PHENIX CITY Alabama

DEPARTMENT OF ENGINEERING / PUBLIC WORKS

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VIA ELECTRONIC SUBMITTAL

May 31, 2022

Alabama Department of Environmental Management
Stormwater Management Branch
Attn: Cammie Ashmore
P. O. Box 301463
Montgomery, AL 36130-1463

Re: 2021-2022 Annual Storm Water Report

Ms. Ashmore:

Please find attached the Storm Water Management Program Annual Report for the City of Phenix City, Alabama.

If you have any questions, please do not hesitate to contact my office.

Sincerely,

Angel Moore, P.E.
City Engineer

Cc: File

Storm Water Management Program

Annual Report

City of Phenix City, Alabama

Individual Phase II MS4

NPDES Permit No. ALR040019

April 1, 2021 – March 31, 2022

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1.0 Introduction

The Annual Report is required by Part VI of the Alabama Department of Environmental Management (ADEM) National Pollutant Discharge Elimination System (NPDES) Individual Permit ALR040019 for discharges from the City of Phenix City Municipal Separate Storm Sewer System (MS4).

1.1 Phenix City MS4 Area

The City of Phenix City is located in southeast Alabama within the *Columbus, Georgia – Alabama Urbanized Area*. The Phenix City MS4 comprises approximately 18.63 square miles (11,923 acres). The City limits encompass an area of approximately 27.75 square miles (17,760 acres).

According to the United States Census Bureau, the 2020 Census results for Phenix City, Alabama is 38,816 with a population density of 1,398.77 people per square mile.

1.2 Hydrologic Units in the Urbanized Area

The Chattahoochee River is the primary receiving water for the Phenix City MS4. Hydrologic hierarchy, watersheds, and subwatersheds are provided in the tables below.

Table 1-1: Hydrologic Hierarchy

	Hydrologic Unit Code (HUC)*	Name
REGION	03	South Atlantic-Gulf
SUBREGION	0313	Apalachicola
BASIN	031300	Apalachicola
SUBBASIN	03130002	Middle Chattahoochee-Lake Harding
SUBBASIN	03130003	Middle Chattahoochee-Walter F. George
WATERSHED	033000213	Standing Boy Creek – Chattahoochee River
WATERSHED	0313000303	Bull Creek – Chattahoochee River
WATERSHED	0313000304	Little Uchee Creek
WATERSHED	0313000305	Uchee Creek

Table 1-2: Subwatersheds in the Phenix City MS4

SUBWATERSHEDS	HUC*	TOTAL AREA (Acres)
Soap Creek – Chattahoochee River	031300021306	28,506
Holland Creek – Mill Creek	031300030301	15,729
Moon Lake – Chattahoochee River	031300030304	6,931
Cochgalechee Creek	031300030305	8,172
Broken Arrow Creek – Chattahoochee River	031300030306	20,243
Lower Little Uchee Creek	031300030403	36,752
Cowpen Creek – Uchee Creek	031300030505	20,248

* - These HUCs were found on the USGS Website, "Science in Your Watershed"

1.3 Water Quality Concerns

Section 303(d) of the Clean Water Act (CWA), as amended by the Water Quality Act of 1987, and EPA's Water Quality Planning and Management Regulations (40 CFR 130) require states to identify waterbodies not in compliance with the water quality standards applicable to their designated use classifications. The identified waters are prioritized based on severity of the pollution. Section 303(d) then requires that Total Maximum Daily Loads (TMDLs) be determined for all pollutants causing violation of applicable water quality standards in each identified segment. The TMDL process establishes the allowable loading of pollutants, or other quantifiable parameters for a waterbody, based on the relationship between pollution sources and in-stream water quality conditions.

As mentioned in Section 1.2, the Chattahoochee River is the primary receiving water for the Phenix City MS4. ADEM had previously identified an impaired stream within the City, and although Mill Creek has been removed from the Final 2018 Alabama 303(d) list, the City continues to perform water monitoring at this time and assess the condition of said stream. The following table summarizes the previously found impairments for Mill Creek.

Table 1-3: Previously Impaired Waterbody Segments in the Urbanized Area

ASSESSMENT UNIT ID	WATERBODY NAME	USES	CAUSES	SOURCES
AL03130003-0101-100	Mill Creek	Fish & Wildlife	Organic Enrichment (CBOD,NBOD)	Urban development

1.3.1.1 Mill Creek

According to ADEM's 2016 303(d) list, Mill Creek was identified as being impaired in 2006. Mill Creek originates in Smiths Station and flows in a southeast direction towards Phenix City. The creek discharges into Holland Creek which flows through the City and discharges into the Chattahoochee River. The confluence is near the Phenix City Riverwalk directly below the Chattahoochee River Whitewater Park. Mill Creek is approximately 9.93 miles long and the previous impairment was listed for the entire length of the creek. The Holland Creek - Mill Creek subwatershed is approximately 15,729 acres in size and is highly urbanized with many subdivisions and ongoing construction activities.

Sources of organic enrichment from potential sources within the Holland Creek - Mill Creek subwatershed include:

- Failing septic systems
- Municipal storm water runoff
- Fecal matter from pets and wildlife
- Fertilizer application / yard waste

Part IV.D of the NPDES General Permit requires that the Storm Water Management Program Plan (SWMPP) include Best Management Practices (BMPs) and control measures specifically targeted to control discharges of pollutants associated with the impairment. The SWMPP must also include a monitoring program for parameters attributed to the 303(d) listed impairment.

As stated above, Mill Creek has been removed from the Alabama 303(d) list as of the 2018 list. No other impaired streams are located within the Phenix City MS4.

1.4 Annual Report Components

Part VI of the NPDES General Permit requires that the City of Phenix City develop and submit an Annual Report that reflect activities from April 1, 2021 through March 31, 2022 and include the following:

1. List of contacts and responsible parties for the participation of the Annual Report.
2. Evaluation of the SWMPP development and progress for the following:
    a. Major accomplishments
    b. Overall program strengths and weaknesses
    c. Future direction of the program
    d. Overall determination of the effectiveness of the SWMPP to water quality/watershed improvements
    e. Measurable goals that were not performed and reasons why
    f. Evaluation of monitoring data
3. Measurable goals for each of the five minimum control measures.
    a. Minimum control measures completed and in progress;
    b. An assessment of whether or not the existing BMPs are appropriate; and
    c. Proposed changes to the SWMPP, including changes to the BMPs or measurable goals.

4. Summary table of storm water controls planned for the upcoming year.
5. Progress toward reducing the discharge of pollutants to the maximum extent practicable.
6. Notice of reliance of another entity to satisfy some of the City's permit obligations, if any.
7. Results of the evaluation to determine if discharges from the City's MS4 directly or indirectly contributes to any waterbody on the 303(d) list, designated by the ADEM as impaired, or for which a TMDL has been established or approved by the EPA.
8. Monitoring data for the previous year, if required under Part V of the permit.

2.0 Contacts List

Part VI.4.a of the NPDES Permit requires that the City of Phenix City provide a list of contacts and responsible parties involved in the preparation of the Annual Report. The City of Phenix City Engineering Department, Mayor's office, and City Manager's office are collectively responsible for the coordination and implementation of the City's Annual Report. The individuals responsible for the coordination and implementation of the Annual Report are provided in the table below. Coordination between City Departments may be specified in each section of the 2021-2022 Annual Report. Questions concerning the 2021-2022 Annual Report should be directed to the Engineering Department.

Table 2-1: City Departments and Responsible Individuals

DEPARTMENT	CONTACT	PHONE NO.	EMAIL
Mayor's Office	Mayor Eddie N. Lowe	334-448-2701	elowe@phenixcityal.us
City Manager's Office	Wallace B. Hunter	334-448-2701	whunter@phenixcityal.us
Engineering Department	Angel Moore, P.E., City Engineer, Director of Engineering and Public Works	334-448-2760	amoore@phenixcityal.us
Engineering Department	Michael Pattillo, Assistant Director of Engineering and Public Works	334-448-2760	mpattillo@phenixcityal.us
Engineering Department	Jonathan Foster, Stormwater and Erosion Control Coordinator	334-448-2768	jfoster@phenixcityal.us

3.0 Program Evaluation

3.1 Major Accomplishments

3.1.1 Continued High Participation in Municipal Training

The City has an annual training program for municipal employees with a focus on pollution prevention, good housekeeping, illicit discharge identification, and other threats to the quality of storm water. A total of 51 employees of the City of Phenix City attended annual training this year held at the Martin Idle Hour Park Community Center. A copy of the sign in sheets and pictures of these training sessions can be found in **Appendix 2**.

3.1.2 Progress in Identifying Priority Areas

During the 2021-2022 reporting period, the City increased efforts in identifying priority areas through the stream walking program and through the continued development and adjustment of Illicit Discharge Potential (IDP) scores and calculations for each subwatershed. An Illicit Discharge Potential (IDP) Chart with scores for each delineated subwatershed has been included along with a list of Potential Generating Sites (PGS) from the EPA ECHO database. Maps showing subwatersheds, City sanitary sewer, and the locations of Potential Generating Sites have also been included in this report. These maps are part of our GIS compendium and can be provided with more detail upon request. The City will continue to maintain these scores and will adjust as necessary for accuracy.

The City had previously used the phrase "drainage basin" to identify areas in the City and MS4 that are more accurately conveyed by the word "subwatershed." From now on in reporting, the City will use the word "subwatersheds," as outlined in Table 1-2 above, to convey information regarding IDP scores in those subwatersheds and other relevant information.

3.1.3 Continued Stream-Walking Program

City personnel from the Engineering Department are developing and conducting a stream-walking program within the City limits. During the initial phase of the program, the City will continue to locate and identify outfalls and any illicit connections and discharges contributing pollutants into streams and/or the City's storm drainage system.

The City met its 2021-2022 reporting period goal of identifying outfalls. Forty-five outfalls were inspected and/or verified and a dry weather screening was conducted at each outfall. The City's outfall total is 345. No illicit discharges or connections were observed during screening.

3.1.4 Annual Post Construction Inspection

Each year the City performs annual inspections on post construction controls (detention ponds) to ensure that post construction BMPs are being maintained by the owners and are functioning as designed. Letters are then sent to the owner or responsible parties detailing any corrections or maintenance that will be needed. Follow up inspections are performed to ensure that items are addressed. This year annual inspections were made at 108 detention ponds.

3.1.5 Continued Storm Water Monitoring

The City's monitoring program assesses the effectiveness of the control measures and BMPs in reducing impacts from organic enrichment in Mill Creek. The intent of the monitoring program is to provide sufficient data for evaluation as to whether or not the quality of the receiving waters are sustaining or improving as a result of the control measures and BMPs. The City currently has 4 monitoring locations along Mill Creek and Holland Creek.

During the 2021-2022 reporting period, the City also recorded storm water rainfalls for 24 hour rain events. A total of 55.9" of rain was recorded for the reporting year.

3.1.6 Steps toward agreement with the Chattahoochee River Conservancy

During the 2020-2021 reporting period, the City of Phenix City entered into a discussion with the Chattahoochee River Conservancy acknowledging terms to an agreement to help clean Phenix City tributaries to the Chattahoochee River. Proposed trash traps have been installed, maintained and operated in Mill and Holland Creek by the volunteers of the Chattahoochee River Conservancy.

3.1.7 Reduction in Pollutants

Phenix City has four testing locations along Holland and Mill Creek. Samples are collected and sent to Auburn Environmental Consulting & Testing for the testing of CBOD, Orthophosphate, TKN, Nitrate & Nitrite, and total Phosphorus pollutants. During this reporting year the largest reductions in pollutants seen at all four testing locations included the CBOD and the total Phosphorus levels. Both CBOD and the total phosphorus levels contribute to strain on life in the creek ecosystem. CBOD leaches the dissolved oxygen in the water making it difficult for aquatic life to function. Excess phosphorus nutrients being washed into the creeks also contribute to an unhealthy water quality. The efforts performed in the previous years to get Mill Creek off the 303(d) list continue to produce positive results of a recovering creek ecosystem.

3.1.8 Upgrades to Efficiency

During this reporting period, Phenix City started transitioning to electronic documentation. Bluebeam is a collaborative pdf editing software that enables multiple users to comment and edit storm water and erosion control plans. Inspection reports have started to become digital as well making the process and recording easier.

3.1.9 Phase II MS4 Permit Renewal

The ADEM General NPDES permit ALR040000 expired September 30, 2021 and a new permit was effective October 1, 2021. The City's MS4 Permit ALR040019 was renewed and expires September 30, 2026. A copy of this permit can be found on ADEM's AEPACS website or on the City's Stormwater Management webpage under "City of Phenix City Storm Water Management Program Plan."

3.1.10 SWMPP and IDDE updates

As a result of changes to the City's Storm Water Management Program and the updates made by ADEM and the EPA to the Phase II MS4 General Permit ALR040000 (Permit), the City's SWMPP has been updated to comply with permit coverages under Part III and approved by City Council. Included in the SWMPP update, the IDDE program plan was amended to comply with current permit coverages under Part III.B.2 of the Permit. See the City's Stormwater Management webpage to view these updates.

3.1.11 Stormwater and Erosion Control Coordinator

The City recently hired Mr. Jonathan Foster to fill the open Stormwater and Erosion Control Coordinator positon within the Phenix City Engineering Department. Mr. Foster is a graduate of the University of South Alabama, holding a Bachelor's Degree in Biology. Mr. Foster comes to the city with experience in the environmental consulting field with an emphasis on Stormwater and Natural Resources.

3.1.12 Stormwater Monthly Meetings

As of December 2021, the Engineering Department holds a monthly stormwater meeting. The topics covered in this meeting include topics like construction stormwater inspections, outfall reconnaissance inventory inspections, structural BMP inspections, scheduling for employee training and public education, and site specific issues related to stormwater in Phenix City. The City Engineer, several Graduate Civil Engineers, the City Inspector, the Stormwater and Erosion Control Coordinator, and several other individuals directly involved with the SWMP attend the monthly meeting.

3.1.13 Pre-Construction Inspections

During the 2021-2022 reporting year, the City implemented a new pre-construction inspection to ensure lot drainage and BMP installation complies with the drainage and erosion control plans approved by the City. This will prevent some erosion and sediment control issues in the future and will keep developers, homebuilders, and contractors accountable to approved erosion control plans and land disturbance permits.

3.2 Overall Program Strengths/Weaknesses

The first strength of the City's Storm Water Management Program is the increased clarity provided with the adoption of the SWMPP and IDDE policies, and their relative ordinances, both approved in 2017 and updated in 2022. These policies have made both the goals of the storm water program, and the path to achieve these goals, more clear. The IDDE Ordinance and the Erosion and Sediment Control Policy have also established legal authority to more decisively regulate the control of pollutants and the permitting of land disturbances.

A second strength is our proactive approach to handling potential Storm Water issues and our ability to continue efficiency with our current resources. With each reporting period we are able to identify more areas within our program that need work and adjust our approach accordingly. Our relationships with contractors have allowed us to better prevent illicit discharges during and post construction.

The main weakness of the City's SWMPP remains the lack of staff dedicated to the implementation of the program. The Engineering Department manages the Storm Water Management Program responsibilities and the MS4 Permit. The majority of the work is currently handled by two people. Even with a strain on resources, the City remains proactive in handling illicit discharges and other storm water management goals and is confident about the direction of the program.

A second challenge facing the program is the existence of grey areas in the requirement to maintain post construction BMPs. While the majority of our detention systems are being maintained by their owners, there are detention systems that have been allowed to return to ownership of the State. The City is now required to take over maintenance of these ponds owned by the State. This creates a strain on the Public Works/Engineering departments to allocate the staff and funds to maintain these facilities. Low staffing has created an issue for maintaining these systems. We are also encountering both permitted and non-permitted facilities which are owned by limited liability corporations that have dissolved since the completion of developments. These and other situations involving dissolution of companies like this have created a need to produce definitive standard operating procedures handling these instances. A future solution for this issue is adding an operations and maintenance agreement to the City Public Works Manual. This manual is currently under review by City Council.

The third challenge in this program is the lack of employees dedicated to the requirements set forth in the MS4 permit and the SWMPP. We have lost one experienced employee that helped implement the program. We will continue the program with our current staffing; however, we are looking to hire more individuals that can benefit the program.

3.3 Future Direction of the Program

During the upcoming reporting period, the City plans to continue:

- The advancement of the Storm Water Management Program Plan.
- The advancement of the Illicit Discharge Detection and Elimination Program
- The stream-walking program, locating and documenting outfalls in accordance with the Storm Water Management Program Plan, and renewed MS4 Permit requirements.
- Ranking outfalls and identifying Priority Areas
- Working towards the development of a Post-Construction Storm Water Management Ordinance
- Working towards the development and review of a new Public Works Manual

4.0 Agency Certification

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

ATTEST:

Eddie N. Lowe 05/27/22

Eddie N. Lowe, Mayor Date
City of Phenix City, Alabama

Melony Lee 05/27/22

Melony Lee, City Clerk Date
City of Phenix City, Alabama

Wallace B. Hunter 05/27/22

Wallace B. Hunter, City Manager Date
City of Phenix City, Alabama

THE CITY OF PHENIX CITY

CONTROL MEASURE 1 - PUBLIC EDUCATION AND PUBLIC INVOLVEMENT

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**Storm Water Web Page:** Maintain the Storm Water web page on the City's Website.	The City has updated and maintained the Storm Water web page on the City's website.	The City will continue maintaining and updating the Storm Water Webpage on the City's website.	https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes
2	**Annual Report and SWMPP Availability:** Provide the SWMPP and current Annual Report for public viewing on the City's website.	The City has posted the current copy of the SWMPP and the current copy of the 2021-2022 Annual Report on the City's webpage for viewing.	The City will continue to provide a copy of the current SWMPP and Annual Report for public viewing on the City's webpage.	https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes
3	**Storm Water Educational Material:** Develop and distribute educational materials to citizens and business owners by placement at City locations.	The City is currently distributing educational materials to citizens and business owners by placement at City locations. 10 brochures were distributed.	The City will continue looking for new educational materials to educate employees, citizens and business owners.	Copies of all education materials are available upon request.	No proposed changes at this time.	Yes
4	**Help the Hooch:** Promote and participate in the annual cleanup for the Chattahoochee River.	The City helped promote the Help the Hooch annual cleanup for the Chattahoochee River by advertising on the City's webpage and on City marquees. Public Works hauled trash and debris that was pulled out of the river from the event.	The City will continue advertising and participating in the Help the Hooch annual cleanup.	Amount of trash and debris are included in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.	No proposed changes at this time.	Yes
5	**Riverwalk Cleanup:** Cleanup and maintenance of the 1.1-mile Riverwalk structure.	The Parks and Recreation Department maintains the 1.1-mile Riverwalk structure.	The Parks and Recreation Department will continue maintaining the 1.1-mile Riverwalk structure.	Amount of trash and debris are recorded in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.	No proposed changes at this time.	Yes
6	**Partnerships in Educational and Public Involvement Events:** Partner with Auburn University, EPA, and ADEM to improve Mill Creek, distribute educational materials and promote events.	The City distributes educational material quarterly and promotes events on City marquees. Inspired by the accomplishments evident with the completion of the Mill Creek Project, the City is currently researching new opportunities and partnerships.	The City will look for new ways to help improve Mill Creek by distributing new educational material and continue to volunteer and promote events.	The City publishes newsletters giving helpful tips and ways to reduce pollution within the City's waterways.	No proposed changes at this time.	Yes

7	**Recycling Center:** Manage drop-off facilities at 1100 Airport Road and 709 12th Street	The City is currently managing both drop-off facilities. 85.5 tons of recyclables were reported for the 2021-2022 reporting period.	The City will continue managing the recycling drop-off locations. The City is currently investigating a Possible location for a 3rd Recycling Center to promote and encourage more recycling.	**https://phenixcityal.us/engineering-public-works/public-works-division/recycling-centers/**	No proposed changes at this time.	Yes
8	**Public Reporting and Tracking System:** Provide a contact number on the City's Storm Water Management webpage for the public to provide input on the development, revision, and implementation of the SWMPP.	The City currently has contact information on the Storm Water Management webpage for the public to provide input on the development, revision, and implementation of the SWMPP.	This activity's implementation status has proven to be effective and will continue to provide input on the development, revision, and implementation of the SWMPP.	**https://phenixcityal.us/action-center/** **https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/**	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY

CONTROL MEASURE 2 - ILLICIT DISCHARGE DETECTION AND ELIMINATION

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**Identify Priority Areas:** Evaluate the subwatersheds and determine the Priority Areas for the reporting period.	The City is actively evaluating drainage areas to determine the Priority Areas.	The City will continue evaluating drainage areas to establish Priority Areas.	The City has included a chart with the Illicit discharge potential for each subwatershed. The City will continue to update the chart.	No proposed changes at this time.	Yes
2	**Outfall Identification:** Implement a stream-walking program to identify outfalls and reevaluate known outfalls.	The City continues to implement The stream-walking program to Identify outfalls and re-evaluate any Known outfalls. 45 outfalls verified for 2021-2022. 345 total outfalls located/identified since permit renewal.	The City will continue implementing a stream-walking program to identify outfalls and re-evaluate any known outfalls.	The City will report the number of outfalls identified and The stream length walked that reporting period. All located outfalls will be added to the City's outfall location map.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
3	**Probable Outfall Verification:** Add probable outfalls to the Storm Sewer System Map and label as unverified. Verify outfalls within 18 months.	The City receives as-built surveys of new developments and field verifies outfalls prior to acceptance into the City of Phenix City maintenance program. 0 probable outfalls. 45 outfalls verified.	The City will continue to field verify outfalls that are identified on as-built surveys received and locate the identified outfalls in GIS. The City will continue to map probable outfalls.	The City will report the number of probable outfalls that were verified during the reporting period.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
4	**Outfall Reconnaissance Inventory:** Conduct dry weather monitoring of 15% of major outfalls in Priority Areas.	The City has located and inspected 45 outfalls. Dry weather monitoring activities may be combined with outfall verification as described in Activity 3.	The City will continue dry weather monitoring and report the number outfalls inspected during the reporting period.	Outfall Reconnaissance Inventory Field Sheets will be available upon request.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
5	**Suspect Discharge Sampling:** Field crews will collect samples of suspected illicit discharges for laboratory analysis.	1 suspect illicit discharge was Investigated and elimainated. No samples were collected. See documentation in appendices.	The City will continue sampling any suspected discharges observed during scheduled inspections.	If any suspect discharges are identified, the outfall will be sampled and the City will report the laboratory analysis results for the collected samples.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
6	**Outfall Ranking:** Designate the inspected outfalls as having obvious, suspect, possible, or unlikely discharge potential based on data from each ORI Field Sheet.	45 outfalls were located and verified as having unlikely discharge potential.	The City will Continue to designate rankings of outfalls based on investigations, scheduled inspections and results from the ORI Field Sheet.	If any discharges are identified, a laboratory analysis will be available upon request.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
7	**Discharge Investigation:** Illicit discharge investigations will be performed to determine the source of a discharge problem.	1 suspect discharge was identified and laboratory analysis was not required for identification of discharge source.	The City will continue to investigate all illicit discharges and determine the source of the discharge problem.	If any source of discharges are determined the City will report the number of investigations and the number of confirmed reported discharges during the reporting period.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.

8	**Corrective Action Record Keeping:** Create a case log detailing pertinent information for each identified suspect illicit discharge or illicit connection.	The City is developing a case log detailing pertinent information for each identified illicit discharge or illicit connection. 1 reported illicit discharge. 1 reported corrective action.	The City will maintain a case log for each identified illicit discharge or illicit connection and the corrected actions taken.	If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.	No proposed changes at this time.	Yes
9	**Update Storm Water System Map - Existing Features:** Update the existing Storm Water System Map as new outfalls are identified and BMPs are added.	The City is currently updating it's existing Storm Water System Map as new outfalls are identified and as new BMPs are added.	The City will continue updating it's Storm Water System Map and state whether updates were made and, if needed, provide an updated Storm Water System Map showing the features added during the reporting period.	The City will provide a current copy of the Storm Water System Map each reporting period.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
10	**Update Storm Water System Map - Future Additions:** Proposed additions to the City MS4, including new storm sewer and drainage ditches, will be mapped based on the civil plans provided to the City.	The City is currently updating it's existing Storm Water System Map with proposed additions from as-built surveys submitted of new development features and conveyances. New outfalls are verified after construction is complete. 16 new construction plans were submitted to the City. 0 new outfalls were verified.	The City will continue updating it's Storm Water System Map and state whether updates were made and, if needed, provide an updated Storm Water System Map showing the features, conveyances or outfalls added during the reporting period.	The City will provide a current copy of the Storm Water System Map each reporting period.	No proposed changes at this time.	Yes Goal for outfalls met for this permit cycle.
11	**Evaluate IDDE Ordinance:** IDDE Ordinance Chapter 10 ½ Storm Water Management was approved on February 7, 2017 and will define illicit discharge and responsibility. Evaluate the effectiveness of the Ordinance each reporting period.	The City's IDDE Ordinance 10 ½ Storm Water Management was approved and adopted on February 7th, 2017. This reporting period, the City had: 1 potential qualifying new businesses. 1 complaint received. 1 illicit discharges identified. 1 resolved potential violations. 0 repeat offenders 1 notice letters sent	The City will evaluate the Ordinance to determine the effectiveness in addressing identified illicit discharges and preventing repeat offenders. The City will report the number of complaints received, number of illicit discharges identified during the reporting period, the number of resolved violations, the number of repeat offenders, and the number of enforcement actions.	If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.	No proposed changes at this time.	Yes
12	**Distribute Storm Water Educational Material:** Distribute educational materials to the public, highlighting identification and reporting of potential illicit discharges.	The City is currently distributing Educational material to the public, highlighting identification and reporting of potential illicit discharges.	The City will continue distributing educational material to the public, highlighting identification and reporting of potential illicit discharges.	The City will provide copies of distributed educational material during the reporting period.	No proposed changes at this time.	Yes

13	**Public Reporting and Tracking:** Provides a phone number and electronic form on website for public to report non-compliant construction sites, illicit discharges, impaired waters, and ordinance violations.	The City currently provides a contact number on the City's Storm Water Management webpage for the public to report non-compliant construction sites, illicit discharges (including spills or illegal dumping), impaired waterways, and violations of ordinances relating to storm water pollution. 1 Illicit discharge complaint was received.	The City will continue to provide reporting methods and provide educational materials on the storm water webpage. The City will evaluate the current public reporting and tracking methods annually to determine effectiveness of public reporting.	**https://phenixcityal.us/action-center/** **https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/**	No proposed changes at this time.	Yes
14	**Municipal Training:** Train City personnel on the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at facilities.	The City is implementing training material for the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at the City's facilities. 51 City employees attended municipal training sessions during The 2021-2022 reporting period.	Municipal training for all facility employees will continue annually.	The City will keep attendance records and report the number of municipal workers trained during the reporting period. Attendance records are available upon request.	No proposed changes at this time.	Yes
15	**Storm Water Monitoring Locations:** Update existing Storm Water System Map with storm water monitoring locations.	The City has updated it's Storm Water System Map with the current storm water monitoring locations.	Storm water monitoring at these locations have proven to be effective for determining storm water quality and the City will continue monitoring for each reporting period.	The City will provide a Storm Water System Map showing the locations during the reporting period.	No proposed changes at this time.	Yes
16	**Evaluation of Monitoring Data:** Evaluate the collected monitoring data and make recommendations to add and/or modify monitoring points.	The City currently monitors four (4) locations along Mill Creek and Holland Creek. No abnormal data has been detected.	The City will continue to evaluate the effectiveness of the monitoring locations.	The City will report which monitoring points appear to have relatively higher pollutant loads. The City may add and/or modify monitoring points to better characterize discharges from the MS4.	No proposed changes at this time.	Yes
17	**NPDES Industrial Permitting:** Obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities.	The City will evaluate and obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities. Unpermitted facilities that require an NPDES permit will be reported to the Industrial Section of the ADEM in Montgomery, Alabama. 0 Unpermitted facilities were reported.	The City will continue to evaluate and obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and continue to report unpermitted facilities. Any unpermitted facilities will be Reported to ADEM.	The City will provide the number of Unpermitted facilities reported to ADEM during the reporting period.	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY

CONTROL MEASURE 3 - CONSTRUCTION SITE STORM WATER RUNOFF

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**Erosion and Sediment Control Ordinance:** The City's Erosion and Sedimentation Control Policy gives authority for City to implement its Construction Site Storm Water Runoff Program. Evaluate the effectiveness of the Policy each reporting period.	The City is currently implementing and evaluating the effectiveness of it's Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007. 5 non-compliant construction sites identified by the City. 5 enforcement action taken 0 sites reported to ADEM. 0 repeat offenders.	The City will continue to implement and evaluate the effectiveness of it's Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007. The City will evaluate the effectiveness of the Policy during each reporting period. If changes are warranted, a new or revised ordinance will be approved and implemented by the City Council.	The City has copies of non-Compliant letters available upon Request. https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes
2	**Sediment and Erosion Control Plan Review:** Review Sediment and Erosion Control Plans for all permit applications.	The City currently reviews the Sediment and Erosion Control Plans for all permit applications. Plan review ensures proposed projects adequately address the City's erosion, sediment, and pollution control requirements and takes into consideration what potential impacts to water quality the project may have. 16 plans have been submitted. 16 plans have been reviewed. 11 plans have been approved. 0 plans have been denied. 3 plans that meet the requirements of the Alabama Construction General Permit.	The City will continue to Review Sediment and Erosion Control Plans for all permit applications.	Copies of Sediment and Erosion Control Plans will be available upon request.	No proposed changes at this time.	Yes
3	**Construction Site Inspection Program:** Conduct inspections of qualifying construction sites within 60 days of initial disturbance, periodically during construction, and following stabilization.	Designated City personnel inspect all qualifying construction sites after initial disturbance, once a month or after each qualifying rain event during construction, and following stabilization. A combined 349 inspection reports, directly concerning ESC or storm water issues, were created between all Engineering Dept. inspectors. 14 non-compliant construction sites identified by the City. 7 enforcement actions taken. 1 non-compliant construction sites are repeat offenders.	Designated City personnel will continue to inspect all qualifying construction sites after initial disturbance, once a month or after each qualifying rain event during construction, and following stabilization.	The city has provided an example of an inspection conducted during the reporting period. The City has a list of construction sites and copies of inspection reports available upon request.	No proposed changes at this time.	Yes

4	**BMP Training Program:** Conduct annual training for City inspectors and reviewers.	City personnel currently continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections. Paul Chastain (QCI #T0716), Bo Greene (QCI #T5719) Jimmy Cook (QCI #T6191) Richard Carlson (QCI#63899) Jonathan Foster (QCI #T7190) QCI certifications were maintained through the approved initial and annual refresher courses. Paul Chastain (CSI Certificate #8867) Has completed the requirements for Certified Stormwater Inspector	The City will continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections.	The City has provided copies of the QCI certificates and/or records of awareness training received during the reporting period.	No proposed changes at this time.	Yes
5	**Public Reporting and Tracking:** Provides a phone number and electronic form on website for public to report non-compliant construction sites, illicit discharges, impaired waters, and ordinance violations.	The City currently provides a phone number and electronic forms on the City's webpage for the public to report: - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations. 10 inquiries received. 10 complaints addressed. 10 complaints resolved.	The City will continue to provide a phone number and electronic forms on the City's webpage for the public to report: - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations.	**https://phenixcityal.us/action-center/** **https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/**	No proposed changes at this time.	Yes
6	**Notify ADEM of Non-Compliant Sites:** The City will notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.	The City will notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred. 0 non-compliant construction sites were reported to ADEM.	The City will continue to notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.	No documents available at this time.	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY
CONTROL MEASURE 4 - POST-CONSTRUCTION STORM WATER MANAGEMENT
Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**Post-Construction Storm Water Management Policy:** City's Erosion and Sediment Control Policy allows the City to enforce the design and implementation of post construction storm water management BMPs. Evaluate the effectiveness of the Policy each reporting period.	The City is currently implementing and evaluating the effectiveness of it's Post Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007. 16 plans have been submitted and include measures to reduce runoff volume.	The City is in the process of implementing and updating a Post Construction Site Storm Water Runoff Program.	A copy of the Erosion and Sediment Control Policy is available upon request, or it can be viewed on the City's Storm Water Webpage at: https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	The City will develop a separate Post-Construction Storm Water Ordinance	In Progress
2	**Long-Term Maintenance for Storm Water Controls:** Erosion and Sediment Control Policy allows City to ensure long-term operation and maintenance of storm water management BMPs. Evaluate the effectiveness of the Policy each reporting period.	The City currently implements the Erosion and Sediment Control Policy to ensure adequate long-term operation and maintenance of post construction storm water management BMPs.	The City will continue to implement The Erosion and Sediment Control Policy and evaluate its effectiveness each reporting period. The City is in the process of developing a post construction storm water maintenance agreement.	Copies of plans and agreements are available upon request.	No proposed changes at this time.	In Progress
3	**Evaluate Obstacles to Low Impact/Green Development:** Review and evaluate policies and ordinances to identify regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.	The City does not currently evaluate, have a policy or have an ordinance to identify regulatory and policy impediments to the installation of green infrastructure (GI) and low-impact development (LID) techniques. The City has included links to the EPA's LID guidance and the ADEM's LID Handbook for the State of Alabama.	The City will review and evaluate policies and ordinances related to building codes, or other local regulations, with a goal of identifying regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.	No documents available at this time.	No proposed changes at this time.	Yes
4	**Plan Review:** Review sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application.	The City currently reviews sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application. 16 plans were submitted for review.	The City will continue to review Sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application.	Copies of plans are available for review upon request.	No proposed changes at this time.	Yes

5	**Post Construction Site Inspection Program:** Inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan. Annually inspect each site to confirm post-construction BMPs are functioning as designed. Evaluate the effectiveness of the inspection program.	Designated personnel currently inspects post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan. 108 detention ponds were inspected. 3 new detention ponds were installed.	Designated personnel will continue to inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan.	The City will maintain inspection documentation for review upon request.	No proposed changes at this time.	Yes
6	**Post-Construction Structural Controls Inventory:** Update an inventory of post-construction structural controls including those owned by the City.	The City will compile an inventory of post-construction structural controls including those owned by the City.	The City will continue maintaining an inventory of post-construction structural controls including those owned by the City.	The City will maintain an inventory of post-construction structural controls including those owned by the City. Documents are available upon request.	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY

CONTROL MEASURE 5 - POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**Municipal Facilities:** Maintain a list of municipal facilities that have the potential to discharge pollutants through storm water runoff. Inspect facilities for good housekeeping practices.	The City has 11 municipal facilities that have the potential to discharge pollutants through storm water runoff and inspects these facilities quarterly for good housekeeping practices. 0 Deficiencies Noted	Continue monitoring the municipal facilities for good housekeeping and storm water pollution prevention through a municipal quarterly BMP inspection checklist.	The City has provided an example municipal quarterly BMP inspection checklist. Copies of municipal quarterly BMP inspection checklist are available upon request.	No proposed changes at this time.	Yes
2	**Employee Training:** Training program for municipal employees that focuses on pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality.	The City developed training material for pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality. 51 City employees attended municipal training sessions during the 2021-2022 reporting period.	Municipal training will continue annually.	The City will keep attendance records and report the number of municipal workers trained during the reporting period. Attendance records are available upon request.	No proposed changes at this time.	Yes
3	**Vehicle Maintenance Program:** Conduct routine inspections of municipal vehicles and equipment.	The City conducts routine inspections of municipal vehicles and equipment.	Continue routine inspections of municipal vehicles and equipment.	The City's inspections of municipal vehicles and equipment is logged through PubWorks and copies of inspections are available upon request.	No proposed changes at this time.	Yes
4	**Litter and Debris Pickup Policy:** City Ordinance Section 12-5 provides curbside collection of limbs and debris on a weekly basis.	Per City Ordinance Section 12-5, The City is currently providing a curbside pickup of limbs and debris on a weekly basis. 3,908 tons of limbs and debris were reported for the 2021-2022 reporting period.	The City will continue providing a curbside pickup of limbs and debris on a weekly basis.	Copies of City's solid waste quarterly reports are available upon request. The City's Limb and Debris Pickup Policy can be reviewed at: **https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/**	No proposed changes at this time.	Yes
5	**Large Item Pickup Policy:** City Ordinance Section 12-5 provides curbside collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.	The City is currently providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis. The amount of curbside pickup is included in the solid waste quarterly report.	The City will continue providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.	Copies of City's solid waste quarterly reports are available upon request. The City's Limb and Debris Pickup Policy can be reviewed at: **https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/**	No proposed changes at this time.	Yes

6	**Litter, Floatables, and Debris - Recycling Program:** Manage drop-off facilities at 1100 Airport Road and 709 12th Street. Manage tire removal program.	The City manages a voluntary recycling program. The City offers two drop-off locations within the City. This program is advertised on the City website. The materials accepted as part of this program are provided on the website. 85.5 tons of recyclables were reported for the 2021-2022 reporting period. Approximately 1,631 tires were removed during the reporting period.	The City will continue to manage a voluntary recycling program. The City offers two drop-off locations within the City. This program is advertised on the City website. The materials accepted as part of this program are provided on the website as well. The City will evaluate and consider the addition of a third recycling location.	Quarterly reports for recyclables are available upon request. **https://phenixcityal.us/engineering-public-works/public-works-division/recycling-centers/**	No proposed changes at this time.	Yes

Appendix I – Figures

Outfall Number	Latitude	Longitude	Description	Stream
Outfall 1	32.520469	-85.066078	DITCH	HOLLAND CREEK
Outfall 2	32.510986	-85.049103	DITCH	HOLLAND CREEK
Outfall 3	32.510853	-85.049214	DITCH	HOLLAND CREEK
Outfall 4	32.501694	-85.038222	36" RCP	HOLLAND CREEK
Outfall 5	32.501858	-85.038172	18" RCP	HOLLAND CREEK
Outfall 6	32.502128	-85.038389	DITCH	HOLLAND CREEK
Outfall 7	32.490183	-84.998906	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 8	32.490228	-84.998919	FLUME	UNNAMED TRIBUTARY
Outfall 9	32.490203	-84.998822	FLUME	UNNAMED TRIBUTARY
Outfall 10	32.490983	-84.996614	24" RCP	CHATAHOOCHEE RIVER
Outfall 11	32.490522	-84.996544	18" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 12	32.490036	-85.000164	18" CMP	UNNAMED TRIBUTARY
Outfall 13	32.489203	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 14	32.489189	-85.001806	FLUME	UNNAMED TRIBUTARY
Outfall 15	32.489142	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 16	32.489181	-85.001625	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 17	32.489244	-85.001658	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 18	32.489158	-85.005019	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 19	32.489472	-85.006853	36" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 20	32.490567	-85.026297	(2) 30" RCP	HOLLAND CREEK
Outfall 21	32.513681	-85.027664	42" CMP	HOLLAND CREEK
Outfall 22	32.513683	-85.027600	DITCH	HOLLAND CREEK
Outfall 23	32.503319	-85.034314	DITCH	UNNAMED TRIBUTARY
Outfall 24	32.504250	-85.034106	DITCH	UNNAMED TRIBUTARY
Outfall 25	32.502442	-85.034425	FLUME	UNNAMED TRIBUTARY
Outfall 26	32.502306	-85.034417	FLUME	UNNAMED TRIBUTARY
Outfall 27	32.478350	-85.049522	24" RCP	MILL CREEK
Outfall 28	32.491567	-85.042697	DITCH	MILL CREEK
Outfall 29	32.490244	-85.037231	DITCH	MILL CREEK
Outfall 30	32.490050	-85.037203	FLUME	MILL CREEK
Outfall 31	32.490150	-85.037392	FLUME	MILL CREEK
Outfall 32	32.490358	-85.037378	FLUME	MILL CREEK
Outfall 33	32.491778	-85.033092	DITCH	HOLLAND CREEK

Outfall 34	32.491928	-85.033239	FLUME	HOLLAND CREEK
Outfall 35	32.491981	-85.033083	DITCH	HOLLAND CREEK
Outfall 36	32.491917	-85.033017	DITCH	HOLLAND CREEK
Outfall 37	32.483475	-85.028461	24" RCP	HOLLAND CREEK
Outfall 38	32.483978	-85.027750	24" RCP	HOLLAND CREEK
Outfall 39	32.514572	-85.003631	24" RCP	CHATAHOOCHEE RIVER
Outfall 40	32.514514	-85.004131	24" RCP	CHATAHOOCHEE RIVER
Outfall 41	32.514181	-85.004756	24" RCP	CHATAHOOCHEE RIVER
Outfall 42	32.514525	-85.004619	DITCH	CHATAHOOCHEE RIVER
Outfall 43	32.514597	-85.004547	BOAT RAMP	CHATAHOOCHEE RIVER
Outfall 44	32.434822	-85.012436	DITCH	COCHGALECHEE CREEK
Outfall 45	32.488878	-85.033781	FLUME	MILL CREEK
Outfall 46	32.489225	-85.034119	FLUME	MILL CREEK
Outfall 47	32.489100	-85.034406	CURB INLET	MILL CREEK
Outfall 48	32.489000	-85.034725	FLUME	MILL CREEK
Outfall 49	32.489031	-85.035522	24" CONCRETE PIPE	MILL CREEK
Outfall 50	32.507547	-85.004239	FLUME	CHATAHOOCHEE RIVER
Outfall 51	32.463653	-84.998917	24" RCP	CHATAHOOCHEE RIVER
Outfall 52	32.463278	-84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 53	32.463228	-84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 54	32.453925	-84.996019	DITCH	CHATAHOOCHEE RIVER
Outfall 55	32.433819	-84.992158	30" CONCRETE PIPE	COCHGALECHEE CREEK
Outfall 56	32.433825	-84.992125	24" RCP	COCHGALECHEE CREEK
Outfall 57	32.434311	-84.992367	24" CMP	COCHGALECHEE CREEK
Outfall 58	32.434333	-84.992350	24" CMP	COCHGALECHEE CREEK
Outfall 59	32.471136	-84.997647	18" RCP	CHATAHOOCHEE RIVER
Outfall 60	32.472006	-84.997347	15" RCP	CHATAHOOCHEE RIVER
Outfall 61	32.472525	-84.997186	12" RCP	CHATAHOOCHEE RIVER
Outfall 62	32.473381	-84.996956	36" RCP	CHATAHOOCHEE RIVER
Outfall 63	32.474194	-84.996297	24" RCP	CHATAHOOCHEE RIVER
Outfall 64	32.474103	-84.996383	36" RCP	CHATAHOOCHEE RIVER
Outfall 65	32.474642	-84.995864	36" RCP	CHATAHOOCHEE RIVER
Outfall 66	32.475569	-84.995711	18" RCP	CHATAHOOCHEE RIVER
Outfall 67	32.477058	-84.995553	24" CMP	CHATAHOOCHEE RIVER

Outfall 68	32.478169	-84.995558	24" CMP	CHATAHOOCHEE RIVER
Outfall 69	32.478622	-84.995336	FLUME	CHATAHOOCHEE RIVER
Outfall 70	32.480781	-84.995283	18" CMP	CHATAHOOCHEE RIVER
Outfall 71	32.506703	-85.003631	48" RCP	UNNAMED TRIBUTARY
Outfall 72	32.506625	-85.003536	12' CULVERT	UNNAMED TRIBUTARY
Outfall 73	32.497017	-85.034225	MONITORING LOCATION 1	HOLLAND CREEK
Outfall 74	32.468581	-85.006019	18" RCP	HOLLAND "MILL" CREEK
Outfall 75	32.468711	-85.006247	18" RCP	HOLLAND "MILL" CREEK
Outfall 76	32.471231	-85.009125	18" RCP	HOLLAND "MILL" CREEK
Outfall 77	32.471453	-85.009214	24" CLAY PIPE	HOLLAND "MILL" CREEK
Outfall 78	32.471256	-85.009506	24" RCP	HOLLAND "MILL" CREEK
Outfall 79	32.488050	-85.060822	MONITORING LOCATION 3	MILL CREEK
Outfall 80	32.465211	-84.998792	DITCH	HOLLAND "MILL" CREEK
Outfall 81	32.465214	-84.998992	DITCH	HOLLAND "MILL" CREEK
Outfall 82	32.465179	-84.999224	FLUME	HOLLAND "MILL" CREEK
Outfall 83	32.465481	-84.002677	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 84	32.467650	-84.002130	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 85	32.467740	-84.002221	4" PVC PIPE	HOLLAND "MILL" CREEK
Outfall 86	32.467769	-85.002291	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 87	32.468290	-85.003570	96" CMP	HOLLAND "MILL" CREEK
Outfall 88	32.467601	-85.002677	FLUME	HOLLAND "MILL" CREEK
Outfall 89	32.449090	-85.029244	24" RCP	UNNAMED TRIBUTARY
Outfall 90	32.467810	-85.003965	DITCH	HOLLAND "MILL" CREEK
Outfall 91	32.468470	-85.004785	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 92	32.449133	-85.029175	DITCH	UNNAMED TRIBUTARY
Outfall 93	32.470700	-85.004040	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 94	32.470321	-85.015066	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 95	32.470320	-85.015060	6" PIPE	UNNAMED TRIBUTARY
Outfall 96	32.470250	-85.015200	6" PIPE	UNNAMED TRIBUTARY
Outfall 97	32.470250	-85.015195	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 98	32.470140	-85.015380	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 99	32.471010	-85.014691	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 100	32.471090	-85.014630	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 101	32.471067	-85.014614	DRAIN INLET	UNNAMED TRIBUTARY

Outfall 102	32.471069	-85.014723	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 103	32.469840	-85.013920	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 104	32.469850	-85.013850	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 105	32.488361	-85.030111	DITCH/TRIBUTARY CREEK	HOLLAND "MILL" CREEK
Outfall 106	32.479991	-85.026190	15" RCP	HOLLAND "MILL" CREEK
Outfall 107	32.478850	-85.023311	36" CMP	HOLLAND "MILL" CREEK
Outfall 108	32.478720	-85.021264	FLUME	HOLLAND "MILL" CREEK
Outfall 109	32.474402	-85.017163	24" RCP	HOLLAND "MILL" CREEK
Outfall 110	32.467072	-85.001814	MONITORING LOCATION 2	HOLLAND "MILL" CREEK
Outfall 111	32.488556	-85.030772	MONITORING LOCATION 4	HOLLAND/MILL CREEK
Outfall 112	32.484768	-85.028844	24" RCP	HOLLAND "MILL" CREEK
Outfall 113	32.473952	-85.026133	FLUME	UNNAMED TRIBUTARY
Outfall 114	32.473971	-85.026100	FLUME	UNNAMED TRIBUTARY
Outfall 115	32.473942	-85.026083	18" RCP	UNNAMED TRIBUTARY
Outfall 116	32.474101	-85.026100	30" RCP	UNNAMED TRIBUTARY
Outfall 117	32.474112	-85.026587	18" CMP	UNNAMED TRIBUTARY
Outfall 118	32.473904	-85.028302	14" HDP	UNNAMED TRIBUTARY
Outfall 119	32.474009	-85.028801	12" RCP	UNNAMED TRIBUTARY
Outfall 120	32.472869	-85.031381	16" CMP	UNNAMED TRIBUTARY
Outfall 121	32.472714	-85.031582	36"CMP	UNNAMED TRIBUTARY
Outfall 122	32.474010	-85.025948	FLUME	UNNAMED TRIBUTARY
Outfall 123	32.472453	-85.025778	FLUME	UNNAMED TRIBUTARY
Outfall 124	32.472633	-85.025740	FLUME	UNNAMED TRIBUTARY
Outfall 125	32.473367	-85.025262	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 126	32.473520	-85.024956	FLUME	UNNAMED TRIBUTARY
Outfall 127	32.473830	-85.023483	48" CMP	UNNAMED TRIBUTARY
Outfall 128	32.473921	-85.023044	4" CLAY	UNNAMED TRIBUTARY
Outfall 129	32.474367	-85.021936	18" RCP	UNNAMED TRIBUTARY
Outfall 130	32.474349	-85.021855	18" RCP	UNNAMED TRIBUTARY
Outfall 131	32.474578	-85.021562	18" RCP	UNNAMED TRIBUTARY
Outfall 132	32.474551	-85.021583	18" RCP	UNNAMED TRIBUTARY
Outfall 133	32.475708	-85.019699	18" RCP	UNNAMED TRIBUTARY
Outfall 134	32.475652	-85.018919	24" CMP	UNNAMED TRIBUTARY
Outfall 135	32.473680	-85.029251	24" RCP	UNNAMED TRIBUTARY

Outfall 136	32.471830	-85.033148	18" RCP	UNNAMED TRIBUTARY
Outfall 137	32.471806	-85.033098	18" RCP	UNNAMED TRIBUTARY
Outfall 138	32.473182	-85.033211	18" RCP	UNNAMED TRIBUTARY
Outfall 139	32.505976	-85.034120	18" RCP	UNNAMED TRIBUTARY
Outfall 140	32.504709	-85.034496	18" RCP	UNNAMED TRIBUTARY
Outfall 141	32.502828	-85.034726	18" RCP	UNNAMED TRIBUTARY
Outfall 142	32.496240	-85.029880	FLUME	UNNAMED TRIBUTARY
Outfall 143	32.496188	-85.029909	24" RCP	UNNAMED TRIBUTARY
Outfall 144	32.496221	-85.029904	24" RCP	UNNAMED TRIBUTARY
Outfall 145	32.496283	-85.029734	FLUME	UNNAMED TRIBUTARY
Outfall 146	32.494506	-85.032526	24" RCP	UNNAMED TRIBUTARY
Outfall 147	32.465820	-85.018912	FLUME	UNNAMED TRIBUTARY
Outfall 148	32.499732	-85.007409	12" RCP	MOON LAKE
Outfall 149	32.499580	-85.008303	12" RCP	MOON LAKE
Outfall 150	32.499079	-85.009969	24" RCP	MOON LAKE
Outfall 151	32.498448	-85.011602	24" RCP	MOON LAKE
Outfall 152	32.498241	-85.011692	36" RCP	MOON LAKE
Outfall 153	32.498205	-85.011667	36" RCP	MOON LAKE
Outfall 154	32.498180	-85.011624	12" RCP	MOON LAKE
Outfall 155	32.497676	-85.009379	24" RCP	MOON LAKE
Outfall 156	32.497415	-85.008152	24" RCP	MOON LAKE
Outfall 157	32.497319	-85.007304	15" RCP	MOON LAKE
Outfall 158	32.497367	-85.007185	24" RCP	MOON LAKE/OUTFALL
Outfall 159	32.472849	-85.031361	16" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 160	32.498658912	-85.035865085	Ditch	HOLLAND CREEK
Outfall 161	32.496649919	-85.033031599	48 RCP	Holland Creek
Outfall 162	32.495713662	-85.033115114	36 RCP	Holland Creek
Outfall 163	32.494908550	-85.033646838	18 HDP	Holland Creek
Outfall 164	32.490226229	-85.032990171	FLUME	Holland Creek
Outfall 165	32.490356543	-85.033337019	FLUME	Holland Creek
Outfall 166	32.490591247	-85.033593146	FLUME	Holland Creek
Outfall 167	32.491378196	-85.033447358	36 CMP	Holland Creek
Outfall 168	32.491498900	-85.039212984	DITCH	Mill Creek
Outfall 169	32.490097084	-85.036335994	DITCH	Mill Creek

Outfall 170	32.489047968	-85.035496730	72 RCP	Mill Creek
Outfall 171	32.479432621	-85.023693289	42 RCP	Mill Creek
Outfall 172	32.481229950	-85.027867564	48 RCP	Mill Creek
Outfall 173	32.472262519	-85.015780489	24 RCP	Mill Creek
Outfall 174	32.472568314	-85.016013490	DITCH	Mill Creek
Outfall 175	32.472807013	-85.016212855	24 RCP	Mill Creek
Outfall 176	32.472986649	-85.016404662	24 CMP	Mill Creek
Outfall 177	32.473039716	-85.016339183	24 RCP	Mill Creek
Outfall 178	32.473105621	-85.016251049	24 RCP	Mill Creek
Outfall 179	32.473105621	-85.016251049	24 RCP	Mill Creek
Outfall 180	32.434743038	-84.993033331	24 RCP	UNNAMED TRIBUTARY
Outfall 181	32.434745306	-84.992935768	DITCH	UNNAMED TRIBUTARY
Outfall 182	32.436864409	-84.994367715	24 RCP	UNNAMED TRIBUTARY
Outfall 183	32.436336993	-84.994198205	24 RCP	UNNAMED TRIBUTARY
Outfall 184	32.435710913	-84.999843536	24 RCP	UNNAMED TRIBUTARY
Outfall 185	32.440453667	-85.028768647	18 RCP	UNNAMED TRIBUTARY
Outfall 186	32.441078757	-85.028970450	18 RCP	UNNAMED TRIBUTARY
Outfall 187	32.441130135	-85.028756563	18 RCP	UNNAMED TRIBUTARY
Outfall 188	32.442503368	-85.030222424	18 RCP	UNNAMED TRIBUTARY
Outfall 189	32.442536958	-85.030127613	18 RCP	UNNAMED TRIBUTARY
Outfall 190	32.440399403	-85.028436315	18 RCP	UNNAMED TRIBUTARY
Outfall 191	32.443635415	-85.030450837	24 RCP	UNNAMED TRIBUTARY
Outfall 192	32.443286063	-85.030393657	DITCH	UNNAMED TRIBUTARY
Outfall 193	32.435224038	-85.012640743	DITCH	Cochgalechee Creek
Outfall 194	32.435547945	-85.013519717	18 RCP	Cochgalechee Creek
Outfall 195	32.428789013	-85.007526308	18 RCP	Cochgalechee Creek
Outfall 196	32.428505307	-85.006865315	30 RCP	Cochgalechee Creek
Outfall 197	32.429446519	-85.008724683	18 RCP	Cochgalechee Creek
Outfall 198	32.429536785	-85.008736594	18 RCP	Cochgalechee Creek
Outfall 199	32.430094889	-85.009832670	18 CMP	Cochgalechee Creek
Outfall 200	32.431278582	-85.010787336	12 RCP	Cochgalechee Creek
Outfall 201	32.431078264	-85.010778892	18 RCP	Cochgalechee Creek
Outfall 202	32.431619502	-85.011317536	18 RCP	Cochgalechee Creek
Outfall 203	32.431811399	-85.011614304	12 CMP	Cochgalechee Creek

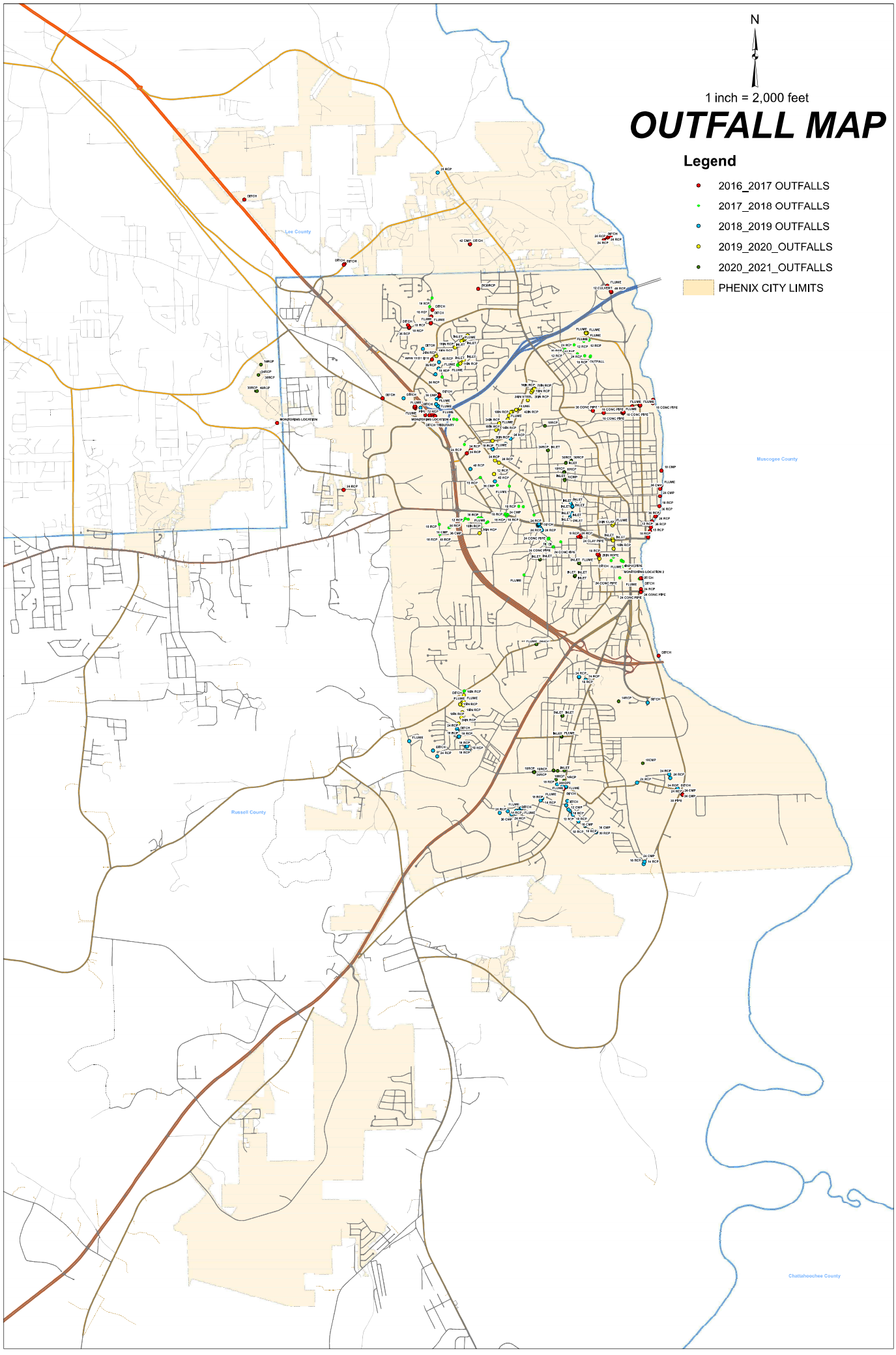
Outfall 204	32.432432558	-85.011997737	DITCH	Cochgalechee Creek
Outfall 205	32.433068150	-85.011802243	18 RCP	Cochgalechee Creek
Outfall 206	32.435062424	-85.011994414	FLUME	Cochgalechee Creek
Outfall 207	32.435176647	-85.012012445	FLUME	Cochgalechee Creek
Outfall 208	32.433455735	-85.016130248	14 RCP	UNNAMED TRIBUTARY
Outfall 209	32.433158047	-85.016328400	18 RCP	UNNAMED TRIBUTARY
Outfall 210	32.432062867	-85.019557518	24 RCP	UNNAMED TRIBUTARY
Outfall 211	32.432025499	-85.019643342	FLUME	UNNAMED TRIBUTARY
Outfall 212	32.484142341	-85.024036887	FLUME	UNNAMED TRIBUTARY
Outfall 213	32.484044980	-85.024021996	18 RCP	UNNAMED TRIBUTARY
Outfall 214	32.433537290	-85.016058980	FLUME	UNNAMED TRIBUTARY
Outfall 215	32.432112267	-85.019629054	FLUME	UNNAMED TRIBUTARY
Outfall 216	32.431727996	-85.020108263	DITCH	UNNAMED TRIBUTARY
Outfall 217	32.431704616	-85.020507134	18 RCP	UNNAMED TRIBUTARY
Outfall 218	32.431304441	-85.020884382	30 CMP	UNNAMED TRIBUTARY
Outfall 219	32.431223690	-85.021333238	24 RCP	UNNAMED TRIBUTARY
Outfall 220	32.431433540	-85.023318999	14 RCP	UNNAMED TRIBUTARY
Outfall 221	32.431433540	-85.023318990	24 RCP	UNNAMED TRIBUTARY
Outfall 222	32.524115316	-85.033036516	24 RCP	UNNAMED TRIBUTARY
Outfall 223	32.484808510	-85.021832760	24 RCP	UNNAMED TRIBUTARY
Outfall 224	32.485565998	-85.020972468	24 RCP	UNNAMED TRIBUTARY
Outfall 225	32.441945009	-85.038688622	FLUME	UNNAMED TRIBUTARY
Outfall 226	32.440555203	-85.034554401	DITCH	Cochgalechee Creek
Outfall 227	32.439701843	-85.033848353	24 RCP	Cochgalechee Creek
Outfall 228	32.476603283	-85.010135805	14 RCP	UNNAMED TRIBUTARY
Outfall 229	32.476601265	-85.009980611	18 RCP	UNNAMED TRIBUTARY
Outfall 230	32.476633124	-85.009988336	FLUME	UNNAMED TRIBUTARY
Outfall 231	32.475588329	-85.010476398	INLET	UNNAMED TRIBUTARY
Outfall 232	32.475678187	-85.010470914	INLET	UNNAMED TRIBUTARY
Outfall 233	32.475953119	-85.010710816	INLET	UNNAMED TRIBUTARY
Outfall 234	32.476120490	-85.010799905	INLET	UNNAMED TRIBUTARY
Outfall 235	32.474673837	-85.010530668	INLET	UNNAMED TRIBUTARY
Outfall 236	32.474584739	-85.010583056	INLET	UNNAMED TRIBUTARY
Outfall 237	32.474349504	-85.010768256	INLET	UNNAMED TRIBUTARY

Outfall 238	32.474159649	-85.010941157	INLET	UNNAMED TRIBUTARY
Outfall 239	32.473916954	-85.011014887	INLET	UNNAMED TRIBUTARY
Outfall 240	32.447201762	-84.997923564	DITCH	UNNAMED TRIBUTARY
Outfall 241	32.450944745	-85.009574824	18 RCP	UNNAMED TRIBUTARY
Outfall 242	32.451012468	-85.009571672	24 RCP	UNNAMED TRIBUTARY
Outfall 243	32.450574473	-85.008454258	24 RCP	UNNAMED TRIBUTARY
Outfall 244	32.423907365	-84.998839596	18 RCP	UNNAMED TRIBUTARY
Outfall 245	32.424228188	-84.998682842	14 RCP	UNNAMED TRIBUTARY
Outfall 246	32.424546341	-84.999414279	24 CMP	UNNAMED TRIBUTARY
Outfall 247	32.428681389	-85.006885197	36 CMP	Cochgalechee Creek
Outfall 248	32.498828459	-85.030322229	18 RCP	UNNAMED TRIBUTARY
Outfall 249	32.500076359	-85.028681926	INLET	UNNAMED TRIBUTARY
Outfall 250	32.500001661	-85.028756459	INLET	UNNAMED TRIBUTARY
Outfall 251	32.499856979	-85.028969423	INLET	UNNAMED TRIBUTARY
Outfall 252	32.499766776	-85.029175993	FLUME	UNNAMED TRIBUTARY
Outfall 253	32.500563704	-85.028109227	20 RCP	UNNAMED TRIBUTARY
Outfall 254	32.500547058	-85.028155882	SPILLWAY	UNNAMED TRIBUTARY
Outfall 255	32.480481297	-85.023843931	12 RCP	Holland Creek
Outfall 256	32.482439707	-85.023652380	24 RCP	UNNAMED TRIBUTARY
Outfall 257	32.482106429	-85.022997074	24 RCP	UNNAMED TRIBUTARY
Outfall 258	32.496706357	-85.028992513	INLET	UNNAMED TRIBUTARY
Outfall 259	32.496903992	-85.028847868	INLET	UNNAMED TRIBUTARY
Outfall 260	32.496452885	-85.029410669	14 RCP	UNNAMED TRIBUTARY
Outfall 261	32.499308544	-85.029895020	24 RCP	UNNAMED TRIBUTARY
Outfall 262	32.497516803	-85.033476980	24 RCP	Holland Creek
Outfall 263	32.497883411	-85.033636157	18 RCP	Holland Creek
Outfall 264	32.446016986	-85.029542977	10IN STEEL	Cochgalechee Creek
Outfall 265	32.445286555	-85.029701508	18 RCP	Cochgalechee Creek
Outfall 266	32.444423955	-85.030169567	24 RCP	Cochgalechee Creek
Outfall 267	32.447032523	-85.029342508	18 RCP	Cochgalechee Creek
Outfall 268	32.447181422	-85.029897791	15 RCP	Cochgalechee Creek
Outfall 269	32.447510094	-85.029496827	FLUME	Cochgalechee Creek
Outfall 270	32.447562930	-85.029275270	FLUME	Cochgalechee Creek
Outfall 271	32.448044790	-85.029377726	6IN PVC	Cochgalechee Creek

Outfall 272	32.448496534	-85.029255001	18 RCP	Cochgalechee Creek
Outfall 273	32.472397852	-85.025798065	18 RCP	UNNAMED TRIBUTARY
Outfall 274	32.471891103	-85.026382154	24 RCP	UNNAMED TRIBUTARY
Outfall 275	32.468084877	-85.005951201	20 HDPE	Mill Creek
Outfall 276	32.469515491	-85.003515424	18 RCP	UNNAMED TRIBUTARY
Outfall 277	32.470928373	-85.003670037	INLET	UNNAMED TRIBUTARY
Outfall 278	32.472877801	-85.003662719	24 CLAY	UNNAMED TRIBUTARY
Outfall 279	32.473118691	-85.003515959	FLUME	UNNAMED TRIBUTARY
Outfall 280	32.470661331	-85.003618030	INLET	UNNAMED TRIBUTARY
Outfall 281	32.489903079	-85.019360985	FLUME	UNNAMED TRIBUTARY
Outfall 282	32.489938571	-85.019354747	36 RCP	UNNAMED TRIBUTARY
Outfall 283	32.490190261	-85.019162038	42 RCP	UNNAMED TRIBUTARY
Outfall 284	32.491072547	-85.017999378	24IN STEEL	UNNAMED TRIBUTARY
Outfall 285	32.492214902	-85.017373851	30 RCP	UNNAMED TRIBUTARY
Outfall 286	32.492469513	-85.017195896	70 RCP	UNNAMED TRIBUTARY
Outfall 287	32.492748375	-85.016933942	16 RCP	UNNAMED TRIBUTARY
Outfall 288	32.492684477	-85.016908039	70 RCP	UNNAMED TRIBUTARY
Outfall 289	32.489706671	-85.020007875	FLUME	UNNAMED TRIBUTARY
Outfall 290	32.489438443	-85.020650533	24 HDPE	UNNAMED TRIBUTARY
Outfall 291	32.489384794	-85.020893987	18 RCP	UNNAMED TRIBUTARY
Outfall 292	32.488890040	-85.021225547	18 RCP	UNNAMED TRIBUTARY
Outfall 293	32.488333766	-85.021440086	FLUME	UNNAMED TRIBUTARY
Outfall 294	32.487992528	-85.022215965	FLUME	UNNAMED TRIBUTARY
Outfall 295	32.487429613	-85.022935082	FLUME	UNNAMED TRIBUTARY
Outfall 296	32.486930433	-85.023292574	24 RCP	UNNAMED TRIBUTARY
Outfall 297	32.487796127	-85.022910214	14 RCP	UNNAMED TRIBUTARY
Outfall 298	32.487779144	-85.022891917	24 RCP	UNNAMED TRIBUTARY
Outfall 299	32.486810876	-85.023417872	18 RCP	UNNAMED TRIBUTARY
Outfall 300	32.485265543	-85.024055525	36 RCP	UNNAMED TRIBUTARY
Outfall 301	32.500726541	-85.007819463	FLUME	UNNAMED TRIBUTARY
Outfall 302	32.500796583	-85.007755665	FLUME	UNNAMED TRIBUTARY
Outfall 303	32.500819760	-85.007964524	FLUME	UNNAMED TRIBUTARY
Outfall 304	32.500721892	-85.007895990	FLUME	UNNAMED TRIBUTARY
Outfall 305	32.44744576	-85.002848421	14RCP	UNNAMED TRIBUTARY

Outfall 306	32.43622711	-85.013710679	24HDPE	UNNAMED TRIBUTARY
Outfall 307	32.4375283	-85.014073682	18RCP	UNNAMED TRIBUTARY
Outfall 308	32.43756022	-85.014142967	FLUME	UNNAMED TRIBUTARY
Outfall 309	32.43751933	-85.012283917	18RCP	UNNAMED TRIBUTARY
Outfall 310	32.43748774	-85.013425127	INLET	UNNAMED TRIBUTARY
Outfall 311	32.44543343	-85.012589252	INLET	UNNAMED TRIBUTARY
Outfall 312	32.44542526	-85.012520995	INLET	UNNAMED TRIBUTARY
Outfall 313	32.44239615	-85.012706922	INLET	UNNAMED TRIBUTARY
Outfall 314	32.44246669	-85.012729653	FLUME	UNNAMED TRIBUTARY
Outfall 315	32.43609241	-85.012351127	14RCP	UNNAMED TRIBUTARY
Outfall 316	32.43849137	-84.998859156	18CMP	UNNAMED TRIBUTARY
Outfall 317	32.48384305	-85.014690853	24RCP	UNNAMED TRIBUTARY
Outfall 318	32.48383181	-85.014625165	INLET	UNNAMED TRIBUTARY
Outfall 319	32.48734912	-85.015130918	18RCP	UNNAMED TRIBUTARY
Outfall 320	32.48202867	-85.011592968	INLET	UNNAMED TRIBUTARY
Outfall 321	32.48196764	-85.011640204	INLET	UNNAMED TRIBUTARY
Outfall 322	32.48232671	-85.010600988	36RCP	UNNAMED TRIBUTARY
Outfall 323	32.48232669	-85.010690659	36RCP	UNNAMED TRIBUTARY
Outfall 324	32.46799572	-85.016140377	INLET	UNNAMED TRIBUTARY
Outfall 325	32.4680617	-85.016128258	INLET	UNNAMED TRIBUTARY
Outfall 326	32.48070145	-85.011940623	16RCP	UNNAMED TRIBUTARY
Outfall 327	32.4807124	-85.011902438	18RCP	UNNAMED TRIBUTARY
Outfall 328	32.4806199	-85.011938636	18RCP	UNNAMED TRIBUTARY
Outfall 329	32.47964945	-85.011826032	INLET	UNNAMED TRIBUTARY
Outfall 330	32.4794941	-85.011834255	16CMP	UNNAMED TRIBUTARY
Outfall 331	32.49647385	-85.063514627	18RCP	UNNAMED TRIBUTARY
Outfall 332	32.49537651	-85.063374629	36RCP	UNNAMED TRIBUTARY
Outfall 333	32.49499036	-85.06394886	24RCP	UNNAMED TRIBUTARY
Outfall 334	32.49268859	-85.064409221	30RCP	UNNAMED TRIBUTARY
Outfall 335	32.4926694	-85.064223058	48RCP	UNNAMED TRIBUTARY
Outfall 336	32.45575252	-85.016876426	FLUME	UNNAMED TRIBUTARY
Outfall 337	32.45573923	-85.016858817	24RCP	UNNAMED TRIBUTARY
Outfall 338	32.46746547	-85.009459559	INLET	UNNAMED TRIBUTARY
Outfall 339	32.46746479	-85.009359963	FLUME	UNNAMED TRIBUTARY

Outfall 340	32.46556645	-85.01017262	INLET	UNNAMED TRIBUTARY
Outfall 341	32.46568903	-85.010120656	INLET	UNNAMED TRIBUTARY
Outfall 342	32.46568132	-85.010095869	INLET	UNNAMED TRIBUTARY
Outfall 343	32.43738036	-85.017490091	24RCP	UNNAMED TRIBUTARY
Outfall 344	32.43739417	-85.017407402	18RCP	UNNAMED TRIBUTARY
Outfall 345	32.43730881	-85.017408868	18RCP	UNNAMED TRIBUTARY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1 inch = 2,000 feet
OUTFALL MAP
Legend
2016_2017 OUTFALLS
2017_2018 OUTFALLS
2018_2019 OUTFALLS
2019_2020_OUTFALLS
2020_2021_OUTFALLS
PHENIX CITY LIMITS
Lee County
Muscogee County
Russell County
Chattahoochee County

Appendix II – Supporting Documents

Public Education and Public Involvement On Storm Water Impacts

Help the Hooch on City Marquees

Help the Hooch October 2

Help the Hooch Mission

To engage and educate individuals to take greater responsibility for enhancing beautification, protecting the environment, and eliminating litter and blight.

Activities

On October 2nd, Keep Columbus Beautiful will be hosting our Annual Help the Hooch Community Clean-up! We will canvas over 20 locations throughout the Chattahoochee with a mission of a Peachy Clean Columbus.

Details

Date:
October 2

Event Categories:
Beautification Project, Special Event

Event Tags:
Social Media

+ Google Calendar

+ iCal Export

Venue

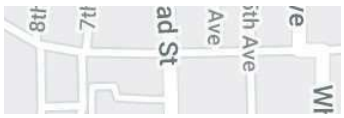
City of Phenix City

601 12th St.
Phenix City, AL
36867 United States
+ Google Map

Phone:
334-448-2701

Related Events

- Masters of Soul with The Chemistry Project @
- Puddles Pity Party @ Phenix City Amphitheater
- Public Hearings: Fixing of Costs

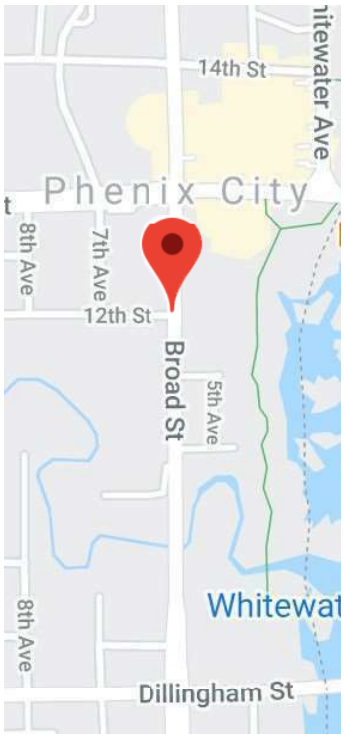


Phenix City Art Park

October 16 @ 7:00 pm EDT

October 19 @ 9:00 am EDT

October 8 @ 8:00 pm EDT



Share This! Choose Your Platform!

‹ Planning Commission Meeting

City Council Work Session ›

Fx: 334-448-2721

Hours
Monday - Friday
8 a.m. - 5 p.m., ET

October 08, 2021

- Meeting Summary: September 28, 2021 Planning Commission Meeting
- Public Hearings: Demolition of Structures on October 19, 2021
- Public Notice: Zoom Council Meetings for remainder of 2021

M 0 **City Council Work Session**

October 4 @ 3:00 pm EDT

View More...

FAQs

How Do I...?

Trash trap to be installed

Watergoat system to be installed in Mill Creek on June 29

By Toni Shah
tstauffer@citizenea.com

The Chattahoochee River Conservancy will be installing a Watergoat trash trap in Mill Creek on June 29. The stream trash collection device is a series of buoys and netting that floats across the waterway and is anchored on both banks. The trap prevents trash from entering the river. Volunteers from the CRC clean out the trap on a regular basis.

"Non-point source pollution is one of the biggest water quality issues we face, "CRC Executive Director Chris Largent said. "Discarded litter alongside the roadways collects in stormwater drains, and from there it is carried into the nearest creek or stream after heavy rains. These creeks and streams feed the Chattahoochee as part of its watershed. The litter pollutes the river and poses a risk to humans and wildlife alike."

Last spring, CRC installed an identical trap on Bull Creek in Columbus. Since its installation, CRC staff and volunteers have collected more than 1,000 pounds of trash from the watershed, mostly plastic bottles, Styrofoam particles, and cigarette butts. The data collected will be used to work with companies and manufacturers to help control litter and motivate product users to be more conscious with their trash.

"We, Watergoat, consider our association with CRC an honor," Mark Maksimowicz, owner of Watergoat, LLC, said. "Georgia is well served by their commitment to clean waters and emphasis on data collection and education. The CRC team is the embodiment of our motto, 'Saving The Ocean Starts In Your Neighborhood'."

The trap on Mill Creek is possible due to the generous support of the Mildred Miller Fort Foundation, Bass Pro Shops, and Cabela's Outdoor Fund. The Chattahoochee River Conservancy is a local 501(c)3 environmental nonprofit organization, whose mission is to protect and preserve the Chattahoochee River and its watershed. For more information on other projects or how to become involved, please visit www.chattriver.org. This article is an update from a June 16, 2021 press release to the feature article "Trash trap for Mill Creek waiting approval," which appeared in the April 19, 2021 issue of The Citizen.

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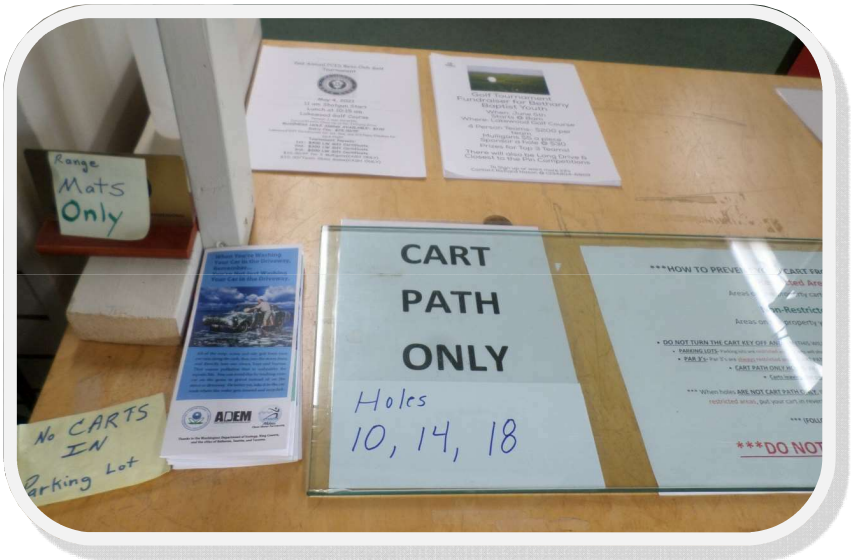
Storm Water Educational Materials



When You're Fertilizing the Lawn, Remember... You're Not Just Fertilizing the Lawn.

You fertilize the lawn. Then it rains. The rain washes the fertilizer along the curb, into the storm drain, and directly into our waterways. The nutrients encourage algae to grow, using up oxygen that fish need to survive and thrive. So, if you fertilize, please follow directions, and use sparingly.

Thanks to the Washington Department of Ecology, King County, and the cities of Bellevue, Seattle, and Tacoma.

When Your Car Leaks Oil on the Street, Remember... It's Not Just Leaking Oil on the Street.

Leaking oil goes from your car to the street and is washed from the street into the storm drain and into our lakes, streams and bays. Imagine the number of cars in your community and you can imagine the amount of oil that finds its way from leaky gaskets into our water. So please, fix oil leaks.

Thanks to the Washington Department of Ecology, King County, and the cities of Bellevue, Seattle, and Tacoma.

When You're Washing Your Car in the Driveway, Remember... You're Not Just Washing Your Car in the Driveway.

All of the soap, scum and oily grit from your car runs along the curb, then into the storm drain and directly into our rivers, bays and bayous. That causes pollution that is unhealthy for aquatic life. You can avoid this by washing your car on the grass or gravel instead of on the street or driveway. Or better yet, take it to the car wash where the water gets treated and recycled.

Thanks to the Washington Department of Ecology, King County, and the cities of Bellevue, Seattle, and Tacoma.

Help Stop Pointless Pollution

Be a part of the cleanup of the waterways in our area.

Clean water is important to all of us.

In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from sources like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. Each of us can do our part to help clean up our water.

Why do we need clean water?

Clean water is important to our health and economy. Clean water provides recreation, fish habitat, drinking water, and adds beauty to our landscape. Everyone benefits from clean water.

What's the problem with fertilizer?

Fertilizer is not a problem when it is used correctly. In waterways, as in your yard, too much fertilizer can promote excessive algae and aquatic plants. This can harm water quality and make boating, fishing and swimming unpleasant.

For more information on soil testing, fertilizing alternatives and composting, call your County Cooperative Extension Agent or go to http://www.aces.edu/directory/.

How can you apply fertilizers and help keep our waters clean?

- Use fertilizers sparingly. Follow the manufacturers instructions.
- Have your soil tested for fertilizer needs.
- Don't apply fertilizers before a rainstorm.
- Consider using organic fertilizers, since they release nutrients slowly.
- Use commercially available compost or make your own using a garden composter. Mixing compost with your soil means your plants will need less chemical fertilizer. Commercial compost and soil amendments may be available from your solid waste or wastewater utility as well as your local lawn and garden store.

For more information contact:

Alabama Department of Environmental Management
Office of External Affairs
(334) 260-4501

Municipal Storm Water Program
(334) 271-7700

Help Stop Pointless Pollution

Be a part of the cleanup of the waterways in our area.

Clean water is important to all of us.

In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from sources like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. Each of us can do our part to help clean up our water.

Why do we need clean water?

Clean water is important to our health and economy. Clean water provides recreation, fish habitat, drinking water, and adds beauty to our landscape. Everyone benefits from clean water.

What's the problem with motor oil?

Oil does not dissolve in water. Oil and other petroleum products are toxic to people, wildlife and plants. One pint of oil can make a slick larger than a football field. Oil that leaks from our cars onto roads and driveways is washed into storm drains, or directly into our lakes, streams or marine water. Used motor oil is the largest single source of oil pollutants (over 180 million gallons per year), in our lakes, streams and rivers.

How can you prevent motor oil pollution and help keep our waters clean?

- Never dispose of oil or other engine fluids down the storm drain, on the ground or into a ditch. Recycle used motor oil. Many auto supply stores and gas stations will accept used oil.
- Check for oil leaks regularly and use drip pans beneath your vehicle if you have leaks. Keep your car tuned to reduce oil use.
- Use ground cloths while performing engine work. Clean up spills immediately. Collect all used oil in containers with tight fitting lids.

For more information contact:

Alabama Department of Environmental Management
Office of External Affairs
(334) 260-4501

Municipal Storm Water Program
(334) 271-7700

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Why do we need clean water?

Clean water is important to our health and economy. Clean water provides recreation, fish habitat, drinking water, and adds beauty to our landscape. Everyone benefits from clean water.

What's the problem with car washing?

Many soaps contain phosphates and most car-care products contain chemicals that may harm fish and degrade water quality. The phosphates from the soap can cause excess algae to grow. Algae sometimes looks or smells bad, and may be harmful to water quality. As algae decays, the process uses up oxygen in the water that fish need to survive.

How can you wash your car and help keep our waters clean?

- Best solution: take your car to a commercial car wash. Most car washes reuse water several times before sending it to the wastewater facility for treatment.
- Use soap that is chlorine- and phosphate-free.
- Use soap sparingly. Use a hose nozzle with a trigger to save water.
- Pour your bucket of soapy water down the sink or toilet when you're done, not in the street.
- Wash your car on a grassy area so the ground can filter the water naturally.

For more information contact:

Alabama Department of Environmental Management
Office of External Affairs
(334) 260-4501

Municipal Storm Water Program
(334) 271-7700

Phase II Storm Water Program

Fall 2021

How To Read A Rain Gauge

A rain gauge is an instrument that is used to measure the amount of rain fall in an area over a period of time. One type of rain gauge that is commonly used by both households and professional weather services is the graduated cylinder gauge, also known as the standard rain gauge. This type of rain gauge has marked lines, usually in inches, that represent the amount of liquid that has accumulated. In order to get more accurate measurements, between each numbered line on the cylinder there are smaller lines that represent tenths of an inch. To measure the inches of rain in a given time period, count the lines above the corresponding inch mark. If checking to see how much rain falls daily, the rain gauge will need to be checked and emptied on a twenty four hour cycle.

Approximately 2.8 inches of rainfall

Take the measurement at the bottom of the upward or downward curve, at the surface of a liquid known as the "meniscus"

Illicit Discharge Potential (IDP)

IDP Ranking Values

Criterion	1	2	3	4	IDP Score
Average age of Development (AOD)	< 10 Years	25-50 years	> 50 years	XXX	
# of Potential Generating Sites (PGS)	< 3 sites	3-10 sites	> 10 sites	XXX	
Septic Field Density (SFD)	< 10 Fields/mi^2	20-100 fields/mi^2	> 100 fields/mi^2	XXX	
# of Illicit Dicharge Reports in past 2 years (PID)	< 5 reports	5-25 reports	> 25 reports	XXX	
Outfall Reconnaissance Inventory Results (ORI)	Unlikely	Potential	Suspect	Obvious	
				Total IDP	

Subwatershed	Total Sq. Mi.	# of PGS within MS4 Area	Sites per sq mi	Appx. Septic	AOD	PGS	SFD	PID	ORI	Total IDP Score
Soap Creek – Chattahoochee River	44.54	4	0.09	210	2	2	1	1	1	7
Holland Creek – Mill Creek	24.57	57	2.32	550	3	3	2	2	2	12
Moon Lake – Chattahoochee River	10.83	4	0.37	230	2	2	2	1	1	8
Cochgalechee Creek	12.77	26	2.04	275	3	3	2	2	1	11
Broken Arrow Creek – Chattahoochee River	31.63	5	0.16	111	2	2	1	1	1	7
Lower Little Uchee Creek	57.43	19	0.33	3179	2	3	2	2	1	10
Cowpen Creek – Uchee Creek	31.64	1	0.03	620	2	1	2	1	1	7

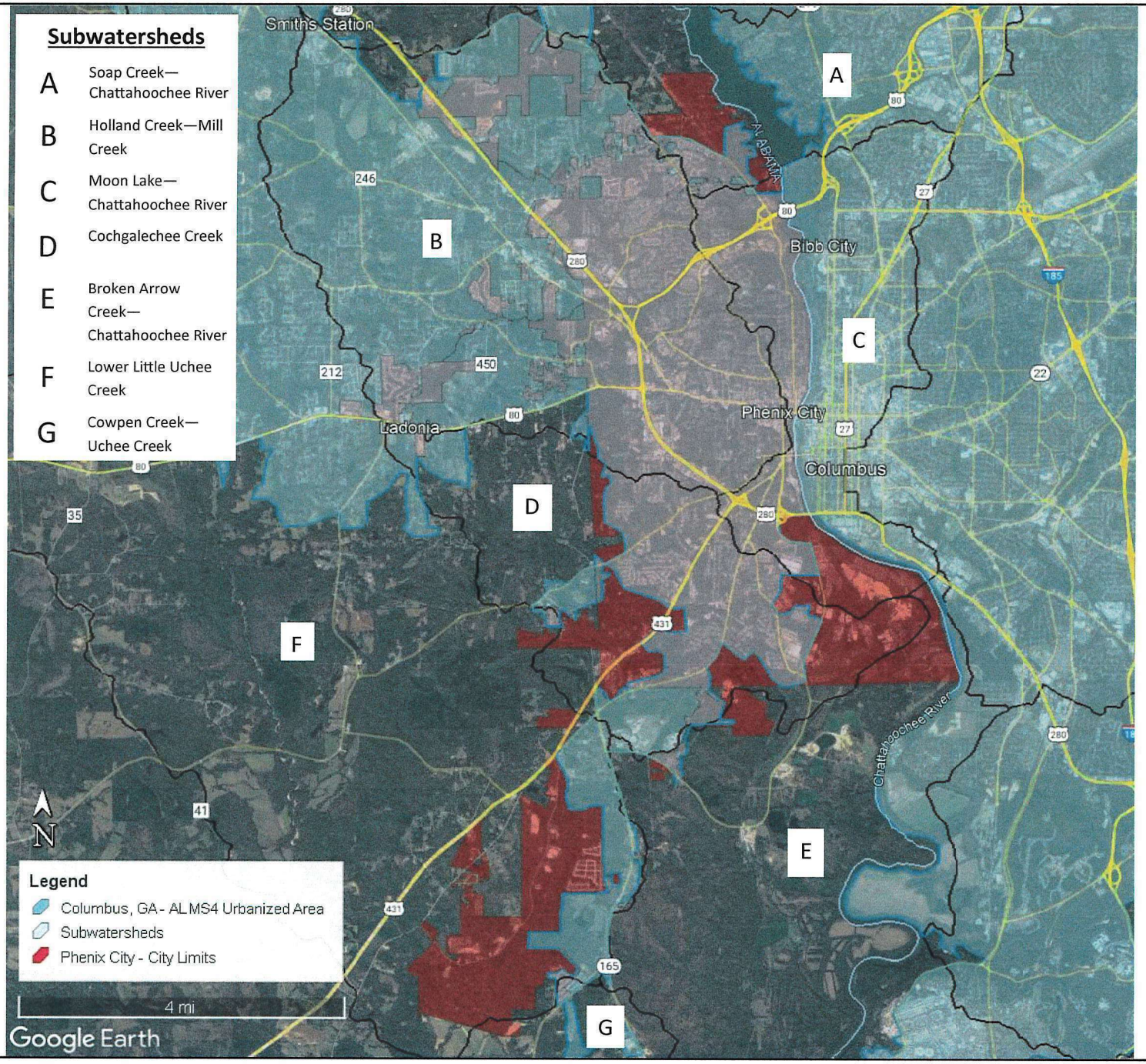


Photo courtesy: Google Earth, 2022

Site Location

Phenix City, AL

Columbus, GA-AL Phase II MS4 Urbanized Area

	INITIALS	DATE	DATE REV	DATE REV.2
Drawn by	JF	02/01/22		
Approved	AM			

City of Phenix City

Engineering Department

1206 7th Avenue

Phenix City, AL 36867

Figure Description

Figure 4

Subwatersheds Map

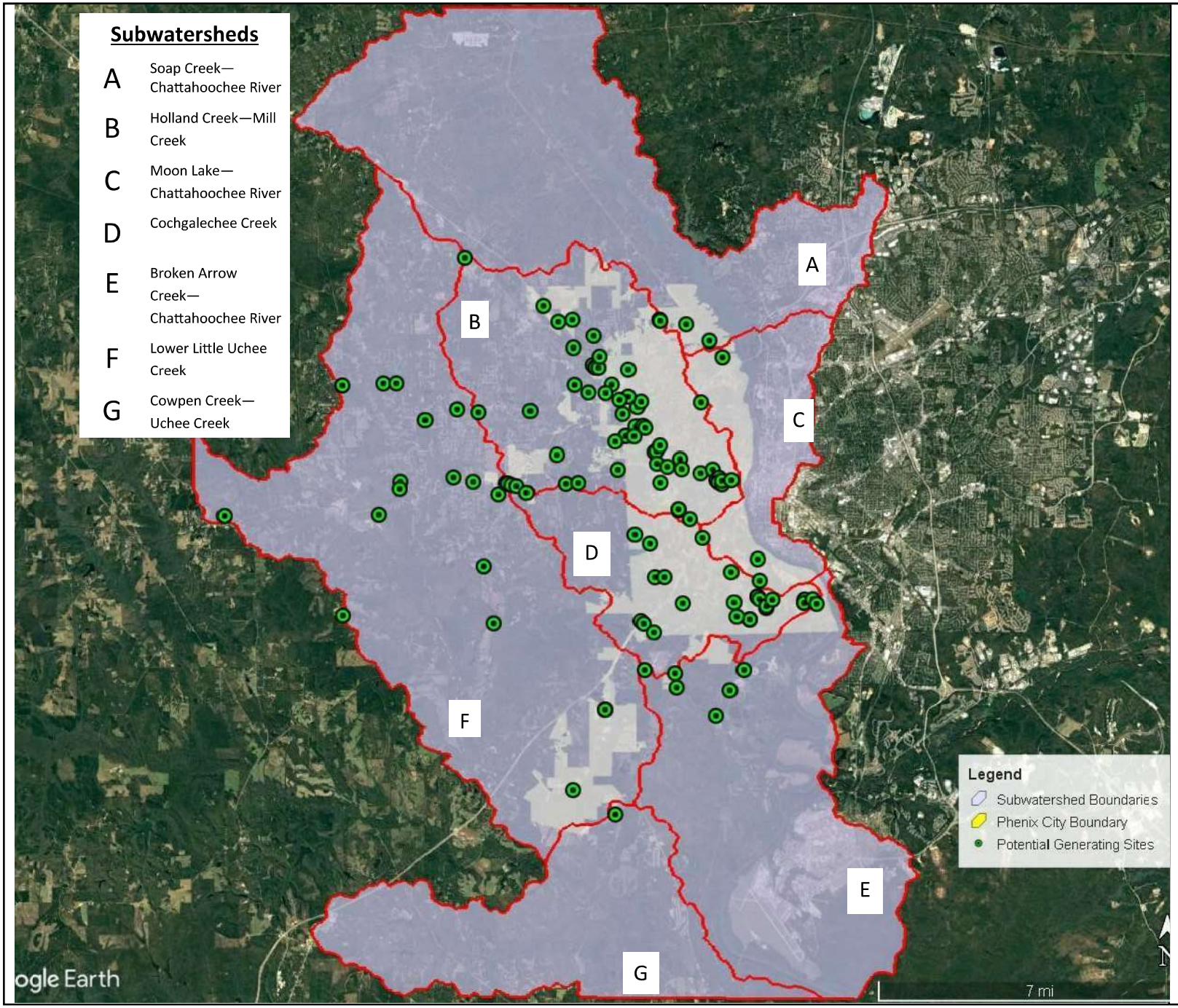


Photo courtesy: Google Earth, 2022

Site Location

Phenix City, AL

Columbus, GA-AL Phase II MS4 Urbanized Area

INITIALS	DATE	DATE REV	DATE REV 2
Drawn by: JF	02/01/22		
Approved: AM			

City of Phenix City

Engineering Department

1206 7th Avenue

Phenix City, AL 36867

Figure Description

Figure 5

PGS Map

Potential Generating Sites

per EPA ECHO Database

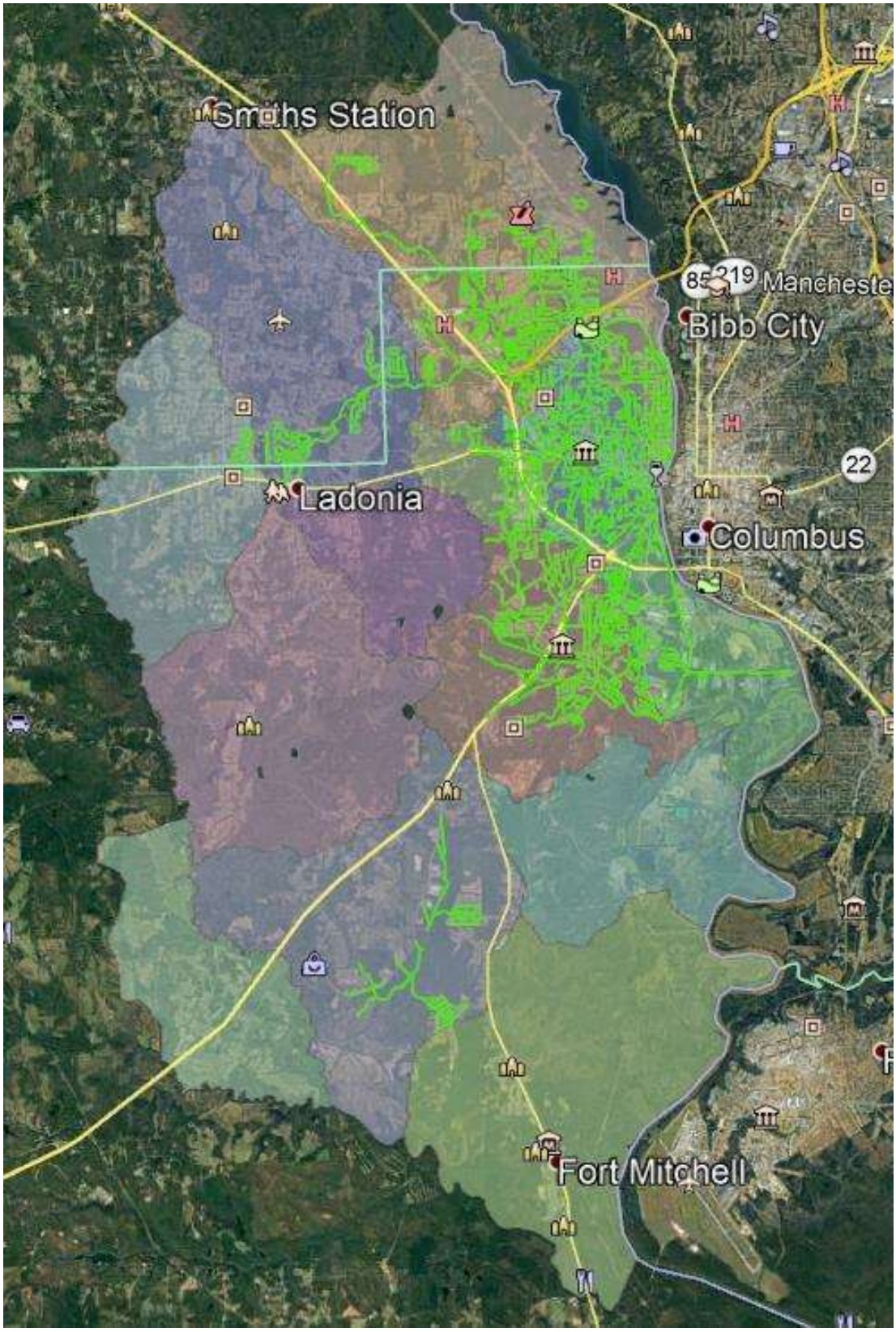
FacName	**FacStreet**	FacCity	FacState
22ND AVE SERVICE STATION	22ND AVE AT ITS' INTERSECTION WITH US HWY 280	PHENIX CITY	AL
7785 LEE RD 240	7785 LEE RD 240	PHENIX CITY	AL
ADVANTAGE MINI STORAGE	7431 LEE ROAD 240	PHENIX CITY	AL
ALABAMA POWER COMPANY - PHENIX CITY GARAGE	9 STAFFORD RD	PHENIX CITY	AL
ALATRADE FOODS LLC	6 DOWNING DR	PHENIX CITY	AL
ARGO CONSTRUCTION	HIGHWAY 280	PHENIX CITY	AL
ARGOS PHENIX CITY PLANT	350 BRICKYARD RD	PHENIX CITY	AL
AUTO TRANS	30 COFFIELD DRIVE	PHENIX CITY	AL
AUTUMN BROOKE SUBDIVISION	NEAR 3787 OPELIKA ROAD	PHENIX CITY	AL
BAMA AUTO SALES	194 WOODLAND DR	PHENIX CITY	AL
BORAL BRICKS	100 BRICKYARD RD	PHENIX CITY	AL
BOSWELL ROAD PIT	284 BOSWELL RD	PHENIX CITY	AL
BRANCH CREEK	33RD AVENUE	PHENIX CITY	AL
CARMACK INC DBA PHENIX FOUNDRY	803 INDUSTRIAL CIRCLE	PHENIX CITY	AL
CENTRAL HIGH SCHOOL	2400 DOBBS DR	PHENIX CITY	AL
CHATTAHOOCHEE VALLEY COMMUNITY COLLEGE	2602 COLLEGE DRIVE	PHENIX CITY	AL
CHS ATHLETIC FACILITY	2400 DOBBS DR	PHENIX CITY	AL
CHS CTE ANNEX	DOBBS DRIVE	PHENIX CITY	AL
CITY OF PHENIX CITY MS4 PH II	601 12TH ST.	PHENIX CITY	AL
COLUMBUS DEV INC - LEXINGTON	MILLPOND DRIVE	PHENIX CITY	AL
CONTINENTAL CARBON PHENIX CITY PLANT	1500 EAST STATE DOCKS ROAD	PHENIX CITY	AL
CRAWFORD PIT	BLEEKER RD	PHENIX CITY	AL
CULVER'S	HWY 280 (431S)	PHENIX CITY	AL
CVS PHARMACY #1824	5405 SUMMERVILLE ROAD	PHENIX CITY	AL
CVS PHARMACY #4934	2514 CRAWFORD RD	PHENIX CITY	AL
DAIRY QUEEN GRILL & CHILL	LOT B - ASHWOOD DRIVE	PHENIX CITY	AL

DANNY PARRISH PROPERTY	1453 LEE COUNTY ROAD 425	PHENIX CITY	AL
DEL TACO RESTAURANT	1212 E. 280 BYPASS	PHENIX CITY	AL
DEPPE COTTAGES	LEE ROAD 209	PHENIX CITY	AL
DSC ALABAMA	DOWNING DRIVE	PHENIX CITY	AL
DUDLEY PROPERTY	US HWY 280; 32.5145, -85.0633.	PHENIX CITY	AL
DYKES AND SON GRADING	2808 OPELIKA RD	PHENIX CITY	AL
DYKES BODY SHOP	1228 11TH AVE	PHENIX CITY	AL
DYKES HAUL PIT	2804 OPELIKA ROAD	PHENIX CITY	AL
FAULK & SON, INC.	3610 HIGHWAY 80 WEST	PHENIX CITY	AL
GIBBONS FENDER & BODY WORKS INC	1208 10TH AVENUE	PHENIX CITY	AL
GIL'S COLLISION CENTER	3946 US HIGHWAY 80	PHENIX CITY	AL
GILS AUTO SALES	22ND AVENUE AT US HIGHWAY 280/431	PHENIX CITY	AL
GRAND RESERVE - PHENIX CITY	BETWEEN HWY 431 & OLD SEALE ROAD	PHENIX CITY	AL
HAMMETT STEEL LLC	3015 LAKEWOOD DRIVE	PHENIX CITY	AL
HIGH RIDGE MOBILE HOME PARK	200 LOGAN DRIVE	PHENIX CITY	AL
IIG MINWOOL LLC	908 JOHN BUSSEY DRIVE	PHENIX CITY	AL
IVY CREEK SUBDIVISION	LANDMARK DRIVE (LEE RD 456) OFF OF HWY 280/431 NOR	PHENIX CITY	AL
JOE HUDSON COLLISION CENTER - PHENIX CITY	MARKETPLACE DRIVE	PHENIX CITY	AL
KINNETT ESTATES	US HIGHWAY 80	PHENIX CITY	AL
KMART 4760	2003 US HWY 280 BYPASS	PHENIX CITY	AL
LADONIA COMMERCIAL	US HWY 80 NW OF ITS' INTERSECTION WITH WOODLAND DR	PHENIX CITY	AL
LEATHERWOOD & SONS BODY SHOP	1225 10TH AVENUE	PHENIX CITY	AL
LIBERTY HILL	1702 20TH AVE	PHENIX CITY	AL
MALLARD CREEK SUBDIVISION LOTS 20A, 70, 72, 73, 74, 96	NEAR THE WESTERN END OF TEAL DRIVE	PHENIX CITY	AL
MARATHON MART #102	410 MARTIN LUTHER KING BOULEVARD	PHENIX CITY	AL
MAVIS TIRES & BRAKES	5370 RIVERCHASE RD	PHENIX CITY	AL
MCLENDON TRAILERS	58 CUTRATE ROAD	PHENIX CITY	AL
MEADWESTVACO COATED BOARD, LLC	1817 HWY 165 S	PHENIX CITY	AL
MERIDIAN BRICK LLC	1501 BRICKYARD RD	PHENIX CITY	AL
MERIDIAN BRICK LLC	1415 BRICKYARD RD	PHENIX CITY	AL
NAIG2 SITE PREP	FONTAINE ROAD	PHENIX CITY	AL
OCONEE CONCRETE CO	347 WOODLAND DRIVE	PHENIX CITY	AL
OCONEE CONCRETE COMPANY, INC.	210 STATE DOCK ROAD	PHENIX CITY	AL

OPELIKA ROAD PIT	2335 OPELIKA RD	PHENIX CITY	AL
ORCHARD HILLS SUBDIVISION	26TH COURT	PHENIX CITY	AL
OWENS CORNING HT INCORPORATED	908 OWENS CORNING DR.	PHENIX CITY	AL
PARK PLACE SUBDIVISION	701 PARK AVE	PHENIX CITY	AL
PEP BOYS AUTO SERVICE & TIRES #1572	5 ASHWOOD DRIVE	PHENIX CITY	AL
PHENIX CITY (SUMMERVILLE RD.) NEW RETAIL STORE	EAST SIDE OF SUMMERVILLE ROAD AT INTERSECTION WITH	PHENIX CITY	AL
PHENIX CITY FREIGHT	900 BRICKYARD ROAD	PHENIX CITY	AL
PHENIX CITY PIT	1371 BRICKYARD ROAD	PHENIX CITY	AL
PHENIX CITY PLANT	6 DOWNING DRIVE	PHENIX CITY	AL
PHENIX CITY RETAIL	3732 U.S. HWY 280	PHENIX CITY	AL
PHENIX CITY TRANSFER STATION	610 STATE DOCKS ROAD	PHENIX CITY	AL
PHENIX CITY WASTEWATER TREATMENT PLANT	1600 EAST STATE DOCKS ROAD	PHENIX CITY	AL
PHENIX FOUNDRY	STATE DOCK ROAD	PHENIX CITY	AL
PHENIX LUMBER CO	4 CUT RATE RD	PHENIX	AL
PINE HOLLOW LANDFIILL	18 OLD BRICKYARD ROAD	PHENIX CITY	AL
PRINCE MANUFACTURING COMPANY	ALABAMA STATE DOCKS RD	PHENIX CITY	AL
PROJECT NUMBER: LCP 41-147-17	LEE ROAD 197	PHENIX CITY	AL
PUBLIX SUPER MARKET #1086	5408 SUMMERVILLE ROAD SUITE 200	PHENIX CITY	AL
READY MIX USA, LLC-PHENIX CITY FACILITY	2806 DOBBS DRIVE	PHENIX CITY	AL
RIDGECREST SCHOOL - MULTIPURPOSE BUILDING	8TH PLACE SOUTH	PHENIX CITY	AL
RIDGEWOOD COVE SUBDIVISION	DOBBS DRIVE	PHENIX CITY	AL
RIVERCHASE COMMERCIAL SW	RIVERCHASE DR AT J R ALLEN PJWY	PHENIX CITY	AL
ROBINSON ASPHALT PLANT	1250 LONESOME PINE ROAD	PHENIX CITY	AL
ROBINSON GRAVEL PIT	ABERCROMBIE ROAD	PHENIX CITY	AL
ROYAL OAKS II	LEE ROAD 208	PHENIX CITY	AL
RT TRANSPORTATION	4414 BRIDGEWATER CIRCLE	PHENIX CITY	AL
RUSSELL CO COMMUNITY HOSPITAL DBA JACK HUGHSTON MEMORIAL HOSPITAL	4401 RIVER CHASE DR	PHENIX CITY	AL
S&S CLEANERS INC DBA TRI CITY CLEANERS	700 13TH ST	PHENIX CITY	AL
SA RECYCLING	309 STATE DOCK ROAD	PHENIX CITY	AL
SHADOW WOOD COMMERCIAL	HWY 280/431 BETWEEN OPELIKA & PHENIX CITY	PHENIX CITY	AL
SHERMAN INDUSTRIES - PHENIX CITY	25 6TH PL S	PHENIX CITY	AL
SHERMAN INDUSTRIES LLC - PHENIX CITY PLANT	25 6TH PLACE SOUTH	PHENIX CITY	AL

SMITH CONTRACT PAINTING	93 LEE ROAD 212	PHENIX CITY	AL
SMITHS STATION STORAGE	110 LEE ROAD 562	PHENIX CITY	AL
SONIC/CARWASH PHENIX CITY AL	US HIGHWAY 80	PHENIX CITY	AL
SOUTHEAST TRUCK & TRAILER REFURBISHERS INC	800 MEADOWLANE DRIVE	PHENIX CITY	AL
SUMMER VINEYARD S/D	WHITEROCK RD AT HWY 80 E	PHENIX CITY	AL
TAYLOR PARTS INC.	1921 CRAWFORD RD	PHENIX CITY	AL
TAYLOR PARTS OF COLUMBUS INC	1012 THIRTEENTH STREET	PHENIX CITY	AL
THE BATTERY MAN	39 SPRING VALLY ROAD	PHENIX CITY	AL
THE HOME DEPOT #HD0817	3784 HWY 280 -431 NORTH	PHENIX CITY	AL
THE VILLAGE AT CROSSWINDS	US HWY 431	PHENIX CITY	AL
TNT CUSTOM BUILT CABINETS	330 LEE ROAD 456	PHENIX CITY	AL
TOMMY'S BODY SHOP	1015 12TH PLACE	PHENIX CITY	AL
TRACTOR SUPPLY COMPANY #1719	2012 HWY 280-431 N	PHENIX CITY	AL
TRINITY RIDGE	456 LEE COUNTY 307	PHENIX CITY	AL
UCHEE MINE	HIGHWAY 80	PHENIX CITY	AL
UPS GROUND FREIGHT-PHENIX CITY	900 SOUTH BRICKYARD ROAD	PHENIX CITY	AL
VECTORPLY CORPORATION	3503 LAKEWOOD DRIVE	PHENIX CITY	AL
VOGUE INTERNATIONAL., PHENIX CITY DISTRIBUTION CENTER	903 FONTAINE ROAD	PHENIX CITY	AL
WADE STORE ALL	PIERCE ROAD PHENIX DRIVE	PHENIX CITY	AL
WAL-MART SUPERCENTER #1284	3700 HWY 280/431 NORTH	PHENIX CITY	AL
WALMART NEIGHBORHOOD MARKET #5903	3864 US HIGHWAY 80 WEST	PHENIX CITY	AL
WATERFORD SUBDIVISION	701 13TH STREET	PHENIX CITY	AL
WENDY'S PHENIX CITY	BETWEEN HOLIDAY INN AND REGIONS BANK	PHENIX CITY	AL
WILLOW TRACE	WILLOW BRANCH DRIVE	PHENIX CITY	AL
WILLOW TRACE SUBDIVISION- LOTS 1, 7, 56-61, 65-68, 72-82, 84-89, 91-100, 103-149	WEST OF KNOWLES ROAD; JUST SOUTH OF SUMMERWIND DRI	PHENIX CITY	AL
WOMMACK ROAD DIRT PIT	INTERSECTION OF US HWY 80 & WOMMACK ROAD	PHENIX CITY	AL
ZIPPY MART AL-553	1412 14TH ST	PHENIX CITY	AL

Sanitary Sewer Map



Action Center

(Example)

John B. Greene

From: Do Not Reply
Sent: Wednesday, May 19, 2021 5:34 PM
To: Angel Moore; Kathy Jo Davis; Benjamin Chastain; John B. Greene
Subject: Action Center Request "Erosion Control"
Attachments: Yard-erosion.jpg

From: [redacted]
Subject: Action Center Request

Message Body:

Nature of Problem: Erosion Control

Description of Problem: There is excessive water runoff that comes from cul-de-sac area that is causing erosion in several areas of property.

Location: [redacted] Subdivision

[redacted]
Phenix City, AL 36870

Contact Information

Name: [redacted]
Email: [redacted]
Phone Number: [redacted]

--
This email was sent from the Action Center on Phenix City, Alabama's official website (https://phenixcityal.us)

John B. Greene

From: Do Not Reply
Sent: Saturday, June 26, 2021 9:09 PM
To: Angel Moore; Kathy Jo Davis; Benjamin Chastain; John B. Greene
Subject: Action Center Request "Erosion Control"

From: [redacted]
Subject: Action Center Request

Message Body:

Nature of Problem: Erosion Control

Description of Problem: I live at [redacted] PC 36869.
The gravel a dirt cul de sac that is at the end of the street has eroded and a large portion of the gravel and dirt has washed down into the street over the years. The cul de sac is at the higher elevation and will continue to wash away until proper erosion control measures are put into place and the end of the street is paved.

Location: [redacted] Avenue, end of street, unfinished cul de sac

Contact Information

Name: [redacted]
Email: [redacted]
Phone Number: [redacted]

--
This email was sent from the Action Center on Phenix City, Alabama's official website (https://phenixcityal.us)

John B. Greene

From: John B. Greene
Sent: Friday, April 16, 2021 10:41 AM
To: Derek Wilson
Subject: FW: Action Center Request "Stormwater or Illicit Discharge Ordinance Violation"

From: Do Not Reply <donotreply@phenixcityal.us>
Sent: Friday, April 16, 2021 9:21 AM
To: Angel Moore <AMoore@phenixcityal.us>; Kathy Jo Davis <kdavis@phenixcityal.us>; Benjamin Chastain <BChastain@phenixcityal.us>; John B. Greene <jgreene@phenixcityal.us>
Subject: Action Center Request "Stormwater or Illicit Discharge Ordinance Violation"

From: [redacted]
Subject: Action Center Request

Message Body:

Nature of Problem: Stormwater or Illicit Discharge Ordinance Violation

Description of Problem: Gen. Colin Powell pkwy is littered with bagged garbage which obviously has fallen off a garbage truck. we try to pick up the garbage that [redacted] throw out but this is too much. The trash truck people are notorious for garbage falling out of the back of the truck in my neighborhood while on the hill but i have never seen it like this on the pkwy.

Location: Gen. Colin Powell pkwy between dillingham and the 280 bypass

Contact Information

Name: [redacted]
Email: [redacted]
Phone Number: [redacted]

--
This email was sent from the Action Center on Phenix City, Alabama's official website (https://phenixcityal.us)

Land Disturbance Permits

(Example)

PHENIX CITY, ALABAMA

LAND DISTURBING PERMIT

ENGINEERING DEPARTMENT PHONE 334-448-2760

PERMIT NO. **20-05**

Owner: **Dollar Tree**

Contractor: **Termac Construction, Inc.**

Address: **Compromise Court**

PERMIT ISSUANCE FOR:

Dollar Tree US 80 Ladonia

POST THIS CARD

NOTIFY ENGINEERING DEPARTMENT 48 HOURS

PRIOR TO COMMENCING WORK

APPROVED PLANS MUST BE RETAINED ON THE JOB SITE AND THIS CARD KEPT POSTED UNTIL FINAL INSPECTION HAS BEEN MADE.

THIS APPROVAL IN NO WAY RELIEVES THE PROPERTY OWNER, CONTRACTOR, ENGINEER OR OTHER AGENT OF HIS DAMAGE TO ADJACENT PROPERTIES AND LIABILITY RESULTING THERE FROM AND SHALL NOT CONSTITUTE AN ASSUMPTION OF LIABILITY BY THE CITY OF PHENIX CITY FOR DAMAGES CAUSED BY CONSTRUCTION AND/OR GRADING PERFORMED UNDER SAID PLANS AND PERMITS.

DO NOT REMOVE OR DEFACE THIS CARD UNTIL CONSTRUCTION IS COMPLETE

Construction Site Inspection

(Example, Resolved Following Verbal Notice)

City of Phenix City Engineering Department

INSPECTION REPORT

DATE 11/3/2021 TIME 9:43AM PROJECT/SUBDIVISION Ivy Creek
WEATHER Sunny CITY PERSONNEL Bo

DAILY REPORT OF ACTIVITIES

Contractor is grading and bringing materials, mainly storm pipe, on to the site for the development of the next phase in ivy creek subdivision. Currently erosion control measures are in place and are in good standing. Houses are being built in existing phases and erosion control measures are in place at these locations.

INSPECTION BY: John B Greene

Post Construction Inspection

(Examples)

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: Alatrade DATE: 8/4/2021 TIME 1:48PM

MAINTAINED BY: AlaTrade Foods LLC

PHOTOGRAHS TAKEN: Y ☑ N ☐ NUMBER OF PONDS ONSITE: 2

ITEMS INSPECTED

VEGETATIVE COVER: Grass, weeds. Are at a height greater than 6inches

SEDIMENT: No visible sediment or other erosion

DEBRIS: No visible debris

FENCING: No fencing around pond. The pond behind Alatrade is in a fenced area

INLETS: Inlets are free of obstruction

EMERGENCY SPILLWAY: All slopes are in good standing

COMMENTS/CORRECTIVE ACTION NEEDED: Vegetation needs to be cut/ mowed

INSPECTION BY: Bo Greene

PHENIX CITY Alabama

DEPARTMENT OF ENGINEERING / PUBLIC WORKS

601 12th Street | Phenix City, AL 36867 | Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

VIA CERTIFIED MAIL

August 10, 2021

C/O Plant Manager
AlaTrade Foods LLC
6 Downing Drive
Phenix City, AL 36869

Re: AlaTrade Detention Ponds

Dear Sir or Madam:

A representative of the City of Phenix City Engineering Department conducted a routine detention pond inspection for the above referenced site.

The following issues need to be addressed:

North Pond:

1) All tree saplings, brush, and debris must be removed from the basin.

South Pond:

1) All tree saplings, brush, and debris must be removed from the basin.
2) All grass and vegetation must be kept at a minimum height of no more than 6 inches.

These detention ponds fall under the Erosion and Sediment Control Policy of the City of Phenix City, amended by Ordinance No. 2007-07. A copy of this policy is available on the City's website: www.phenixcityal.us. The above deficiencies must be corrected within **15 days** of receipt of this notification letter. Failure to comply could result in the City of Phenix City issuing a citation. If you have any questions, you may contact the Engineering Department at 334-448-2760.

Sincerely,

Angel Moore, P.E.
City Engineer

Cc: File

Example of a Properly Maintained Detention Pond

Municipal Facility BMP Inspection Checklist

(Example)

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: Fire Station 4 **Location:** 1300 Airport Road

Department: Fire **Facility Contact:** Tommy Cox

Inspection Date: 10/19/2021 **Time:** _____ **Inspector:** Tommy Cox

	Yes	No	N/A	Comments
Overall Facility				
Work areas clear of trash, chemicals	✔			
Traffic routes clear of trash, chemicals	✔			
Fencing, gating, or lighting is functional	✔			
Spill control supplies fully stocked	✔			
Signs of erosion in vegetated areas		✔		
Interior Chemical Storage				
Materials stored in designated locations	✔			
SDS sheets available			✔	
Containers labeled	✔			
Containers stored away from driving lanes, aisles, or doorways	✔			
Accumulated liquids in spill pallets			✔	
Waste Storage Area				
Waste containers labeled	✔			
Containers stored away from driving lanes, aisles, or doorways	✔			
Waste containers closed when material is not being added	✔			
Waste containers over 3/4 full		✔		
Accumulated liquids in spill pallets			✔	
Spill control supplies fully stocked	✔			
Driving and Parking Areas				
Stains or puddles of chemicals present	✔			Minor oil staining in parking lot
Vehicle Wash Areas				
Foam or sheen present		✔		
Staining present at the facility outfall(s)		✔		
Other				

List of Municipal Facilities

Cemetery – 1206 7th Avenue

Fire Station No. 1 – 1910 Crawford Road*

Fire Station No. 3 – 510 South Seale Road*

Fire Station No. 4 – 1300 Airport Road*

Lakewood Golf Course – 2800 Lakewood Drive*

Parks and Recreation Maintenance Shop – 1150 Airport Road

Public Safety Building – 1111 Broad Street

Public Works – 1111 Broad Street, Building B*

Utility Department – 1118 Broad Street

Water Filtration Plant – 1100 32nd Street

Waste Water Treatment Plant – 1600 East State Docks Road

*- Denotes that facility has an oil/water separator that drains to sanitary sewer.

Vehicle Maintenance and Inspection

(Example)

Mowers

VEHICLE MAINTENANCE INSPECTION & CHECKLIST

VEHICLE/EQUIPMENT #: 106 Employee George miller Supervisor Jason Arnold

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
OPERATOR	George miller	George miller	George miller	George miller	George miller
DATE/TIME	1-4-21	1-5-21	1-6-21	1-7-21	1-8-21
HOURS/MILEAGE	139187	139191	139393	139475	139664
HORN/ALARM	ok	ok	ok	ok	ok
HOSES/BOLTS	ok	ok	ok	ok	ok
TRACK/TIRES	ok	ok	ok	ok	ok
ATTACHMENTS	ok	ok	ok	ok	ok
OIL/GREASE	ok	ok	ok	ok	ok
BRAKES/LIGHTS	ok	ok	ok	ok	ok
FUEL GAL./MILEAGE					
SERVICE MILEAGE	140880	140880	140880	140880	140880

Phenix City Engineering and Public Works

Fleet Maintenance Preliminary Worksheet

WO#	Date	Equipment Code	Equipment Name	Department	Odometer	Status
37994	03/19/21	ENG-29	2008 FORD F-150 EXT CAB 1FTRX14W58FC33078	6 - Engineering	44,890 M	Completed

Service / Repair Notes SERVICE

1 Due for Service
2
3 WC-
4 DUE SERVICE AGAIN AT 47890

Quantity	Part Number	Description	Unit Cost	Total Cost

Mechanic's Comments: **Mechanic's Hours:** _____

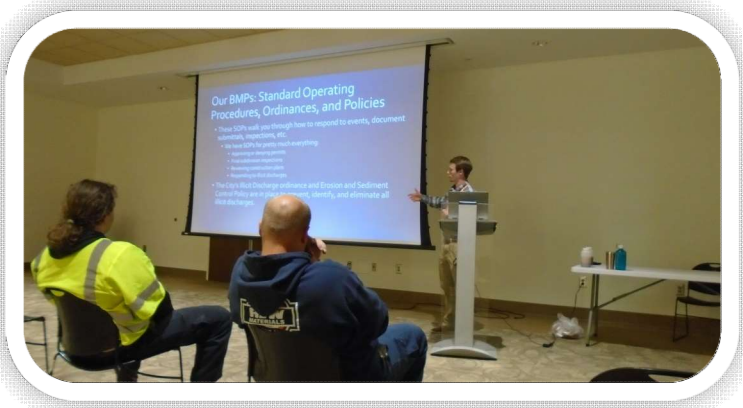
Mechanic: _____ **Checked By:** _____ **Date Completed:** _____

	PM Item Code / Name	Every	Last Service Date	WO#	Odometer
☐					

Part Number	Description	Quantity
15W40 (QT)	15w40	7.00

Municipal Training

Employee Training at the Idle Hour Community Center



MS4 TRAINING

Streets & Drainage /Asphalt

Date: 2021 - 2022

Batson, Clinton

Booker, Antwan

Harris, Kelvin

Horton, Chris

Jackson, Timothy

Jones, Jim

Leonard, Ricky

Wilson, Mathew

Williams, Vashone

Chastain, Paul

Jay Willoughby

	Name	Department
12:30	Blake Dexter	Utilities - WFP
	Terry Holland	Utilities - WWC
1:30	Eric Culberson	Utilities - WWC
	Dannie Slaughter	PCFR
	Josh Carter	PCFR
	Dustin Kilpatrick	PCFR
	Matt Johnston	PCFR
	Jason Fillingim	PCFR
2:30pm	Charles Wachy	PCU
	Jeremy Williams	PCU
	Jeff McManus	
	Robert Bottoms	
	Ronnie Norris	
	Quinterius Davis	
	William E. Miller	
	John F. Sprague Jr.	
	John Spraggins	

NAME	DEPARTMENT
9:00	
Adam Tilley	Eng/PW
Tommy Cost	ENG.
Chris Ellis	Golf Course
Chris Johnson	P&R
Marcus	UT
Water plant/utilities	Bensenville
10:00 William Threatts	Water Plant/utilities
Jared Hall	Utilities
10:30	Utilities
	Utilities - WWTP
Tommy Lyp	Phenix City Fire
11:00 Casandra Davis	P.C. Fire & Rescue
Joshua Smith	PCFR
Scott Singletary	PCFR
Brent Paul	PCFR
Brandon Smith	PCFR
William Allen	OT
Kurty Bragg	PC Fire
Bobby Brooks	PC Fire
Cody Gray	Utilities WWTP
	PC Fire
John D. Jackso	PCWWTP
Chris Casey	EGR
John (Bo) Greene	EGR

Qualified Credentialed Inspectors (QCIs) Certifications

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

John B. Greene

City of Phenix City

for satisfactory completion of

Online Refresher Training

QCI No. T5719
Expires 7/19/2022

This certificate confers four (4.0) professional development hour (PDH) equivalents to students who require credits for licenses or certifications. Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.

AUBURN UNIVERSITY

SAMUEL GINN
COLLEGE OF ENGINEERING

ALABAMA TRANSPORTATION ASSISTANCE PROGRAM

Certificate of Participation

Bo Greene

An Introduction to Construction Stormwater Management in Alabama

August 3, 2021

0.400 Continuing Education Credits

4.00 Course Hours

Chris Roberts
Dean, Samuel Ginn College of Engineering

Rod E Turochy
Director, Alabama Transportation Assistance Program

AUBURN UNIVERSITY

SAMUEL GINN
COLLEGE OF ENGINEERING

ALABAMA TRANSPORTATION ASSISTANCE PROGRAM

Certificate of Participation

Andrew Patterson

An Introduction to Construction Stormwater Management in Alabama

August 3, 2021

0.400 Continuing Education Credits

4.00 Course Hours

Chris Roberts
Dean, Samuel Ginn College of Engineering

Rod E Turochy
Director, Alabama Transportation Assistance Program

AUBURN UNIVERSITY

SAMUEL GINN
COLLEGE OF ENGINEERING

ALABAMA TRANSPORTATION ASSISTANCE PROGRAM

Certificate of Participation

Christopher J Casey

An Introduction to Construction Stormwater Management in Alabama

August 3, 2021

0.400 Continuing Education Credits

4.00 Course Hours

Chris Roberts
Dean, Samuel Ginn College of Engineering

Rod E Turochy
Director, Alabama Transportation Assistance Program

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Jimmy Cook

City of Phenix City

for satisfactory completion of

Online Refresher Training

QCI No. T6191
Expires 7/25/2022

This certificate confers four (4.0) professional development hour (PDH) equivalents to students who require credits for licenses or certifications.
Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Jonathan Foster

City of Phenix City Engineering

for satisfactory completion of

Online Initial

Training

QCI No. T7190

Expires 12/15/2022

This certificate confers six (6.0) professional development hours (PDHs) to students who require credits for licenses or certifications.
Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.

Water Monitoring

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): J. Foster, B. Greene Address: 1206 7th Ave

City: Phenix City State: AL Zip: 36867 Phone N°: 334 448 2768

Sample Date: 3/29/22 Sample Time: 1020 AWW Site Code: 03015011

Watershed: Chattahoochee Waterbody: Holland Creek County & State: Russell, AL

Sampling site location: Mon. Point 1 Downstream of Bridge at Lakewood Dr.

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition:	☑ Adequate Depth	☐ Inadequate Depth	☐ Dry	☐ No Access
Tidally influenced rivers:	☐ Rising Tide	☐ Falling Tide	☐ Uncertain	☑ No Applicable

Variable	Value	Comments
Air Temperature	9 °C	Measure air temperature before water temperature.
Water Temperature	6.5 °C	Avoid touching thermometer bulb.
pH	7.0 standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 8.2 ppm Rep 2: 8.4 ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	_____ Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	4 # drops x 5 = 20 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	4 # drops x 10 = 40 mg/L	
Turbidity	1 # 0.5 mL x 5 (50mL) = _____ JTU _____ # 0.5 mL x 10 (25mL) _____ JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.

Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.	AWW Office Use

Other Chemistry Tests		YSI Meter data, Nitrates, Phosphate, etc.

I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the **Comments** section were obtained using AWW techniques.

☐ **Check for electronic signature.** Jonathan Foster

Monitor signature

Alabama Water Watch 2013

Alabama Water Watch
559 Devall Dr.
Auburn University, AL 36849-5124

Toll Free: 1-888-844-4785

Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): J. Foster, B. Goodne Address: 1206 7th Ave

City: Phenix City State: AL Zip: 36867 Phone N°: 334 448 2768

Sample Date: 3/29/22 Sample Time: 14 55 AWW Site Code: 03020004

Watershed: Chattahoochee Waterbody: Holland-Mill Creek County & State: Russell, AL

Sampling site location: Monitoring Point 2 Behind Public Works Yard

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition:	☑ Adequate Depth	☐ Inadequate Depth	☐ Dry	☐ No Access
Tidally influenced rivers:	☐ Rising Tide	☐ Falling Tide	☐ Uncertain	☑ No Applicable

Variable	Value	Comments
Air Temperature	17 °C	Measure air temperature before water temperature.
Water Temperature	10 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.2 ppm Rep 2: 7.6 ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	_____ Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	5 # drops x 5 = 25 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	4 # drops x 10 = 40 mg/L	
Turbidity	1 # 0.5 mL x 5 (50mL) = 5 JTU _____ # 0.5 mL x 10 (25mL) _____ JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.

Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.	AWW Office Use

Other Chemistry Tests		YSI Meter data, Nitrates, Phosphate, etc.

I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the **Comments** section were obtained using AWW techniques.

☐ **Check for electronic signature.** Jonathan Foster

Monitor signature

Alabama Water Watch 2013

Alabama Water Watch
559 Devall Dr.
Auburn University, AL 36849-5124

Toll Free: 1-888-844-4785

Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): J. Foster, B. Greene Address: 1206 7th Ave

City: Phenix City State: AL Zip: 36867 Phone N°: 334 478 2768

Sample Date: 3-29-22 Sample Time: 9:25 AM AWW Site Code: 03020001

Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell, AL

Sampling site location: Main Point 3 Where Mill Creek enters MS4

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition: ☑ Adequate Depth ☐ Inadequate Depth ☐ Dry ☐ No Access

Tidally influenced rivers: ☐ Rising Tide ☐ Falling Tide ☐ Uncertain ☑ No Applicable

Variable	Value	Comments
Air Temperature	4.5 °C	Measure air temperature before water temperature.
Water Temperature	3.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.6 ppm Rep 2: 7.8 ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. 1.0 Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	_____ Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	5 # drops x 5 = 25 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	6 # drops x 10 = 60 mg/L	
Turbidity	1 # 0.5 mL x 5 (50mL) = _____ JTU X # 0.5 mL x 10 (25mL) _____ JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.

Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.	AWW Office Use

Other Chemistry Tests		YSI Meter data, Nitrates, Phosphate, etc.

I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the **Comments** section were obtained using AWW techniques.

☐ **Check for electronic signature.** Jonathan Foster

Monitor signature

Alabama Water Watch 2013

Alabama Water Watch
559 Devall Dr.
Auburn University, AL 36849-5124

Toll Free: 1-888-844-4785

Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): J. Foster, B. Greene Address:

City: Phenix City State: AL Zip: 36867 Phone N°: 334 448 2268

Sample Date: 3/29/22 Sample Time: 1420 AWW Site Code: 03020005

Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell, AL

Sampling site location: Mon. Point 4 Near Confluence of Mill Creek & Holland Creek

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition:	☑ Adequate Depth	☐ Inadequate Depth	☐ Dry	☐ No Access
Tidally influenced rivers:	☐ Rising Tide	☐ Falling Tide	☐ Uncertain	☑ No Applicable

Variable	Value	Comments
Air Temperature	16 °C	Measure air temperature before water temperature.
Water Temperature	9 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 8.2 ppm Rep 2: 8.0 ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	_____ Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	6 # drops x 5 = 30 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	6 # drops x 10 = 60 mg/L	
Turbidity	1 # 0.5 mL x 5 (50mL) = _____ JTU _____ # 0.5 mL x 10 (25mL) _____ JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.

Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.	AWW Office Use

Other Chemistry Tests		YSI Meter data, Nitrates, Phosphate, etc.

I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the **Comments** section were obtained using AWW techniques.

☐ **Check for electronic signature.** Jonathan Foster

Monitor signature

Alabama Water Watch 2013

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559 Devall Dr.
Auburn University, AL 36849-5124

Toll Free: 1-888-844-4785

Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

Auburn Environmental Consulting & Testing

Alabama Office
334/745-0055 or 800/662-1584
Fax: 334/745-3095
TBrantly@AuburnEnvironmental.com
6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office
1-800-408-0083
MWallace@AuburnEnvironmental.com
PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1204- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 29 MAR 22/1020
SAMPLE # 150891/150892/150893/150894
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.0 mg/l	SM5210B	AB	03-30-22	1711
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-30-22	1450
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-10-22	1210
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	04-06-22	1903
TOTAL PHOSPHORUS	0.0261 mg/l	SM4500-P-E	MS	04-07-22	1639

SAMPLE DATE/TIME: 29 MAR 22/1109
SAMPLE # 150895/150896/150897/150898
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	03-30-22	1711
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-30-22	1616
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-10-22	1210
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	04-06-22	1931
TOTAL PHOSPHORUS	0.0981 mg/l	SM4500-P-E	MS	04-07-22	1639

SAMPLE DATE/TIME: 29 MAR 22/0925
SAMPLE # 150899/150900/150901/150902
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	03-30-22	1711
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-30-22	1644
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-10-22	1210
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	04-06-22	2056
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	04-07-22	1639

SAMPLE DATE/TIME: 29 MAR 22/0948
SAMPLE # 150903/150904/150905/150906
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	03-30-22	1711
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-30-22	1713
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-10-22	1210
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	04-06-22	2125
TOTAL PHOSPHORUS	0.0333 mg/l	SM4500-P-E	MS	04-07-22	1639

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY:

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **1 – HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
150891	CBOD: PRESERVED 4°C	3-29-22	10.20 Am	
150892	ORTHOPHOSPHATE: PRESERVED 4°C	3-29-22	10:20 Am	
150893	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3-29-22	10:20Am	
150894	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3-29-22	10:20Am EST	

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME:	3-29-22 11:42		
RECEIVED BY: X Chi Re	DATE/TIME:	29 Mar 22 1:40 PM		X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X (LABORATORY)	DATE/TIME:	29 Mar 22 2:40 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4 °C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **2 – HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
150895	CBOD: PRESERVED 4°C	3-29-22	11.09 AM	Bo Greene
150896	ORTHOPHOSPHATE: PRESERVED 4°C	3-29-22	11.09 AM	Bo Greene
150897	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3-29-22	11:09AM	Bo Greene
150898	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3-29-22	11:09AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 3-29-22 11:42			
RECEIVED BY: X Chi Re	DATE/TIME: 29Mar22 1:10PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi (LABORATORY)	DATE/TIME: 29Mar22 2:50PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 503 THERMOMETER ID#: 302

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **3 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
150899	CBOD: PRESERVED 4°C	3-29-22	9:25 AM	Bo / Jonathan
150900	ORTHOPHOSPHATE: PRESERVED 4°C	3-29-22	9:25 AM	Bo / Jonathan
150901	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3-29-22	9:25 AM	Bo / Jonathan
150902	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3-29-22	9:25 AM	Bo / Jonathan

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 3-29-22 11:42		
RECEIVED BY: X [signature]	DATE/TIME: 29 MAR 22 1:10PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 29MAR22 3:00PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **4 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
150903	CBOD: PRESERVED 4°C	3-29-22	10:40 AM	Bo/Jonathon
150904	ORTHOPHOSPHATE: PRESERVED 4°C	3-29-22	10:40 AM	Bo/Jonathon
150905	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3-29-22	10:40 AM	Bo/Jonathon
150906	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3-29-22	10:40 AM	Bo/Jonathon

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Geer	DATE/TIME: 11:42 3-29-22			
RECEIVED BY: X Chi Rem	DATE/TIME: 29 Mar 22 1:10pm			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi M (LABORATORY)	DATE/TIME: 29 Mar 22 3:10pm			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 392

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

Alabama Office
334/745-0055 or 800/662-1584
Fax: 334/745-3095
TBrantly@AuburnEnvironmental.com
6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office
1-800-408-0083
MWallace@AuburnEnvironmental.com
PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1210- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 28 SEP 21/0935
SAMPLE # 148517/148518/148519/148520
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.1 mg/l	SM5210B	AB	09-29-21	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	09-29-21	2053
TKN	<1.00 mg/l	A4500-NH3-D	TRS	10-05-21	1322
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	10-05-21	2000
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	MSK	10-05-21	1510

SAMPLE DATE/TIME: 28 SEP 21/1048
SAMPLE # 148521/148522/148523/148524
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.4 mg/l	SM5210B	AB	09-29-21	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	09-29-21	2310
TKN	<1.00 mg/l	A4500-NH3-D	TRS	10-05-21	1400
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	10-05-21	2028
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	MSK	10-05-21	1516

SAMPLE DATE/TIME: 28 SEP 21/1000
SAMPLE # 148525/148529/148527/148528
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.2 mg/l	SM5210B	AB	09-29-21	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	09-29-21	2215
TKN	<1.00 mg/l	A4500-NH3-D	TRS	10-09-21	1402
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	10-05-21	1855
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	MSK	10-05-21	1520

SAMPLE DATE/TIME: 28 SEP 21/1023
SAMPLE # 148529/148530/148531/148532
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.0 mg/l	SM5210B	AB	09-29-21	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	09-29-21	2242
TKN	<1.00 mg/l	A4500-NH3-D	TRS	10-05-21	1404
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	10-05-21	1923
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	MSK	10-05-21	1522

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: CB

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **1 – HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
148517	CBOD: PRESERVED 4°C	9-28-21	9:35	Bo Greene
148518	ORTHOPHOSPHATE: PRESERVED 4°C	9-28-21	9:35	Bo Greene
148519	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9-28-21	9:36	Bo Greene
148520	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9-28-21	9:36	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 9-28-21			
RECEIVED BY: X Chris Ra	DATE/TIME: 28 Sept 21 1:05 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chris (LABORATORY)	DATE/TIME: 28 Sept 21 2:30 PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – 2 – **HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
148521	CBOD: PRESERVED 4°C	9-28-21	10:48	Bo Greer
148522	ORTHOPHOSPHATE: PRESERVED 4°C	9-28-21	10:48	Bo Greer
148523	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9-28-21	10:48	Bo Greer
148524	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9-28-21	10:48	Bo Greer

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greer	DATE/TIME: 9-28-21			
RECEIVED BY: X Chris Ben	DATE/TIME: 28 Sept 21 1:55PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chris (LABORATORY)	DATE/TIME: 28 Sept 21 2:30PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 302

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **3 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
148525	CBOD: PRESERVED 4°C	9-28-21	10:00	Bo Greene
148526	ORTHOPHOSPHATE: PRESERVED 4°C	9-28-21	10:00	Bo Greene
148527	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9-28-21	10:01	Bo Greene
148528	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9-28-21	10:01	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 9-28-21			
RECEIVED BY: X [signature]	DATE/TIME: 28Sept21 1:05PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 28Sept21 2:40pm			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **4 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
148529	CBOD: PRESERVED 4°C	9-28-21	10:23	Bo Greene
148530	ORTHOPHOSPHATE: PRESERVED 4°C	9-28-21	10:24	Bo Greene
148531	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9-28-21	10:23	Bo Greene
148532	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9-28-21	10:23	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME:	9-28-21		
RECEIVED BY: X [signature]	DATE/TIME:	28 Sept 21 1:05 PM		X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME:	28 Sept 21 2:45 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

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PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1201- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 28 DEC 21/0935 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 149567/149568/149569/149570 — LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.0 mg/l	SM5210B	AB	12-29-21	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	12-29-21	1732
TKN	<1.00 mg/l	A4500-NH3-D	TRS	01-14-21	1315
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	01-16-21	1453
TOTAL PHOSPHORUS	0.0340 mg/l	SM4500-P-E	MSK	01-11-21	1809

SAMPLE DATE/TIME: 28 DEC 21/1048 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 149571/149572/149573/149574 — LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.2 mg/l	SM5210B	AB	12-29-21	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	12-29-21	1759
TKN	<1.00 mg/l	A4500-NH3-D	TRS	01-14-21	1315
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	01-16-21	1527
TOTAL PHOSPHORUS	0.0448 mg/l	SM4500-P-E	MSK	01-11-21	1809

SAMPLE DATE/TIME: 28 DEC 21/1000 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 149575/149576/149577/149528 — LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-29-21	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	12-29-21	1825
TKN	<1.00 mg/l	A4500-NH3-D	TRS	01-14-21	1315
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	01-17-21	1101
TOTAL PHOSPHORUS	0.0484 mg/l	SM4500-P-E	MSK	01-11-21	1809

SAMPLE DATE/TIME: 28 DEC 21/1023 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 149579/149580/149581/149582 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-29-21	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	12-29-21	1852
TKN	<1.00 mg/l	A4500-NH3-D	TRS	01-14-21	1315
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	01-16-21	2103
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MSK	01-11-21	1809

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: TS

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **1 – HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
149567	CBOD: PRESERVED 4°C	12-28-2021	9:45 AM	Bo Greene
149568	ORTHOPHOSPHATE: PRESERVED 4°C	12-28-2021	9:45 AM	J. Foster
149569	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12-28-2021	9:45 AM	J. Foster
149570	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12-28-2021	9:45 AM	J. Foster

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/28/21			✓
RECEIVED BY: X Chi	DATE/TIME: 28 Dec 21 12:15PM			✓
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Re (LABORATORY)	DATE/TIME: 28 Dec 21 2:00PM			✓

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **2 – HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
149571	CBOD: PRESERVED 4°C	12-28-2021	10:10 AM	J. Foster
149572	ORTHOPHOSPHATE: PRESERVED 4°C	12-28-2021	10:10 AM	J. Foster
149573	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12-28-2021	10:10 AM	J. Foster
149574	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12-28-2021	10:10 AM	Bo Grace

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/28/21		✓
RECEIVED BY: X Chi Re	DATE/TIME: 28 Dec 21 12:15PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Re (LABORATORY)	DATE/TIME: 28 Dec 21 2:05PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **3 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
149575	CBOD: PRESERVED 4°C	12-28-2021	9:14 AM	Jonathan F.
149576	ORTHOPHOSPHATE: PRESERVED 4°C	12-28-2021	9:14 AM	Jonathan F
149577	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12-28-2021	9:14 AM	Bo G.
149578	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12-28-2021	9:14 AM	Bo G.

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/28/21		✓
RECEIVED BY: X Chi Ben	DATE/TIME: 28 Dec 21 12:18 PM		
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Ben (LABORATORY)	DATE/TIME: 28 Dec 21 2:10 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: ESR

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **4 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
149579	CBOD: PRESERVED 4°C	12-28-2021	9:36 AM	J. Foster
149580	ORTHOPHOSPHATE: PRESERVED 4°C	12-28-2021	9:36 AM	J. Foster
149581	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12-28-2021	9:36 AM	Bo Greene
149582	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12-28-2021	9:36 AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Johnathan Foster	DATE/TIME: 12/28/21	X	✓
RECEIVED BY: X	DATE/TIME: 28 Dec 21 12:16 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X (LABORATORY)	DATE/TIME: 28 Dec 21 2:12 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

Alabama Office
334/745-0055 or 800/662-1584
Fax: 334/745-3095
TBrantly@AuburnEnvironmental.com
6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office
1-800-408-0083
MWallace@AuburnEnvironmental.com
PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1207- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 29 JUN 21/0930 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 147626/147627/147628/147629 — LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.0 mg/l	SM5210B	AB	06-30-21	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	06-30-21	1745
TKN	<1.00 mg/l	A4500-NH3-D	TRS	07-09-21	1550
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	07-08-21	1720
TOTAL PHOSPHORUS	0.0201 mg/l	SM4500-P-E	MS	07-07-21	1335

SAMPLE DATE/TIME: 29 JUN 21/1037 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 147630/147631/147632/147633 — LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	06-30-21	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	06-30-21	1813
TKN	<1.00 mg/l	A4500-NH3-D	TRS	07-09-21	1518
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	07-08-21	1748
TOTAL PHOSPHORUS	0.0201 mg/l	SM4500-P-E	MS	07-07-21	1335

SAMPLE DATE/TIME: 29 JUN 21/0950 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 147634/147635/147636/147637 — LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	06-30-21	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	06-30-21	1841
TKN	<1.00 mg/l	A4500-NH3-D	TRS	07-09-21	1552
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	07-08-21	1816
TOTAL PHOSPHORUS	0.0786 mg/l	SM4500-P-E	MS	07-07-21	1335

SAMPLE DATE/TIME: 29 JUN 21/1015 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 147638/147639/147640/147641 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	06-30-21	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	HDJ	06-30-21	1909
TKN	<1.00 mg/l	A4500-NH3-D	TRS	07-09-21	1440
NITRATE+NITRITE	<0.500 mg/l	300.0	HDJ	07-08-21	1844
TOTAL PHOSPHORUS	0.0347 mg/l	SM4500-P-E	MS	07-07-21	1335

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY:

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **1 – HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
147626	CBOD: PRESERVED 4°C	6-29-21	9:30 AM	Bo Greene
147627	ORTHOPHOSPHATE: PRESERVED 4°C	6-29-21	9:30 AM	Bo Greene
147628	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6-29-21	9:30 AM	Bo Greene
147629	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6-29-21	9:30 AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 6-29-21 11:00AM			
RECEIVED BY: X Chris Rem	DATE/TIME: 29 Jun 21 1:15 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X (LABORATORY)	DATE/TIME: 29 Jun 21 2:35 PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 302

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **2 – HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
147630	CBOD: PRESERVED 4°C	6-29-21	10:37 AM	Bo Greene
147631	ORTHOPHOSPHATE: PRESERVED 4°C	6-29-21	10:37 AM	Bo Greene
147632	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6-29-21	10:37 AM	Bo Greene
147633	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6-29-21	10:37 AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 6-29-21 11:00AM			
RECEIVED BY: X [signature]	DATE/TIME: 29 Jun 21 1:15PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 29 Jun 21 2:45PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AELT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **3 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
147634	CBOD: PRESERVED 4°C	6-29-21	9:50AM	Bo Greene
147635	ORTHOPHOSPHATE: PRESERVED 4°C	6-29-21	9:50 AM	Bo Greene
147636	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6-29-21	9:50 AM	Bo Greene
147637	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6-29-21	9:50AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 6-29-21 11:00AM			
RECEIVED BY: X [signature]	DATE/TIME: 29 JUN21			X
TRANSFERRED BY: X	DATE/TIME: 1:45PM			
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 29 JUN21 2:55PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

ACT PROJECT NO.: 404-1000
STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL
6485 LEE ROAD 54
AUBURN, AL 36830
(334) 745-0055

CLIENT: CITY OF PHENIX CITY
LOCATION: PHENIX CITY, AL
PROJECT: 4482-16-055
SAMPLE LOCATION – **4 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
147638	CBOD: PRESERVED 4°C	6-29-21	10:15 AM	Bo Greene
147639	ORTHOPHOSPHATE: PRESERVED 4°C	6-29-21	10:15 AM	Bo Greene
147640	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6-29-21	10:15 AM	Bo Greene
147641	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6-29-21	10:15 AM	Bo Greene

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 6-29-21 11:00AM		
RECEIVED BY: X [signature]	DATE/TIME: 29 Jun 21 3:05 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 29 Jun 21 3:05 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

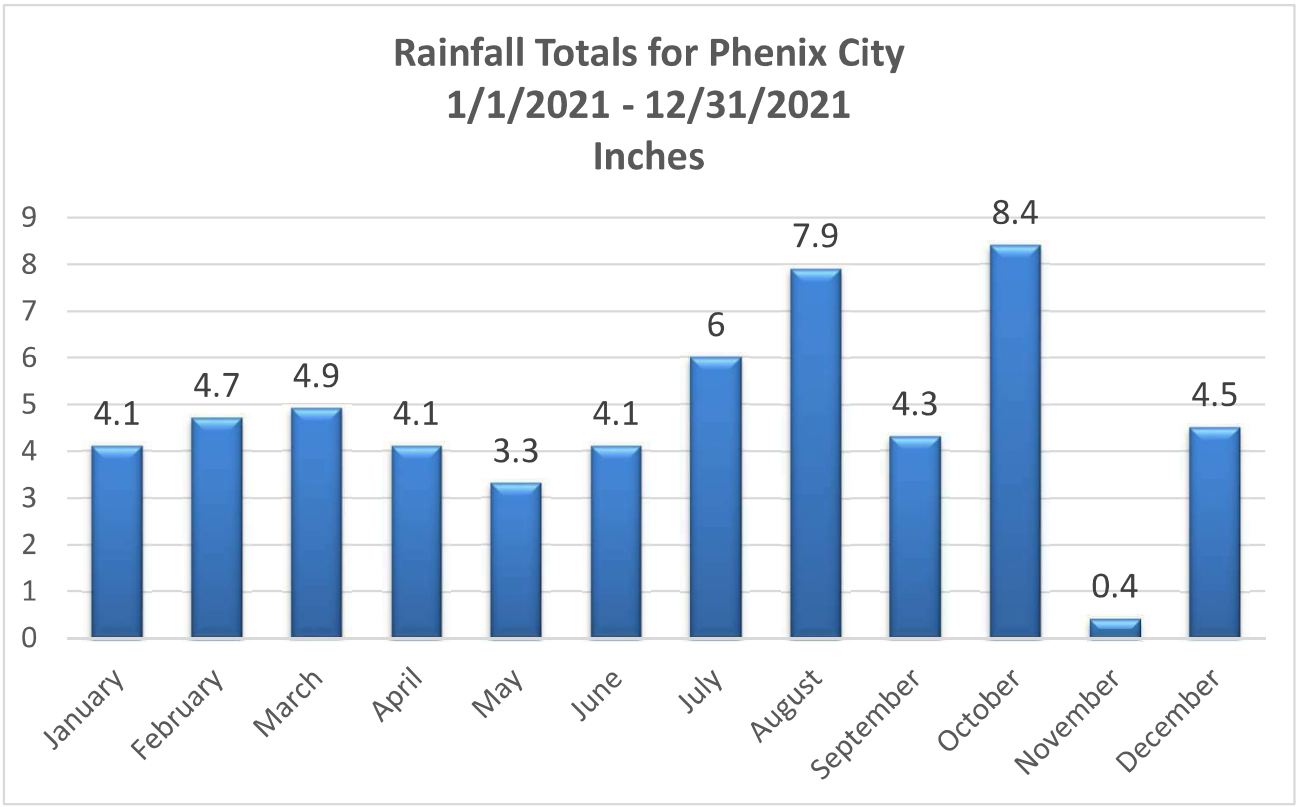
SAMPLES STORED IN REFRIGERATOR ID#: 503 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

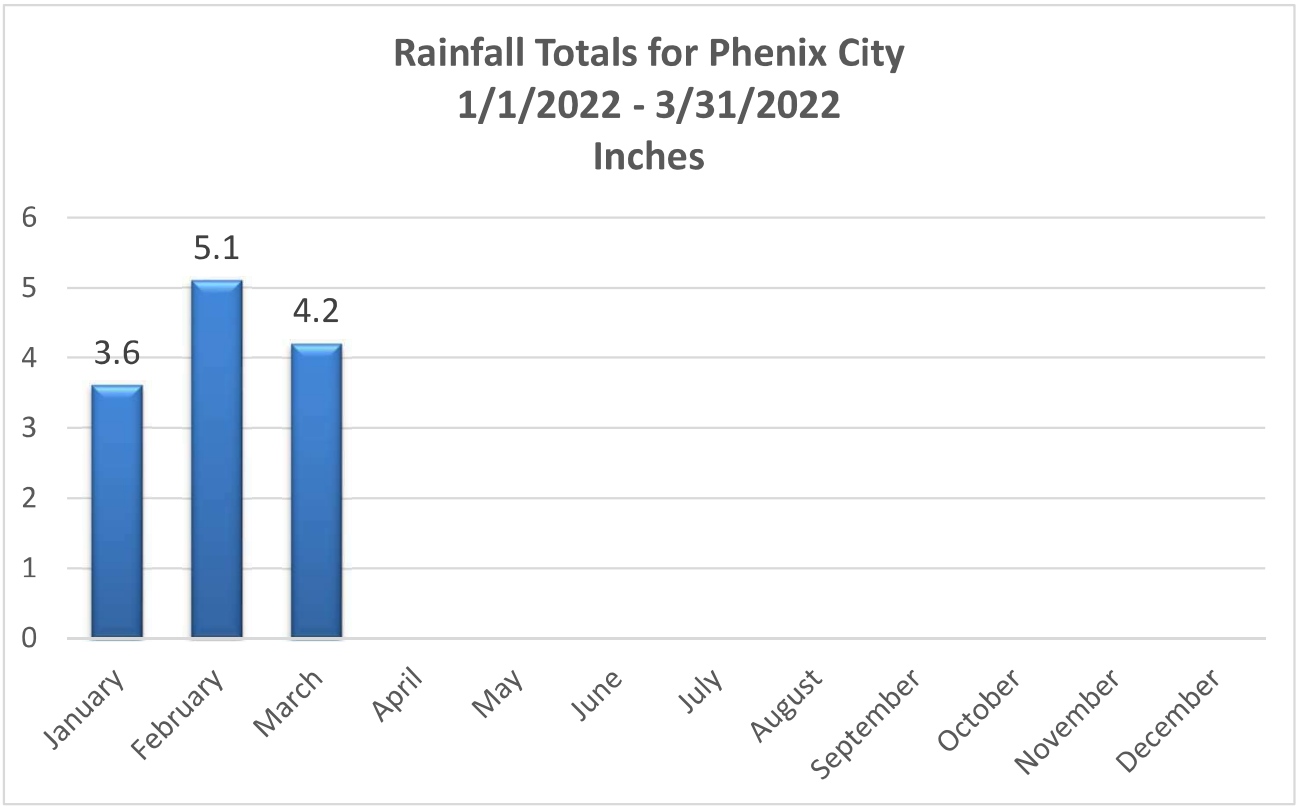
pH Calibration : ___pH 4_____pH 7_____pH 10

Rainfall Data

Rainfall Totals for Phenix City 1/1/2021 - 12/31/2021		
January	4.1	in.
February	4.7	in.
March	4.9	in.
April	4.1	in.
May	3.3	in.
June	4.1	in.
July	6	in.
August	7.9	in.
September	4.3	in.
October	8.4	in.
November	0.4	in.
December	4.5	in.
Yearly Total	**56.7**	**in.**



Rainfall Totals for Phenix City 1/1/2022 - 3/31/2022		
January	3.6	in.
February	5.1	in.
March	4.2	in.
April		in.
May		in.
June		in.
July		in.
August		in.
September		in.
October		in.
November		in.
December		in.
Total	**13.7**	**in.**



Appendix III – Construction Forms

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: _____ **Location:** _____

Department: _____ **Facility Contact:** _____

Inspection Date: _____ **Time:** _____ **Inspector:** _____

	Yes	No	N/A	Comments
Overall Facility				
Work areas clear of trash, chemicals	☐	☐	☐	
Traffic routes clear of trash, chemicals	☐	☐	☐	
Fencing, gating, or lighting is functional	☐	☐	☐	
Spill control supplies fully stocked	☐	☐	☐	
Signs of erosion in vegetated areas	☐	☐	☐	
Interior Chemical Storage				
Materials stored in designated locations	☐	☐	☐	
SDS sheets available	☐	☐	☐	
Containers labeled	☐	☐	☐	
Containers stored away from driving lanes, aisles, or doorways	☐	☐	☐	
Accumulated liquids in spill pallets	☐	☐	☐	
Waste Storage Area				
Waste containers labeled	☐	☐	☐	
Containers stored away from driving lanes, aisles, or doorways	☐	☐	☐	
Waste containers closed when material is not being added	☐	☐	☐	
Waste containers over 3/4 full	☐	☐	☐	
Accumulated liquids in spill pallets	☐	☐	☐	
Spill control supplies fully stocked	☐	☐	☐	
Driving and Parking Areas				
Stains or puddles of chemicals present	☐	☐	☐	
Vehicle Wash Areas				
Foam or sheen present	☐	☐	☐	
Staining present at the facility outfall(s)	☐	☐	☐	
Other				
	☐	☐	☐	
	☐	☐	☐	

City of Phenix City Engineering Department

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

DATE:_____TIME_____ PROJECT/SUBDIVISION:_____
WEATHER:_____ CITY PERSONNEL:_____
REGULAR_____ WEATHER EVENT_____ CITIZEN COMPLAINT_____ OTHER_____

DAILY REPORT OF ACTIVITIES

INSPECTION BY: _____

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE:_____ DATE:_____TIME_____
DATE OF LAST INSPECTION:_____ DESIGN DATA ON FILE: Y___ N ___
MAINTAINED BY:_____
PHOTOGRAHS TAKEN: Y___ N___ NUMBER OF PONDS ONSITE:_____

ITEMS INSPECTED

VEGETATIVE COVER:_____
_____

SEDIMENT:_____
_____

DEBRIS:_____
_____

FENCING:_____
_____

INLETS:_____
_____

EMERGENCY SPILLWAY:_____
_____

COMMENTS/CORRECTIVE ACTION NEEDED:_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

INSPECTED BY:_____
TITLE:_____

Notification of The Erosion and Sediment Control Policy of The City of Phenix City, AL

Contact Information:

Property Owner	Site Address
Owner Address	Contractor
City / State	Contact Number

You are hereby notified of the Erosion and Sediment Control Policy of the City of Phenix City, AL, adopted on August 16, 2005 by Ordinance 2005-22 and amended on February 21, 2007 by Ordinance 2007-07. Failure to comply with the provisions of the policy could result in the City of Phenix City issuing a citation or a stop work order or both in accordance with the above referenced ordinance.

As required by Section V of the above referenced policy: Before the commencement of any land disturbing activity that affects one acre or more, the owner of the land on which such activity shall be conducted, or their duly authorized agent, shall file with the City of Phenix City copies of their NPDES Permit and obtain approval of a site-specific Erosion and Sediment Control (ESC) Plan.

As required by Section IV of the above referenced policy: Permit by Rule status will be assigned to those non-excluded land disturbing activities less than one acre in size and any existing disturbed sites that are contribution to sediment runoff. These sites, although not required to obtain an NPDES Permit or submit for approval an ESC Plan, are still required to implement and maintain best management practices at the site and are subject to all provisions of the policy.

As required by Section VII of the above referenced policy: Grading, erosion control practices, sediment control practices, and waterway crossings shall meet the design criteria set forth in the most recent version of the BMP Manual(s) approved by ADEM, and any additional requirements set forth by the City and shall be adequate to prevent transportation of sediment from the site to the satisfaction of the City.

I hereby acknowledge that I have read this Notification of the Erosion and Sediment Control Policy of the City of Phenix City.

Signature _____ Date _____

Rev. 11/15

City of Phenix City Engineering and Public Works Department

Permit to Construct a Turnout to Provide Access to a City Street (Residential)

Remit to: P.O. Drawer 279, 1206 7th Avenue, Phenix City, AL 36867, (334) 448-2760

Name of Applicant _____

Mailing Address _____

City_____ State _____ Zip Code _____

Telephone Number _____

Office Use Only
Permit Number
Date Received
Date Approved

Address of Proposed Turnout _____

Description of Work _____

_____

The applicant hereby request permission from the City of Phenix City Engineering Department to construct a turnout to the above named City Street. The applicant agrees that approval of this request is subject to revocation by the Engineering Department and subject to the following terms and conditions:

1. The applicant agrees to comply with the current policy, specifications, and standard drawings as set forth by the Phenix City Engineering Department. Information is available at the above remittance address.
2. **The applicant agrees to contact the Phenix City Engineering Department for a site evaluation before work on said driveway begins and a pre-poured framing inspection.**
3. The applicant is not permitted to use any portion of the City right-of-way for any purpose other than construction and maintenance of the proposed turnout. Structures, signs, trees/shrubs, or any other right-of-way encroachment not described above and /or shown on an attached drawing and approved as a part of this permit are prohibited.
4. The applicant agrees to maintain any drainage structures installed or constructed as a part of this permit and keep the same cleaned out and functioning properly at all times. The City will only maintain that portion of the turnout that ties in with the street that may be necessary due to modifications to the roadway.
5. The applicant shall be responsible for locating any underground utilities that may be in conflict with the proposed work. Any damages that occur to existing utilities, existing drainage structures, or the existing street surface will be the sole responsibility of the applicant. In the case where City forces are installing a pipe and fill for the turnout, the applicant's responsibility is waived for that portion of the work completed by City forces.
6. The applicant agrees that the proposed driveway shall not be constructed above any existing water and/or sanitary sewer services and will provide a minimum horizontal clearance of 5 feet between driveway and said services. This requirement is only for water and sanitary sewer services on which the City of Phenix City would perform repairs such as water services from the main to the meter and sanitary services under street pavement.
7. The applicant is responsible for conforming to the regulations of the Environmental Protection Agency (EPA) and the Alabama Department of Environmental Management (ADEM) for the proposed work. This also applies to any hazardous materials encountered during the construction of the turnout.
8. The applicant shall not make any additions or modifications to the turnout or surrounding right-of-way without obtaining a new permit from the Phenix City Engineering Department. The applicant also agrees that the City of Phenix City or its contractors have the right to remove and/or reconstruct the turnout if it becomes necessary without any compensation to the applicant.
9. The turnout and related work covered by this permit shall be completed within one year from the date of application or the permit becomes null and void. Once work has begun it shall be pursued in a continuous and diligent manner until completion.

Signed _____ _____
Applicant Date

Recommended for Approval:

_____ _____ _____
Authorized Representative Title Date

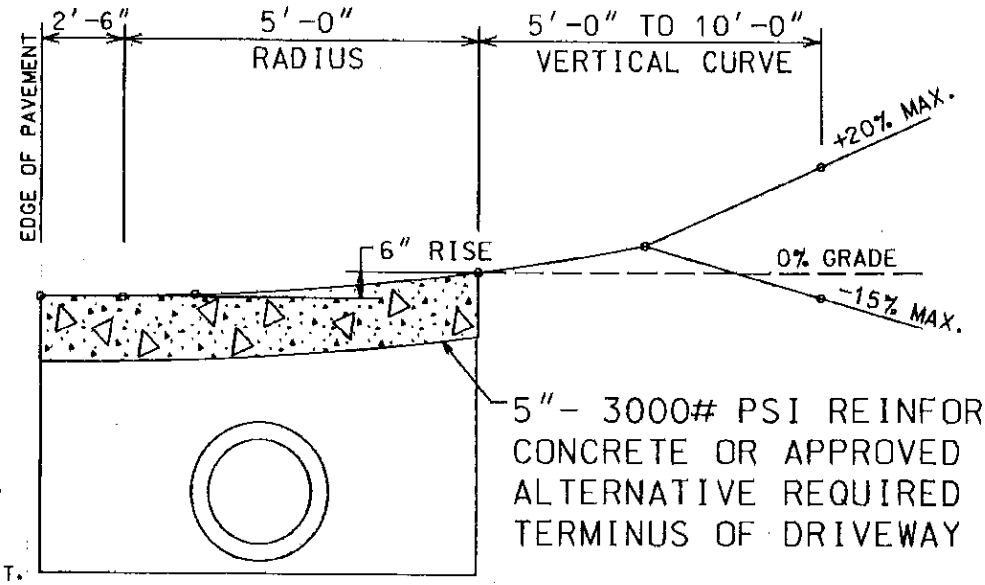
APPROVED:

_____
City Engineer

_____
Date

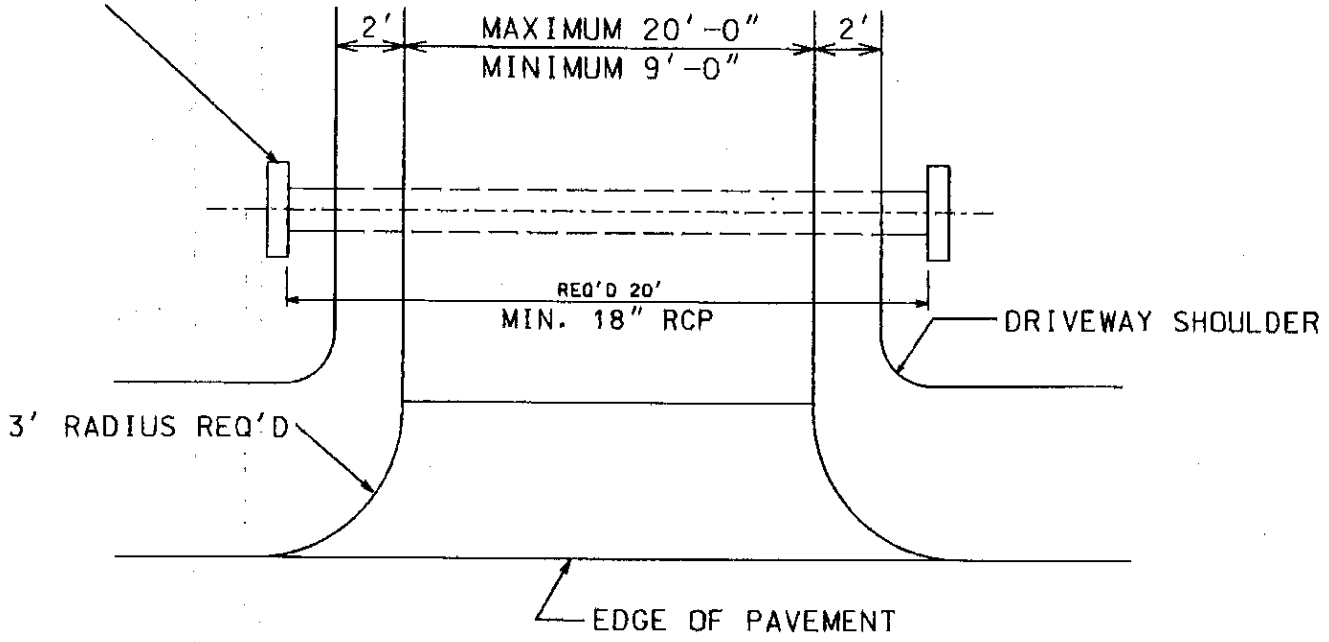
℄ PROFILE SECTION

(NOT TO SCALE)



5"- 3000# PSI REINFORCED CONCRETE OR APPROVED ALTERNATIVE REQUIRED TO TERMINUS OF DRIVEWAY RADIUS

SLOPED PAVED HEADWALL OR FLARE END SECTIONS REQ'D AT EACH END ALTERNATIVE TYPES OF HEADWALLS MUST HAVE APPROVAL OF ENGR. DEPT. SEE ALABAMA DEPT. OF TRANSPORTATION SPC. DWG. FE-619 (FLARED END SECT) SPC. DWG. HW 614-B (SLOPED PAVED)



RESIDENTIAL DRIVEWAY WITH RADIUS DITCH SECTION

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

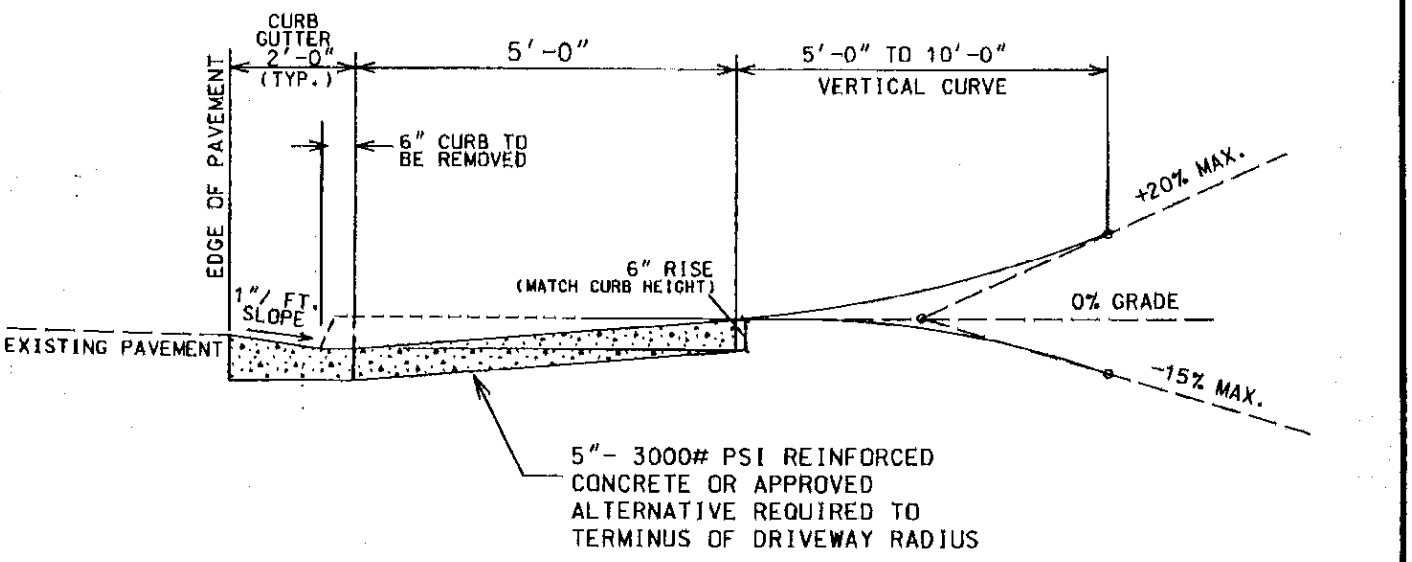
DETAILS FOR RESIDENTIAL TURNOUT (RURAL SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 B	12-6-93	BQ
SCALE: N.T.S.	REVISIONS: 10-04-06	ABT
	9-29-08	ABT

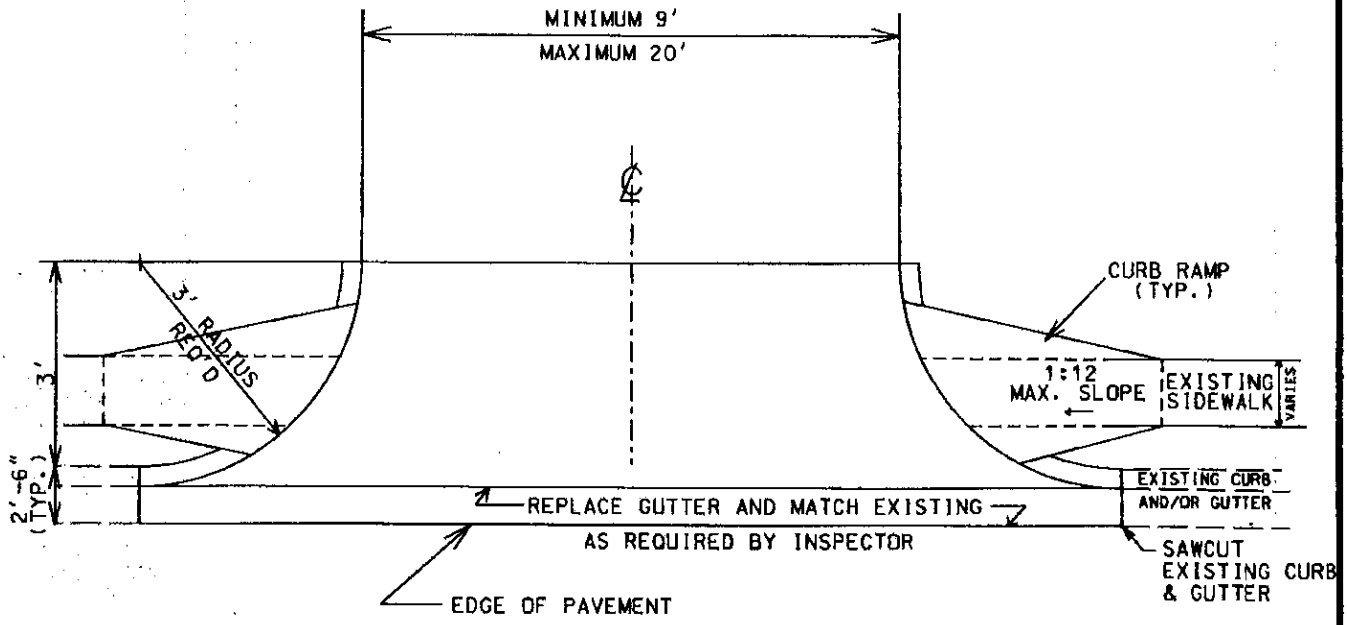
℄ PROFILE SECTION

(NOT TO SCALE)



PLAN VIEW

(NOT TO SCALE)



RESIDENTIAL DRIVEWAY WITH RADIUS CURB & GUTTER

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR RESIDENTIAL TURNOUT (URBAN SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TD-100 A	12-6-93	BO
SCALE: N.T.S.	REVISIONS: 10-04-06	ABT
	9-29-08	ABT

Rev. 11/15

City of Phenix City Engineering and Public Works Department

Permit to Construct a Turnout to Provide Access to a City Street (Commercial)

Remit to: P.O. Drawer 279, 1206 7th Avenue, Phenix City, AL 36867, (334) 448-2760

Name of Applicant _____

Mailing Address _____

City_____ State _____ Zip Code _____

Telephone Number _____

Office Use Only
Permit Number
Date Received
Date Approved

Address of Proposed Turnout _____

Description of Work Shown on the Attached Drawing (may require stamp by a licensed engineer if conditions warrant)

_____

The applicant hereby request permission from the City of Phenix City Engineering Department to construct a turnout to the above named City Street. The applicant agrees that approval of this request is subject to revocation by the Engineering Department and subject to the following terms and conditions:

1. The applicant agrees to comply with the current policy, specifications, and standard drawings as set forth by the Phenix City Engineering Department. Information is available at the above remittance address.
2. **The applicant agrees to contact the Phenix City Engineering Department for a site evaluation before work on said driveway begins and a pre-poured framing inspection.**
3. The applicant is not permitted to use any portion of the City right-of-way for any purpose other than construction and maintenance of the proposed turnout. Structures, signs, trees/shrubs, or any other right-of-way encroachment not described above and/or shown on an attached drawing and approved as a part of this permit are prohibited.
4. The applicant agrees to maintain any drainage structures installed or constructed as a part of this permit and keep the same cleaned out and functioning properly at all times. The City will only maintain that portion of the turnout that ties in with the street that may be necessary due to modifications to the roadway.
5. The applicant shall be responsible for locating any underground utilities that may be in conflict with the proposed work. Any damages that occur to existing utilities, existing drainage structures, or the existing street surface will be the sole responsibility of the applicant. In the case where City forces are installing a pipe and fill for the turnout, the applicant's responsibility is waived for that portion of the work completed by City forces.
6. The applicant agrees that the proposed driveway shall not be constructed above any existing water and/or sanitary sewer services and will provide a minimum horizontal clearance of 5 feet between driveway and said services. This requirement is only for water and sanitary sewer services on which the City of Phenix City would perform repairs such as water services from the main to the meter and sanitary services under street pavement.
7. The applicant is responsible for conforming to the regulations of the Environmental Protection Agency (EPA) and the Alabama Department of Environmental Management (ADEM) for the proposed work. This also applies to any hazardous materials encountered during the construction of the turnout.
8. The applicant shall not make any additions or modifications to the turnout or surrounding right-of-way without obtaining a new permit from the Phenix City Engineering Department. The applicant also agrees that the City of Phenix City or its contractors have the right to remove and/or reconstruct the turnout if it becomes necessary without any compensation to the applicant.
9. The turnout and related work covered by this permit shall be completed within one year from the date of application or the permit becomes null and void. Once work has begun it shall be pursued in a continuous and diligent manner until completion.

Signed _____ _____
Applicant Date

Recommended for Approval:

_____ _____ _____
Authorized Representative Title Date

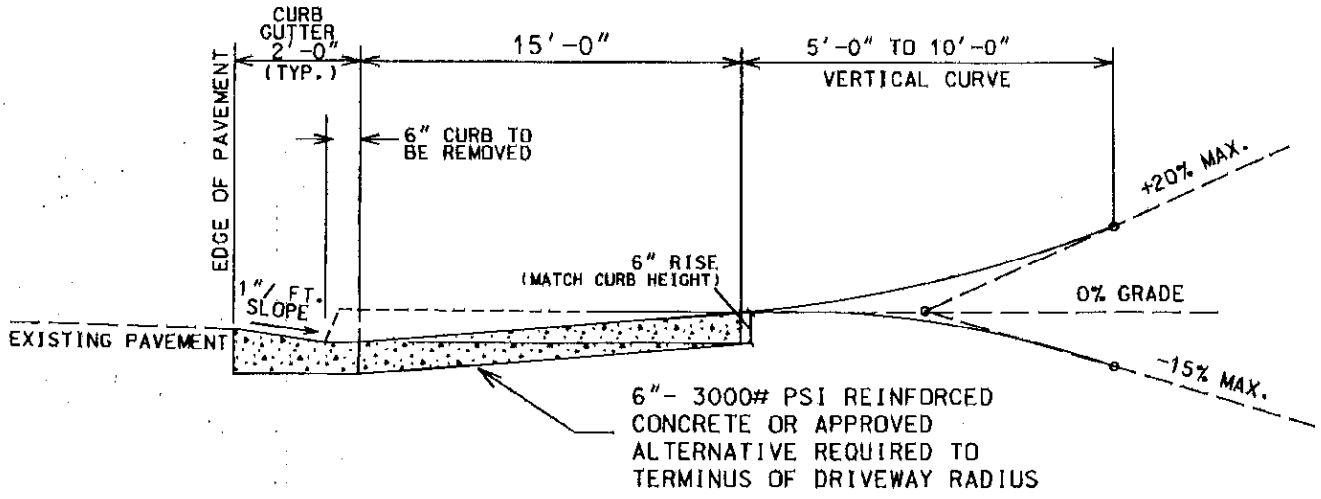
APPROVED:

_____
City Engineer

_____
Date

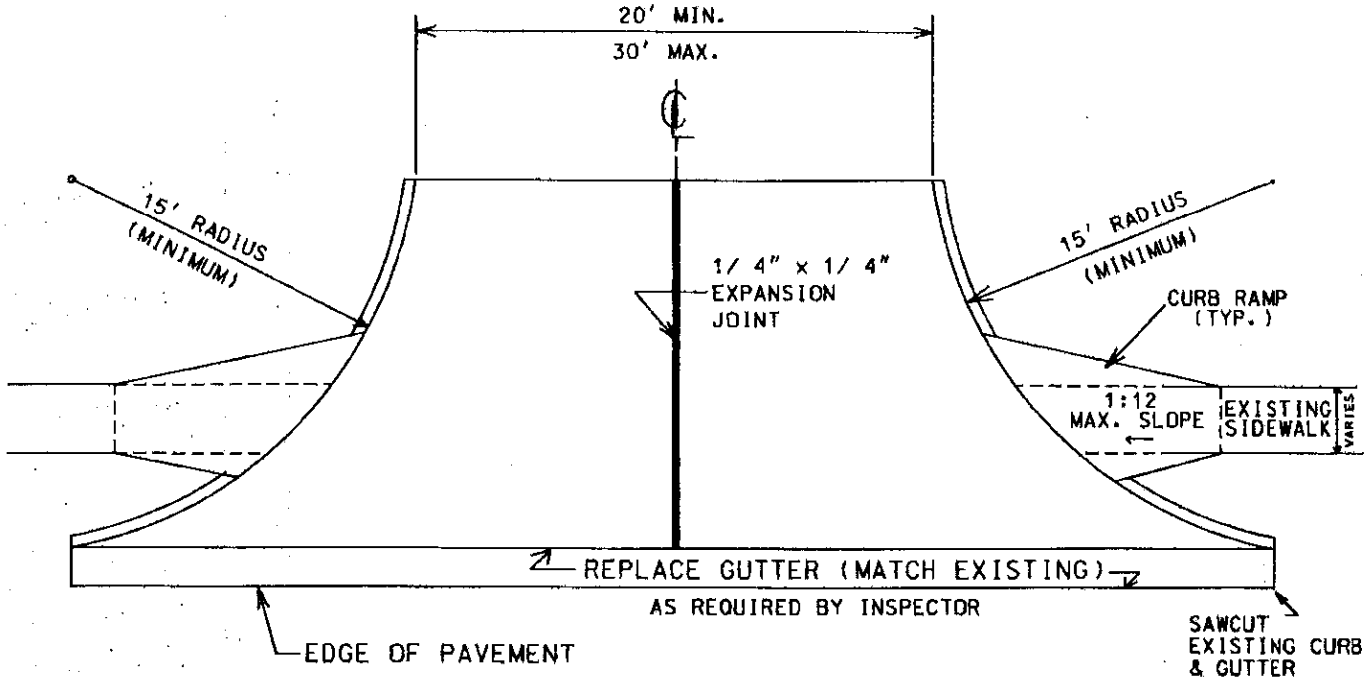
℄ PROFILE SECTION

(NOT TO SCALE)



PLAN VIEW

(NOT TO SCALE)



COMMERCIAL DRIVEWAY WITH CURB RADIUS CURB & GUTTER

PROFILE NOT TO SCALE

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

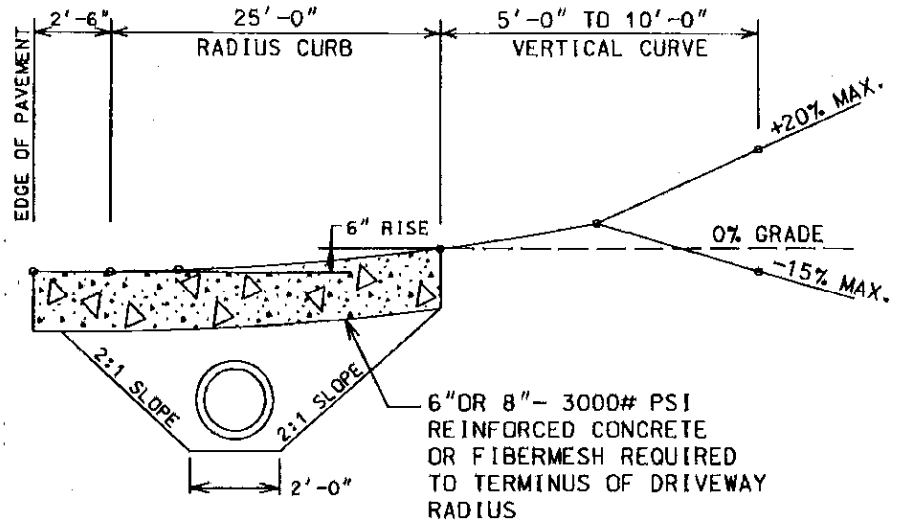
DETAILS FOR TURNOUT COMMERCIAL (URBAN SECTION) RADIUS

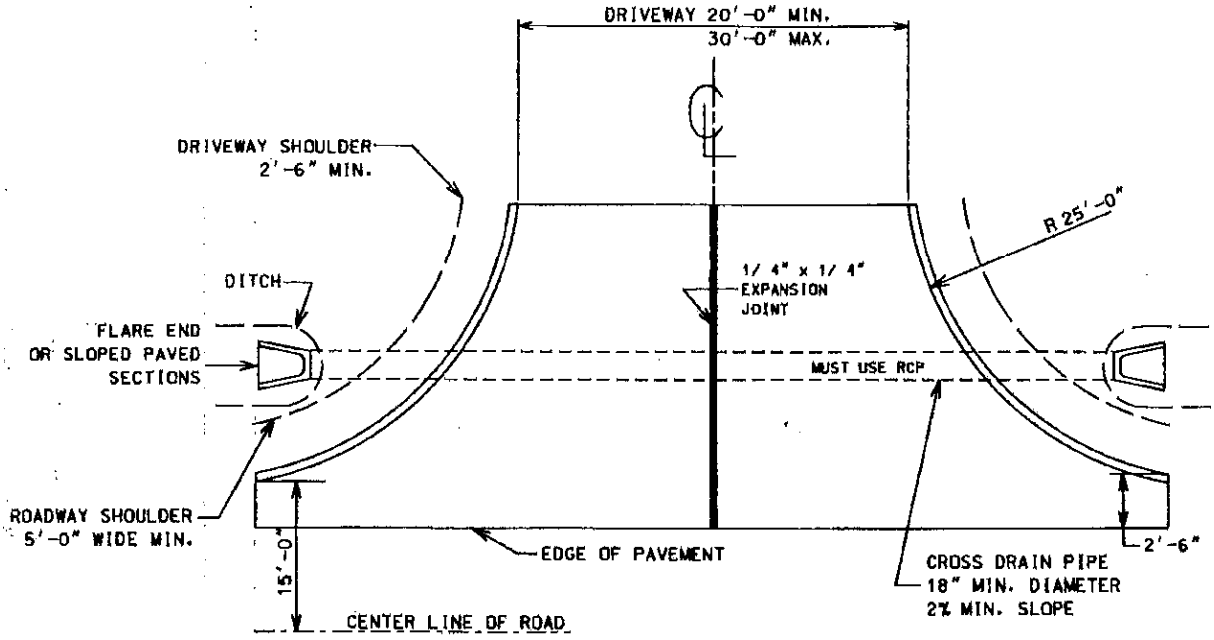
PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 C	12-6-93	BO
SCALE: N.T.S.	REVISIONS: 10-04-06	ABT
	9-29-08	ABT

℄ PROFILE SECTION

(NOT TO SCALE)





COMMERCIAL DRIVEWAY WITH CURB RADIUS
DITCH SECTION

PROFILE NOT TO SCALE

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR COMMERCIAL TURNOUT
(RURAL SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 D	12-6-93	BQ
SCALE: N.T.S.	REVISIONS: 10-04-06	ABT
	9-29-08	ABT

City of Phenix City
Engineering Department

Inspection Form

Date		**Time**	:	**Inspector**					
Rain Event		**Rainfall (in.)**		**Site Name/Type**					
ADEM Sign		**Rain Gauge Present**		**Site Location**					

Lot #/Location	OF	SF	IP	TD	SP	L	CEP	CW	ECB	Notes

OF - Outfall SF - Silt Fence IP - Inlet Protection TD - Trash and Debris SP - Soil Pile/Bare Soil L - Landscaping CEP - Construction Exit Pad
CW - Concrete Washout ECB - Erosion Control Blanket

General Comments	

City of Phenix City - Engineering 1206 7th Ave., Phenix City, AL 36867	**Inspector's Signature**	

DRAINAGE AND ESC INSPECTON REPORT

Engineering Department
1206 7th Avenue, Phenix City, AL 36867
Office: (334) 448-2760 - Fax: (334) 291-4848

Pre-construction: _____ Mid-construction: _____
Post-construction: _____ Inspection Date: _____

Name/Company		Project Name	
Mailing Address		Site Address	
		Phone Number	
Engineer/Surveyor Name & Email Address			

If "fail" column has been selected for any item below, the inspection fails. Complete all items.

INSPECTION QUESTIONS	PASS	FAIL	N/A
ESC plan in place for the lot/site that has been certified by a Professional Engineer/QCP			
If applicable, BMPs installed/maintained per ESC plan			
Lot/site drainage appears to match drainage proposed on approved construction plans certified by a Professional Engineer			
If lot/site is over 1 acre, ESC/Land Disturbing permit has been issued/applied for prior to disturbance			
If no City permit has been issued for land disturbances, lot/site is in compliance with Phenix City's Erosion Control Policy, Permit by Rule (Section IV.B)			
Site appears to be drain away from foundation(s)			
Drainage appears to drain away from neighboring lots/sites			
Lot/site maintains 25 ft. buffer from any surface waters			
→ If permittee has been approved for buffer variance, check N/A			
If inside buffer, permittee has been approved for variance			
Slopes appear to abide by slope limit in ESC Policy? (slope ≤ 3:1)			
→ If permittee has been approved for slope variance, check N/A			
If steeper slope, permittee has been approved for variance			

Pictures attached? _____

Inspector's signature _____ Date _____

Corrective actions/notes:

ADMINISTRATIVE USE ONLY

Submitted to Engineering Date _____ Approved by _____
Submitted to Building Date _____ Approved by _____