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

May 24, 2019

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

Re: 2018-2019 Annual Stormwater Report

Ms. Ashmore:

Please find attached the Stormwater 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, 2018 – March 31, 2019

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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 2017 ACS 5-Year Population Estimate for Phenix City, Alabama is 36,870 with a population density of 1,328.65 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

REGION	03	South Atlantic-Gulf
SUBREGION	03	South Atlantic-Gulf
BASIN	031300	Apalachicola: The coastal drainage and associated waters from the Ochlockonee River Basin boundary to and including the Apalachicola River Basin and the drainage into Apalachicola Bay
SUBBASIN	03130003	Middle Chattahoochee-Walter F. George

Table 1-2: Watersheds in the Phenix City MS4

Watershed	HUC	TOTAL AREA (Acres)
Mill - Holland Creek	03130003-0101	15,872

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: Waterbody Segments in the Urbanized Area Recently Removed from the Alabama 303(d) List

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 Mill Creek watershed is approximately 15,872 acres in size and is highly urbanized with many subdivisions and ongoing construction activities.

Sources of organic enrichment from potential sources within the Mill Creek watershed 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 2018 Alabama 303(d) 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, 2018 through March 31, 2019 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.
4. Proposed changes to the SWMPP, including changes to the BMPs or measurable goals.
5. An assessment of whether or not the existing BMPs are appropriate.
6. Summary of storm water activities planned for the upcoming year.
7. Progress toward reducing the discharge of pollutants to the maximum extent practicable.

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 2018-2019 Annual Report.

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	Paul Chastain, Storm Water and Erosion Control Coordinator	334-448-2760	bchastain@phenixcityal.us

Questions concerning the 2018-2019 Annual Report should be directed to the Engineering Department.

3.0 Program Evaluation

3.1 Major Accomplishments

3.1.1 Removal of Mill Creek from the Final 2018 Alabama 303(d) List

Mill Creek has been removed from the 2018 Alabama 303(d) list. This accomplishment represents the continued and collaborative efforts of the City and partnering agencies to address water quality issues and provide long term solutions toward the enhancement of Mill Creek.

3.1.2 Continued Implementation of the Illicit Discharge Detection and Elimination Program and Enforcement of the Illicit Discharge Ordinance

In 2017 the City adopted an ordinance amending the Code of Ordinances of the City of Phenix City, Alabama, adding Chapter 10 ½ Stormwater Management to regulate discharges and connections to the Storm Sewer System within the corporate limits. The City's objectives with this ordinance are to:

1. Regulate the contribution of pollutants to the MS4 by storm water discharges by any user.
2. Prohibit illicit connections and discharges to the MS4.
3. Establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance.

During the 2018-2019 reporting period, the City continued to address new businesses that qualified as producers of illicit discharges. Qualifying businesses are required to provide proof of compliance with the illicit discharge ordinance. The ability to purchase or renew a business license was held for each of the businesses until compliance was proven by inspection of existing separator system, installation of new oil and sediment interceptor, installation of a wash mat, receipt of letter, or other suitable method.

3.1.3 Progress in Identifying Priority Areas

During the 2018-2019 reporting period, the City increased efforts in identifying priority areas through the stream walking program and the continued development of Illicit Discharge Potential (IDP) scores and calculations for each drainage basin.

3.1.4 Annual Good Housekeeping and IDDE Training

Necessary field personnel from the following departments were trained for the 2018-2019 reporting period:

- Engineering / Public Works
- Cemetery
- Fire Department
- Lakewood Golf Course
- Parks and Recreation
- Public Safety

- Water Filtration
- Waste Water Treatment Plant

The City used training materials that meet the requirements of the Individual Phase II Permit. Applicable City employees will be trained annually as follows:

- Identification of illicit discharges, procedures for reporting suspect and detected illicit discharges.
- Background on the MS4 program.
- Municipal good housekeeping and prevention of storm water pollution within the facilities.
- Construction BMPs.

3.1.5 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 locate and identify outfalls and any illicit connections and discharges contributing pollutants into streams and/or the City's storm drainage system.

During the 2018-2019 reporting period, 87 outfalls were identified and a dry weather screening was conducted at each outfall. No illicit discharges or connections were observed and no samples were collected.

3.1.6 Maintaining the Storm Water Management Webpage

During the 2018-2019 reporting period, the City maintained the storm water webpage on the City's website. The webpage includes information such as:

- Storm Water Newsletters
- Links to the Individual Phase II NPDES Permit
- Current 2017 SWMPP
- Current copies of the City's Annual Report
- All storm water related ordinances and policies
- Links to the ADEM website and EPA website
- Link to the City's Action Center where citizens can report the following:
- Erosion control
- Illicit discharges
- Impaired waters
- Non-compliant construction sites
- Storm drains and flooding
- Storm water and illicit discharge ordinance violations

3.1.7 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 four (4) monitoring

locations along Mill Creek and Holland Creek.

During the 2018-2019 reporting period, the City maintained and recorded storm water rainfalls for 24 hour rain events. 57.2" of rain was recorded for the year.

3.2 Overall Program Strengths/Weaknesses

The City of Phenix City's Storm Water Management Program continues to grow and become more efficacious than in previous reporting periods.

The City's main strength of the Storm Water Management Program came with the 2017 SWMPP which better reflects the Individual Phase II Permit. The most recent SWMPP is better suited for the City's size and is now more goal oriented than the previous SWMPP.

A further strength of the program is the continued implementation of the IDDE and Illicit Discharge Ordinance. With a stronger direction, the City will be able to regulate the contribution of pollutants to the MS4 by storm water discharges, prohibit illicit connections and discharges to the MS4, and establish legal authority to carry out all inspections, surveillance, and monitoring procedures necessary to ensure compliance with this ordinance.

The final strength of the program is the increase in public education and public involvement. During the 2018-2019 reporting period, the City has increased public knowledge and education with the continued distribution of additional pamphlets and brochures about storm water pollution and prevention. Pamphlets and brochures were placed within the City departments and at local public offices. The City is maintaining a Storm Water Management Program Webpage with additional educational materials to help citizens become more aware of pollutants entering the storm drainage system.

The main weakness of the City's SWMPP remains the lack of staff dedicated to the implementation of the program. The Engineering Department currently manages the Storm Water Management Program responsibilities, including GIS location of outfalls, performing required inspections, and assisting with public education and participation efforts. The majority of the work is now handled by two people and vacancies in the Engineering Department have limited time due to additional duties. However, once these vacancies in personnel have been filled we remain confident that the growth of the program will advance.

A secondary weakness of the current program is that many of the procedures that are being established to meet the requirements of the Individual Phase II Permit are new. The addition of the IDDE Ordinance and the IDDE Program will make it possible to regulate discharges and connections to the Storm Sewer System within the corporate limits of the City of Phenix City. However, the City recognizes possible complications that inherently arise with the early stages of a relatively new IDDE Program and Ordinance and the revisions to the SWMPP, and is working to create a proactive approach to establish and fine-tune the strategies necessary to better our storm water 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 advancement of the Illicit Discharge Detection and Elimination Ordinance.
- The stream-walking program, locating outfalls and documenting at least 20% a year until complete.
- Ranking outfalls and identifying Priority Areas.
- Working towards the development of a Post-Construction Storm Water Management Ordinance.
- Assessing our current monitoring program and locations, with consideration for the delisting of Mill Creek as an impaired stream.

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.

CORPORATION OF THE CITY OF PHENIX CITY ALABAMA
SEAL
ATTEST:

Eddie N. Lowe 5/23/19
Eddie N. Lowe, Mayor Date
City of Phenix City, Alabama

Melony Lee 5/23/19
Melony Lee, City Clerk Date
City of Phenix City, Alabama

Wallace B. Hunter 5/23/19
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 2018-2019 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. 120 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 the City's marquise locations. 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 the City's marquise locations. 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. 88 tons of recyclables were reported for the 2018-2019 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 drainage basins 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.	Once the City determines the Priority areas, a score for each drainage basin and an updated map will be provided.	No proposed changes at this time.	In Progress
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. 87 outfalls for 2018-2019. 7 miles (cumulative) walked for 2018-2019. 247 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.	In Progress
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. There are 9 new developments currently under construction. The City has verified 1 new outfall.	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.	In Progress
4	**Outfall Reconnaissance Inventory:** Conduct dry weather monitoring of 15% of major outfalls in Priority Areas.	The City has located and inspected 87 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.	In Progress
5	**Suspect Discharge Sampling:** Field crews will collect samples of suspected illicit discharges for laboratory analysis.	0 suspect illicit discharges were investigated.	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.	In Progress
6	**Outfall Ranking:** Designate the inspected outfalls as having obvious, suspect, possible, or unlikely discharge potential based on data from each ORI Field Sheet.	87 outfalls were located and designated 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.	In Progress
7	**Discharge Investigation:** Illicit discharge investigations will be performed to determine the source of a discharge problem.	0 suspect discharges were identified and no investigations were performed.	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.	In Progress

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. 0 reported illicit discharges. 0 reported corrective actions.	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.	In Progress
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.	In Progress
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. 9 new construction plans were submitted to the City. 1 new features, conveyances or outfalls were verified at this time.	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.	In Progress
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: 4 potential qualifying new businesses. 1 complaint received. 0 illicit discharges identified. 5 resolved violations. 0 repeat offenders 0 enforcement actions.	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. 0 Illicit discharge complaints were 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 new training material for the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at the City's facilities. 29 City employees attended Municipal training sessions during The 2018-2019 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.	In Progress
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. 0 non-compliant construction sites identified by the City. 0 enforcement actions taken 0 sites reported to ADEM. 0 repeat offenders. All issues were resolved following verbal warnings and without the need for written correspondence.	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. 9 plans have been submitted. 9 plans have been reviewed. 9 plans have been approved. 0 plans have been denied. 9 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. 0 non-compliant construction sites identified by the City. 0 enforcement actions taken. 0 non-compliant construction sites are repeat offenders. All issues were resolved following verbal warnings and without the need for written correspondence.	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.	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) Richard Carlson (QCI#63899) QCI certifications were maintained through the approval annual refresher courses. Paul Chastain (CSI Certificate #8867) Has completed the requirements for Certified Stormwater Inspector	The City will continue an 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 or initial training certificates and/or records of awareness training received during the reporting period. Also included is a copy of CSI certificate.	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. 5 inquiries received. 5 complaints addressed. 5 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. 9 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 Sedimentation 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	Yes
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. 9 plans were submitted that include detailed maintenance procedures. 9 maintenance agreements reviewed. 9 plans with maintenance provisions approved. 0 plans with maintenance provisions denied. 0 enforcement actions taken.	The City will continue to implement The Erosion and Sediment Control Policy. However, the Policy will be evaluated each reporting period. If changes are warranted, a new or revised ordinance will be approved and implemented by the City Council.	Copies of plans and agreements are available upon request.	No proposed changes at this time.	Yes
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 and low-impact development techniques.	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. 9 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 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. 98 detention ponds were inspected. 1 new detention pond was 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 stormwater pollution prevention through a municipal quarterly BMP inspection checklist.	The City will provide a municipal quarterly BMP inspection checklist 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 new training material for pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality. 29 City employees attended municipal training sessions during the 2018-2019 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.	In progress
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. 13,940 tons of limbs and debris were reported for the 2018-2019 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 is provided on the website as well. 88 tons of recyclables were reported for the 2018-2019 reporting period. approximately 2,510 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 is 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

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 LOCATIO	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 LOCATIO	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 CREE	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 LOCATIOI	HOLLAND "MILL" CREEK
Outfall 111	32.488556	-85.030772	MONITORING LOCATIOI	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

Appendix I – Figures

N

1 inch = 2,000 feet

OUTFALL MAP

Legend

- 2016_2017 OUTFALLS
- 2017_2018 OUTFALLS
- 2018_2019 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

Phase II Storm Water Program

Fall 2018

Help the Hooch 2018

This year's Help the Hooch cleanup comprised of 10,102 volunteers and removed 78,180 pounds of trash and debris from the Middle Chattahoochee River Watershed. The event is organized by the Keep Columbus Beautiful Commission to improve aquatic habitat and the quality of our water resources. It also enhances the surrounding landscape by removing trash, car tires, and other debris. The two day tri-community event includes school campus cleanups and community cleanups held the following day. There is a Watershed Festival that follows and includes educational games and activities where children and other volunteers can learn more about the environment. Help the Hooch is the largest watershed cleanup in the area and has promoted environmental stewardship in our community for more than 24 years.

Volunteers separate trash and debris picked up during the cleanup.

Items were separated to determine the quantities for the different types of trash and debris.

Volunteers tally items collected along the Phenix City Riverwalk.

These tally sheets were turned in at the end of the cleanup.

Help the Hooch takes place each year on the second weekend of October. If you would like to be a part of this event next year information can be found online at:

www.columbusga.gov/KeepColsBeautiful

Fun Facts

- Help the Hooch was a local partner of the Mill Creek Watershed Project that resulted in Mill Creek being removed from ADEM's 303(d) list.
- 10,545 pounds of shredded paper were collected in 2018.
- 2,125 pounds of shoes were collected in 2018.
- Some unusual items found during the 2018 cleanup include: car parts, fishing poles, wool socks, car radio, toy soldier, tiki lamp, stroller, shiny blue gem, i phone, toilet seat, metal bed frame, road sign, crock pot, Panama City key chain, and a heated mat from Korea.

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.

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

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.

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?

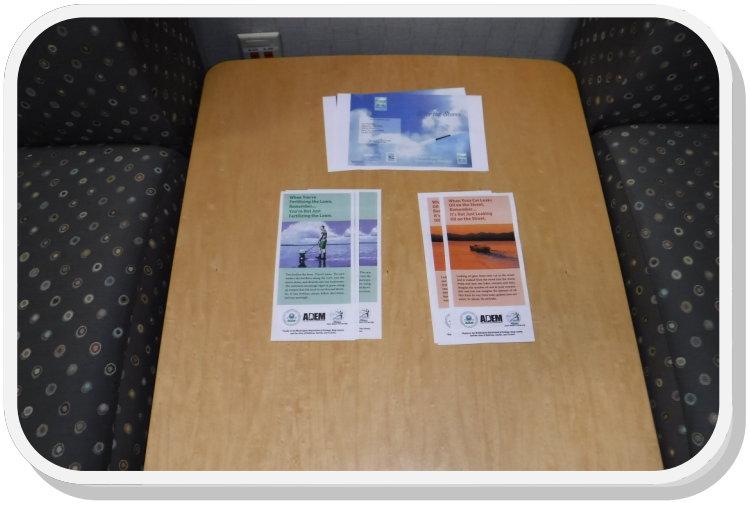
- Use fertilizers sparingly. Follow the manufacturers instructions.
- Have your soil tested for fertilizer needs.
- Don't apply fertilizers before a rainstorm.
- Consider using organic fertilizers, since they release nutrients slowly.
- Use commercially available compost or make your own using a garden 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

Storm Water Educational Materials



Employee Training at the Idle Hour Park Community Center

Qualified Credentialed Inspector (QCI) and Certified Stormwater Inspector (CSI) Certifications

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Paul Chastain

City of Phenix City

for satisfactory completion of

Online Refresher Training

QCI No. T0716
Expires 3/30/2020

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.

QCI Training Program

Certificate of Completion

is hereby granted to:

John Boren "Bo" Greene

City of Phenix City

for satisfactory completion of 8 instructional hours

ADEM
Alabama Department of Environmental Management

Initial Training Class

July 19, 2018

thompson
ENGINEERING

Instructor Names

John Carlton, Joel Seawell

QCI NO: T5719

EXPIRES: 07/19/2019

This certificate confers eight (8.0) 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.

This certifies that

Richard Carlson of the City of Phenix City

has successfully completed the

QUALIFIED CREDENTIALED INSPECTOR TRAINING FOR CONSTRUCTION SITE STORMWATER MANAGEMENT

offered by the

HOME BUILDERS ASSOCIATION OF ALABAMA

QUALIFIED CREDENTIALED INSPECTOR

Protecting our environment through stormwater management

HOME BUILDERS ASSOCIATION OF ALABAMA

Signature

01/28/2019

Date

QCI NUMBER 63899
VALID THROUGH FEBRUARY 27, 2020

Certified Stormwater Inspector

Paul Chastain

Has been awarded this certificate of achievement for having successfully completed all requirements of the National Stormwater Center training course

This certification is effective for a period of five years and includes 1.2 Continuing Education Units (CEUs)

Disciplines Developed:
Stormwater Permit Compliance and Inspections of Industrial Activities, Commercial Facilities, Construction Projects, and Municipal Operations

NPDES Certified Stormwater Inspector National Stormwater Center

Pollution Prevention
Illicit Discharge Detection and Elimination
Public Education and Involvement
Construction
Post Construction

Michele Lomax

Michele Lomax, Director of Operations	8867	March 8, 2018
	Certificate Number	Date

The National Stormwater Center
107-F East Broadway Street Bel Air, MD 21014
www.NPDES.com

Municipal Facility BMP Inspection Checklist

(Example)

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: City of Phenix City
Location: 1119 Broad Street
Department: Utilities
Facility Contact: Denorris Wiilliams
Inspection Date: 12-14-18
Time: 11:30 am
Inspector: Denorris Williams

	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				
	☐	☐	☐	
	☐	☐	☐	

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

Vehicle Maintenance and Inspection

(Example)

Phenix City Public Works

Fleet Maintenance Preliminary Worksheet

WO#	Date	Equipment Code	Equipment Name	Department	Odometer	Status
33469	02/15/19	ENG-25	2005 FORD EXPLORER	6 - Engineering	84,000 M	Completed

Service / Repair Notes

1 please check transmission and oil change per MIKE PATTILLO
2
3 WC-
4 CHECKED TRANSMISION
5 DUE SERVICE AGAIN AT 87482

Quantity	Part Number	Description	Unit Cost	Total Cost

Mechanic's Comments:

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

	PM Item Code / Name	Every	WO#	Serv Date	Odometer
☐					

Part Number	Description	Quantity
10W30 (QT)	10w30 Oil	6.00

VEHICLE MAINTENANCE INSPECTION & CHECKLIST

VEHICLE/EQUIPMENT #: 107 Employee J. Fairloth Supervisor

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
OPERATOR	✓	✓	✓	✓	✓
DATE/TIME 7-9-19	✓	✓	✓	✓	✓
HOURS/MILEAGE	✓ 198891	✓ 198995	✓ 199082	✓ 199186	✓ 199275
HORN/ALARM	✓	✓	✓	✓	✓
HOSES/BOLTS	✓	✓	✓	✓	✓
TRACK/TIRES	✓	✓	✓	✓	✓
ATTACHMENTS	✓	✓	✓	✓	✓
OIL/GREASE	✓	✓	✓	✓	✓
BRAKES/LIGHTS	✓	✓	✓	✓	✓
FUEL GAL./MILEAGE	✓	✓ 42.049	✓ 30.662	✓ 20.263	✓
SERVICE MILEAGE	✓	✓	✓	✓	✓

Land Disturbance Permits

(Example)

PHENIX CITY, ALABAMA

LAND DISTURBING PERMIT

ENGINEERING DEPARTMENT
PHONE 334-448-2760

PERMIT NO. **19-01**

Owner: **James R. Vance**

Contractor: **Paragon Construction and Development**

Address: **3899 US Highway 80**

PERMIT ISSUANCE FOR:

Jack's Family Restaurant

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

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

DATE: 11/24/18 TIME 2:40 PM PROJECT/SUBDIVISION: Willow Trace
WEATHER: overcast CITY PERSONNEL: Bo Greene
REGULAR_____ WEATHER EVENT X CITIZEN COMPLAINT_____ OTHER_____

DAILY REPORT OF ACTIVITIES

Lot 103 - Graded lot with no construction. No vegetation on lot. Silt fence is surrounding lot.
Lot 100 - Graded lot with no construction. No vegetation on lot. Silt fence is surrounding lot.
Lot 95 - House is built. No vegetation on lot. No driveway. Silt fence is surrounding entire jobsite.
Lot 96 - House is built. No vegetation on lot. Driveway is being paved right now. Silt fence is surrounding lot.
Lot 69 - House is built. Driveway is paved. Yard is sodded.
Lot 132 - Graded lot. No construction at this time. Silt fence is surrounding jobsite.
Lot 142 & 143 - House is being built. No vegetation on lot. Lot 143 is slab only. Both lots have silt fence in place.

Sitka Ct. - silt fence is in place on all lots. Straw has been spread over all disturbed ground. Hay bales are staked in places of erosion.

INSPECTION BY: Bo Greene

Illicit Discharge Detection and Elimination

(Example Measures)

Examples of Measures to Address the IDDE Ordinance

Interceptor

Water Containment Mat

Post Construction Inspection

(Examples)

Example of a Properly Maintained Detention Pond

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

June 11, 2018

Mr. Spud Warr
WVD LLC
17171 US Highway 280 East
Smiths Station, AL 36877

Re: Richards Place Detention Pond

Dear Mr. Warr:

On June 5, 2018, a representative of the City of Phenix City Engineering Department conducted a routine Detention Pond Inspection for the above referenced site. During the inspection, no deficiencies were noted and no maintenance is needed at this time.

Thank you for your upkeep of this pond. The next pond inspection will be performed in 12 months. If you have any questions, you may contact the Engineering Department at 334-448-2760.

Sincerely,

Angel Moore, P.E.
City Engineer

Cc: File

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: Richards Place DATE: 6-5-18 TIME 10:38 am
DATE OF LAST INSPECTION: 4-7-17 DESIGN DATA ON FILE: Y___ N___
MAINTAINED BY: WYD LLC
PHOTOGRAHS TAKEN: Y X N___ NUMBER OF PONDS ONSITE: 1

ITEMS INSPECTED

VEGETATIVE COVER: Detention Area is covered by grass. Basin was recently mowed.

SEDIMENT: No sediment in pond.

DEBRIS: No debris.

FENCING: 6' Wall surrounding detention area. The gate is locked.

INLETS: 2 HDP 15" inlets, 1 18" RCP inlet, All are free of obstructions

EMERGENCY SPILLWAY: In good condition.

COMMENTS/CORRECTIVE ACTION NEEDED: No deficiencies are noted and no maintenance is needed at this time.

INSPECTED BY: Bo Greene
TITLE: Engineering Technician II

Example of Pond Before and After Maintenance

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 30, 2018

Attn: Mr. Robert C. Riddle
Phenix Partners, LP
1100 Spring Street NW Suite 550
Atlanta, GA 30309

Re: The Detention Ponds at Phenix Corners Shopping Center

Dear Mr. Riddle:

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 at the East pond:

1) All trees, 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.

The following issues need to be addressed at the North West pond:

1) Remove any obstructions from around and inside the outlet control structure to ensure that the pond drains correctly.
2) All trees, brush, and debris must be removed from the basin.
3) 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

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: Phenix Corners DATE: 8-28-18 TIME 3:01
DATE OF LAST INSPECTION: 7-11-19 DESIGN DATA ON FILE: Y___ N___
MAINTAINED BY: Selig Enterprises
PHOTOGRAHS TAKEN: Y X N___ NUMBER OF PONDS ONSITE: 2

ITEMS INSPECTED

VEGETATIVE COVER: Both ponds have cattails, small trees, grass within sediment basin

SEDIMENT: No visible sediment

DEBRIS: No debris

FENCING: 6' Chainlink

INLETS: OCS has small trees growing around the inlets in both ponds.

EMERGENCY SPILLWAY: Not visible.

COMMENTS/CORRECTIVE ACTION NEEDED: Remove overgrowth from both detention basins. Remove any obstructions from the outlet control structures.

INSPECTED BY: Bo Greene
TITLE: Engineering Technician II

Example of Pond Under Construction

Action Center

(Example)

Benjamin Chastain

From: Do Not Reply
Sent: Thursday, January 17, 2019 5:55 PM
To: Angel Moore; Kathy Jo Davis; Benjamin Chastain
Subject: Action Center Request "Storm Drains & Flooding"

From: Jonathan Wiliams
Subject: Action Center Request

Message Body:

Nature of Problem: Storm Drains & Flooding

Description of Problem: Storm drain at 4903 ridgeway dr seems to be full of leaves from recent rain washing them into the drain itself. These need to be cleaned/sucked out at some point as it appears to be full. Thanks

Location: 4903 ridgeway drive, pc, al 36867 (TARA III)

Contact Information

Name: Jonathan Wiliams
Email: jonranwill@gmail.com
Phone Number: 706-587-1136

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

Water Monitoring

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Paul Chastain, Jimmy Cook, Bo Greene

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Holland Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

Downstream of bridge at Lakewood Drive

Latitude: 32.496992 **Longitude** -85.033989

**********Do not write below this line. AWW Office use only.**********

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.

Alabama Water Watch

Alabama Water Watch
559 Devall Drive
Auburn, 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): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 3/25/19 Sample Time: 8:46 AM AWW Site Code: 03015011

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

Sampling site location: Downstream of bridge at Lakewood Drive

(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	11.5 °C	Measure air temperature before water temperature.
Water Temperature	13.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.8 ppm Rep 2: 8.2 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	8 Avg DO 76.4 % 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	0 # 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

Test site established for ADEM Permit ALR040019

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.** _____

Monitor signature

Alabama Water Watch 2013

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 12/26/18 Sample Time: 3:16 PM AWW Site Code: 03015011

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

Sampling site location: Downstream of bridge at Lakewood Drive

(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	26.0 °C	Measure air temperature before water temperature.
Water Temperature	11.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 9.0 ppm Rep 2: 9.2 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	9.1 Avg DO 82.7 % 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	3 # drops x 10 = 30 mg/L	
Turbidity	4 # 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
Test site established for ADEM Permit ALR040019	

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.** _____

Monitor signature

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 9/24/18 Sample Time: 1:38 PM AWW Site Code: 03015011

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

Sampling site location: Downstream of bridge at Lakewood Drive

(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	31 °C	Measure air temperature before water temperature.
Water Temperature	26.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 6.6 ppm Rep 2: 6.4 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	6.5 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	3 # drops x 10 = 30 mg/L	
Turbidity	0 # 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
Test site established for ADEM Permit ALR040019	

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.

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Monitor signature

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 6/27/18 Sample Time: 3:05 PM AWW Site Code: 03015011

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

Sampling site location: Downstream of bridge at Lakewood Drive

(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	29.0 °C	Measure air temperature before water temperature.
Water Temperature	29.0 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 6.0 ppm Rep 2: 6.0 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	6 Avg DO 79.26 % 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	3 # drops x 10 = 30 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
Test site established for ADEM Permit ALR040019	

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

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ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Paul Chastain, Jimmy Cook, Bo Greene

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Holland "Mill" Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

Behind Public Works Shop off Broad Street

Latitude: 32.467588 **Longitude** -85.002205

**********Do not write below this line. AWW Office use only.**********

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.

Alabama Water Watch

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 3/25/19 Sample Time: 11:12 AM AWW Site Code: 03020004

Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell

Sampling site location: Behind Public Works Shop off Broad Street

(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	16.5 °C	Measure air temperature before water temperature.
Water Temperature	14.5 °C	Avoid touching thermometer bulb.
pH	6.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 9.2 ppm Rep 2: 8.8 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	9.1 Avg DO 89.8 % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	6 # drops x 5 = 40 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	0 # 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

Test site established for ADEM Permit ALR040019

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.

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Monitor signature

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 12/26/18 Sample Time: 4:07 PM AWW Site Code: 03020004

Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell

Sampling site location: Behind Public Works Shop off Broad Street

(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	15 °C	Measure air temperature before water temperature.
Water Temperature	11.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 9.6 ppm Rep 2: 9.6 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	9.6 Avg DO 86.3 % 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	3 # 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
Test site established for ADEM Permit ALR040019	

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

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Monitor signature

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 9/25/18 Sample Time: 11:37 AM AWW Site Code: 03020004

Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell

Sampling site location: Behind Public Works Shop off Broad Street

(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	24.5 °C	Measure air temperature before water temperature.
Water Temperature	25.0 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.4 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	7.5 Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	8 # drops x 5 = 40 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	0 # 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

Test site established for ADEM Permit ALR040019

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.

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 6/27/18 Sample Time: 9:45 AM AWW Site Code: 03020004

Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell

Sampling site location: Behind Public Works Shop off Broad Street

(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	27.0 °C	Measure air temperature before water temperature.
Water Temperature	25.0 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 6.6 ppm Rep 2: 7.0 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	6.8 Avg DO 86.51 % 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	3 # drops x 10 = 30 mg/L	
Turbidity	0 # 0.5 mL x 5 (50mL) = 2 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
Test site established for ADEM Permit ALR040019	

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.** _____

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ALABAMA WATER WATCH

SAMPLING SITE DATA

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Monitor(s): Paul Chastain, Jimmy Cook, Bo Greene

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Mill Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

In close proximity to where Mill Creek enters the Phenix City MS4

Latitude: 32.488050 **Longitude** -85.060822

**********Do not write below this line. AWW Office use only.**********

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.

Alabama Water Watch

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 3/25/19 Sample Time: 19:14 AM AWW Site Code: 03020001

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

Sampling site location: In close proximity to where Mill Creek enters the Phenix City 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	14.5 °C	Measure air temperature before water temperature.
Water Temperature	13.0 °C	Avoid touching thermometer bulb.
pH	6.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.8 ppm Rep 2: 7.8 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	7.8 Avg DO 74.49 % 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	4 # drops x 10 = 40 mg/L	
Turbidity	0 # 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
Test site established for ADEM Permit ALR040019	

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

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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 12/26/18 Sample Time: 2:33 PM AWW Site Code: 03020001

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

Sampling site location: In close proximity to where Mill Creek enters the Phenix City 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	17 °C	Measure air temperature before water temperature.
Water Temperature	10.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 9.6 ppm Rep 2: 9.4 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	9.5 Avg DO 84.4 % 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	3 # 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
Test site established for ADEM Permit ALR040019	

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.** _____

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): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 9/25/18 Sample Time: 10:30 AM AWW Site Code: 03020001

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

Sampling site location: In close proximity to where Mill Creek enters the Phenix City 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	24 °C	Measure air temperature before water temperature.
Water Temperature	24.0 °C	Avoid touching thermometer bulb.
pH	6.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 4.8 ppm Rep 2: 4.8 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	4.8 Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	8 # drops x 5 = 40 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

Test site established for ADEM Permit ALR040019

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.** _____

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

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 6/28/18 Sample Time: 8:38 AM AWW Site Code: 03020001

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

Sampling site location: In close proximity to where Mill Creek enters the Phenix City 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	24.0 °C	Measure air temperature before water temperature.
Water Temperature	24.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 5.6 ppm Rep 2: 5.4 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	5.5 Avg DO 66.02 % 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	3 # drops x 10 = 30 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
Test site established for ADEM Permit ALR040019	

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.** _____

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

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Paul Chastain, Jimmy Cook, Bo Greene

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Mill Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

In close proximity to the point that Mill Creek discharges to Holland Creek

Latitude: 32.488556 **Longitude** -85.030772

**********Do not write below this line. AWW Office use only.**********

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.

Alabama Water Watch

Alabama Water Watch
559 Devall Drive
Auburn, 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): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 3/25/19 Sample Time: 9:26 AM AWW Site Code: 03020005

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

Sampling site location: In close proximity to the point that Mill Creek discharges to 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	11.5 °C	Measure air temperature before water temperature.
Water Temperature	13.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 8.4 ppm Rep 2: 9.0 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	8.4 Avg DO 84.01 % 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	0 # 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
Test site established for ADEM Permit ALR040019	

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.** _____

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

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 12/26/18 Sample Time: 1:48 PM AWW Site Code: 03020005

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

Sampling site location: In close proximity to the point that Mill Creek discharges to 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	23 °C	Measure air temperature before water temperature.
Water Temperature	11.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 9.6 ppm Rep 2: 9.0 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	9.3 Avg DO 84.5 % 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	3 # drops x 10 = 30 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

Test site established for ADEM Permit ALR040019

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.** _____

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

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Bo Greene Address: 1206 7th Avenue

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

Sample Date: 9/24/18 Sample Time: 2:37 PM AWW Site Code: 03020005

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

Sampling site location: In close proximity to the point that Mill Creek discharges to 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	28 °C	Measure air temperature before water temperature.
Water Temperature	25.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 6.4 ppm Rep 2: 6.4 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	6.4 Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	8 # drops x 5 = 40 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	3 # drops x 10 = 30 mg/L	
Turbidity	0 # 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
Test site established for ADEM Permit ALR040019	

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.** _____

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

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department ☐ online

Collector(s): Paul Chastain, Jimmy Cook Address: 1206 7th Avenue

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

Sample Date: 6/27/18 Sample Time: 3:46 PM AWW Site Code: 03020005

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

Sampling site location: In close proximity to the point that Mill Creek discharges to 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	30.0 °C	Measure air temperature before water temperature.
Water Temperature	27.0 °C	Avoid touching thermometer bulb.
pH	7.5 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 6.2 ppm Rep 2: 6.4 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	6.3 Avg DO 84.67 % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	7 # drops x 5 = 35 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	3 # drops x 10 = 30 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
Test site established for ADEM Permit ALR040019	

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.** _____

Monitor signature

Alabama Water Watch 2013

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Auburn University, AL 36849-5124

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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.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 26 MAR 19/0912 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 139070/139071/139072/139073 — LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.3 mg/l	SM5210B	AB	03-27-19	1810
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	03-28-19	0900
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-05-19	1724
NITRATE+NITRITE	0.565 mg/l	300.0	JDG	04-01-19	2333
TOTAL PHOSPHORUS	0.0459 mg/l	SM4500-P-E	MS	04-03-19	1454

SAMPLE DATE/TIME: 26 MAR 19/1011 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 139074/139075/139076/139077 — LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.6 mg/l	SM5210B	AB	03-27-19	1810
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	03-28-19	1009
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-05-19	1730
NITRATE+NITRITE	0.535 mg/l	300.0	JDG	04-01-19	2356
TOTAL PHOSPHORUS	0.0792 mg/l	SM4500-P-E	MS	04-03-19	1454

SAMPLE DATE/TIME: 26 MAR 19/0945 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 139078/139079/139080/139081 — LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.8 mg/l	SM5210B	AB	03-27-19	1810
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	03-28-19	0946
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-05-19	1732
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	04-02-19	1513
TOTAL PHOSPHORUS	0.0607 mg/l	SM4500-P-E	MS	04-03-19	1454

SAMPLE DATE/TIME: 26 MAR 19/0924 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 139082/139083/139084/139085 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.9 mg/l	SM5210B	AB	03-27-19	1810
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	03-28-19	0923
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	04-05-19	1734
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	04-02-19	1559
TOTAL PHOSPHORUS	0.0459 mg/l	SM4500-P-E	MS	04-03-19	1454

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
139070	CBOD: PRESERVED 4^0C	3/26/19	9:14	BO G.
139071	ORTHOPHOSPHATE: PRESERVED 4^0C	3/26/19	9:13	BO G.
139072	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	3/26/19	9:14	BO G.
139073	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/26/19	9:12	BO G.

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME: 3/26/19		
RECEIVED BY: X Chris Reber	DATE/TIME: 26 Mar 19 1:50 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chris Reber (LABORATORY)	DATE/TIME: 26 Mar 19 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#: 267 THERMOMETER ID#: 451

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
139074	CBOD: PRESERVED 4°C	3/26/19	10:12	BO G.
139075	ORTHOPHOSPHATE: PRESERVED 4°C	3/26/19	10:11	BO G.
139076	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3/26/19	10:12	BO G.
139077	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/26/19	10:13	BO G.

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X R. Chastain	DATE/TIME: 3/26/19			
RECEIVED BY: X Chi Reda	DATE/TIME: 26 Mar 19 1:50 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reda (LABORATORY)	DATE/TIME: 26 Mar 19 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#: 267 THERMOMETER ID#: 451

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
139078	CBOD: PRESERVED 4^0C	3/26/19	9:45	BO G.
139079	ORTHOPHOSPHATE: PRESERVED 4^0C	3/26/19	9:45	BO G.
139080	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	3/26/19	9:43	BO G.
139081	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/26/19	9:44	BO G.

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME: 3/26/19			
RECEIVED BY: X Chi Reeder	DATE/TIME: 26 Mar 19 1:50 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reeder (LABORATORY)	DATE/TIME: 26 Mar 19 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#: 267 THERMOMETER ID#: 451

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
139082	CBOD: PRESERVED 4^0C	3/26/19	9:26	BO G.
139083	ORTHOPHOSPHATE: PRESERVED 4^0C	3/26/19	9:24	BO G.
139084	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	3/26/19	9:25	BO G.
139085	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/26/19	9:25	BO G.

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME: 3/26/19		
RECEIVED BY: X Chi Roden	DATE/TIME: 26 Mar 19 1:50 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Roden (LABORATORY)	DATE/TIME: 26 Mar 19 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#: 267 THERMOMETER ID#: 451

SHIPPED BY: AECT 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.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 20 DEC 18/1045 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 138491/138492/138493/138494 — LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.8 mg/l	SM5210B	AB	12-21-18	1705
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	12-21-18	1911
TKN	<1.00 mg/l	A4500-NH3-D	CXS	01-03-18	1606
NITRATE+NITRITE	0.675 mg/l	300.0	JDG	01-02-18	1531
TOTAL PHOSPHORUS	0.114 mg/l	SM4500-P-E	MS	01-08-18	1128

SAMPLE DATE/TIME: 20 DEC 18/1140 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 138495/138496/138497/138498 — LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	4.1 mg/l	SM5210B	AB	12-21-18	1705
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	12-21-18	1911
TKN	<1.00 mg/l	A4500-NH3-D	CXS	01-03-18	1610
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	01-03-18	1828
TOTAL PHOSPHORUS	0.188 mg/l	SM4500-P-E	MS	01-08-18	1128

SAMPLE DATE/TIME: 20 DEC 18/1111 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 138499/138500/138501/138502 — LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.3 mg/l	SM5210B	AB	12-21-18	1705
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	12-21-18	1955
TKN	<1.00 mg/l	A4500-NH3-D	CXS	01-03-18	1612
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	01-03-18	1850
TOTAL PHOSPHORUS	0.130 mg/l	SM4500-P-E	MS	01-08-18	1128

SAMPLE DATE/TIME: 20 DEC 18/1054 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 138503/138504/138505/138506 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.0 mg/l	SM5210B	AB	12-21-18	1705
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	12-21-18	2017
TKN	<1.00 mg/l	A4500-NH3-D	CXS	01-03-18	1614
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	01-03-18	1712
TOTAL PHOSPHORUS	0.165 mg/l	SM4500-P-E	MS	01-08-18	1128

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: 13

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
138491	CBOD: PRESERVED 4^0C	12/20/18	10:45	Bo Greene
138492	ORTHOPHOSPHATE: PRESERVED 4^0C	12/20/18	10:44	Bo Greene
138493	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	12/20/18	10:44	Bo Greene
138494	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/18	10:45	Bo Greene

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Hunt	DATE/TIME: 12/20/18		
RECEIVED BY: X Chi Reden	DATE/TIME: 20Dec18 2:30 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Reden (LABORATORY)	DATE/TIME: 26 Dec18 3:35PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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
138495	CBOD: PRESERVED 4^0C	12/20/18	11:40	BO Greene
138496	ORTHOPHOSPHATE: PRESERVED 4^0C	12/20/18	11:39	Bo Greene
138497	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	12/20/18	11:41	Bo Greene
138498	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/18	11:40	Bo Greene

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chatt	DATE/TIME: 12/20/18		
RECEIVED BY: X Chi Rea	DATE/TIME: 20 Dec 18 2:30PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Reed (LABORATORY)	DATE/TIME: 20Dec18 3:45PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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
138499	CBOD: PRESERVED 4^0C	12/20/18	11:11	Bo Greene
138500	ORTHOPHOSPHATE: PRESERVED 4^0C	12/20/18	11:12	Bo Greene
138501	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	12/20/18	11:13	Bo Greene
138502	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/18	11:12	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME:	12/20/18		
RECEIVED BY: X Chi Beck	DATE/TIME:	20Dec18 2:30PM		X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Beck (LABORATORY)	DATE/TIME:	20Dec18 3:50PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

SHIPPED BY: ACCT 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
138503	CBOD: PRESERVED 4^0C	12/20/18	10:54	Bo Greene
138504	ORTHOPHOSPHATE: PRESERVED 4^0C	12/20/18	10:55	Bo Greene
138505	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	12/20/18	10:55	Bo Greene
138506	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/18	10:54	Bo Greene

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X P Chart	DATE/TIME: 12/20/18			
RECEIVED BY: X Chi Rea	DATE/TIME: 20Dec18 2:35PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Rea (LABORATORY)	DATE/TIME: 20Dec18 3:50PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

Alabama Office
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Fax: 334/745-3095
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Colorado Office
1-800-408-0083
MWallace@AuburnEnvironmental.com
PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 25 SEP 18/0948 SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137729/137730/137731/137732 LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	4.8 mg/l	SM5210B	AB	09-26-18	1815
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	09-27-18	1334
TKN	<1.00 mg/l	A4500-NH3-D	JEB	10-03-18	1511
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	10-03-18	1235
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	10-04-18	1152

SAMPLE DATE/TIME: 25 SEP 18/1205 SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137733/137734/137735/137736 LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.2 mg/l	SM5210B	AB	09-26-18	1815
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	09-27-18	1356
TKN	<1.00 mg/l	A4500-NH3-D	JEB	10-03-18	1511
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	10-03-18	1257
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	10-04-18	1152

SAMPLE DATE/TIME: 25 SEP 18/1105 SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137737/137738/137739/137740 LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	5.0 mg/l	SM5210B	AB	09-26-18	1815
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	09-27-18	1418
TKN	<1.00 mg/l	A4500-NH3-D	JEB	10-05-18	1047
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	10-03-18	1319
TOTAL PHOSPHORUS	0.0311 mg/l	SM4500-P-E	MS	10-04-18	1152

SAMPLE DATE/TIME: 25 SEP 18/1005 SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137741/137742/137743/137744 LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	5.0 mg/l	SM5210B	AB	09-26-18	1815
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	09-27-18	1440
TKN	<1.00 mg/l	A4500-NH3-D	JEB	10-05-18	1047
NITRATE+NITRITE	<0.500 mg/l	300.0	JDG	10-03-18	1341
TOTAL PHOSPHORUS	0.0275 mg/l	SM4500-P-E	MS	10-04-18	1152

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
137729	CBOD: PRESERVED 4^0C	9/25/18	9:48 EST	PC
137730	ORTHOPHOSPHATE: PRESERVED 4^0C	9/25/18	9:46 EST	PC
137731	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	9/25/18	9:47 EST	PC
137732	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/25/18	9:47 EST	PC

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME: 9/25/18		
RECEIVED BY: X Chris Reed	DATE/TIME: 25Sept18 12:30PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chris Reed (LABORATORY)	DATE/TIME: 25Sept18 1:30PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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
137733	CBOD: PRESERVED 4^0C	9/25/18	12:05 EST	PC
137734	ORTHOPHOSPHATE: PRESERVED 4^0C	9/25/18	12:05 EST	PC
137735	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	9/25/18	12:04 EST	PC
137736	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/25/18	12:04 EST	PC

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME: 9/25/18			
RECEIVED BY: X Chi Reid	DATE/TIME: 25 Sept 18 12:30 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reid (LABORATORY)	DATE/TIME: 25 Sept 18 1:40 PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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
137737	CBOD: PRESERVED 4^0C	9/25/18	11:05 EST	PC
137738	ORTHOPHOSPHATE: PRESERVED 4^0C	9/25/18	11:04 EST	PC
137739	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	9/25/18	11:04 EST	PC
137740	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/25/18	11:03 EST	PC

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME: 9/25/18			
RECEIVED BY: X Chi Reder	DATE/TIME: 25Sept18 12:30PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reder (LABORATORY)	DATE/TIME: 25Sept18 1:50PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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
137741	CBOD: PRESERVED 4^0C	9/25/18	10:05 EST	PC
137742	ORTHOPHOSPHATE: PRESERVED 4^0C	9/25/18	10:06 EST	PC
137743	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	9/25/18	10:07 EST	PC
137744	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/25/18	10:06 EST	PC

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME: 9/25/18			
RECEIVED BY: X Chi Reh	DATE/TIME: 25SEP18 12:30PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reh (LABORATORY)	DATE/TIME: 25Sep18 2:00PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

SHIPPED BY: AECT 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.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 27 JUN 18/0900 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137122/137123/137124/137125 — LOCATION: 1 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.6 mg/l	SM5210B	AB	06-28-18	1646
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	06-28-18	1326
TKN	<1.00 mg/l	A4500-NH3-D	JEB	07-09-18	1045
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	07-02-18	1356
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	07-03-18	0953

SAMPLE DATE/TIME: 27 JUN 18/1040 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137126/137127/137128/137129 — LOCATION: 2 - HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.5 mg/l	SM5210B	AB	06-28-18	1646
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	06-28-18	1352
TKN	<1.00 mg/l	A4500-NH3-D	JEB	07-09-18	1045
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	07-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	07-03-18	0953

SAMPLE DATE/TIME: 27 JUN 18/1000 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137130/137131/137132/137133 — LOCATION: 3 – HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	4.0 mg/l	SM5210B	AB	06-28-18	1646
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	06-28-18	1418
TKN	<1.00 mg/l	A4500-NH3-D	JEB	07-09-18	1045
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	07-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	07-03-18	0953

SAMPLE DATE/TIME: 27 JUN 18/0930 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 137134/137135/137136/137137 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.4 mg/l	SM5210B	AB	06-28-18	1646
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	06-28-18	1444
TKN	<1.00 mg/l	A4500-NH3-D	JEB	07-09-18	1045
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	07-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	07-03-18	0953

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: JB

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 – MILL CREEK (MC1)

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
139 122	CBOD: PRESERVED 4^0C	6/27/18	11:30 EST	PC
139 123	ORTHOPHOSPHATE: PRESERVED 4^0C	6/27/18	11:30	PC
139 124	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	6/27/18	11:30	PC
139 125	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/27/18	11:30	PC

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X [signature]	DATE/TIME: 6/27/18		
RECEIVED BY: X	DATE/TIME:		
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 27Jun18 2:25PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

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 CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
137126	CBOD: PRESERVED 4^0C	6/27/18	10:30 EST	PC
137127	ORTHOPHOSPHATE: PRESERVED 4^0C	6/27/18	10:30	PC
137128	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	6/27/18	10:30	PC
137129	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/27/18	10:30	PC

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME: 6/27/18		
RECEIVED BY: X	DATE/TIME:		
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chris Redden (LABORATORY)	DATE/TIME: 27 Jun 18 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#: 267 THERMOMETER ID#: 451

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 – **HOLLAND "MILL" CREEK** (HMC 3)

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
137130	CBOD: PRESERVED 4^0C	6/27/18	11:00 EST	PC
137131	ORTHOPHOSPHATE: PRESERVED 4^0C	6/27/18	11:00	PC
137132	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	6/27/18	11:00	PC
137133	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/27/18	11:00	PC

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X P. Chastain	DATE/TIME: 6/27/18		
RECEIVED BY: X	DATE/TIME:		
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chj Reber (LABORATORY)	DATE/TIME: 27Jun18 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#: 267 THERMOMETER ID#: 451

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
137134	CBOD: PRESERVED 4^0C	6/27/18	12:00 EST	PC
137135	ORTHOPHOSPHATE: PRESERVED 4^0C	6/27/18	12:00	PC
137136	NITRATE+NITRITE, TKN: PRESERVED 4^0C, H_2SO_4	6/27/18	12:00	PC
137137	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/27/18	12:00	PC

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X P. Clinton	DATE/TIME: 6/27/18			
RECEIVED BY: X	DATE/TIME:			
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi Reeh (LABORATORY)	DATE/TIME: 27 Jun 18 3:05PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

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

SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 451

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Alabama Water Watch

A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Benjamin Chastain, Friday, September 28, 2018

Congratulations, you have officially completed AWW's Bacteriological Monitoring and Water Chemistry Monitoring workshops.

We want to welcome you into our statewide network of water testers and mention some of the benefits. As a certified Alabama Water Watch monitor you to have access to:

- Online data entry with real-time graphs for water data
- Technical support and Quality Assurance for water monitoring
- Educational Resources and publications
- Web-based tools for data analysis and maps with location of groups and sites
- Data Interpretation Sessions

On selecting a monitoring site, please be sure it is safe, legal and convenient to sample on a regular basis. It's better to have lots of data from one site than little data from lots of sites. If you are part of a group, it's easier to strategize and make your plan for monitoring. Please keep in mind that if you are under 16 years old, you must monitor with a certified adult monitor.

If you provided us with an email address, your name has been added to our AWW listserv. AWW will keep you updated with periodic messages of statewide importance. You may easily unsubscribe or resubscribe as you wish.

You may contact Sergio S. RuizCórdova at 334-844-9228 (ruizcor@auburn.edu) or Mona S. Dominguez at 334-844-9323 (srs0013@auburn.edu) for further assistance. You are also welcome to contact AWW personnel at our Auburn office using information provided at the bottom of this letter.

Thank you if you joined the AWW Association at the workshop, and if you didn't, please consider joining and supporting the grassroot water monitors of Alabama.

You are always welcome to call our office, send an email or visit us in person. We want to help you reach your monitoring goals. Thank you for attending the workshop and we look forward to receiving your data as well as getting to know you.

Sincerely,

Mona S. Dominguez
Program Director

Sergio S. Ruiz Córdova
Data Coordinator

Extension ALABAMA A&M & AUBURN UNIVERSITIES

AWW Program Office
559 DeVall • Dr. Auburn University, AL 36849

Alabama Water Watch Association
PO Box 3294 • Auburn, AL 36831
Phone: (888) 844-4785 • Email: info@alabamawaterwatch.org

AUBURN UNIVERSITY
ALABAMA AGRICULTURAL EXPERIMENT STATION
Water Resources Center

Alabama Water Watch

A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Bo Greene, Friday, September 28, 2018

Congratulations, you have officially completed AWW's Bacteriological Monitoring and Water Chemistry Monitoring workshops.

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Sincerely,

Mona S. Dominguez
Program Director

Sergio S. Ruiz Córdova
Data Coordinator

Extension
ALABAMA A&M & AUBURN UNIVERSITIES

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559 DeVall • Dr. Auburn University, AL 36849

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AUBURN UNIVERSITY
ALABAMA AGRICULTURAL EXPERIMENT STATION
Water Resources Center

Alabama Water Watch

A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Jimmy Cook, Friday, September 28, 2018

Congratulations, you have officially completed AWW's Water Chemistry Monitoring workshop.

We want to welcome you into our statewide network of water testers and mention some of the benefits. As a certified Alabama Water Watch monitor you to have access to:

- Online data entry with real-time graphs for water data
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Sincerely,

Mona S. Dominguez
Program Director

Sergio S. Ruiz Córdova
Data Coordinator

eXtension ALABAMA A&M & AUBURN UNIVERSITIES

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Water Resources Center

Rainfall Data

Rainfall Totals for Phenix City 2019		
January	6.1	in.
February	1.1	in.
March	2.7	in.
April		in.
May		in.
June		in.
July		in.
August		in.
September		in.
October		in.
November		in.
December		in.
Yearly Total	**9.9**	**in.**

Rainfall Totals for Phenix City 2018		
January	1.5	in.
February	2.8	in.
March	3.5	in.
April	4.9	in.
May	6.5	in.
June	4.3	in.
July	2.9	in.
August	6.1	in.
September	2.9	in.
October	5.2	in.
November	6.2	in.
December	8.3	in.
Yearly Total	**55.1**	**in.**