thousand (5,000) square feet, then a twenty (20) per cent or greater expansion of the building will require compliance with this article;
- (3) If the building size is between five thousand one (5,001) square feet and ten thousand (10,000) square feet, then a fifteen (15) per cent or greater expansion of the building will require compliance with this article;
- (4) If the building size is over ten thousand (10,000) square feet, then a ten (10) per cent or greater expansion of the building will require compliance with this article.

Right-of-way: A general term denoting public ownership or interest in property, usually in a strip which has been acquired for or devoted to the use of a street or alley.

Runoff: The water from precipitation that flows over the ground.

Shrub: A low-growing, usually multi-stemmed, woody plant.

Stormwater: As defined in section 21-151 of the City Code of Tuscaloosa.

Street tree or trees: Any existing tree or any tree to be planted on the street right-of-way.

Tree: A usually tall, woody plant, distinguished from a shrub by having comparatively greater height and, characteristically, defined as:

Canopy (large maturing)—Single trunk whose height is greater than thirty-five (35) feet at maturity, or

Understory (small maturing)—Single trunk or multistem whose height is less than thirty-five (35) feet at maturity.

Tree, blighted: Any tree that does not exhibit healthy characteristics and is determined to be hazardous as determined by the director.

Tree, dead: A tree that does not contain any live tissue, i.e., green leaves or live limbs.

Tree, deciduous: Any tree which naturally loses its leaves in the fall.

Tree, mature: Any tree which has attained the capability of flowering and reproducing.

Tree, private: Any tree located on private property.

Tree, public: Any tree located on city property or state, county or city right-of-way.

Tree, replacement: A new tree planted on a site to meet minimum site density factor requirements (regardless of whether trees existed prior to any development).

Tree, understory: Understory tree species used shall have an average mature crown spread of at least fifteen (15) feet when grown in Tuscaloosa, Alabama. Understory tree species shall be a minimum of five (5) feet in height and have a caliper of at least one and one-half (1½) inches immediately after planting.

Tree planting standards and specifications: The design standards and specifications adopted for the planting or maintenance of trees.

Tree protection and/or planting plan (TP/PP): A plan that identifies tree protection areas where existing trees are to be protected and preserved, and replacement trees planted on a property to meet minimum requirements, as well as methods of tree protection to be undertaken on the site and other pertinent information.

Tree protection area (TPA): Any portion of a site wherein are located existing trees which are proposed to be preserved in order to comply with the requirements of this article. The TPA shall include no less than the total area beneath the tree canopy as defined by the drip line of the tree or group of trees collectively.

Tree save area: All areas designated for the purpose of meeting tree density requirements and/or preserving natural buffers.

Utility easement: The right-of-way acquired by a utility or governmental agency or private agency to locate utilities, including all types of pipelines, television cable, telephone and electric cables. Also includes corridors on public rights-of-way occupied by overhead utility lines.

Vegetated: Any ground surface covered with plant life.

(Ord. No. 7396, 3-24-09)

Sec. 24-253. Landscape plan submittal requirements

- (a) *Approval.* A landscape plan must be submitted and approved by the landscape administrator prior to the issuance of a land development permit or building permit.
- (b) *Format and materials.* The landscaping plan and details shall be drawn to the same standard scale as the development plan or a scale which shows all landscaping accurately. Landscape plans shall be included in the land development plan submitted to the city engineer as part of an application for a land development permit and the building official as part of an application for a building permit as applicable. All landscape plans must be reviewed and approved by the landscape administrator.
- (c) *General information.* Complete landscape plans submitted for review and approval shall include the following:
 - (1) Title block, showing the title of the development, the name and address of the owner/developer, the name and address of the person or firm preparing the plan, the date of preparation, the scale, the north point, and the date of all revisions.
 - (2) A location map, showing the relative location of the site to the nearest existing public street intersection.

- (3) The boundaries of the subject property including the location and description of all adjoining property, the location and names of all adjoining streets and easements.
- (4) The required number of parking spaces and the proposed number of parking spaces of subject property/development.
- (5) Location and dimensions of all entrances and exits of the parking lot and the manner in which vehicles will be parked, and the location and names of all utility lines, easements or rights-of-way on, or adjacent to, the site.
- (6) All details needed to communicate appearance, and methods of construction and/or installation.
- (7) A planting schedule, keyed to the plant materials shown on the landscape plan, listing all proposed plant materials by botanical name, common name, cultivar or variety if any, quantity of materials, size of materials at planting, plant spacing, and existing trees approved for use.
- (8) Location of all existing and proposed buildings, accessory structures and paved areas.

(Ord. No. 7396, 3-24-09)

Sec. 24-254. General requirements

- (a) *Site protection and general planting requirements.*
 - (1) *Topsoil.* To the extent needed and practical, topsoil moved during the course of construction shall be preserved and stockpiled for reuse on the site.
 - (2) *Existing trees.* Preservation of each existing healthy tree of an approved species (see attached table), within required landscape areas, shall count toward fulfillment of the requirements of this section.
 - a. The existing tree to be preserved must be approved by the landscape administrator to receive credit toward meeting the requirements of this section.
 - b. Existing trees that are credited towards meeting the requirements of this section shall be subject to the same maintenance and replacement requirements as newly planted trees.
 - (3) *[Parking.]* Each existing tree that is credited towards meeting the requirements of this section may reduce the number of required parking spaces as specified in section 24-256
 - (4) *Slope plantings.* Landscaping of all cuts and fills and/or terraces shall be matted or protected until plant cover is adequate to control erosion.
 - (5) *[Utility company easements.]* Plantings within utility company easements must comply with the following:
 - a. Minimum distances measured horizontally from trees to overhead utility lines shall be:
 - (i) Canopy trees: thirty (30) feet
 - (ii) Understory trees: fifteen (15) feet
 - b. The location and species of trees proposed for location in utility easements shall be approved before installation.
 - c. Any part of a tree growing within fifteen (15) feet of an overhead utility line will require maintenance by a certified line trimmer approved by any affected utility companies.
 - d. This article shall not be construed to impair the following:

- (i) The right of eminent domain granted by state laws to utilities, whether public or private, or
- (ii) A utility's right to design, locate, erect, construct, reconstruct, alter, protect or maintain utility poles, drainage ditches, structures, towers, lines, conduits, pipes or mains reasonably required in the public service, or
- (iii) A utility's right to exercise authority conferred by statute, franchise, certificate of convenience and necessity, license or easement.

Maintenance, repair, and extension of any public and private utility lines or related infrastructure are expressly allowed. The preceding will apply to work done by the utility's employees, agents and contractors doing work for the utility.

- (6) All plantings shall maintain a three-foot clearance around all fire suppression equipment as well as a clear, accessible path, visible from the main approach.
- (b) *Garbage and/or trash receptacles.*
- (1) All commercial garbage and/or trash receptacles shall be placed on a pad approved by the city engineer that allows for pick-up and maintenance as needed.
 - (2) All commercial garbage and/or trash receptacles shall be screened by a hedge and/or structure which is impermeable to sight from the main right-of-way. If hedges are to be used, the hedge must be four (4) feet tall when planted and capable of reaching a height of six (6) feet within two (2) years. Any screening structure shall be a minimum of six (6) feet tall when installed.
 - (3) Garbage and/or trash receptacles which are located behind buildings shall be screened from sight from public rights-of-way.
 - (4) Garbage and/or trash receptacle sites shall not be located within landscaped areas that are required by this article.

(Ord. No. 7396, 3-24-09)

Sec. 24-255. Landscaping requirements.

In addition to the provisions in section 24-254, the following requirements shall apply to all parking lots and required buffers:

- (a) *Perimeter planting requirements for parking areas.*
 - (1) A continuous perimeter planting strip, exclusive of access driveways and other approved penetrations, with a minimum width of ten (10) feet measured from the edge of the parking area, is required. Existing street trees may be applied towards perimeter planting requirements along public rights-of-way.
 - (2) Canopy trees are required, and trees of a minimum two (2) inches in caliper and twelve (12) feet high shall be planted at a maximum of fifty (50) feet on center. Minimum lateral separation from overhead utilities shall be thirty (30) feet for canopy trees. Shrubbery with a minimum eighteen-inch height at installation capable of forming a minimum three-foot-high evergreen hedge shall be provided in the landscape areas adjacent to public rights-of-way. In the event that pre-existing overhead utility lines prevent the use of canopy trees, understory trees shall be planted on thirty- to forty-foot centers.
 - (3) Planting strips are to be sodded, seeded, mulched or planted with shrubs or ground cover so as to leave no bare ground after landscape materials have been installed and permitted to grow for two (2) years.

- (4) Existing trees which meet, in whole or in part, the perimeter and internal planting requirements, may be applied toward the landscape requirements.
 - (5) No required landscaping shall be installed in proximity to the intersection of two (2) rights-of-way that will result in an obstruction of vision as determined by the traffic engineer.
 - (6) Stormwater inlets shall be located within a perimeter planting strip and incorporate bioswales, rain gardens or other staff-approved stormwater mitigation techniques to promote infiltration and reduce stormwater runoff and nonpoint source pollution. Alternative designs that accomplish the intent of this article may be permitted under section 24-258
- (b) *Internal planting requirements.*
- (1) Based on parking area size and layout, trees shall be planted within landscape islands within the paved parking area so that every parking space is within sixty (60) feet of the trunk of a tree. Perimeter trees and street trees as outlined above may be used to satisfy this requirement.
 - (2) There shall be no more than twelve (12) contiguous (linear) parking spaces without a landscape island. Trees are required in the landscape island. A landscape island used to satisfy this requirement shall contain a minimum of two hundred fifty (250) square feet of area per tree with a minimum width of eight (8) feet. Tree size and spacing are the same as for the perimeter planting requirements. Shrubbery shall be provided in the island.
 - (3) Landscape islands, based on the above requirements, shall be sodded, seeded mulched or planted with shrubs and/or groundcover.
 - (4) The integration of low impact development techniques as part of the landscape plan shall be required and may be used to meet these requirements.
 - (5) All stormwater inlets shall be located within a landscape island and incorporate rain gardens, bioswales or other staff approved stormwater mitigation techniques to promote infiltration and reduce stormwater runoff and nonpoint source pollution.
- (c) *Buffer planting requirements.*
- (1) *Standards.*
 - a. In order to decrease incompatibility between adjacent uses, an appropriate landscaped buffer shall be required. Planted buffers shall provide a visually impervious barrier, be uniformly dense at all heights from the ground, and be a minimum of four (4) feet above grade throughout the entire length and width of the planting. The buffer shall be planted with at least one tree that qualifies as a canopy tree, for each thirty (30) linear feet of buffer. Within one year after installation, that portion of the buffer planted as prescribed above shall be at least six (6) feet above grade throughout the entire length of the planting.
 - b. Walls and fences may be permitted within the required buffer, however, no such wall or fence may be used to reduce or exempt the property from compliance with the buffer planting requirements. The location of the fence or wall within the buffer shall be approved by the landscape administrator.
 - c. All walls and fences located within buffer areas shall be finished on both sides with the same type of finish.
 - (2) *Buffer widths.*
 - a. The following widths and wall standards shall apply to all buffers required by this chapter [article]. Where there is a conflict between perimeter planting

requirements and buffer planting requirements, the more stringent provision shall apply.

- (i) Industrial zones and/or uses adjacent to residential uses/zones: Fifty (50) feet.
 - (ii) Commercial zones and/or uses adjacent to residential uses/zones: The property owner shall choose one of the following options:
 - A. Thirty-five (35) feet;
 - B. Fifteen (15) feet with an opaque wall constructed along the property line;
 - C. Ten (10) feet with an opaque wall constructed along the property line and parking lot constructed between the buildings and the buffer.
 - (iii) Multifamily residential zones and/or uses adjacent to residential zones/uses: Twenty (20) feet.
- b. Where an opaque wall is required by subsection (c)(2)a., such wall shall be at least six (6) feet in height and constructed of masonry materials including, but not limited to, architectural CMU, brick, stone, stucco, or comparable masonry products. Cementitious siding materials, cast stone, and other commercially available synthetic or simulated masonry products may be used alternately or in combination with any of the materials listed above.
 - c. Where walls are required in accordance with this section, the prescribed trees shall be spaced no further than thirty (30) feet apart.
 - d. No wall shall be constructed of wood, PVC or vinyl.

(Ord. No. 7396, 3-24-09)

Sec. 24-256. Tree preservation and off-street parking credits.

This section provides incentives for the reduction of impermeable surface through the addition of landscaping. Properties subject to this article may reduce off street parking requirements as outlined in subsection (a) and (b) of this section; however, in no case shall the combined reduction in parking exceed the following criteria: Ten (10) per cent for parking lots containing one (1) to seventy-four (74) spaces; fifteen (15) per cent for parking lots containing seventy-five (75) to one hundred twenty-five (125) spaces and twenty-five (25) per cent for parking lots containing one hundred twenty-six (126) or more spaces.

- (a) *[Perimeter planting.]* Trees which meet the perimeter planting requirements, whether existing or new, may be counted as one parking space per tree and be used to fulfill the total parking requirement of the development not exceeding the following percentages:
 - (1) Minimum parking requirements of one to seventy-four (74) spaces: ten (10) percent;
 - (2) Minimum parking requirements of seventy-five (75) to one hundred twenty-five (125) spaces: fifteen (15) per cent;
 - (3) Minimum parking requirements of one hundred twenty-six (126) or more: twenty-five (25) per cent.
- (b) *[Interior landscape islands.]* Interior landscape islands may be counted as two (2) parking spaces per island and may be used to fulfill a portion of the total parking requirement of the development not exceeding the following percentages:

- (1) Minimum parking requirements of one to seventy-four (74) spaces: ten (10) per cent;
 - (2) Minimum parking requirements of seventy-five (75) to one hundred twenty-five (125) spaces: fifteen (15) per cent;
 - (3) Minimum parking requirements of one hundred twenty-six (126) or more: twenty-five (25) percent.
- (c) *Tree preservation and credit.* Existing healthy trees may be included in the minimum planting requirements and credited toward trees required by this article in a landscape plan as per the following schedule:

DBH of Preserved Tree(s)	Number of Trees Credited
9–19 inches	2
20–25 inches	3
26–29 inches	4
30–35 inches	5
36 inches or greater	6

- (1) A tree proposed for use as a credit to satisfy minimum planting requirements must be approved as part of the site plan review process.
 - (2) The landscape area surrounding a preserved tree shall be located so that the trunk of the tree is as close to the center of the landscape area as practical, and specific preservation practices shall be followed to insure exchange of water and oxygen to the root zone.
- (d) *Protection of preserved trees during construction.* Existing tree(s) shall only be credited where the following management standards are met:
- (1) During construction, the critical root zone of the tree(s) to be preserved shall be fenced and protected from compaction, trenching, harmful grade changes and/or other injury and be shown on an approved landscape plan.
 - (2) Pavement, building foundations or other impervious surfaces shall not encroach into the critical root zone, unless specific preservation practices are followed to insure exchange of oxygen, water and nutrients to the root system.
 - (3) Sidewalks or other forms of hard surfaces that do not require soil compaction and are not intended for vehicular use may be located within the critical root zone only if specific preservation practices are followed to insure exchange of oxygen, water and nutrients to the root system.

(Ord. No. 7396, 3-24-09; Ord. No. 7448, § 2, 8-18-09.)

Sec. 24-257. Compliance.

The architect, landscape architect, engineer, surveyor of record, horticulture professional, or landscape contractor for any criteria for which this article applies must certify to the Landscape Administrator that the landscaping has been installed to meet the minimum requirements of this article. The site will be inspected by the landscape administrator before a final certificate of occupancy will be issued.

In the event that inclement weather delays the installation of landscape materials, the developer may make a written request to the landscape administrator for an extension to the time of

completion for the planting schedule in the approved landscape plan. The request must specifically state the reason for the delay as well as an estimated date for completion. Failure to complete the installation within fifteen (15) days of specified date will constitute noncompliance.

(Ord. No. 7396, 3-24-09)

Sec. 24-258. Alternative compliance.

- (a) *Intent.* The landscape requirements are intended to encourage development practices which are conscious of the character of the city and its ecological processes. Conditions associated with individual sites may under certain circumstances warrant approval of alternative methods of compliance. Conditions may arise where normal compliance is impractical or impossible, or where maximum achievement of the purpose and intent of this article can only be obtained through alternative compliance. It is not the intent of this section to allow alternative compliance on the basis of economic hardship. In the event that such conditions are present, the landscape administrator shall have authority to adjust the requirements of this chapter as provided in subsection (b).
- (b) *Request for alternative compliance review.* Requests for alternative compliance must be made in writing at the time of submittal of the landscape plan for approval by the landscape administrator, when one or more of the following conditions are met:
- (1) Improved environmental quality would result from alternative compliance.
 - (2) Topography, soil, vegetation, drainage or other site conditions are such that full compliance is impractical.
 - (3) Spatial limitations, unusual shaped pieces of property, or prevailing practices in the surrounding neighborhood may justify alternative compliance.
 - (4) Public safety considerations make alternative compliance appropriate.
 - (5) Public improvement projects make alternative compliance appropriate.
 - (6) The site is part of a development for which a master plan has been submitted which makes adequate provision for landscaping.

(Ord. No. 7396, 3-24-09)

Sec. 24-259. Landscaping requirements for urban areas.

Within the area platted and known as the original city survey and within the area described in subsection 24-220(a)(2), otherwise known as the university area neighborhood, section 24-255 shall not apply and landscaping shall be provided on the public right-of-way adjacent to any development as applicable in section 24-221, in accordance with exhibit "A", Urban Forest Master Plan (UFMP) and Exhibit "B", Typical Street Cross Section and meeting the approval of the director of TDOT. Both exhibits "A" and "B" are adopted herein by reference and shall remain on file in the office of planning and development services. Provided however, where commercial developments subject to this section contain open parking lots, the provisions of subsections 24-255(a) and (b) shall also apply.

(Ord. No. 7396, 3-24-09; Ord. No. 7448, § 3, 8-18-09; Ord. No. 7684, 6-21-11)

Sec. 24-260. Maintenance.

The owner of property developed in accordance with an approved landscape plan shall be responsible for maintaining all landscape in good condition. The maintenance required under this section shall include the prompt replacement of all dead or damaged landscaping materials,

whether from natural or unnatural causes, so as to insure continued compliance with the requirements of this ordinance.

(Ord. No. 7396, 3-24-09)

Sec. 24-261. Approved tree list.

Trees contained in the following list are preapproved for use and meet the requirements of this article. Any tree which is not on this list may be submitted for approval to the landscape administrator prior to the approval of a land development permit. Trees which exhibit poor health characteristics, are not native to the climate range in Tuscaloosa or are considered invasive will not be approved for installation.

Scientific Name	Common Name
<i>Canopy Trees</i>	
Acer spp.	Maple Tree
Betula nigra	River Birch
Carpinus caroliniana	American Hornbeam
Carya spp.	Hickory
Cedrus deodora	Deodor Cedar
Celtus laevigata	Sugar Hackberry
Cornus x "Rutican"	Constellation Dogwood
Cryptomeria japonica	Japanese Cryptomeria
Fagus grandifolia	American Beech
Fraxinus americana	White Ash
Fraxinus pennsylvanica	Green Ash
Ginkgo biloba	Ginkgo
Juniperus virginiana	Eastern Red Cedar
Liquidambar styraciflua "Rotundaloba"	Fruitless Sweetgum
Liriodendron tulipifera	Tulip Tree
Magnolia grandiflora	Southern Magnolia
Magnolia virginiana	Sweet Bay Magnolia
Metasequoia glyptostroboides	Dawn Redwood
Nyssa sylvatica	Black Gum
Ostrya virginiana	Hophornbeam
Oxydendrum arboreum	Sourwood
Pistacia chinense	Chinese Pistache
Platanus occidentalis	Sycamore
Quercus spp.	Oak Tree
Salix alba	White Willow
Salix babylonica	Weeping Willow
Sequoia sempervirens	Redwood
Taxodium distichum	Bald Cypress
Taxodium ascendens	Pond Bald Cypress
Tsuga canadensis	Hemlock
Ulmus alata	Winged Elm
Ulmus parvifolia	Lacebark Elm
Zelkova serrata	Japanese Zelkova
<i>Understory Trees</i>	
Acer palmatum	Japanese Maple
Amalanchier x "Autumn Brilliance"	Autumn Brilliance Serviceberry
Cercis canadensis	Eastern Redbud
Cornus florida	Flowering Dogwood
Cornus kousa	Kousa Dogwood

Crataegus phaenopyrum	Washington Hawthorn
Ilex latifolia	Lusterleaf Holly
Ilex x attenuate	Foster Holly
Ilex x "Emily Bruner"	Emily Bruner Holly
Ilex x "Nellie R. Stevens"	Nellie R. Stevens Holly
Ilex verticillata	Winterberry
Juniperus virginiana "Idylwild"	Idylwild Juniper
Lagerstroemia indica	Crapemyrtle
Magnolia stellata	Star Magnolia
Magnolia x soulangiana	Saucer Magnolia
Malus spp.	Crabapple
Myrica cerifera	Southern Wax Myrtle
Osmanthus fortunei	Fortune's Osmanthus
Osmanthus fragrans	Tea Olive
Prunus serrulata	Japanese Flowering Cherry
Prunus subhirtella	Higan Cherry
Prunus x yedoensis	Yoshino Cherry
Thuja occidentalis	Arborvitae
Vitex agnus-castus	Lilac Chaste Tree

(Ord. No. 7396, 3-24-09)

Sec. 24-262. Legal aspects, other regulations.

All local, state and federal laws and regulations shall be considered when interpreting provisions of this article or technical specifications promulgated pursuant to this article. In each instance, the more restrictive requirement shall govern unless sound engineering judgment can determine and prove that the more restrictive requirement would be otherwise unnecessary. In most instances, laws and regulations that are phrased more explicitly shall apply over those items that are not phrased as precisely.

Nothing herein contained shall authorize a person to engage in development or earth changes within the area defined herein in a manner inconsistent with current zoning or subdivision regulations or other applicable codes or ordinances. All development or earth changing activity within the area defined herein shall be in conformity with current zoning or subdivision regulations and all other applicable codes or ordinances.

A landscape plan does not authorize any person or developer to engage in any activity that would violate any other applicable code, ordinance, regulation or state or federal laws nor substitute for obtaining any licenses or permits otherwise required.

(Ord. No. 7396, 3-24-09)

Sec. 24-263. Penalty for violation.

Any person, firm, corporation, or agent, who shall violate a provision of the code herein adopted or fails to comply therewith or with any of the provisions thereof, shall be guilty of a misdemeanor and, on conviction, be punished as provided for in section 1-8 of the Code of the City of Tuscaloosa. The violation of or the noncompliance with each individual requirement, rule or regulation, of such code, and each day's continuation thereof, shall constitute a separate and distinct offense.

(Ord. No. 7396, 3-24-09)

Sec. 24-264. Effective date.

This article is effective immediately upon passage and publication. The provisions contained herein shall not apply to the completion of a development that on or before the effective date has a current land development permit or current building permit, or to the completion of a planned unit development or riverfront development with final approval, but shall apply to redevelopment, change of use or expansion of such a development pursuant to section 24-251. However, if the land development permit or building permit or approved planned unit development or riverfront development lapses or expires, all provisions contained herein shall apply.

(Ord. No. 7396, 3-24-09)

Secs. 24-265-24-279. Reserved.

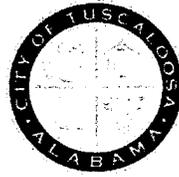
OFFICE OF THE CITY ENGINEER

CITY ENGINEER
DAVID R. GRIFFIN, III, PE

LAND SURVEYOR
JOE DUNCAN, PLS

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CITY OF TUSCALOOSA



WALTER MADDOX
Mayor

STORM DRAINAGE ENGINEER
CHAD P. CHRISTIAN, PE, CFM

TRANSPORTATION ENGINEER
SELVIN B. GREENE, PE

WASTEWATER ENGINEER
DANIEL PRICE, PE

WATER DISTRIBUTION ENGINEER
KIMBERLY A. MICHAEL, PE

M-E-M-O-R-A-N-D-U-M

From

Josh Yates

March 26, 2014

RE: ESCALATING ENFORCEMENT PROCEDURE FOR ILLICIT DISCHARGES

The purpose of this is to reduce or eliminate the discharge of pollutants into the City's MS4 to the maximum extent practicable. The following procedures shall apply to all illicit discharges detected:

- Notification of Violation (Warning)
- Correction Notice (Verbal or Written)
- Posted Notice
- Posted Stop Work Order
- 7 Day Letter to comply or be charged with Illicit Discharge
- Notification to ADEM
- File Charges Against Responsible Parties for Illicit Discharge or Failure to Stop Work

There are no specified time frames, because each case poses different circumstances. If no rain is expected in the coming days, we may be a little more lenient in giving additional time, whereas if there is rain expected the responsible party may only be given a 24 hour correction timeframe.

CITY COUNCIL

Burrell Odum
District 1

Harrison Taylor
President Pro-Tem
District 2

Cynthia Lee Almond
District 3

Matthew Calderone
District 4

Kip Tyner
District 5

Eddie Pugh
District 6

Sonya McKinstry
District 7

Low Impact Development Database

LDP #	Site Description	Location	Low Impact Element(s)
2015	Sonny's Car Wash	6631 Hwy 69 S	Inlets Located in Grass Swales
2025	The Province (East Edge)	1104 Dr. Edward Hillard Dr.	Inlets Located in Grass Swales
2026	Emergicare parking lot	1781 Skyland Blvd. E	Stone infiltration
2046	U of A Sigma Chi Fraternity	180 University Blvd.	Inlets Located in Grass Swales
2061	Bailey's Taekwondo	1000 13th St. E.	Sheetflow
2067	UA Delta Gamma Sorority	Magnolia Drive / 6th Ave.	Inlets Located in Grass Swales
2079	Duplex	611 13th St.	Bioswale
2083	Texaco	1902 Veterans Memorial Pkwy	Underground Open-Bottom Detention
2085	Hokkaido	607 15th St. E.	Inlets Located in Grassed Areas
2098	Wilcutt Block and Supply	1219 Kicker Rd.	Pervious Pavers
2101	THA Rosedale Court Phase I	2808 10th Ave	Inlets in Grass
2102	Career & Technology High School	2800 MLK Jr. Blvd	Open Bottom Detention
2103	Rising Virtue Masonic Lodge	110 Hargrove Rd	Sheet flow/inlets in grass
2104	Dippin' Dots	912 Veterans Memorial Parkway	Bioswales
2111	Duplex	1521 8th Street	Stone infiltration
2114	Caring Days Congregation	943 31st Street E	Sheet flow
2115	Duplex	400 Grace Street	Bioswales
2116	Duplex	823 14th Street	Stone infiltration
2117	Tuscaloosa Service Center & Storage	3108 25th Avenue	Stone infiltration
2118	Sherwin Williams Paint Store	222 15th Street	Bioswales
2126	Duplex	30 Cloverdale	Stone infiltration
2130	UA Alpha Delta Pi	Magnolia Drive	Sump/Snout
2133	Duplex	21 Meador Drive	Bioswale/Stone Infiltration
2136	Duplex	35 Wesley Place	Stone infiltration
2138	Full Moon BBQ	1434 McFarland Blvd	Sheet Flow
2140	Duplex	30 Meador Dr.	Bioswale
2141	2 Duplexes	1 & 3 Meador Dr.	Infiltration
2142	Bojangles	4331 University Blvd. E.	Sheetflow / Grassed Swale
2145	The Village at Cedar Crest	324 15th Street E.	Pervious Pavers
2152	St. Francis of Assisi Church	811 5th Ave.	Rain Gardens / Sheetflow
2154	Duplex & Quadplex	27 Meador Dr. & 51 Cloverdale	Infiltration in Parking Areas

2159	Duplex	623 13th St.	Bioswale
2161	Duplex	709 13th St.	Infiltration
2164	Duplex	727 12th St.	Bioswale
2165	Canterbury Episcopal Church	812 5th Ave.	Pervious Pavers
2167	Church Without Walls	407 Hargrove Rd.	Swale / Infiltration
2168	3 Duplexes	817, 818 and 821 14th St.	Bioswale
2173	Duplex	39 Cloverdale	Infiltration
2174	Bed and Breakfast	1409 Caplewood Dr.	Infiltration through pervious pavers
2176	Your Way Furniture	924 26th Ave. E.	Grassed Swale
2178	Duplex	31 Wesley Place	Bioswale
2181	Auto Zone	4331 University Blvd. E.	Sheetflow
2186	3 Townhomes	1104 13th St.	Bioswale
2196	UA -- Theta Chi and Pi Kappa Phi	312 University Blvd.	Pavers
2202	Duplex	317 Reed Street	Bioswale
2208	Commercial Building	2806 Greensboro Ave.	Stormtech Chambers
2214	Tractor Supply	Patriot Parkway & Hwy 69 S	Inlets Located in Grass / Ponding
2218	Central Church of Christ	304 Hargrove Rd	Inlets in Grass / Sump / Snout
2219	Mapco	6737 Hwy 69 S	Stormtech Chambers
2224	Rock Point	513 13th St.	Permeable Pavers / Stormtech
2229	Condos The Twelve	1426 Bryant Dr.	Underground Stone Recharge
2232	Rosedale Redevelopment	10th Ave. & 29th St.	Stormtech Chambers
2240	Hoo's Q	101 15th St.	Inlets in grass
2242	Broad Street Village	1914 University	Pervious Pavers
2251	Wood Square	McFarland Blvd. and 13th St.	Sumps/Inlets in Grass
2254	The Aveune	69 South	Infiltration - Detention Pond
2260	Commercial Bldg.	1220 17th St.	Infiltration - Grass Bioswale
2261	Auto Zone	69 South	Infiltration - Grass Bioswale
2263	Duplex	1021 Convent	Pervious Pavers
2264	Public Safety and Logistics Bldg.	Kaloosa	Infiltration - Grass Bioswale
2267	North River Surgical Center Addition	Rice Mine Rd.	Infiltration Stone / Sheetflow
2269	Triplex	908 13th St.	Infiltration - Stone / Grass
2270	Triplex	1100 13th St.	Infiltration - Stone / Grass
2274	Apartments	1005 13th St.	Infiltration - Stone Bioswale
2275	Wesley Place	Cloverdale Lots 23, 25, & 27	Infiltration - Stone Bioswale

2283	Residence	807 Frank Thomas Ave	Infiltration - Stone Bioswale
2285	Phi Kappa Phi	U of A	Infiltration - Pervious Pavers / Grass Bioswale
2288	Alabama One Credit Union	70 Skyland Blvd. E.	Infiltration - Grass Bioswale
2293	Duplex	705 13th St.	Infiltration - Stone Bioswale
2295	Chick-Fil-A	801 Old Greensboro Rd.	Infiltration - Grass Bioswale
2296	Your Way Addition	930 26th Ave. E.	Underground Detention and Absorption
2297	Rock Point Estates	1214 Paul Bryant Drive	Permeable Pavers
2298	Duplex	1015 12th St.	Permeable Pavers
2300	Gander Mountain	3325 McFarland Blvd.	Infiltration - Inlets in Grass Islands
2302	Grantham Shop	6210 Knight Ave.	Swale
2304	Contemporary Mitsubishi	3427 Skyland Blvd. E.	Infiltration - Inlets in Grass Islands
2310	Henry Apartments	300 Thomas St.	Permeable Pavers
2322	Duplex	607 13th St	Infiltration - Grass Bioswale
2325	Alberta Baptist Church	2210 University Blvd. E.	Infiltration - Inlets in Grass Islands
2330	Duplex	1423 Cloverdale Rd.	Infiltration - Stone Parking
2331	Green Bear	925 Greensboro Ave.	Vortech Separator
2332	Alberta Church of God	10050 N Highway 11	Sheet Flow in Grass Swales
2334	Old ROW	Cloverdale	Infiltration - Stone Parking
2338	Duplex	518 Wesley Place	Infiltration - Stone Parking
2340	Duplex	29 Meador Dr.	Infiltration - Stone Parking
2343	Duplex	1011 12th St.	Infiltration - Stone / Grass
2346	Duplex	29 Wesley Place	Infiltration - Stone / Grass
2351	Townhomes	318 Wesley Place	Infiltration - Stone / Grass
2353	Duplex	28 Cloverdale	Infiltration - Stone / Grass
2355	Duplex	496 Wesley Place	Infiltration - Stone / Grass
2366	UA Sidney McDonald Hall	500 University Blvd.	Weir/Sump/Snout
2369	Duplex	510 Meador Dr.	Infiltration - Stone Parking
2370	Boner Body Shop	2212 16th St.	Underground Detention and Absorption
2374	Alberta Elementary Pkg. 1	2700 University Blvd. E.	Sumps/Snouts
2377	UA Boutwell Parking Lot	Bryant Drive	Sumps/Snouts
2382	PC3 Tuscaloosa Investments	Southside Dr.	Bioswale
2383	Residential	1600 5th Ave.	Permeable Pavers
2385	Alpha Chi & Gamma Phi Beta	Bryant Drive	Sump/Snout

2391	Capstone Cottages parking	12th St.	Stormtech Chambers
2396	Retail	4840 Rice Mine Road NE	Inlets in Landscaped Islands
2399	Sprint Mart	421 15th St. E.	Detention/Infiltration
2400	Tide Lanes	5800 McFarland Blvd. E.	Underground Detention and Absorption
2402	Riverfront Village	115 Greensboro Ave.	Snouts
2403	Bonner Body Shop	2212 16th St.	Underground Detention and Absorption
2405	DTURRP Phase 2	Downtown	Inlets in Landscaped Islands
2410	Crescent Shopping Center	3615 McFarland Blvd. E.	Sump/Snouts
2412	Townhomes	1305 14th Ave.	Bioswale
2413	Townhomes	1400 13th St.	Bioswale
2418	Jalapenos Mexican Rest.	4612 Old Birmingham Hwy.	Inlets in Grassed Areas / Sump/Snout
2420	Taco Bell	HWY 69 S	Swale/Infiltration
2423	UA Fraternity Parking	600 Jefferson Ave.	Pervious Pavers
2426	Apartments/Retail	2700 Capital Park	Stormtech Chambers
2435	Gramercy Park Apartments	519 11th St.	Stormtech Chambers
2436	Central Park Apartments	510 12th St	Stormtech Chambers
2461	Apartment	1008 13th St.	Stone infiltration
2468	UA Sorority Patio Addition	1205 14th St.	Permeable Pavers
2475	9th St. Apartments	1424 9TH St.	Infiltration - Stone / Grass
2476	Duplex	1405 7TH St.	Grass / Stone Infiltration
2478	The Mount	430 Hargrove Rd.	Stormtech Chambers
2479	Tuscaloosa Service Center & Storage	3100 25th Ave.	Stone Detention / Infiltration
2480	The Grove	600 7th Ave. NE	Snouts/Sumps
2486	Crosspoint Church	5203 Rice Mine Rd. NE	Infiltration - Stone / Grass
2489	ACA Field House Addition	2300 Veterans Memorial Pkwy	Stone Detention / Infiltration
2490	South 10 Mixed Use	1430 10th Ave.	Stormtech Chambers
2496	14th Ave. Apartments	1194 14th Ave.	Infiltration - Stone / Grass
2502	Duplex	436 Meador Dr.	Stone infiltration
2515	Duplex	13 Parkview	Infiltration - Stone / Grass
2516	(2) Duplex	1322 & 1326 8th Ave.	Bioswale
2524	Mapco	4814 Rice Mine Rd. NE	Ponding/Infiltration
2525	The Collegiate	1111 13th St. E.	Stormtech Chambers
2529	Duplex	1419 8th St.	Infiltration - Stone / Grass
2530	Townhomes	502 Wesley Place	Infiltration - Stone / Grass

<u>Permit #</u>	<u>Responsible Person</u>	<u>Division</u>	<u>Location</u>	<u>Details</u>	<u>Status</u>
GW 08-11-01	Scott Sanderford	Lakes	Police Boat Landing on Lake	Monitoring as a result of a leaking tank that contaminated the groundwater next to the Lake	Active
AL0022713	Andrew Burroughs	Waste Water	WWTP	Waste Water Treatment Plant Permit	Active
ALG670195	Jimmy Junkin	Water Treatment	Jerry Plott WTP	Start-Up water	Terminated
ALG640061	Stephen Daly	Water Treatment	Ed Love WTP	NPDES Permit	Active
AL0001313	PWSID# CITYWIDE	Water Treatment	WTP	Citywide Public Water System Identification #	Active

Fuel Tanks (Above Ground)

<u>ADEM I.D.</u>	<u>Size</u>	<u>Location</u>	<u>Lift Station #</u>
11085-125-017644	138	Crown Pointe	8
11085-125-017645	468	Industrial Park	22
11085-125-017646	530	Woodland Forest #2	27
11085-125-017647	181	Greystone	37
11085-125-017648	700	Mercedes #1	39
11085-125-017649	695	Cedar Cove Technical Park	40
11085-125-017650	765	Cottondale Industrial Park	41
11085-125-017651	655	Hargrove Road East	42
11085-125-017652	8,000	WWTP	WWTP
Not Registered	4,000	West End	3
Not Registered	500	Keene Mill Rd.	10
Not Registered	500	Cottondale	11
Not Registered	500	Woodland Forest #1	15
Not Registered	250	Oliver Lock & Dam	16
Not Registered	381	Creekwood	46
Not Registered	200	Black Warrior	55
Not Registered	500	Heatherwood	59
Not Registered	200	Lauderhill	64
Not Registered	200	Fields Crossing	65

<u>Permit #</u>	<u>Responsible Person</u>	<u>Division</u>	<u>Location</u>	<u>Details</u>	<u>Status</u>
ALG140463	Wayne Cameron	Airport	Airport	Runoff from Industrial Airport	???
???	Matt Odom	Road Maintenance	Citywide	Insecticide Permit	???

Fuel Tanks (Underground)

<u>ADEM I.D.</u>	<u>Number</u>	<u>Location</u>
11085-125-017472	2	TDOT
11085-125-017473	3	Police Station

<u>Permit #</u>	<u>Responsible Person</u>	<u>Division</u>	<u>Location</u>	<u>Details</u>	<u>Status</u>
ALR10A652	David Griffin	Traffic	Loop Road Phase 3	Land Disturbance	Active
ALR10AB15	David Griffin	Traffic	25th Avenue East	Land Disturbance	Active
ALR040021	Chad Christian	Stormwater	MS4	Phase 2 Permit	Active

Permit #
ALR109930

Responsible Person
Clif Penick

Division
Facilities Maintenance

Location
Public Safety and Logistics

Details
Construction NPDES

Status
Active

Street Sweeping Program

<u>DATE</u>	<u># OF LOADS</u>	<u>CUBIC YARDS OF DEBRIS</u>	<u>CUMULATIVE TOTAL (CY)</u>	<u>CUMULATIVE LBS. REMOVED</u>	<u>CUMULATIVE TONS REMOVED</u>
07-27-2012 -- 08-02-2012	24	144	144	388800	194.4
08-03-2012 -- 08-09-2012	25	150	294	793800	396.9
08-13-2012 -- 08-16-2012	27	162	456	1231200	615.6
08-24-2012 -- 08-30-2012	20	120	576	1555200	777.6
08-31-2012 -- 09-06-2012	21	126	702	1895400	947.7
09-07-2012 -- 09-13-2012	34	204	906	2446200	1223.1
09-14-2012 -- 09-20-2012	27	162	1068	2883600	1441.8
09-21-2012 -- 09-27-2012	34	204	1272	3434400	1717.2
09-28-2012 -- 10-04-2012	34	204	1476	3985200	1992.6
10-05-2012 -- 10-11-2012	22	132	1608	4341600	2170.8
10-12-2012 -- 10-18-2012	27	162	1770	4779000	2389.5
10-19-2012 -- 10-25-2012	28	168	1938	5232600	2616.3
10-26-2012 -- 11-01-2012	28	168	2106	5686200	2843.1
11-02-2012 -- 11-08-2012	32	192	2298	6204600	3102.3
11-09-2012 -- 11-15-2012	33	198	2496	6739200	3369.6
11-16-2012 -- 11-22-2012	20	120	2616	7063200	3531.6
11-23-2012 -- 11-29-2012	30	180	2796	7549200	3774.6
11-30-2012 -- 12-06-2012	35	210	3006	8116200	4058.1
12-07-2012 -- 12-13-2012	32	192	3198	8634600	4317.3
12-14-2012 -- 12-20-2012	29	168	3366	9088200	4544.1
12-21-2012 -- 12-27-2012	8	48	3414	9217800	4608.9
12-28-2012 -- 01-03-2013	23	138	3552	9590400	4795.2
01-04-2013 -- 01-10-2013	24	144	3696	9979200	4989.6
01-11-2013 -- 01-17-2013	15	90	3786	10222200	5111.1
01-18-2013 -- 01-24-2013	15	90	3876	10465200	5232.6
01-25-2013 -- 01-31-2013	19	114	3990	10773000	5386.5
02-01-2013 -- 02-07-2013	16	96	4086	11032200	5516.1
02-08-2013 -- 02-14-2013	13	78	4164	11242800	5621.4
02-15-2013 -- 02-21-2013	19	114	4278	11550600	5775.3
02-22-2013 -- 02-28-2013	12	72	4350	11745000	5872.5
03-01-2013 -- 03-07-2013	19	114	4464	12052800	6026.4
03-08-2013 -- 03-14-2013	17	102	4566	12328200	6164.1
03-15-2013 -- 03-21-2013	18	108	4674	12619800	6309.9
03-22-2013 -- 03-28-2013	16	96	4770	12879000	6439.5
03-29-2013 -- 04-04-2013	17	102	4872	13154400	6577.2
04-05-2013 -- 04-11-2013	6	36	4908	13251600	6625.8
04-12-2013 -- 04-18-2013	14	84	4992	13478400	6739.2
04-19-2013 -- 04-25-2013	18	108	5100	13770000	6885
04-26-2013 -- 05-02-2013	15	90	5190	14013000	7006.5
05-03-2013 -- 05-09-2013			5190	14013000	7006.5
05-10-2013 -- 05-16-2013	17	102	5292	14288400	7144.2

05-17-2013 -- 05-23-2013	17	102	5394	14563800	7281.9
05-24-2013 -- 05-30-2013	16	96	5490	14823000	7411.5
05-31-2013 -- 06-06-2013	18	108	5598	15114600	7557.3
06-07-2013 -- 06-13-2013	10	60	5658	15276600	7638.3
06-14-2013 -- 06-20-2013	13	78	5736	15487200	7743.6
06-21-2013 -- 06-27-2013	9	54	5790	15633000	7816.5
06-28-2013 -- 07-04-2013	3	14	5804	15670800	7835.4
07-05-2013 -- 07-11-2013	14	84	5888	15897600	7948.8
07-12-2013 -- 07-18-2013	17	102	5990	16173000	8086.5
07-19-2013 -- 07-25-2013	18	108	6098	16464600	8232.3
07-26-2013 -- 08-01-2013	20	120	6218	16788600	8394.3
08-02-2013 -- 08-08-2013	15	90	6308	17031600	8515.8
08-09-2013 -- 08-15-2013	20	120	6428	17355600	8677.8
08-16-2013 -- 08-22-2013	13	78	6506	17566200	8783.1
8/30/2013	17	102	6608	17841600	8920.8
9/6/2013	15	90	6698	18084600	9042.3
9/13/2013	25	150	6848	18489600	9244.8
9/20/2013	24	144	6992	18878400	9439.2
9/27/2013	37	222	7214	19477800	9738.9
10/4/2013	39	234	7448	20109600	10054.8
10/11/2013	39	234	7682	20741400	10370.7
10/18/2013	26	156	7838	21162600	10581.3
10/25/2013	31	186	8024	21664800	10832.4
11/1/2013	31	186	8210	22167000	11083.5
11/8/2013	26	156	8366	22588200	11294.1
11/15/2013	22	132	8498	22944600	11472.3
11/22/2013	32	192	8690	23463000	11731.5
11/29/2013	23	138	8828	23835600	11917.8
12/6/2013	21	126	8954	24175800	12087.9
12/13/2013	28	168	9122	24629400	12314.7
12/20/2013	29	174	9296	25099200	12549.6
12/27/2013	15	90	9386	25342200	12671.1
1/3/2014	16	96	9482	25601400	12800.7
1/10/2014	10	60	9542	25763400	12881.7
1/17/2014	28	168	9710	26217000	13108.5
1/24/2014	0	0	9710	26217000	13108.5
1/31/2014	0	0	9710	26217000	13108.5
2/7/2014	30	180	9890	26703000	13351.5
2/14/2014	14	84	9974	26929800	13464.9
2/21/2014	29	174	10148	27399600	13699.8
2/28/2014	25	150	10298	27804600	13902.3
3/7/2014	26	156	10454	28225800	14112.9
3/14/2014	31	186	10640	28728000	14364
3/21/2014	23	138	10778	29100600	14550.3
TOTAL:			10778	29100600	14550.3