

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ANNUAL REPORT REPORTING PERIOD APRIL 1, 2017 – MARCH 31, 2018

Prepared by

AUBURN UNIVERSITY

STORM WATER MANAGEMENT COMMITTEE

Submitted May 2018

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Introduction

This Annual Report was developed in accordance with the guidelines provided in Title 40 Code of Federal Regulations (CFR), Part 122.26(d) incorporated by reference in the Alabama Administrative Code 335-6 as administered by the Alabama Department of Environmental Management (ADEM) and NPDES ALR040030 Phase II General Permit effective October 1, 2016.

The purpose of this Annual Report is to describe the compliance efforts reflected in the University's Storm Water Management Program Plan (SWMPP). The Annual Report will identify the control measure specific efforts undertaken by Auburn University from April 1, 2017 through March 31, 2018 to reduce the discharge of pollutants from Auburn University's main campus to the maximum extent practicable (MEP) to protect water quality and to satisfy the appropriate water quality requirements of the Clean Water Act (CWA).

This Annual Report is a result of a collaborative approach from individuals that represent both academic and operational areas of campus. The multi-disciplinary effort continues to be strengthened by its diversity and includes the following individuals and their areas of responsibility or interest:

- Dr. Chris Anderson, Forestry & Wildlife Sciences
- Mr. Daniel Ballard City of Auburn Watershed Division
- Mr Nicholas Blair, Facilities Management Design Services
- Dr. David Blersch, Biosystems Engineering
- Dr. Eve Brantley, Crop, Soil & Environmental Sciences, AL Cooperative Extension Services
- Mr. Ben Burmester, Facilities Management Office of University Architect
- Mr. Ben Chapman, Facilities Management Construction Management
- Ms. Mona Dominguez, Alabama Water Watch
- Mr. Malcolm Dailey, Facilities Management Utilities & Energy
- Ms. Valerie Friedmann, Architecture Planning & Landscape Architecture
- Dr. Thorsten Knappenberger, Crop, Soil & Environmental Sciences
- Mr. Mike Kensler, Office of Sustainability
- Mr. Dan King, Facilities Management
- Mr. Eric Klypas, Athletics Department Field Management
- Mr. Judd Langham, Facilities Management Office of University Architect
- Ms. Charlene LeBleu, Architecture Planning & Landscape Architecture
- Mr. Glenn Loughridge, Campus Dining
- Mr. Tom McCauley, Risk Management & Safety
- Dr. Chandana Mitra, Department of Geosciences

- Mr. Buster Reese, Facilities Management, Construction Management
- Mr. Eric Reutebuch, Alabama Water Watch
- Dr. Puneet Srivastava, Water Resource Center
- Ms. Amy Strickland, Office of Sustainability
- Mr. Justin Sutton, Facilities Management Landscape Services
- Mr. Vic Walker, Facilities Management Waste Reduction & Recycling
- Dr. Amy Wright, Department of Horticulture
- Dr. Wesley Zech, Construction Engineering & Management

MS4 Description

Auburn University is a large teaching and research institution located in Auburn, Lee County, Alabama comprised of approximately 1800 acres of contiguous property. Auburn University is one of the major land grant/ liberal arts and science universities in the southeast. The area surrounding Auburn University consists of residential property to the east and southeast, agricultural property to the southwest and west and urban city property to the north and east.

Control Measures

Storm water management controls or Best Management Practices (BMPs) will be implemented to the MEP pollution in storm water discharges from Auburn University's main campus. AU has previously passed the Policy on Storm Water Management Compliance (Appendix B) which serves as the regulatory mechanism as required by the Permit. The Permit requires BMPs to be implemented to address five minimum control measures to be part of the SWMPP. As required by Part III.B. of the Permit, the Annual Report will describe the University's efforts performed during this reporting period to implement the established BMPs (Public Education & Public Involvement on Storm Water Impacts, Illicit Discharge Detection & Elimination, Construction Site Storm Water Runoff Control, Post Construction Storm Water Management in New and Redevelopments and Pollution Prevention / Good Housekeeping for Municipal Operations) and will include:

- The status of AU's compliance with Permit conditions, an assessment of the appropriateness of the identified BMPs, and progress towards achieving the statutory goal for each of the minimum control measures.
- 2. Results of information collected and analyzed during this reporting period, including any monitoring data used to assess the success of the SWMPP at reducing discharge of pollutants to the MEP.
- 3. A summary of storm water activities the University plans to undertake during the next reporting cycle.

- 4. Proposed changes to the University's SWMPP.
- 5. All monitoring results collected during the reporting period in accordance with Part V. of the Permit.

BMP: Public Education & Public Involvement on Storm Water Impacts

Storm water pollution prevention education leads to an informed and knowledgeable campus community that is more likely to support and comply with the BMP provisions. The targeted "Public" audiences of the University's SWMPP are Auburn University faculty, staff, students and visitors, which populate the campus on any given day. Within these populations, only students in residence housing live on campus. All other students, employees and visitors reside in the surrounding communities.

Throughout this reporting period, Auburn University initiated activities consistent with the SWMPP as follows:

Presentations and Events

Multiple presentations were offered by Auburn University throughout the course of this reporting period to promote water quality and storm water management principles. Presentations were offered by a variety of different AU entities and for diverse AU and non-AU audiences.

Lee County Water Festival (May 3, 2017)

Almost 100 volunteers and 700 fifth graders from Lee County elementary schools participated in the fourteenth annual Lee County Water Festival. Representatives from Auburn, Lee County, Opelika, Auburn University and Smith Station along with the Alabama Agricultural Extension System, the Department of Agriculture's Natural Resources Conservation Service and Clean Water Partnership partnered together to educate children on the importance of water, conservation of natural resources and becoming better stewards of the environment.

Camp War Eagle (Summer 2017)

Camp War Eagle is a summer orientation experience for incoming freshman and their guest intended to familiarize incoming students with Auburn's campus, traditions and numerous student services and programs. The Office of Sustainability provides information on sustainability at Auburn, and hand out a Sustainable Student Action Guide, which includes a section on "Saving Water" listing water conservation and water quality management practices.



Storm Water Symposium (May 11, 2017)



Auburn University and Alabama
Cooperative Extension System again
hosted the annual Storm Water Forum
highlighting emerging storm water
management research, MS4 initiatives
and regulatory assistance. This annual
event was attended by nearly 100
participants including Phase I & II MS4
communities, researchers, professionals
and students.

GI/LID Tour of Campus and City for EPA & ADEM (June 29, 2017)

Representatives from EPA and ADEM were hosted on campus for a discussion of opportunities and challenges facing regulated MS4s to implementing Green Infrastructure/Low Impact Development as control measures. The one day event provided an opportunity for AU and the City of Auburn MS4 representatives to exchange ideas with the regulators and to tour successfully implemented GI/LID measures on campus and in the City's downtown area.

Young Water Ambassadors (July 13, 2017)

AU Water Resources Center Staff coordinated the annual Young Water Ambassadors (YWA) visit to Auburn University. YWA is a six-week long program run by the Birmingham Water Works that provides high school students with an in-depth and hands-on learning experience related to various aspects of water resources. Students must apply to participate in



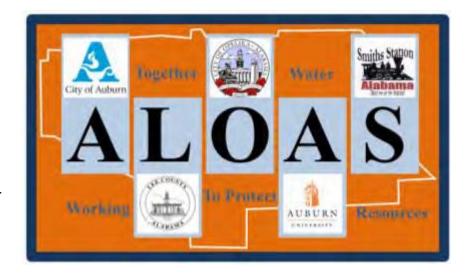
the competitive program. During their visit to AU, staff from AWW, the Arboretum, and AL Cooperative Extension System Water Resources provided 83 students with educational sessions related to pollution, storm water, low impact development, and watershed management.

Alabama Storm Water "Association" (July 25, 2017)

Following the Alabama Storm Water Forum held in May, interest was expressed by the audience for the possibility of forming a storm water association. The July meeting served as a kickoff for this purpose and was attended by nearly 85 individuals representing Phase I & II MS4s, state regulators and Alabama professionals. Although the decision to formalize an association was not decided upon, subsequent meetings and training opportunities were planned to help the regulated community learn from one another.

City of Auburn, Lee County, City of Opelika, Auburn University, City of Smith Station (ALOAS)

Auburn University is an active member of **ALOAS**, a citizen's advisory committee. The committee allows individuals from the community to interact with the ALOAS MS4 entities and provide and receive feedback related to storm water activities planned. This also promotes a positive forum for the community to participate.



The committee has authority and direct input into regional storm water management efforts.

Throughout this reporting period, ALOAS committee sought to continue meeting on a quarterly basis to discuss issues and coordinate community activities related to storm water management.

Sustainability Picnic (August 23, 2017)

Coordinated by AU's Office of Sustainability, a zero-waste picnic attended by nearly 350 individuals was held. The annual picnic is designed to provide incoming Auburn University undergraduate students an opportunity to connect with sustainability activities, information, organizations, and suppliers for campus. This year over 35



organizations had a presence, representing a range of sustainability-related topics including pollution prevention, water conservation and protection.

Sustainability Digest (Oct 2017)

Led by the Office of Sustainability, the Sustainability
Digest is a monthly newsletter that provides information
on sustainability news, topics, and events at and around
Auburn. Water served as the October 2017 theme for
various blog posts included in the digest and was the
featured content for the Office of Sustainability's monthly
poster.



AU Green Game (Nov 18, 2017)

The annual Green Game at Auburn University was held as the Auburn Tigers faced off against the Louisiana-Monroe Warhawks. The Green Game is an opportunity to celebrate the sustainability-related initiatives of the Athletics department, while encouraging fans to also participate in helping make Game days greener. Fans can eliminate waste and support Auburn Athletics, the Waste Reduction and Recycling Department, and the Office of Sustainability's effort to make Game days more sustainable through a few simple actions:



- Swap disposable tailgate supplies for items that can be reused, such as tableware, cloth napkins and tablecloths.
- Choose plastic and aluminum over glass and Styrofoam.
- Recycle all aluminum and plastic.
- Bring a clear, reusable water bottle to the game and use the water refill stations to fill it up.
- Clean up tailgate areas after the game.

EPA RainWorks Challenge (Dec 15, 2017)

A team of engineering and architecture students from Auburn University prepared a project in conjunction with the Environmental Protection Agencies 2017 RainWorks Challenge. Plans are being developed to replace two aging buildings at Auburn University near the heart of campus that house both the physics and math department. In order to ensure that new buildings fit into the university's Climate Action Plan, the project details Best Management Practices (BMPs) to address storm water management around these



proposed buildings. Furthermore, the project incorporated a native habitat and stream restoration component of this redevelopment to revitalize Parkerson Mill Creek, a currently impaired water body. In order to encompass all aspects of sustainability beyond just the environment, the project integrated urban gardening and recreational elements into these plans. The project detail the engagement potential with current student organizations to promote responsible stewardship and management of local resources.



Spotlight on Agriculture (Feb 5, 2018)

The Auburn University College of Agriculture was asked to partner with Alabama Public Television (APT) to develop a series of four one-hour-long episodes that highlight various projects and research related to natural resources and agriculture in Alabama. Alabama Water Watch was featured during a 15-minute segment in the first episode of the series, which was focused on environmental stewardship and water.

AWW Program Staff and Volunteer Monitors (including Lake Jordan's Judy May and Christine Kowalksi, and Lake Martin's Janne Debes) were be featured alongside other faculty and staff with the College of Agriculture, including Dr. Puneet Srivastava, Director of the Auburn University Water Resources Center; Dr. Eve Brantley, Alabama Cooperative Extension's Water Resources Specialist; Dr. Matt Waters, a professor with the Department of Crop, Soil, and Environmental Sciences, and several others. The episode aired on APT Monday, February 5, at 9 p.m. CST.

The Water Resource Center

Auburn University Water Resources Center mission is to facilitate successful collaboration among Auburn University faculty and staff on multi-disciplinary, water-related research, outreach, and teaching; and to facilitate the active involvement of private citizens in the stewardship of water resources.

To achieve its mission, vision, and objectives, the Auburn University Water Resources Center consists of interdisciplinary teams of research, teaching, and Extension outreach faculty and staff who address all types of water-related issues in Alabama, the Southeast, and around the globe. The outreach activities are done through the Alabama Cooperative Extension System and programs such as Alabama Water Watch and Global Water Watch.







The research activities are funded through the Alabama Water Resources Institute, the Alabama Agricultural Experiment Station and a wide variety of extramural sources. During this reporting period, the following research partnerships were formed:

Auburn University is joining three other Southeastern universities in a \$5 million research effort to help ensure water for agricultural production while maintaining healthy rivers and springs.



United States Department of Agriculture National Institute of Food and Agriculture

The project, funded by a five-year grant from the United States Department of Agriculture's

National Institute of Food and Agriculture, seeks to safeguard the sustainability of agriculture and forestry while protecting water quantity, quality and habitat in the underground Floridian Aquifer and the springs and rivers it feeds.

The Floridian Aquifer is among the largest and most productive aquifers in the world and is a vital regional resource shared by Alabama, Georgia and Florida. It provides irrigation for farms that contribute billions of dollars annually to the economy and supplies drinking water to 10 million people.

The University of Florida Water Institute is leading the project, joined by the Auburn University Water Resources Center, the University of Georgia and Albany State University.

http://ocm.auburn.edu/newsroom/news_articles/2017/06/auburn-among-four-universities-receiving-5-million-grant-to-address-southeastern-water-issues.htm

Auburn University to receive funding from the National Resource Conservation Services (NRCS) to support a project that focuses on



increasing the adoption of climate-and-water-smart irrigation practices among Tennessee Valley farmers in Alabama and Tennessee.

http://aaes.auburn.edu/news/nrcs-funds-to-demonstrate-and-promote-best-irrigation-practices-in-alabama/

Watershed Clean-Up Efforts

Auburn University performed a variety of community events including stream clean-ups, invasive floral species removal projects and live-staking within the watershed to further promote awareness and measures that can be taken to better protect our watershed. The following table provides a summary of the events that took place during this reporting period.



Campus Location	Date	Participation	Participants
PMC @ Biggio to	11-17-17	6	AU Staff & Students
Lem Morrison			
PMC @ Donahue to	2-25-18	10	AU Staff &
Samford			Alternative Student
			Breaks
Campus Wide	Continual	23 Groups/Individuals	AU Students, Staff &
		Adopt-A-Spot	Faculty

No Impact Week (March 25-April 1, 2018)

Each year, Auburn University students, faculty, and staff are invited to conserve and reduce their impact on the environment as they participate in



No Impact Week. No Impact Week is an international initiative designed to promote sustainability by challenging people to live lifestyles that are better for them and for the environment. This week-long challenge is hosted by the College of Liberal Arts' Community and Civic Engagement Initiative, co-sponsored by International Paper, and in collaboration with the AU Academic Sustainability Programs. The themes for each day were Trash, Transportation, Consumption, Food, Water, Energy, Giving Back and Eco Sabbath.



<u>Auburn Student Government Association's Big</u> Event (March 3, 2018)

The BIG Event gives thousands of Auburn students the opportunity to give back to the Auburn & Opelika community. As students go into the community to serve its homeowners through yard work or housework, the student body was able to make a positive impact.

Measure Specific Evaluation

Auburn University continued to be successful in providing a variety of information related to storm water management, water quality and water conservation to AU and non-AU entities. AU strives to engage all faculty, staff and students through education to serve the community and to become more involved in making a positive impact. During this reporting period, AU continued to foster an open and collaborative relationship with the many different groups on and off campus, through the continued pursuit of research initiatives and funding to improve and protect water resources as witnessed by the Auburn Water Resource Center, the continued and exhaustive efforts of the Alabama Water Watch to engage and to train a local and global volunteer water monitoring network spanning all generations and for the continued efforts by the Office of Sustainability and the SGA to engage the campus community.

Measure specific activities planned for the next reporting period

During this next reporting period, Auburn University plans to continue to promote the goals of the storm water program to include at a minimum:

- Participate with ALOAS and others entities to offer the annual Lee County Water Festival (May 2017).
- 2. Host Alabama Storm Water Forum (May 2018)
- 3. Sponsor the Alabama Water Resource Conference set for September 2018.
- Continued promotion of Parkerson Mill Creek (PMC) and the PMC Watershed Management Plan.
- 5. Continue partnership with ALOAS to address local storm water challenges and community concerns.

6. Continue to promote sustainability initiatives to include storm water management best management practices.

BMP: Illicit Discharge Detection & Elimination

During this reporting period, Auburn
University continued to utilize the storm water
infrastructure engineering assessment to
prioritize areas on campus requiring further
assessment and/or repair along with field
observations by AU Facilities Management —
Utilities and Energy, Mechanical Shops,
Water Resources and Risk Management &
Safety to investigate sources of potential illicit
discharges. An updated map is attached to
this report and identifies the storm water
conveyance system maintained by the
University.



Through continued educative efforts, an informed campus community is relied upon to relay observations of potential illicit discharges. These observations are communicated to AU Administration through multiple methods to include Facility Management's 24 hour Work Management System (844-HELP), the AU "Ask Facilities" web tool or communicating directly to Risk Management & Safety. Dry weather screening is performed on an annual basis on the outfalls identified on campus. Screening includes visual observations of flow, and infrastructure condition. Upon discovery or suspicion of a potential illicit discharge, further investigation is initiated. A variety of measures can be deployed to track the source of the illicit discharge and

may involve multiple AU groups as well as the City of Auburn as necessary. The listing of outfalls evaluated this reporting period is included as an Appendix E to this report.



Measure Specific Evaluation

Throughout this reporting period, Auburn University was successful in meeting the objectives of the Illicit Discharge Detection Elimination measure as defined in the University's SWMP. Accomplishments and ongoing actions supporting this BMP included:

- Maintenance of the University's Policy on Storm Water Compliance (Appendix B) continues to serve as the regulatory mechanism for this measure.
- Community involvement and dry weather screening were successful in identifying
 multiple illicit discharges that were investigated and ceased as possible as quickly as
 possible. These efforts compliment the goals of the Program and addressed activities
 that were introducing pollutants from entering the MS4.
- The continued evaluation of the infrastructure engineering assessment has given direction to Facilities Management to enable a prioritized approach to infrastructure management

Measure specific activities planned for the next reporting period

Auburn University will continue the Illicit Discharge Detection and Elimination measures as defined in the University's SWMPP. During the next reporting period, the following activities are planned:

- 1. Provide annual IDDE training to University employee, students and visitors to increase community's level of awareness to pollution prevention.
- 2. Improve upon the dry weather screening efforts by utilizing the engineering assessment and inspection software utilized by AU Facilities Management for the management of University assets.

BMP: Construction Site Storm Water Runoff Control

In accordance with Part III (B) (4) of NPDES Permit No ALR040030, Auburn University developed the Construction Site Storm Water Runoff Control Best Management Practice. Auburn University's Facilities Management is responsible for all construction projects on campus and implementation of this measure.

Facilities Management implement Design and Construction Standards meant to strengthen the storm water management efforts on all University construction sites.

During this reporting period, a total of fifteen (15) projects were initiated that required storm water protection measures to be implemented and maintained. Details specific to these 15 sites to include the number of inspections, number of complaint notices and number of run off complaints can be viewed in Appendix A of this report.

Measure Specific Evaluation

Based on the requirements identified in Part III (B) (4) of NPDES Permit No ALR040030, Auburn University implemented Design Standards assist in meeting these requirements. The Design Standards establish a measurable performance standard to qualify the effectiveness of on-site controls. The utilization of Rain Wave a precipitation monitoring service continues to enable the AU Project Manager, AU Engineer of Record to have real-time precipitation data. The inclusion of turbidity monitoring into specified projects has been an excellent measure to evaluate the implementation of the site specific ESC Plan. The training events both internally as well as the externally, allowed for a collaborative exchange of information.

Measure specific activities planned for the next reporting period

Auburn University will continue implementing Construction Site Storm Water Runoff Control as defined in the University's SWMPP. During the next reporting period, the following activities are planned:

- 1. Provide annual training event to AU Project Managers and Design Engineers.
- 2. Evaluate BMP following established AU environmental audit initiative.
- 3. Investigate opportunities to collaborate with local governments to offer training event to the public.

BMP: Post Construction Storm Water Runoff Control

The Auburn University Board of Trustees approved the University's first Landscape Master Plan February 5, 2016 as an update to the Comprehensive Campus Master Plan. The Landscape Master Plan contains the Post-Construction Storm Water Manual, completed in 2013, that establishes principles, guidelines and standards for storm water management planning, design and operation. Incorporated into the Design and Construction Standards, the Landscape Master Plan puts in place a set of comprehensive best management practices for storm water management so future campus construction projects protect and improve water quality, provide campus flood protection, and reduce storm water flow rates to downstream waters. Additionally, projects are reviewed using the storm water management project review checklist in the Post-Construction storm water manual to document compliance with the University's storm water project requirements.

As a component of the Auburn University Design and Construction Standards, the Post Construction Storm Water Manual provides the principles, guidelines and standards for storm water management design for new campus projects. By providing a set of comprehensive best management practices for storm water management, future campus construction projects will protect and improve water quality, provide campus flood protection, and reduce storm water flow rates to downstream waters. The Post Construction Storm Water Manual includes a storm water management review checklist to review compliance with the University's design standards. Multiple projects were completed, are in construction, or are currently being designed during this reporting period. These include:

Risk Management and Safety Building (15-150) to be completed in May 2017 is a 10,000 square foot new facility located at the Facilities Management Complex. The storm water quality and rate requirements were met for this project with a new wet detention pond adjacent to the new building and parking.

The School of Nursing (AU Project 15-035) and Pharmacy Research Buildings (14-193) are being constructed at the same time on the site prepared by the Health Sciences Sector Infrastructure project. Completed in June 2017, the project includes ten different bio-retention areas across the site along with retrofitting the sediment pond to a detention facility with underdrains and a fore bay for water quality.



Health Sciences Sector site under construction utilizing sediment pond

Band Practice Field – New Storage and Dressing Facility (AU Project 15-256) was completed in June 2017, this project utilizes an existing regional detention pond sized and designed previously to support this facility. A new storm water analysis and report were created to document the project would not impact the downstream properties by using the planned for facility.

Mell Classroom Building (AU Project 11-209) completed July 2017 as an addition to the Draughon Library on campus. With no existing storm water infrastructure near the site, the

original design proposed a large underground detention basin to capture storm water and slowly release it to another drainage basin. During the plan review and storm water review process outlined in the Post Construction Storm Water Manual, a design change was recommended and made to eliminate the large underground detention basin and replace it with storm water infrastructure offsite that would allow the large underground detention basin be removed and have the site to maintain its current drainage basin.

President's Home Renovation and Addition (AU Project 14-296) completed in December 2017 includes a bottomless underground chamber system provide reduction in storm water rate and volume along with water quality treatment.



Underground detention at the President's Home

Additional projects are under various stages of design and construction during this reporting period to include:

Leach Hall Expansion (AU Project 15-208) provides underground detention.



Mell Corridor Improvements (AU Project 15-311) includes a bio-retention median and pervious pavers.



Brown-Kopel
Engineering Student
Achievement Center
(AU Project 15-157)
will contain a vegetated
roof, enhanced grass
swales, and bottomless
underground detention.



Campus Safety Building Expansion (AU Project 16-119) provides bio-retention adjacent to the parking lot



Jordan-Hare Stadium Game Day Support Building (AU Project 16-324) will include pervious pavers.



Graduate
Business
Building (AU
Project 14-044)
will include
pavers and bioretention

Horticulture Teaching & Demonstration Gardens (AU Project 16-475)

Beard Handball Courts Demolition & Storm Drain Repairs (15-079)



Gogue Performing Arts Center (15-158) will include pavers and bioretention

Measure Specific Evaluation

During this reporting period, Auburn University continued efforts to strengthen this measure through education and increasing expectations. Utilizing an extensive plan review process, AU staff have been successful in promoting many storm water best management practices during this reporting period.

Measure specific activities planned for the next reporting period

Auburn University will continue implementation of Post Construction Storm Water Management in new development and redevelopment as defined in the University's SWMP. During the next reporting period, the following activities are planned:

- Continue to provide training to University Design Leads on the Design Standards required for future University projects.
- Further develop and document post construction BMP inspections to ensure they are being maintained and functioning as designed.

BMP: Pollution Prevention / Good Housekeeping

Parking Lot, Parking Deck Cleaning Program

Facility Management's Landscape Services utilizes street sweepers on a daily basis to address the removal of accumulated debris (750 yd ³) from parking lots, parking decks, streets, pedestrian walkways and sidewalks. Landscape Services provides daily inspections of streets, street drains and curbs. During fall and winter months, Landscape Services removes leaves and other debris on a daily basis throughout campus. Landscape Services also incorporates the use of a large vacuum that allows the landscape debris, which is harvested on campus grounds, to be removed before it is introduced into a storm drain system. Mowers with mulching equipment pulverize leaves, limbs and debris on site which reduces possible storm drain blockage. This process is reduced during the spring and summer months unless storms or high winds cause leaves, limbs and debris to cover our campus grounds and streets; at that point we use the same procedures as the fall and winter removal. This system not only reduces the problem of storm drain blockage, but allows AU to compost the harvested material and eventually incorporate it back into campus landscape.

Storm Water Conveyance System Cleaning Program

Auburn University Landscape Services inspects all storm water conveyance outfalls routinely throughout the year. This is done after each heavy rain or storm activity. If any large limbs, trees, or debris are blocking the area, the blockage is removed as quickly as possible. Streamside maintenance to include invasive plant removal continues and allows better accessibility to Parkerson Mill Creek. On-going efforts to remove invasive vegetative species and replace with native species have further enhanced Parkerson Mill Creek. Throughout this reporting period, Landscape Services calculated the removal of approximately 374 yd ³ of landscape debris.

Integrated Pest Management

All areas maintained on campus have a four-tiered management system, however all areas are not equal in tolerance and /or action thresholds. These thresholds are based on pedestrian traffic, tolerance thresholds set down by building occupants and historic importance of an area.

Understanding that over application of chemicals to control pests on campus landscapes can have a detrimental effect to the environment, Facility Management's Landscape Services objective is to survey/monitor selected areas on campus and determine if the thresholds of a pest warrants chemical applications. Incorporation of best management practices such as aeration, fertilization and proper irrigation promote healthy trees, shrubs and turf while reducing the unnecessary level of chemicals applied to the environment.

An estimated 235 acres of AU main campus's premium areas (turf, trees, shrubs and hardscapes) receives targeted IPM application. Leaves on turf and turf clippings are mulched and/or recycled to reuse on campus. It is estimated that 7000 cubic yards of grass clippings are beneficially reused on campus each year.

Waste Management Reduction & Recycling

The Waste Reduction and Recycling Department (WRRD) manages all waste contracts on campus and works with faculty, staff, and students on a daily basis to provide easy and convenient recycling to Auburn University.

WRRD manages the Campus Building Recycling program, Game Day Recycling, office cleanouts, toner and ink cartridge recycling, indoor/outdoor event trash and recycling bins, secure

document shredding services, and electronics recycling. During this reporting period, AU diverted 30% of waste collected from disposal at a landfill. Waste diverted included C/D waste, paper, cardboard, aluminum cans, plastics, steel cans, metals and toner/ink cartridges.

Waste reduction and recycling initiatives are also promoted through education and outreach on campus and in the surrounding community. Outreach initiatives encompass events, including America Recycles Day, and community partnerships, such as the East Alabama Recycling Partnership.

WRRD maintained a contract with Waste Management (WM). WRRD and WM operational staffs attended an annual training on litter prevention, spill clean-up and storm water management. WRRD will continue to conduct this annual training each year for all university and contracted waste and recycling operational staff. This training outlines the steps that both University and contracted staff use to prevent and clean-up hydraulic oil spills.

Spill Prevention Control & Countermeasure (SPCC) Program

Auburn University maintains compliance efforts consistent with 40 CFR 112 and the University's SPCC Plan. The SPCC Plan addresses the University's program to manage oil and other petroleum products defined by 40 CFR 112.7(2) and 40 CFR 112.7(4). This includes the

management of fuel oils, gasoline, lubricating oils, hydraulic and dielectric fluids as they are utilized and stored on Auburn University's main campus. The University inspects all applicable containers (fuel tanks, generators, elevators and drums) monthly and all transformers annually. These routine inspections evaluate the condition of the containers to ensure proper functionality and management to prevent releases to the environment.

Applicable SPCC	Number of Inspections	Volume of SPCC
containers		applicable oil (gallons)
Tanks, Generators, Drums	696	99173
Elevators	1596	19445
Pad Mount Transformers	237	110574
Satellite Equipment	21	3847

Annual training is provided to oil handling personnel employed by Auburn University to promote the objectives of the SPCC Plan, the regulatory responsibility associated with these regulated materials and to address in-house procedures necessary to respond to spills or releases from them. During this reporting period, 224 employees were trained.

Used Oil Recycling Program

Auburn University's Department of Risk Management & Safety routinely collects and recycles used oil from campus operations. Currently, the Department of Risk Management & Safety uses Universal Environmental Services, LLC based out of Peachtree City Georgia for removal and recycling of campus generated used oil. Throughout this reporting period, the Department of Risk Management & Safety collected 1050 gallons of used oil from campus operations.

Used Cooking Oil Recycling Program

Auburn University's Dining Services collects and recycles all used cooking oil generated from the University's dining facilities. During this reporting period, approximately 3216 gallons of used cooking oil was collected under contract with Filta Fry LLC.

Measure Specific Evaluation

Throughout this reporting period, the on-going preventative measures taken by multiple groups on campus have removed items that could have been ultimately destined to our local landfill, groundwater and or surface waters. The University promotes waste minimization efforts to include regulated hazardous and non-hazardous wastes, e-waste and construction and demolition waste through reuse and recycling. The University has developed sound practices to manage equipment and operations to minimize releases to the environment and provides training to University and contractual employees on these best management practices. Per the newly issued permit, AU began efforts to inventory "municipal facilities".

Measure specific activities planned for the next reporting period

Auburn University will continue to perform and promote sound pollution prevention good housekeeping management practices.

- Provide pollution prevention environmental awareness training to municipal facility personnel.
- Develop metrics to quantify the amount of floatable materials collected as a result of successful implementation of BMPs at municipal facilities.
- 3. Revise and update "municipal facility" inventory.

Monitoring Plan for Pathogen Impairment

The Parkerson Mill Creek Watershed is located in Lee County; the watershed is part of the Chewacla Watershed, in the lower Tallapoosa River Basin. The 9.3 square mile (5,981 acres) watershed contains 21,000 meters (68,500 ft.) of main stem perennial stream and approximately 86,000 meters (282,152 ft.) of tributary stream length. The stream network empties into Chewacla Creek, just south of the H.C. Morgan Water Pollution Control Facility

The watershed includes the City of Auburn, Auburn University and the surrounding areas. The headwaters of Parkerson Mill Creek are approximately 3,000 meters (9,845.5 ft.) in length and are located on the campus of Auburn University.

In 2007, ADEM listed Parkerson Mill Creek as impaired on Alabama's 303(d) List of Impaired Waters for pathogens from point source and non-point sources, primarily urban runoff and storm sewer connections. As such, Auburn University monitors Parkerson Mill Creek by performing bacteriological analysis through the AU Water Resource Center's Alabama Water Watch (AWW) program. The results of the monitoring effort for this reporting period are contained in Appendix C of this Annual Report.

Appendix A

Construction Site Details

April 1, 2017 through March 31, 2018

Project #	Project Name	Design Lead	Const. Lead	Architect	Civil Engineer	General Contractor	Civil Contractor	# of Inspections	# of Non- compliant notices	# of Site Runoff Complaints	Sub Comp
14-044	Graduate Business Building	Maffett	Cobb	Williams Blackstock	LBYD	Rabren	Joe Mims Construction	5	0	0	ongoing
14-193	Pharmacy Research	Yendle	Conradson	GMC	LYBD	Bailey-Harris	JLD	24**	0	0	5/4/2017
15-035	School of Nursing	Yendle	Conradson	Stacy Norman Arch.	LBYD	Bailey-Harris	JLD	24**	0	0	10/13/2017
15-080	CDV Demo	Ruscin	Conradson	LBYD	LBYD	Virginia Wrecking	Virginia Wrecking	13	0	0	5/19/2017
15-158	Performing Arts BP#1	Bess	Conradson	WBA	LBYD	D&J Enterprises	D&J Enterprises	7	0	0	11/27/2017
15-158	Performing Arts BP#2	Bess	Conradson	WBA	LBYD	Rabren	D&J Enterprises	10	0	1	Ongoing
15-157	Brown-Kopel	Yendle	Haney	Smith Group JJR	Foresite	Rabren	D&J Enterprises	13	0	0	Ongoing
15-208	Leach Expansion	Prater	Haney	Perkins Will	LBYD	Rabren	Joe Mims Construction	19	0	0	Ongoing
15-079	Beard Handball Demo	Bingham	Johnson	LBYD	LBYD	Virginia Wrecking	D&J	13	0	1	Ongoing
15-130	Food Animal Research	Bess	Peacock	FoilWyatt	Krebs	Nearen	Nearen	1	0	0	5/3/2017
15-150	Risk Management, Bldg 8	Maffett	Rice	Seay	LBYD	CAM Builders	JLD	10	0	1	4/27/2017
15-256	Band pratice field and storage	Bess	Rice	Barganier Davis Sims	LBYD	Whatley	Hudmon	2	0	2	6/30/2017
11-209	Mell Classroom	Carroll	Simons	Williams Blackstock	LBYD	Bailey Harris	JLD Enterprises	0*	0	0	8/18/2017
15-311	Mell Corridor	Burmester	Simons	Holcombe Norton Partners	LBYD	Rabren	Joe Mims Construction	2	0	0	Ongoing
16-475	Teaching and Demo Gardens	Burmester	N/A	Hillworks	N/A	Ag Lands	Ag Lands	3	0	0	Ongoing

Appendix B

Policy on Storm Water Management Compliance

April 1, 2017 through March 31, 2018

POLICY ON STORMWATER MANAGEMENT COMPLIANCE

I. POLICYSTATEMENT

Auburn University ("The University") shall manage its stormwater in compliance with the National Pollutant Discharge Elimination System (NPDES) General Permit ALR040030 ("The Permit"), or subsequent permits, and the University's Stormwater Management Plan.

II. POLICY PRINCIPLES

A. The University's "Policy on Stormwater Management Compliance" governs the University's Stormwater Management Program. This Policy guides the University in administering the requirements and procedures of the Permit as required of the University and as administered by the Alabama Department of Environmental Management (ADEM).

B. Regulatory Background:

- 1. The United States Environmental Protection Agency (EPA) and ADEM have designated the University as an owner/operator of a Phase II municipal separate storm sewer system (MS4). The EPA's Clean Water Act Phase II Stormwater Regulations (implemented March 2003) require operators of regulated Phase II MS4s to obtain an NPDES permit and to develop a stormwater management program designed to protect water quality and to prevent harmful pollutants in stormwater runoff from being discharged into the MS4.
- 2. The intent of the Clean Water Act Phase II regulations is to reduce adverse impacts to water quality and aquatic habitat by instituting the use of best management practices on sources of stormwater discharges not regulated by other measures. In order to comply with the Clean Water Act Phase II regulations, the University must satisfy six "minimum control measures," including:
 - a. Public Education and Outreach
 - b. Public Participation/Involvement
 - c. Illicit Discharge Detection and Elimination
 - d. Construction Site Runoff Control
 - e. Post-Construction Stormwater Management
 - f. Pollution Prevention/Good Housekeeping
 - 3. Parkerson Mill Creek was determined to be "Impaired Water" and consequently placed on the ADEM 303(d) list of impaired and threatened waters ("303(d) list") in 2008 and 2010. Known water quality concerns have been identified as pathogens resulting likely from urban runoff and sewer cross connections. A Total Daily Maximum Load (TMDL) for Parkerson Mill Creek was issued by ADEM in September 2011. Implementation of this stormwater TMDL was addressed in the Permit.

- C. A University Stormwater Management Plan (SWMP) has been created and annually updated since 2009. The SWMP was created in compliance with EPA and ADEM requirements as identified in the Permit and in concert with the Campus Master Plan, the Landscape Master Plan and the Policy for Natural Resource Management. The SWMP details the measures that are to be taken to meet the six minimum control measures identified above, identifies the University entity(s) having responsibility towards each measure and the metrics to evaluate their effectiveness.
- D. It is University policy that all stormwater shall be managed in accordance with the SWMP and that all University organizations and non-University organizations operating on University's main campus shall conduct their operations and activities in compliance with this plan.

III. EFFECTIVE DATE

This policy is in affect as of June 15, 2016.

W. APPLICABILITY

This policy applies to all University organizations, as well as all University operations, construction projects, and other campus activities.

V. POLICY MANAGEMENT

Responsible Office: Auburn University Facilities Management

Responsible Executive: Executive Vice President, Auburn University

Responsible Officer: Associate Vice President, Facilities

W. <u>DEFINITIONS</u>

303(d) List: List of impaired and threatened waters (stream/river segments, lakes) that the Clean Water Act requires all states to submit for EPA approval every two years on even-numbered years. States identify all waters where required pollution controls are not sufficient to attain or maintain applicable water quality standards, and establish priorities for development of TMDLs based on the severity of the pollution and the sensitivity of the uses to be made of the waters, among other factors. States then provide a long-term plan for completing TMDLs within 8 to 13 years from first listing.

ADEM: Alabama Department of Environmental Management, the governing body responsible for enforcing environmental regulations in the State of Alabama.

Best Management Practices (BMP): Activities or structural improvements that help reduce the quantity and improve the quality of stormwater runoff. BMP include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Campus Master Plan: As stipulated in the University's "Campus and Capital Projects Planning Policy," the Campus Master Plan "is a physical plan and comprehensive set of policy directives that together provide long-range strategies for the growth and development of the Auburn University campus." The Campus Master Plan is updated periodically, as required, and the Board of Trustees reviews and approves all changes.

<u>Campus Master Plan Land Use Element</u>: The chapter of the Campus Master Plan that establishes formal Land Use Categories and Land Use Area boundaries that define permitted uses for all University Land.

Clean Water Act (CWA): Act passed by the United States Congress to control water pollution, formally called the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972.

Environmental Protection Agency (EPA): United States agency responsible for protecting human health and the environment.

Executive Facilities Committee: Appointed by the President, a senior group of University Administrators, representing major facility stakeholders, that considers and formulates recommendations for the President, regarding campus facility plans and programs.

Landscape Master Plan (LMP): Developed as a component, or sub-plan, of the Campus Master Plan, the LMP provides prescriptive requirements of a design approach that will guide the University toward implementation and realization of the landscape vision for the Auburn campus. The LMP document aids in defining the project scope of each campus project that affects Auburn University exterior facilities and provides tools designed to ensure that each project is viewed within its larger campus context and contributes to the success of the larger campus landscape.

Master Plan Committee: A representative committee appointed by the President that provides input regarding facilities, planning, transportation planning, land planning, infrastructure, and site development activities. The Committee also provides input on the continuing administration, maintenance, implementation, change, and updating of the Campus Master Plan.

Municipal Separate Storm Sewer System (MS4): is a conveyance or system of conveyances owned by a state, city, town, village or other public entity that discharges to waters of the U.S.

Natural Resource Management Area (NR): The Campus Master Plan Land Use Category and Land Use Area, identified on the Campus Master Plan as "NR," that identifies areas of the campus that are designated for natural resource protection and enhancement with limited development potential. NR areas include land located on either side of Parkerson Mill Creek and Town Creek and their tributaries, FEMA 100- year floodplains, wetlands, streams, steep slopes, and critical buffer zones.

NPDES: National Pollutant Discharge Elimination System. The national program for issuing, modifying, revoking, reissuing, terminating, monitoring, and enforcing permits and for imposing and enforcing pretreatment requirements under sections 307, 318, 402, and 405 of the Clean Water Act (CWA).

Parkerson Mill Creek: One of two principal stream systems, including all tributaries and main channel streams, that flows on the University main campus (see appendix 1); a tributary of Chewacla Creek, which flows into the Tallapoosa River.

Parkerson Mill Creek Watershed: Area of land on the University main campus that drains the tributaries, main channel, stream banks, and floodplain of Parkerson Mill Creek (see appendix 1).

Pathogens: Microorganisms that can cause disease in other organisms or in humans, animals, and plants. They may be bacteria, viruses, or parasites and are found in sewage, in runoff from animal farms or rural areas populated with domestic and/or wild animals, and in water used for swimming. Fish and shellfish contaminated by pathogens, or the contaminated water itself, can cause serious illnesses.

Permit: The National Pollutant Discharge Elimination System (NPDES) General Permit ALR040030 issued to Auburn University.

Policy for Natural Resource Management: University policy that implements the Campus Master Plan Land Use Element as it relates to University Land designated as natural resource protection and enhancement areas with limited development potential, including the protection, enhancement, and restoration of Parkerson Mill Creek, Town Creek, and the tributaries within their watersheds on the main campus.

Stormwater: Runoff occurring when precipitation flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater runoff from naturally soaking into the ground. These discharges often contain pollutants in quantities that could adversely affect water quality. Federal regulations require permits for stormwater discharges associated with industrial activity, construction projects (disturbing one or more acre of land) and MS4s. These permits require controls to reduce the transport of pollutants in storm water to waters of the United States.

Stormwater Management Plan (SWMP): University plan developed for the implementation of NPDES permit requirements.

Stormwater Management Program: University plans, procedures and practices required by EPA and ADEM to obtain NPDES MS4 permit and NPDES construction stormwater permits for construction projects (disturbing one or more acre of land).

Stormwater Pollutant: Chemicals, sediment, trash, disease-carrying organisms, and other contaminants picked up by stormwater as it runs off roofs and roads into rivers, streams and other water bodies. Studies show that stormwater pollution rivals sewage plants and large factories as a source of damaging pollutants in drinking water and at water bodies.

TMDL: Total Maximum Daily Load designates the calculated maximum amount of pollutant that a body of water can receive and still safely meet water quality standards. TMDL= Wasteload Allocation (NPS) + Load Allocation (PS) + Margin of Safety.

Town Creek: One of two principal stream systems, including all tributaries and main channel streams that flow on the University main campus (see appendix 1); a tributary of Chewacla Creek, which flows into the Tallapoosa River.

Town Creek Watershed: Area of land on the Auburn University main campus that drains the tributaries, main channel, stream banks, and floodplain of Town Creek (see appendix 1).

University Land: All land owned or leased by Auburn University.

VIL POLICY PROCEDURES

A. Auburn University Facilities Management ("Facilities Management") will administer this policy on behalf of the University.

- B. The University's Department of Risk Management and Safety is primarily responsible for reporting the University's compliance efforts, maintaining the University's SWMP and facilitating progress with other University groups that have responsibility towards the Permit's overall objective
- C. Facilities Management shall establish a Stormwater Management Committee (SWMC) as a subcommittee of the Master Plan Committee. The SWMC shall:
 - 1. Develop, implement, and maintain a Stormwater Management Program to, comply with the Permit, at a minimum, with a goal to have Parkerson Mill Creek removed from the 303(d) list between 2016 and 2021 consistent with 303d list guidelines;
 - 2. Review and update the SWMP as needed:
 - 3. Develop a checklist to ensure compliance with this policy and the management plans described herein.
- D. The SWMC will include members from the Master Plan Committee as well as additional ad hoc representatives, to include, but not limited to, the Alabama Cooperative Extension System; Athletics Department; Campus Planning; College of Agriculture; College of Sciences and Mathematics; Design and Construction; Housing & Residence Life; Landscape Services; the Office of Risk Management and Safety; the Office of Sustainability; the School of Forestry; and Division of Student Affairs.

VIL SANCTIONS

This Policy serves as the regulatory mechanism to prohibit activities on University Land that would be non-compliant with either the Permit or the Stormwater Program. In the event of non-compliant activity by an organizational unit of the University, the appropriate chain of command will be used to bring the activity back into compliance or cause it to stop. In the event of intentional non-compliant activity by a student(s), the Code of Student Discipline may apply. For intentional non-compliant activities by a University employee(s), progressive discipline measures may apply. For intentional or negligent non-compliant activities resulting from a University Contractor, work stoppage, formal project review, and appropriate corrective actions may apply.

IX. EXCEPTIONS

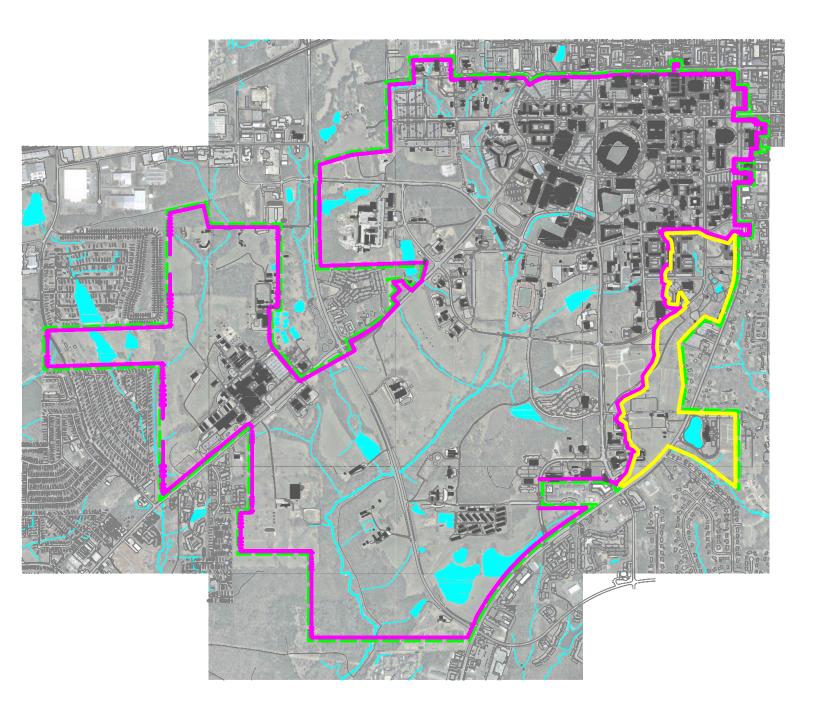
This policy applies to the Auburn University main campus. All other University Land is exempt.

X <u>INTERPRETATION</u>

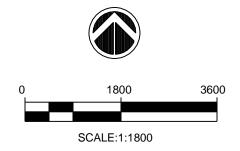
The Responsible Officer is authorized to interpret questions and issues regarding the requirements and applicability of this policy.

ADOPTED: June 15, 2016

APPENDIX1







LEGEND



Appendix C

Parkerson Mill Creek Monitoring Data

April 1, 2017 through March 31, 2018

Parkerson Mill Creek Water Quality Monitoring April 1, 2017 through March 31, 2018

AWW Site Code 7011035

Location Description Thach Ave near Rugby Field

Sample Date	air temp	water temp	E-coli (1)	E-coli (2)	E-coli (3)	Calc Mean	Notes
28-Jun-17	22	22	0	0	0	0.00	
2-Aug-17	NS	NS	37	39	43	3966.67	
14-Sep-17	25	23	15	10	6	1033.33	
3-Oct-17	22	21	3	2	3	266.67	
17-Oct-17	15	17.5	4	4	5	433.33	
15-Nov-17	12.5	15	5	1	1	233.33	
13-Dec-17	5.5	10	27	12	22	2033.33	
24-Jan-18	7	10.5	4	5	5	466.67	~3" Rain w/in 48 hrs
21-Feb-18	22	18	25	23	27	2533.00	
AWW Site Code	7011036						
Location Description	Biggio Driv	ve near Colise	um				
10-Jun-17	NS	NS	1	2	1	133.00	
8-Sep-17	NS	NS	13	17	7	1267.00	
27-Oct-17	NS	NS	0	2	6	267.00	
AWW Site Code	No Code						
Location Description	Farm Hou	se					
11-Jul-17	NS	NS	0	5	3	266.67	
9-Aug-17	NS	NS	0	1	0	33.33	
29-Aug-17	NS	NS	4	7	9	666.67	
10-Jan-18	NS	NS	15	17	17	1633.33	
AWW Site Code	No Code						
Location Description	Wellness I	Kitchen T07-14	4				
11-Jul-17	NS	NS	6	6	2	466.67	
9-Aug-17	NS	NS	1	0	0	33.33	
29-Aug-17	NS	NS	1	0	0	33.33	
10-Jan-18	NS	NS	0	0	0	0.00	
AWW Site Code	No Code						
Location Description		Parking Lot					
11-Jul-17	NS	NS	8	10	10	933.33	
9-Aug-17	NS	NS	6	4	7	566.67	
29-Aug-17	NS	NS	1	2	0	100.00	
10-Jan-18	NS	NS	2	4	6	400.00	

AWW Site Code	No Code						
Location Description	Farm Hous	se					
11-Jul-17	NS	NS	0	2	6	266.67	
9-Aug-17	NS	NS	1	0	2	100.00	
29-Aug-17	NS	NS	4	7	9	666.67	
10-Jan-18	NS	NS	15	17	17	1633.33	
AWW Site Code	No Code						
Location Description	Thach						
11-Jul-17	NS	NS	0	5	3	266.67	
9-Aug-17	NS	NS	0	1	0	33.33	
29-Aug-17	NS	NS	0	0	0	0.00	
10-Jan-18	NS	NS	17	10	7	1133.33	
AWW Site Code	No Code						
Location Description	West Mag	gnolia					
11-Jul-17	NS	NS	6	0	1	233.33	
9-Aug-17	NS	NS	25	15	0	1333.33	
29-Aug-17	NS	NS	4	3	4	366.67	
AWW Site Code	No Code						
Location Description	Sigma Nu	Fraternity					
11-Jul-17	NS	NS	5	2	2	300.00	
9-Aug-17	NS	NS	7	5	6	600.00	
29-Aug-17	NS	NS	56	79	74	6966.67	
AWW Site Code	7021007						
Location Description	Pond at Ag	g Heritage Par	·k				
14-Sep-17	27.5	28	0	1	0	33.33	
17-Oct-17	17	20	0	0	0	0.00	
15-Nov-17	15	15	0	0	0	0.00	
13-Dec-17	8.5	9.5	0	0	0	0.00	
24-Jan-18	12.5	10.5	6	5	8	633.33	~3" Rain w/in 48 hrs
24-Jd11-10	12.5	10.5	· · ·	3	0	055.55	5 Naiii W/III 46 III 5
AWW Site Code	7007010						
Location Description		and Samford	Λνοημο				
Location Description	VVII e NOAU	and Samilord	Avenue				
Sample Date	air temp	water temp	E-coli (1)	E-coli (2)	E-coli (3)	Calc. Mean	Notes
28-Jun-17	NS NS	NS	L CON (1)	L COII (2)	L COII (3)	67.00	140103
2-Aug-17	NS	NS				133.00	
3-Oct-17	NS	NS		 		167.00	
27-Oct-17	NS	NS		 	1	100.00	
27 300 17	143	143		 		100.00	
				1			
				 			
				 			

AWW Site Code	7012004						
Location Description	Bridge on	Samford Ave	near Wome	en's Socce	r Field	r	
Sample Date	air temp	water temp	E-coli (1)	E-coli (2)	E-coli (3)	Calc. Mean	Notes
28-Jun-17	NS	NS				167.00	
2-Aug-17	NS	NS				867.00	
20-Sep-17	NS	NS				1650.00	
3-Oct-17	NS	NS				533.00	
22-Oct-17	NS	NS				167.00	
AWW Site Code	7018002						
Location Description	Shug Jorda	an near AU Be	ef Unit				
Location Description	Shug Jorda	an near AU Be	ef Unit				
Location Description Sample Date	Shug Jorda air temp	an near AU Be water temp	ef Unit E-coli (1)	E-coli (2)	E-coli (3)	Calc. Mean	Notes
·				E-coli (2)	E-coli (3)	Calc. Mean	Notes
Sample Date	air temp	water temp	E-coli (1)				Notes
Sample Date 28-Jun-17	air temp	water temp	E-coli (1)	0	0	0.00	Notes
Sample Date 28-Jun-17 2-Aug-17	air temp	water temp 22 22	E-coli (1) 0 1	0 2	0	0.00 133.33	Notes
Sample Date 28-Jun-17 2-Aug-17 14-Sep-17	air temp 24 24 26	water temp 22 22 22 22	E-coli (1) 0 1 6	0 2 4	0 1 5	0.00 133.33 500.00	Notes
Sample Date 28-Jun-17 2-Aug-17 14-Sep-17 3-Oct-17	air temp 24 24 26 25	water temp 22 22 22 18	E-coli (1) 0 1 6	0 2 4 0	0 1 5	0.00 133.33 500.00 66.67	Notes
Sample Date 28-Jun-17 2-Aug-17 14-Sep-17 3-Oct-17 17-Oct-17	air temp 24 24 26 25 17	water temp 22 22 22 18 15	E-coli (1) 0 1 6 1 3	0 2 4 0 2	0 1 5 1 2	0.00 133.33 500.00 66.67 233.33	Notes
Sample Date 28-Jun-17 2-Aug-17 14-Sep-17 3-Oct-17 17-Oct-17 15-Nov-17	air temp 24 24 26 25 17 15.5	water temp 22 22 22 18 15 12	E-coli (1) 0 1 6 1 3 4	0 2 4 0 2 5	0 1 5 1 2	0.00 133.33 500.00 66.67 233.33 300.00	Notes ~3" Rain w/in 48 h

800.00

21-Feb-18

Appendix D

Storm Water Management Program Plan (SWMPP)

April 1, 2017 through March 31, 2018



STORM WATER MANAGEMENT PROGRAM PLAN

AUBURN UNIVERSITY STORM WATER MANAGEMENT COMMITTEE

May 2018

Table of Contents

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INTRODUCTION

This Storm Water Management Program Pan (SWMPP) was developed in general accordance with the guidelines provided in Title 40 Code of Federal Regulations (CFR), Part 122.26(d) incorporated by reference in the Alabama Administrative Code 335-6 as administered by the Alabama Department of Environmental Management (ADEM) and NPDES ALR040030 Phase II General Permit effective October 1, 2016.

The purpose of this SWMPP is to describe Auburn University and its operation, and identify the Best Management Practices (BMPs) to be utilized to reduce the discharge of pollutants from Auburn University's main campus to the maximum extent practicable (MEP) to protect water quality and to satisfy the appropriate water quality requirements of the Clean Water Act (CWA).

The Storm Water Committee formed to develop this SWMPP is comprised of individuals from both academic and operational areas of campus. The collaborative effort was strengthened by its diversity and includes the following individuals and their areas of responsibility or interest:

- Dr. Chris Anderson, Forestry & Wildlife Sciences
- Mr. Daniel Ballard City of Auburn Watershed Division
- Mr Nicholas Blair, Facilities Management Design Services
- Dr. David Blersch, Biosystems Engineering
- Dr. Eve Brantley, Crop, Soil & Environmental Sciences, ACES
- Mr. Ben Burmester, Facilities Management Office of University Architect
- Mr. Ben Chapman, Facilities Management Construction Management
- Ms. Mona Dominguez, Alabama Water Watch
- Mr. Jeffrey Dumars, Facilities Management Office of University Architect
- Mr. Malcolm Dailey, Facilities Management Utilities & Energy
- Ms. Valerie Friedmann, Architecture Planning & Landscape Architecture
- Dr. Thorsten Knappenberger, Crop, Soil & Environmental Sciences
- Mr. Mike Kensler, Office of Sustainability
- Mr. Dan King, Facilities Management
- Mr. Eric Klypas, Athletics Department Field Management
- Mr. Judd Langham, Facilities Management Office of University Architect

- Ms. Charlene Lebleu, Architecture Planning & Landscape Architecture
- Mr. Glenn Loughridge, Campus Dining
- Mr. Tom McCauley, Risk Management & Safety
- Dr. Chandana Mitra, Department of Geosciences
- Mr. Buster Reese, Facilities Management, Construction Management
- Mr. Eric Reutebuch, Alabama Water Watch
- Dr. Puneet Srivastava, Water Resource Center
- Ms. Amy Strickland, Office of Sustainability
- Mr. Justin Sutton, Facilities Management Landscape Services
- Mr. Vic Walker, Facilities Management Waste Reduction & Recycling
- Dr. Amy Wright, Department of Horticulture
- Dr. Wesley Zech, Construction Engineering & Management

Objective

The primary goal of the developed SWMPP is to improve the quality of surface waters at Auburn University by reducing the amount pollutants contained in storm water runoff to a maximum extent practicable (MEP). Auburn University will seek to reduce the pollutants from entering storm water runoff through the implementation of best management practices. The SWMPP will describe the minimum best management practices to be implemented by Auburn University and as required by ADEM General Permit ALR040030 (effective date October 1, 2016).

1.1 MS4 Description

Auburn University is a large land grant educational institution located in Auburn, Lee County, Alabama comprised of approximately 1800 acres of contiguous property. Auburn University is one of the major liberal arts and science universities in the southeast. The area surrounding Auburn University consists of residential property to the east and southeast, agricultural property to the southwest and west and urban city property to the north and east.

1.2 Definitions

ADEM: Alabama Department of Environmental Management responsible for enforcing

AU SWMPP

environmental regulations in the State of Alabama.

Best Management Practices (BMP): may include schedule of activities, prohibition of practices, maintenance procedures or other management practices to prevent or reduce the pollution of Waters of the State. BMPs also include treatment requirements, operating procedures and practices both structural and non-structural designed to control runoff, spillage or leaks, sludge or waste disposal or drainage from raw material storage.

Clean Water Act (CWA): The Clean Water Act is an Act passed by U.S. Congress to control water pollution. It is formally referred to as the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972.

Code of Federal Regulations (CFR): A codification of the final rules published daily in the Federal Register. Title 40 of the CFR contains the environmental regulations.

Composite Sample: A sample collected with consideration giving towards flow and time.

Control Measure: any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to Waters of the State.

Discharge: when used without a qualifier, refers to "discharge of pollutant" as defined as ADEM Admin Code 335-6-6-.02(m)

EPA: Environmental Protection Agency

Grab Sample: A sample that is taken on a one-time basis without consideration of the flow rate of the sampling media and without consideration of time.

Green Infrastructure: refers to systems and practices that use or mimic natural processes to infiltrate, evapotranspiration (the return of water to the atmosphere either through evaporation or by plants), or reuse storm water or runoff on the site where it is generated.

Illicit Connection: any man made conveyance connecting an illicit discharge directly to

municipal separate storm sewer (MS4)

Illicit Discharge: defined at 40 CFR 122.26(b)(2) and refers to any discharge to a municipal separate storm sewer (MS4) that is not entirely composed of storm water, except those discharges authorized or excluded under an NPDES permit.

Low Impact Development (LID): an approach to land development (or redevelopment) that works with nature to manage storm water as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing effective imperviousness to create functional and appealing site drainage that treat storm water as a resource rather than a waste product.

Maximum Extent Practicable (MEP): the technology based discharge standard for municipal separate storm sewer systems to reduce pollutants in storm water discharges that was established by the Clean Water Act (CWA) Section 402(p). A discussion of MEP as it applies to small MS4s like Auburn University is found at 40 CFR 122.34

Municipal Separate Storm Sewer System (MS4): A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm ditches) owned or operated by a state, city, town or other public body having jurisdiction over the collection and conveyance of storm water which is not a combined sewer and which is not part of a publicly owned treatment works.

Notice of Intent (NOI): the mechanism used to "register" for coverage under a General Permit.

National Pollutant Discharge Elimination System (NPDES): The national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and imposing and enforcing pretreatment requirements under Section 307, 318, 402 and 405 of the CWA.

Permit: NPDES ALR040030 issued to Auburn University & became effective October 1, 2016.

AU SWMPP

Permittee: Auburn University

Priority Construction Site: any qualifying construction site in an area where the MS4

discharges to a waterbody which is listed on the most recently approved 303d list of

impaired waters for turbidity, siltation or sedimentation, any waterbody for which a TMDL

has been finalized or approved by EPA for turbidity, siltation or sedimentation, any

waterbody assigned the Outstanding Alabama Water use classification in accordance with

ADEM Admin Code 335-6-10-.09 and any waterbody assigned a special designation in

accordance with 335-6-10-.10

Storm water: defined at 40 CFR 122.26(b)(13) storm water runoff, surface runoff and

drainage

Storm Water Management Program Plan (SWMPP): A plan developed for

implementation of NPDES permit requirements.

Waters of the State: All waters that are currently used, were used in the past, or may be

susceptible to use in interstate or foreign commerce. Waters of the State include bat are

not limited to all interstate waters and interstate lakes, rivers, streams (including

intermittent streams), mudflats, sand flats, wetlands, sloughs, play lakes or naturals

ponds.

REGULATORY MECHANISM

Auburn University utilizes the Policy on Storm Water Management Compliance as the

regulatory mechanism to prohibit activities on University Land that would be non-

compliant with either the Permit or the SWMPP. Auburn University Facilities

Management is the responsible for administering the Policy on behalf of the University.

Policy on Storm Water Management Compliance

CONTROL MEASURES

7

AU SWMPP

Storm water management controls or BMPs will be implemented to prevent pollution in storm water discharges from Auburn University's main campus. The Permit requires BMPs addressing five minimum control measures to be part of the SWMPP. These BMPs are described in the remaining subsections of this section with applicable measureable goals and scheduled implementation dates for each BMP.

The five control measures addressed by this SWMPP include:

- 2.1 Public Education and Public Involvement on Storm Water Impacts
- 2.2 Illicit Discharge Detection and Elimination
- 2.3 Construction Site Storm Water Runoff Control
- 2.4 Post Construction Storm Water Management in New and Redevelopment
- 2.5 Pollution Prevention / Good Housekeeping for Municipal Operations

2.1 Public Education and Public Involvement on Storm Water Impacts

An informed and knowledgeable "community" at Auburn University will be an important factor in the success of this SWMPP to reach its goal of reducing the discharge of pollutants associated with storm water runoff. The effective implementation of this measure will help Auburn University to ensure:

- Greater awareness to the University community of the importance of managing discharges to local receiving waters;
- 2) Greater support from the University community for the storm water management program; and
- 3) Greater compliance with the requirements of the General NPDES Permit.

The Public Education and Public Involvement on Storm Water Impacts control measure consists of BMPs that focus on the development of educational materials and efforts designed to inform the public about the impacts that storm water discharges have on local water bodies and to foster community partnerships that provide opportunities for stakeholders to learn more about storm water practices and policies, demonstration projects and assessments of local water quality.

Educational materials, activities and partnerships will be designed to engage the public to better understand the impacts of storm water pollution, local MS4 efforts as well as to highlight and support measures to reduce the introduction of pollutants in storm water. The measure is expected to reach the constituents within the MS4s permitted boundary (Auburn University's main campus). An emphasis of these outreach efforts will be towards the removal of known pollutants from storm water to include floatables, pathogens and sediment.

A plan for effectively engaging in Public Education and Public Involvement on Storm Water Impacts is presented below as required by the Permit.

Target Audience

Auburn University has a unique opportunity to reach several distinct target audiences throughout the year. These audiences include Auburn University faculty and staff, students, parents of students, visitors, contractors on campus, and surrounding community stakeholders.

Pollutants of Concern

Primary storm water pollutants of concern for Auburn University include pathogens as listed on the 2010 303(d) list for Parkerson Mill Creek, floatables i.e. litter from improper trash disposal, and sediment from land disturbing activities and in-stream erosion processes.

Communication Mechanisms

Communication of storm water pollution prevention principles will include the following mechanisms AU web sites, interactive campus storm water BMP tour, AU Daily electronic bulletin that reaches the entire student body and all Auburn University employees, representation at quarterly ALOAS meetings, inclusion of storm water and stream information on signage in strategical locations on campus, presentations to student and watershed organizations, continued participation in university-led activities such as Earth Day, Arboretum Game Day events, Adopt a Spot clean up events, student service events (i.e. Big Event, IMPACT) and various social medial platforms such as Facebook and Twitter.

Responsible Parties

The Public Education and Outreach measure development and implementation will be overseen by a partnership between the University Water Resources Center, the Office of Sustainability and the Department of Risk Management and Safety (RMS).

Measurable Outcomes and Evaluation

Effectiveness of the activities related to this measure will be measured through:

- 1. Number of presentations delivered various AU programs will provide at a minimum of four presentations specific to storm water management annually.
- 2. RMS maintains the central electronic resource (webpage) to serve as primary reference site for the updated University SWMPP. RMS-Stormwater
- Quantify the number of individuals reached through University led activities
 throughout each reporting cycle. Audience includes students, staff, employees
 and visitors to Auburn University and is targeted at 2500 individuals each
 reporting cycle.
- 4. Number of university led PMC cleanup efforts. AU aims to promote 4 cleanup events throughout each reporting cycle.
- 5. Documented attendance to quarterly ALOAS citizen advisory meetings.
- 6. Continued attendance, partnership, or participation in Alabama Water Watch monitoring workshops.
- 7. Continued installation of storm drain markers on all inlets located on campus.

2.2 Illicit Discharge Detection and Elimination

Per the Permit, an Illicit discharges is defined at 40 CFR Part 122.26(b)(2) and refers to "any discharge to an MS4 (municipal separate storm sewer system) that is not composed entirely of storm water ..." Exceptions include NPDES permitted discharges and discharges resulting from fire-fighting activities. Some examples of illicit discharges include: sanitary wastewater, effluent from septic tanks, car wash wastewaters, improper oil disposal, and radiator flushing disposal, laundry wastewaters, and spills from roadway accidents, and swimming pool discharges (that have not been de-chlorinated). These illicit discharges can enter a storm drain system either through a direct connection (e.g., a pipe connected directly to the storm drain) or indirectly (e.g., spills, dumped chemicals,

cracks in sanitary sewers). As a result, inadequately treated wastes containing high levels of pollutants, such as heavy metals, oil and grease, toxics, viruses, and bacteria, are discharged to receiving waters. The next subsections describe Auburn University's current program to detect and eliminate both direct and indirect illicit discharges into the storm drain system and associated plans for the permit term.

Regulations require identification and elimination of all non-storm water discharges and appropriate responses to protect the campus community and the environment. The following discharges are not considered illicit and are not regulated under this minimum control measure:

- A. Water line flushing (including fire hydrant testing)
- B. Landscape irrigation
- C. Diverted stream flows
- D. Rising ground waters
- E. Uncontaminated ground water infiltration (infiltration is defined as water other than wastewater that enters a sewer system, including sewer service connection and foundation drains, from the ground through such means as defective pipes, sewer service connections or manholes.)
- F. Uncontaminated pumped ground water
- G. Discharges from potable water sources
- H. Foundation drains
- I. Air conditioning condensation
- J. Springs
- K. Water from crawl space pumps
- Footing drains
- M. Flows from riparian habitats and wetlands
- N. De-chlorinated swimming pool discharges
- O. Street wash water
- P. Discharges or flows from fire fighting

Auburn University relies upon multiple methods to identify illicit discharges as quickly as possible. All potential illicit discharges should be reported to Auburn University Risk Management and Safety upon discovery. Discovery and reporting methods include

reports conveyed from the campus community to the University's Facilities Division by dialing 844-HELP, by utilizing the electronic reporting feature known as "Ask Facilities" or by contacting RMS at 844-4870. Reports might originate from faculty, staff, students, or campus visitors. In particular, AU staff with specific training on illicit discharge identification will increase the probability of proper and timely reporting.

Investigation of illicit discharges will commence as soon as practicable but always within 5 working days of the initial discovery or report. Investigation and mitigation measures are implemented upon detection to identify possible source(s) of illicit discharges and to either prevent or reduce adverse impacts to storm water runoff and the environment. A written report will be prepared to document each illicit discharge investigation. Reports will include the nature of the discharge, possible sources, mitigation or cleanup measures implemented, any steps taken to prevent similar discharges in the future, and documentation of any ADEM reporting required.

Target Audience

Auburn University has a unique opportunity to reach several distinct target audiences throughout the year. These audiences include Auburn University faculty and staff, students, parents of students, visitors, contractors on campus, and surrounding community stakeholders.

Responsible Parties

The Illicit Discharge Detection & Elimination measure development and implementation will be overseen by a partnership between the Auburn University Facilities Management Facility Operations, RMS and the University Water Resource Center.

Measurable Outcomes and Evaluation

 Update map of all campus storm water outfalls. As required by Section III(b)(i) of the Permit, Auburn University will provide annual updates of the map to ADEM by May 31st each year.

- Promote illicit discharge detection and elimination program in annual training efforts. A minimum of four presentations to include principles of the IDDE program will be provided to campus entities annually.
- Continue bacteriological monitoring to identify possible sources of impairment.
- Perform and document routine outfall field inspections. Evaluate all outfalls to PMC annually.
- 5. Continue to evaluate recently completed storm water system model and develop a prioritized schedule for repairs and maintenance.
- 6. Evaluate IDDE Standard Operating Procedure (SOP).

Auburn University Illicit Discharge Detection and Elimination Standard Operating Procedure

- 1. Purpose of Standard Operating Procedure:
- A. To improve the quality of surface water and ground water within the watershed areas owned and maintained by Auburn University by preventing illicit discharges and illicit connections.
- B. To prevent the discharge of contaminated storm water runoff from Auburn University properties and operations into the storm drainage system and Parkerson Mill Creek.
- C. To comply with the requirements of Auburn University storm water permit.
- D. To comply with all United States Environmental Protection Agency and State laws applicable to storm water discharges.

2. Definitions

An Illicit Discharge is the discharge of pollutants or non-storm water materials to the storm drainage system via overland flow or direct dumping of materials into a catch basin or inlet. Examples of illicit discharges include overland drainage from car washing or cleaning paint brushes in or around a catch basin.

An Illicit Connection is the discharge of pollutants or non-storm water materials into the storm drainage system via a pipe or other direct connection. Sources of illicit connections may include sanitary sewer taps, wash water from laundry facilities, wash water from sinks, or other similar sources.

3. Illicit Discharges

No University employee, student, visitor, contractor, department, or unit shall cause or allow discharges into the Auburn University storm drainage system which are not composed entirely of storm water, except for the allowed discharges listed in Section 5.

Prohibited discharges include but are not limited to: oil, anti-freeze, grease, chemicals, wash water, paint, animal waste, garbage, and litter.

4. Illicit Connections

The following connections are prohibited, except as provided in Section 5 below: Any drain or conveyance, whether on the surface or subsurface, which allows any non-storm water discharge, including but not limited to sewage, process water, waste water, or wash water, to enter the storm water drainage system, and any connections to the storm drain system from indoor drains or sinks.

5. Allowed Discharges

The following discharges to the storm drainage system are allowed:

A. Discharges that are specifically permitted under a State or federal storm water program.

B. Incidental non-storm water discharges which do not significantly contribute to the pollution of Auburn University surface waters and are limited to the following:

- water line flushing;
- reclaimed water line flushing;
- landscape irrigation, including but not limited to reclaimed water;
- diverted stream flows;
- rising groundwater;
- uncontaminated groundwater infiltration;
- uncontaminated pumped groundwater;
- discharges from potable water sources;
- foundation drains;
- air conditioning condensate (that does not contain biocide);
- springs;
- water from crawl space pumps;
- footing drains;
- flows from riparian buffers and wetlands;
- dechlorinated swimming pool discharges;

- flows from emergency firefighting; and
- building wash water without detergents, cleaners, or corrosive additives.
- C. In the event that Auburn University determines that any of the above discharges contribute to pollution of campus streams or other surface waters or is notified by a State or federal government agency, such as the Alabama Department of Environmental Management, that the discharge must cease, Auburn University will instruct the responsible person to cease the discharge.
- D. When instructed to cease the discharge, the discharger of substances newly classified as pollutants shall cease the discharge immediately and be given reasonable time to make corrections so that the discharge will not continue into the future.
- E. Nothing in this SOP shall affect a discharger's responsibilities under federal or State law.
- 6. Enforcement and Penalties
- A. Whenever Auburn University finds that a violation of this SOP has occurred; Auburn University may order compliance by written notice to the responsible person. Such notice may require without limitation:
- i. The performance of monitoring, analyses, and reporting;
- ii. The elimination of prohibited discharges or connections;
- iii. Cessation of any violating discharges, practices, or operations;
- iv. The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
- v. Payment of any fee, penalty, or fine assessed against Auburn University to cover remediation cost:
- vi. The implementation of new storm water management practices; and
- vii. Disciplinary action up to and including dismissal, where appropriate.
- B. Such notification shall set forth the nature of the violation(s) and establish a time limit for correction of these violation(s). Said notice may further advise that, if applicable, should the violator fail to take the required action within the established deadline, then Auburn University Department of Risk Management & Safety will initiate work orders for the appropriate corrective actions and the individual or University department will be charged for the cost.
- 7. Dry weather outfall inspection and monitoring

Auburn University shall, at a minimum, visually inspect PMC outfalls annually during dry weather conditions. Flows suspected of containing illicit discharges due to the presence of odors, colors or sheens shall be investigated.

Investigation may include water chemistry field testing and/or bacteriological sampling and will be dependent upon the characteristics of the observed discharge. Investigations will involve Facilities Management Utility & Energy resources to trace source of suspect illicit discharge. Upon source discovery, measures will be implemented to cease discharge immediately as possible. Should immediate cessation not be practicable, a schedule will be developed. Should the source of discharge be determined to originate off campus, the MS4 community having jurisdiction will be notified within 24 hours as well as the Department. The physical condition of the outfall shall also be noted during the inspections. Compromised outfall structures requiring maintenance will be documented with a work order to correct noted deficiency submitted within 24 hours of its discovery.

8. Promote Illicit Discharge Detection & Elimination SOP
Promotion of this SOP shall be presented to Auburn University community via
multiple methods to include but not limited to personnel training and web media.

2.3 Construction Site Storm Water Runoff Control

In accordance with Part III (B) (4) of NPDES Permit No ALR040030, Auburn University developed the Construction Site Storm Water Runoff Control Best Management Practice.

Target Audience

The Construction Site Runoff Control Program was developed for the contractors performing construction activities on campus and to assist AU Facilities Management personnel responsible for managing development on campus. Auburn University has a unique opportunity to reach several distinct target audiences throughout the year. These audiences include Auburn University faculty and staff, students, parents of students, visitors, contractors on campus, and surrounding community stakeholders.

Responsible Parties

Auburn University's Facilities Management is responsible for all construction projects on campus and implementation of this measure.

Auburn University Design and Construction Standards serve as the University's regulatory mechanism for the Construction Storm Water Control Program and were recently revised to strengthen the storm water management efforts on all University construction sites including the following sections.

Section G10 – Site Preparation

http://www.auburn.edu/administration/facilities/contractors/design-const-standards.html

Section G10 of the Design and Construction Standards was modified to provide the Contractor a contractual responsibility to meet the objectives of the General NPDES Permit. This section requires that the Contractor:

- Meet the requirements outlined in the Alabama Handbook for Erosion and Sediment Control and Storm Water Management of Construction Sites and Urban Areas and the ALOA developed Erosion and Sediment Control Policy.
- Demonstrate compliance with the ADEM registration requirements prior to initiating any earthwork at the site.
- Require turbidity monitoring at specified construction sites to ensure that site runoff not result in an increase of 50 NTU turbidity standards.

Auburn University will conduct routine turbidity monitoring at specified sites to determine the effectiveness of the on-site controls design, installation and maintenance. Construction contracts administered by Facilities Management further identify the procedures that will be taken by the Auburn University should NPDES non-compliance be identified to include withholding payment and notification to ADEM.

Measurable Outcomes and Evaluation

- 1. Continue turbidity monitoring program for new projects.
- 2. Perform annual training for contractors, designers and project managers to better understand the G10 requirements.

2.5 Post Construction Runoff Control

The post construction runoff control measure is designed to ensure that new construction designs do not result in increased storm water pollution.

Development can alter landscapes by increasing impervious areas (i.e. roofs, driveways, parking lots) and changing drainage patterns, thereby increasing the storm water rate, volume and velocity of runoff from a site. This can lead to degradation of receiving waters and increases in the occurrence of flooding. Storm water from developed impervious areas can also contain a variety of pollutants that are detrimental to water quality, such as sediment, nutrients, heavy metals, pathogenic bacteria, and petroleum hydrocarbons.

The goal of post-construction storm water management is "to reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region." LEED v4 Our intention is to develop storm water management designs in a manner best replicating natural site hydrology processes. New projects on campus shall address water quality and quantity impacts early in the design process to provide long-term water quality benefits. The implementation of Green infrastructure BMP designs that reduce impervious surfaces, provide water filtering services and encourage infiltration is preferred. New projects offer many opportunities to reduce storm water runoff from the site.

To meet the requirements of Part III B5 of the Permit, Auburn University developed a Campus Landscape Master Plan (CLMP) as part of the overall Comprehensive Campus Master Plan. The Master Plan is approved by the Board of Trustees and serves as the mechanism to ensure that the objectives of the CLMP are achieved. The CLMP embraces a sustainable environment, including an emphasis on Low Impact Development and Green Infrastructure approaches to storm water management that incorporate best management practices for maintenance and implementation schedules, as well as campus watershed restoration opportunities.

The Design and Construction Standards performance requirements state a project is to not increase peak storm water flows for the 2, 5, 10, and 25 year storm events as well as provide water quality treatment for the first 1.2 inches of rainfall with an 80 percent Total Suspended Solids (TSS) reduction goal. Projects are also encouraged to reduce overall storm water runoff volume by reducing impervious cover campus wide and promotion of infiltration.

Responsible Parties

Auburn University's Facilities Management is responsible for the implementation of the CLMP and implementation of this measure.

Measurable Outcomes and Evaluation

- 1. Provide training to AU Design Leads, maintenance personnel, and others on AU storm water management preferences, updated Design Standards / Post Construction Storm Water Manual.
- 2. All new and redeveloped AU properties shall develop a storm water management plan to comply with the Design and Construction Standards. A report documenting the implementation or consideration of Low Impact Development and Green Infrastructure shall be reviewed per the Post Construction Storm water Manual by Facilities Management.

2.6 Pollution Prevention / Good Housekeeping for Municipal Operations

Efforts to survey University activities and facilities will continue. These surveys focus on the storage of materials at the variety of areas managed by Facilities Management, Auxiliary Operations, various academic departments and AU Athletic Department.

Part III.B.5.a. of the Permit requires Auburn University to inventory "municipal facilities" including municipal facilities that have a potential to discharge pollutants via storm water runoff, develop strategies to reduce litter, floatables and debris from entering the storm

sewer system from these facilities, develop SOPs detailing good housekeeping practices to be employed at the appropriate municipal facilities, develop an inspection program to evaluate these operations and to develop a good housekeeping training program for municipal facility staff as outlined in the SOP.

Inventory of Municipal Operations

Facilities	Chilled Water Plant 1	Chilled Water Plant 2	District Energy Plant
Management HQ			
Chilled Water Plant 3	Hot Water Plant 1	Hot Water Plant 2	Satellite Steam Plant
Coliseum Steam	44kV Substation	115 kV Substation	Plainsman Park
Plant			
Horse Center	Jordan Hare Stadium	Soccer Complex	Jane B. Moore Field
Hutsell-Rosen Track	Student Ctr. Dinning	Foy Union Dinning	Village Dinning
Terrell Dinning	AG Land Resource	Environmental Health	Housing & Residence
	Management	& Safety Facility	Life HQ
Campus Parking	Campus Roads		
Lots / Decks			

Measureable Outcomes & Evaluation:

- 1. Quantify the amount of floatable materials collected as a result of the successful implementation of the BMPs at these municipal facilities.
- 2. Quantify the number of "municipal facility" inspections performed.
- 3. Provide pollution prevention annual training to municipal facility personnel.
- 4. Revise and update "municipal facility" inventory annually.

BMP Development & Implementation Schedule:

1. Development of SOP for municipal facilities by March 31, 2018. SOP will include inspection frequencies and documentation mechanism.

Responsible Department:

Auburn University RMS & Facilities Management

Spill Prevention Control and Countermeasure (SPCC) Program

AU RMS has developed and maintains the campus SPCC Plan. The Plan calls for the proper storage and management of oil containing equipment. The SPCC Plan identifies the procedures to be followed to regularly (monthly) inspect applicable containers and instructs "oil handling personnel" on the appropriate measures to take in the event of a spill.

Measurable Outcomes and Evaluation:

- 1. Document the number of inspections performed on regulated storage units on an annual basis (SPCC).
- 2. Document the number of preventive maintenance procedures performed on tanks, valves, pumps, pipes, and other equipment.
- 3. Document the number of training presentations performed and the number of employees trained annually.
- 4. Document the annual volume of used oil managed by AU.

Responsible Department:

AU RMS & Facilities Management

Monitoring Plan for Pathogen Impairment

In accordance with Part V of the Permit, AU will continue to evaluate Parkerson Mill Creek (PMC) Watershed for its pathogen impairment. PMC is located in Lee County; the watershed is part of the Chewacla Watershed, in the lower Tallapoosa River Basin. The 9.3 square mile (5,981 acres) watershed contains 21,000 meters (68,500 ft.) of main stem perennial stream and approximately 86,000 meters (282,152 ft.) of tributary stream length. The stream network empties into Chewacla Creek, just south of the H.C. Morgan Water Pollution Control Facility

The watershed includes the City of Auburn, Auburn University and the surrounding areas. The headwaters of PMC are approximately 3,000 meters (9,845.5 ft.) in length and are located on the campus of Auburn University. In 2007, ADEM listed PMC as impaired on Alabama's 303(d) List of Impaired Waters for pathogens from point source and non-point sources, primarily urban runoff and storm sewer connections. As such, AU monitors PMC by performing bacteriological analysis through the AU Water Resource Center's Alabama

Water Watch (AWW) program. The results of the monitoring effort will be reported with the submission of the annual report. Collaboration with the City of Auburn will continue as both entities contain and have influence to this watershed.

REVIEW AND UPDATING SWMPP

AU will review the SWMPP annually in conjunction with the preparation of the annual report required under Part IV, Section B of the General Permit.

The annual report will be submitted to the ADEM for each year of the permit term. Reports are due to ADEM by May 31st of each year and will cover activities for the previous reporting period (April 1- March 31).

The reports consist of:

- Compliance status including:
 - Assessment of the appropriateness of the BMPs
 - Progress towards achieving statutory goals of reducing the discharge of pollutants and protecting water quality
 - Measurable goals for each of the minimum control measures
- Results of information collected and analyzed, if any, during the reporting period.
- Any changes made to the SWMPP since the last annual report and a summary of the storm water activities AU plans to initiate during the next reporting cycle.
- Proposed changes to the SWMPP
- Description and schedule for implementation of additional BMPs that may be necessary based on monitoring results.
- Monitoring data

Annual reports are signed by Mr. Tom McCauley, Environmental Programs Manager Department of Risk Management and Safety and the Storm Water Executive Committee.

Appendix E

Illicit Discharge Detection & Elimination

Incident Log & Dry Weather Screening

April 1, 2017 through March 31, 2018

Date	Location	Observation	Contaminant /Source Activity	Complaint Y/N	Samples Y/N	Corrective Measures Taken
			,			11/14/17 AU Athletics and RMS applied oil dry to affected area an
						vehicle was placed out of order until repairs could be made to
4/14/2017	JH Stadium Gate 1	Tractor leaking oil to pavement	oil	No	No	prevent further release.
5/19/2017	stadium parking deck	ashes into storm sewer during baseball game	charcoal ashes	No	No	Ashes were removed urinal over storm sewer at baseball
						In colaboration with VCOM, Facilities Management, COSAM
						Herpetology and TBS State Lab, it was determined that the die off
						was due to a naturally occurring virus affecting only turtles. VCOM
						evaluated outsourced landscape services and determined that all
		Over a dozen turtles were discovered in the pond				applications were done in accordance with manufacturers
7/21/2017	VCOM pond	located behind VCOM	unknown> ranovirus	No	Yes	recommendations.
						12/6/17 it was determined that site contractor was washing out
						wheelbarrow containing concrete mortar into the storm drain
						within the site's boundaries. 12/6/17, AU Project Manager was
- / /						informed and relayed the observtion to site contractors and told to
9/29/2017	T07-17 Wellness Kitchen	milky white water	concrete mortar	No	Yes	cease the practice immediately.
						10/11/17 Meeting with AU Dining - AU Dining met with mobile
						food venders and could be assessed as much as \$500 per incident.
						Food trucks now are required to maintain equipment in good
						working condition and must maintain oil absorbent on each truck
10/11/2017	Haley/Thach concourse	grease stains from mobile food venders	oil/grease	No	No	and respond to incidental spills daily.
,,		8	- 1, 8,			, ,
						11/7/17 oil dry applied to affected area. The individual has a valid
						AU Parking Permit so vehicle cannont be impounded for leaking oil
		excessive and repeditive release of oil from one				Parking Services rewriting new Rules for 2018 which could include
11/7/2017	Lem Morrison Parking Deck	particular motorcycle using the parking deck.	oil	No	No	measures to address this type of repeditive occurance.
		visitor to campus during a home football game				
		weekend erected a portable tent over storm drain for				
	Quad Residence Hall	use as a bathroom	urine	No	No	Individual was asked to remove the tent upon observation.
12/6/2017	Woodfield Drive	Track out from Performing Arts	sediment	No	No	RMS -> FM Project Manager. Street sweeps deployed
						RMS->FM Project Manager. Site controls were evaluated, controls
		site controls accessisted with ALL Desiret No. 45 070				needed to be strengthened specifically silt fencing , street
1/12/2018	Piggio Dr	site controls associated with AU Project No. 15-079 need attention/repair	sediment	Yes	Yes	sweeping and dewatering procedures. Corrective measures taken relayed to complainant.
1/12/2016	Biggio Dr.	need attention/repair	seament	res	res	relayed to complainant.
						RMS->FM Project Manager. Winter storms and melt created
						challenges for the site. Site evaluated with controls strengthened
1/17/2018	Performing Arts	muddy water leaving site at College	sediment	Yes	Yes	as necessary. Corrective measures taken relayed to complainant.
, , , , , , , , , , , , , , , , , , , ,	0	, ,				,
						RMS->FM Project Manager. High intensity rain event during the
						days prior caused the release of turbid water. Site evaluated with
						controls strengthened as necessary. Turbid discharge determined
						to be caused by the incorrect placement of the site's skimmer
						actually drawing water from the bottom of the pond. Corrective
1/24/2018	Performing Arts	muddy water leaving site at College	sediment	Yes	Yes	measures taken relayed to complainant.

BMP 2 (2017/2018) II	licit Discharge Detection & E	limination			
		sideline chalk from baseball			RMS->Athletics. An employee was disposing of an old bag of sideline chalk when it ripped open. The area around the dumpster was washed down. This should be an isolated instance as they have by practice replaced chalk with spray paint for the lines on the field. It was reinforced with Athletic personnel not to use the
2/7/2018 T07-17 Wellness Kitchen	milky white water	field	No	No	storm drain for disposal.

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N04-09
Today's date: 5/10/17	Time (Military): ひようと
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: South of Rugby Field	

Section 2: Outfall Description

LOCATION	MATI	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	72"x96"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		☐ Fully
	Other:		Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	□ Yes	□ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☑/Moderate	☐ Substantial			

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes No (HNo, Skip to Section 5)

INDICATOR	CHECK if Present		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f	for Both Fl ted to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square 'No $(fNO, Skip \text{ to Section 6})$	ection 6)		(controller (control
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint	aint		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Chan	racterizatio	ion			
☐ Unlikely	Potential (prese	ence of two o.	Potential (presence of two or more indicators) Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	ollection					
1. Sample for the lab?	ن		□ Yes □\n\o			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		If Yes, type:	OBM Caulk dam		
				,		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

ection 1: Background Data

Subwatershed: PMC		Outfall ID: N04-10	
Today's date:	5/10/17	Time (Military):	0830
Rainfall (in.): Last 24 hours:	Last 48 hours:	Form completed by:	PAC
General Location: Extension Loop clos	sest to utility barn		

Section 2: Outfall Description

LOCATION	MAT	ERIAL	S	HAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	15"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:		Other:	☐ Other:		With Sediment: No Partially
	По	- Harries				Fully
]	☐ Concrete		☐ Trapezoid		Depth:	
	☐ Earthen					
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:	
	Other:		☐ Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	⊡∕No	If No, SI	sip to Section 5	**************************************	
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes No (

INDICATOR	CHECK if Present		DESCRIPTION		REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:		□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:		☐ 1 - Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Fioatables -Does Not Include Trash!!		Sewage (Toilet Paper,	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Ш ::	1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f s that are not rela	or Both Fleed to flow pr	g and Non-Flowing (Outfalls (JfNo, Skip to Section 6)	n 6)	,	
INDICATOR	CHECK if Present	Present	DESCRIPTION	NOI		COMMENTS	IS
Outfall Damage			Spalling, Cracking or Chipping Corrosion	Peeling Paint			and the second s
Deposits/Stains			Oily Flow Line Paint	Other:			
Abnormal Vegetation			Excessive Inhibited				
Poor pool quality			Odors Colors Ploatables Suds Excessive Algae	bles Oil Sheen			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green	1 Other:			
Section 5: Overall Outfall Characterization	Outfall Char	racterizatic	0n				
☐ Unlikely □	Potential (prese	ence of two or	☐ Potential (presence of two or more indicators) ☐ Suspect	(one or more indi	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	ollection						
1. Sample for the lab?	i		☐ Yes ☐ No				
2. If yes, collected from:	om:		☐ Flow ☐ Pool				
3. Intermittent flow trap set?	rap set?		☐ Yes ☐ No If	If Yes, type: OBM	M Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N05-08
Today's date: 5/10/17	Time (Military): 0908
Rainfall (in.): Last 24 hours:	Form completed by:
General Location: Hemlock from Band Practice Field	

Section 2: Outfall Description

LOCATION	MAT	ERIAL	SH	SHAPE		SUBMERGED
	⊠ RCP	□СМР	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	48"	☐ No ☐ Partially
Closed Pipe	☐ Steel		☐ Box	☐ Triple		Fully
	Other:		☐ Other:	☐ Other:		With Sediment;
						☐ Partially ☐ Fully
	☐ Concrete	Concrete Trapezoid				
	☐ Earthen		☐ Parabolic		Depth:	
□ Open drainage	☐ rip-rap				Top Width:	
	☐ Other:			Bottom Width:		
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	₩ Yes	□ No	If No, Ski	p to Section 5		- Anna Carlotte
Flow Description (If present)	Trickle	☐ Moderate	☐ Substantial			

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

Rancidsour Petroleum/gas □ 1 - Paint □ 2 - Easily detected □ 3 - □ 0ther: □ Change □ Red □ Other: □ Change □ Red □ Other: □ Change □ Red □ Other: □ See severity □ 1 - Fight cloudiness □ 2 - Chearly visible in □ 3 ample bottle □ 3 cloudy □ 1 - Few/slight, origin □ 1 - Few/slight,		Present		DESCRIPTION		REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
ip to Section 6) client Paint colors in sample bottle in sample bottle clight cloudiness client land to byious provide bottle	Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1-I	aint -	2 – Easily detected	3 – Noticeable from a distance
ip to Section 6) colorigin (e.g., possible suds or oil sheen) colo	Color		☐ Clear ☐ Green	☐ Gray ☐ Red	88	Faint colors in mple bottle	\square 2 — Clearly visible in sample bottle	3 – Clearly visible in outfall flow
ip to Section 6) celing Paint Oil Sheen Other: Other: Other: Other: Comments C	Turbidity			See severity		Slight cloudiness	☐ 2 — Cloudy	☐ 3 — Opaque
eeling Paint eeling Paint Oil Sheen Other: Orther: Tother: Tother: Or more indicators with a severity of 3) Sype: OBM Caulk dam	Floatables es Not Include Trash!!		Sewage (T		_ 1 _ 1 _ 1 not obv.	Few/slight; origin ious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Spalling, Cracking or Chipping	ion 4: Physical Ir	ndicators f	for Both Fl ted to flow pr	Towing and Non-Flowing Ou resent? ☐ Yes ☑No	ıtfalls fNo, Skip to Section 6)			
Spalling, Cracking or Chipping	INDICATOR	CHECK if I	Present	DESCRIP	TION		COMMENI	S
Oily Flow Line Paint Other: Excessive Inhibited Colors Floatables Oil Sheen Suds Excessive Algae Other: Colors Brown Orange Green Other: core indicators) Suspect (one or more indicators with a severity of 3) es Fros cow Pool inw HYes, type: OBM	Outfall Damage				i			
Excessive Inhibited Odors Colors Floatables Oil Sheen Suds Colors Cheen Other: Brown Corange Green Other: Brown Corange Cheen Other: Core indicators Suspect (one or more indicators with a severity of 3) ces Core cov Pool cov If Yes, type: OBM Caulk dam	Deposits/Stains			☐ Flow Line	Other:			
Odors Colors Floatables Other: Brown Crange Green Other: Brown Suspect (one or more indicators with a severity of 3) Core indicators) Suspect (one or more indicators with a severity of 3) es If Yes, type: OBM cow If Yes, type: OBM	ormal Vegetation							
Brown □ Orange □ Green □ Other: core indicators) □ Suspect (one or more indicators with a severity of 3) es □ No cow □ Pool cs □ No If Yes, type: □ OBM □ Caulk dam	oor pool quality			☐ Colors ☐ Excessive Alg				
ore indicators)	e benthic growth			☐ Orange				
(presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Yes Yes Flow Pool Yes No Yes OBM Caulk dam	on 5: Overall O	utfall Cha	racterizati	ion				
☐ Yes ☐ No ☐ Flow ☐ Pool ☐ Yes, type: ☐ OBM		otential (pres	ence of two c		st (one or more indicator	rs with a severity o		
Tyes In No If Yes, type: □ OBM	ion 6: Data Colle	ection						
☐ Flow ☐ Pool ☐ Yes ☐ Yes ☐ OBM ☐ Yes ☐ OBM	Sample for the lab?							
☐ Yes ☐ No If Yes, type: ☐ OBM	If yes, collected from:			 				
	Intermittent flow trap s	set?		No □	If Yes, type: 🔲 OBM	Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N05-09
Today's date: 5/10/17	Time (Military): $\mathcal{O} \mathcal{S} \neq S$
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Mr.C.
General Location: Extension Loop 3 rd in line from utility barn	EPAIRCE NEW PIC NEEDED

Section 2: Outfall Description

LOCATION	МАТ	ERIAL	SI	IAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	15"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		Вох	☐ Triple		☐ Fully
	Other:		☐ Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	☐ Yes	☑ No	If No, Sk	ip to Section 5	A	
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

(If No. Skip to Section 5)

INDICATOR	CHECK if Present		DESCRIPTION		RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas	gas	☐ 1 — Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Cléarly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		1 – Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators	for Both F ated to flow p	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ing Outfalls (If No, Skip to Section 6)	ton 6)		
INDICATOR	CHECK if Present	Present		DESCRIPTION		COMMENTS	TS.
Outfall Damage			Spalling, Cracking or Chipping Corrosion	oing 🔲 Peeling Paint			
Deposits/Stains			Oily Tlow Line Paint	aint 🔲 Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited				
Poor pool quality			☐ Odors ☐ Colors │ ☐ ☐ Suds ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange	Green Other:			
Section 5: Overall Outfall Characterization	II Outfall Cha	ıracterizati	noi				
☐ Unlikely] Potential (pres	sence of two	Potential (presence of two or more indicators)	Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	Jollection						
Sample for the lab?	6?		☐ Yes ☐ No	Value of the second sec			
If yes, collected from:	rom:	1_1	☐ Flow ☐ Pool				
Intermittent flow trap set?	trap set?		☐ Yes ☐ No	If Yes, type:	OBM Caulk dam	THE REAL PROPERTY OF THE PROPE	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N05-10
Today's date: 5//0	Time (Military): 0839
Rainfall (in.): Last 24 hours:	Form completed by:
General Location: Extension Loop 2 nd in line from utility barn	

Section 2: Outfall Description

LOCATION	МАТЕ	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	18"	☐ No ☐ Partially
Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:	A A Marie Management	Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
	☐ Concrete	***		,		
	☐ Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	☐ rip-rap		☐ Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	☐ Yes ☑ No If No, Skip to Section 5					
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

No

INDICATOR	CHECK if Present	:	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □Other:	☐ 1 — Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators s that are not rela	for Both Flated to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ction 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	Ņ
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	int		
Deposits/Stains		<u></u>	□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	net		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	uo			
☐ Unlikely [] Potential (pres	sence of two c	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of 3) \square Obvious	
Section 6: Data Collection	Ollection					
1. Sample for the lab?	3?		□ Yes			
2. If yes, collected from:	rom:	I I	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N05-13
Today's date: $5/10/17$	Time (Military): 29t 5
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: PWC
General Location: Hemlock next to RFL monitoring well 104	

LOCATION	MATERIAL		CL	IAPE	DIMENSIONS (TN.)	CURWERCER		
LUCATION	1.191	EKIAL	ЭП	APE	DIMENSIONS (IN.)	SUBMERGED		
	⊠ RCP	☐ CMP	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:		
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"	☐ No ☐ Partially		
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		Fully		
	Other:		☐ Other:	☐ Other:		With Sediment:		
						☐ Partially ☐ Fully		
	☐ Concrete							
	☐ Earthen		☐ Trapezoid		Depth:			
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:			
	[trb.rab		Other:		Bottom Width:	<i>(((((((((((((((((((((((((((((((((((((</i>		
	Other:			4224	Bottom 17 Idam			
☐ In-Stream	(applicable w	hen collecting	collecting samples)					
Flow Present?	☐ Yes	⊡ No	If No, Ski	ip to Section 5				
Flow Description (If present)	☐ Trickle	☐ Moderate	: Substantial					

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Ves No	Indicators for Present in the f	for Flowing	g Outfalls Only s			
INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	\square 3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2-Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	Sewage (Toilet Paper, etc.) ☐ SudsPetroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	I Indicators 1 that are not rela	for Both F.	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	o Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	5
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	ıg Paint		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oi ☐ Suds ☐ Excessive Algae ☐ Of	□ Oil Sheen □ Other:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:	ther:		
Section 5: Overall Outfall Characterization	Outfall Cha	racterizati	(on			
Unlikely		sence of two (Potential (presence of two or more indicators) . Suspect (one or m	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Mection					
1. Sample for the lab?	~:		□ Yes ⊡'No			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

OBM

If Yes, type:

☐ Pool % | |

☐ Flow ☐ Yes

Intermittent flow trap set? If yes, collected from:

7

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N06-02
Today's date: 5/10/17	Time (Military): 0.85ϕ
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Phc
Concret Location: Extension Location within the second control of	
General Location: Extension Loop 4th & last from utility barn $(9000000000000000000000000000000000000$)

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	21"	☐ No ☐ Partially ☐ Fully
Closed Pipe	☐ Steel		□Box	☐ Triple		
	Other:		Other:	☐ Other:		With Sediment: No Partially Fully
	☐ Concrete			200		
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		☐ Parabolic ☐ Other:		Top Width: Bottom Width:	
	Other:	_			Bottom Widm.	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	Ū∕No	If No, Skij	o to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes No

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1 – Faint	2 – Basily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	□ Sewage (Toilet Paper, etc.)□ Suds□ Petroleum (oil sheen)□ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	al Indicators	for Both Fi	Rowing and Non-Flowing Outfalls present?	Section 6)		
INDICATOR	CHECK if Present	Present	DESCR		COMMENTS	TS
Outfall Damage		- -1	Spalling, Cracking or Chipping Peeling Paint	Paint		
Deposits/Stains			Oily Plow Line Paint Other:			
Abnormal Vegetation			□ Excessive □ Inhibited			
Poor pool quality			Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	Sheen rr:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:	1I.		
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	ion			
☐ Unlikely □	Potential (pres	sence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	ollection					
1. Sample for the lab?	ė		☐ Yes ☐ No			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		☐ Yes ☐ No If Yes, type:	☐ OBM ☐ Caulk dam	And the second s	
			1			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: N07-05
Today's date: $\leq /10$	Time (Military): 0915
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: This &
General Location: Satellite Uplink near Samford Ave LUNIVEY ANCE A	22 1 5100 of Smits 20 to other?

	7						
LOCATION	MAT	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□СМР	☑ Circular	☑ Single	Diameter/Dimensions:	In Water:	
	☐ PVC	HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially	
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully	
	Other:		☐ Other:	☐ Other:		With Sediment: No Partially	
		40.				☐ Fully	
☐ Open drainage	☐ Concrete ☐ Earthen		☐ Trapezoid		Depth:		
Open dramage	☐ rip-rap	1	Other:		Top Width:		
	Other:			Bottom Width:			
☐ In-Stream	(applicable w	then collecting s	samples)				
Flow Present?	☐ Yes	☑Ńo	If No, Ski	ip to Section 5			
Flow Description (If present)	☐ Trickle	☐ Moderate	e ☐ Substantial	VALUE WAS			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		ă	DESCRIPTION		REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Other:	r 🔲 Petroleum/gas	l/gas	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		1 – Slight cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	Sewage (Toilet Paper, etc.)	Suds Other:		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	al Indicators 1 s that are not rela	for Both FI	lowing and	Non-Flow	ing Outfalls (If No, Skip to Section 6)	tion 6)	-	
INDICATOR	CHECK if Present	Present		ial	DESCRIPTION		COMMENTS	LS
Outfall Damage			Spalling, Cl	Spalling, Cracking or Chipping Corrosion	ping Peeling Paint	nt		
Deposits/Stains			□ Oily □ Fi	☐ Flow Line ☐ F	☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Jgae ☐ Other:	ux		
Pipe benthic growth			П Вгомп	☐ Orange	Green Other:			
Section 5: Overall Outfall Characterization	I Outfall Cha	racterizati	uo					
☐ Unlikely ☐	Potential (presence of two or more indicators)	ence of two o	r more indicat	ors)	•	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	Ollection							
1. Sample for the lab?	52		☐ Yes	o N D				
2. If yes, collected from:	.com:		Flow	☐ Pool				
3. Intermittent flow trap set?	trap set?		☐ Yes	N	If Yes, type:	☐ OBM ☐ Caulk dam	***************************************	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P4-30
Today's date: 5/10/17	Time (Military): 0925
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Thic
General Location: Thach across from Farm House Frat	

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	58"x38"	│ │ │ No │ │ │ Partially
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:		Other:	Other:		With Sediment:
					575570	Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		Parabolic Other:		Top Width:	
	Other:		Outer		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☑ Yes	□ No	If No, Skij	o to Section 5		
Flow Description (If present)	☐ Trickle	✓ Moderate	☐ Substantial	· · · · · · · · · · · · · · · · · · ·		and the second s

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Ves Town On The Are Any Physical Indicators Present in the flow? Ves Town On The Are Any Physical Indicators Present in the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow? Ves Town On The Area of Present In the flow On The Area of Present In the Indian On The Area of Present In the Indian On The Area of Present In the Indian On The Indian	DESCR	□ Sewage □ Rancid/sour □ Petroleum/gas □ 1 - Faint □ 2 - Easily detected □ 3 - Noticeable from a distance	Clear Brown Gray Tellow □ 1 - Faint colors in □ 2 - Clearly visible in □ 3 - Clearly visible in outfall flow sample bottle sample bottle	See severity \square 1 – Slight cloudiness \square 2 – Cloudy \square 3 – Opaque	□ Sewage (Toilet Paper, etc.) □ Suds □ 1 - Few/slight, origin □ 2 - Some; indications of e.g., obvious oil sheen, oil sheen) □ 2 - Some; indications of e.g., obvious oil sheen, origin clear (e.g., obvious oil sheen, oil sheen) □ A Some; origin clear (e.g., obvious oil sheen, oil sheen, oil sheen, oil sheen)	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square \No $(fNo, Skip to Section 6)$	CHECK if Present DESCRIPTION COMMENTS	Spalling, Cracking or Chipping Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other:	on \square Excessive \square Inhibited	Odors Colors Oil Sheen Oil Sheen Oil Suds Excessive Algae Other:	th \square Brown \square Orange \square Green \square Other:	Section 5: Overall Outfall Characterization	☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious	a Collection	le lab?	ted from:	
al Indicator tors Present in t	CHECK if Present					tal Indicator is that are not a	CHECK						II Outfall C	Potential	Collection	3b?	from:	The same of the sa
Section 3: Physica Are Any Physical Indica	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physic	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overs	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Outfall ID: P04-31
Time (Military): 0930
Form completed by:

Vanish 11 11 11 11 11 11 11 11 11 11 11 11 11					roley and the state of the stat	
LOCATION	MATE	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water: ☐ No
	☐ PVC	☐ HDPE	☐ Eliptical	Double	36"	☐ Partially ☐ Fully
Closed Pipe	☐ Steel		☐ Box	☐ Triple		
	Other:		☐ Other:	☐ Other:		With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap		☐ Trapezoid		Depth:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	⊠ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No (

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	□ 2 – Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	 □ Sewage (Toilet Paper, etc.) □ Suds □ Petroleum (oil sheen) □ Other: 	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators 1 s that are not rela	for Both FI ated to flow pi	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)	stion 6)		
INDICATOR	CHECK if Present	Present	DESCR		COMMENTS	TS
Outfall Damage		F-1	Spalling, Cracking or Chipping Paint Corrosion	nt		
Deposits/Stains		 ,	□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ue		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	uo			
☐ Unlikely	Potential (pres	sence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	ollection					
1. Sample for the lab?	3?		□ Yes □ 'No			
2. If yes, collected from:	com:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P04-32
Today's date: 5/10/19	Time (Military): 0932
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: This i
	,
General Location: West of DEP	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□ PVC	HDPE	☐ Eliptical	☐ Double	48"	☐ No ☐ Partially	
Closed Pipe	☐ Steel		☐ Box	☐ Triple	٠	☐ Fully	
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully	
	☐ Concrete				A CONTRACTOR OF THE CONTRACTOR		
☐ Open drainage	☐ Earthen		☐ Trapezoid		Depth:		
			☐ Parabolic		Top Width:		
	☐ rip-rap		☐ Other:		Bottom Width:		
	Other:	-	The state of the s				
☐ In-Stream	(applicable wh	en collecting s	ing samples)				
Flow Present?	Yes	□ No	If No, Ski _l	o to Section 5		PHH.	
Flow Description (If present)	Trickle	Moderate	☐ Substantial				

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

INDICATOR	Check II Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	:al Indicators f	or Both Fl	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Paint Corrosion	Paint		
Deposits/Stains			Oily Plow Line Paint Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	Sheen ar:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:	.T:		
Section 5: Overall Outfall Characterization	II Outfall Char	racterizatic	uo			
☑ Unlikely	Potential (prese	ence of two or	(presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	Jollection					
1. Sample for the lab?	9.		☐ Yes ☐No			Committee Commit
2. If yes, collected from:	rom:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		Yes If Yes, type:	OBM Caulk dam		
						ÿ

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P0-4-37
Today's date: 5/10/17	Time (Military): ごりょく
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
Thach @ Farm House	
I nach (W rath House	

LOCATION	MAT	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
Į.	⊠ RCP	□ СМР	☑ Circular	☐ Single	Diameter/Dimensions:	In Water:
1	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	60"	☐ No ☐ Partially
☐ Closed Pipe	☐ Steel		☐ Box	☐ Triple		
·	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially
						☐ Fully
	☐ Concrete		□ m			
	☐ Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	□ гір-гар		Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	☐ Yes	□ No	If No, Ski	ip to Section 5		
Flow Description (If present)	☐ Trickle	Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

Are Any Physical Indicators Present in the flow?	ors Present in the	flow? 🗌 Yes	s No	(If No, Sk	(If No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCI	CRIPTION		RE	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	Rancid/sour Petroleum/gas	Petroleum/g	as	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color	Ě	Clear Green	☐ Brown ☐ Orange	☐ Ģray ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	Ò		Se	See severity		☐ 1 — Slight cloudiness	□2-Cloudy	3 - Opaque
Floatables -Does Not Include Trashi!		Sewage (Toilet Paper	, etc.)	Suds Other:		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No, Sk.	I Indicators f	for Both Fl ted to flow pr	lowing and Nor	Von-Flowin	ng Outfalls (JfNo, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	Present			DESCRIPTION		COMMENTS	S
Outfall Damage		-	Spalling, Crac	Spalling, Cracking or Chipping Corrosion	ng Peeling Paint	-	The state of the s	
Deposits/Stains			□ Oily □ Flow	w Line Paint	int Other:			
Abnormal Vegetation			☐ Excessive ☐	☐ Inhibited				
Poor pool quality	N		Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen ae ☐ Other:		STAGNANT	
Pipe benthic growth			☐ Brown] Orange	Green Other:			-
Section 5: Overall Outfall Characterization	Outfall Cha	racterizatio	on					
☐ Unlikely	Potential (presence of two or more indicators)	ence of two o	r more indicator		Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 6: Data Collection	llection							
1. Sample for the lab?			☐ Yes	on E				
2. If yes, collected from:	m:		Flow	☐ Pool				
3. Intermittent flow trap set?	ap set?		☐ Yes	°N 🗆	If Yes, type:	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P07-16
Today's date: 5/10/19	Time (Military): 6 945
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: NE Corner of Wire and Samford	

			7	manager and the second		
LOCATION	MATI	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"	□ No □ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		
	Other:		Other:	☐ Other:		With Sediment: ☐ No ☐ Partially
						☐ Fully
Con during	☐ Concrete ☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	□ гір-гар		☐ Parabolic ☐ Other:		Top Width:	
	Other:				Bottom Width:	
☐ In-Stream	(applicable wi	hen collecting s	samples)			
Flow Present?	☐ Yes	∐√No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			;

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators is that are not rela	for Both Fl	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	tion 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping	ıt		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			□ Odors □ Colors □ Floatables □ Oil Sheen □ Suds □ Excessive Algae □ Other:	u:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	racterizati	uc			
☐ Unlikely	Potential (pres	ence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 6: Data Collection	Ollection					
1. Sample for the lab?	??		☐ Yes ☐ No			
2. If yes, collected from:	.om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		
100 miles (100 Miles)						

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Outfall ID: P07-18
Time (Military): 0950
Form completed by:

LOCATION	MATI	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□СМР	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□PVC	☐ HDPE	☐ Eliptical	☐ Double	42"	☐ No ☐ Partially	
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		Fully	
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No	
						Partially Fully	
	☐ Concrete						
☐ Open drainage	☐ Earthen		☐ Trapezoid		Depth:		
	☐ rip-rap		☐ Parabolic		Top Width:		
			Other:		Bottom Width:		
	Other:						
☐ In-Stream	(applicable when collecting samples)						
Flow Present?	☐ Yes	⊘ No	If No, Skij	o to Section 5			
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial				

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P08-08
Today's date: 5/10/17	Time (Military): /0/5
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: South of McWorter Center	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	15"	☐ No ☐ Partially	
Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully	
	Other:	<u></u>	Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully	
	☐ Concrete						
	☐ Earthen		☐ Trapezoid		Depth:		
□ Open drainage	☐ rip-rap		Parabolic		Top Width:		
	Other:		Other:		Bottom Width:		
☐ In-Stream	(applicable when collecting samples)						
Flow Present?	Yes I No If No, Skip to Section 5				- Carlotte		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial				

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	☐ I — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	□ 2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	Sewage (Toilet Paper, etc.)	1 – Few/slight, origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	ul Indicators 1 s that are not rela	for Both Fl	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes You (1/10/2), Skip to Section 6	stion 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage		I	Spalling, Cracking or Chipping Peeling Paint Corrosion	nt		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other.	Control of the contro		
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	racterizati	uo			
☐ Unlikely □	Potential (pres	ence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	ollection					
1. Sample for the lab?	ن		□ Yes □ No			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: P09-02
Today's date: 5/10/17	Time (Military): /P25
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: East of Softball Field	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	RCP	⊠ CMP	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□ PVC	HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially	
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully	
	Other:		☐ Other:	Other:	-	With Sediment: ☐ No	
						☐ Partially☐ Fully	
	☐ Concrete						
	☐ Earthen		☐ Trapezoid		Depth:		
□ Open drainage	☐ rip-rap		Parabolic		Top Width:		
	Other:	_	Other:		Bottom Width:		
☐ In-Stream	(applicable when collecting samples)						
Flow Present?	☐ Yes	□No	If No, Skij	p to Section 5			
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial		The state of the s		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: Q3-30
Today's date: 5/10/17	Time (Military): 5940
	Form completed by: The C
General Location: Sigma Nu Frat	

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:		
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	30"	☐ No ☐ Partially		
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully		
	Other:		☐ Other:	☐ Other:		With Sediment:		
						☐ Partially ☐ Fully		
	☐ Concrete							
	Earthen	•	Trapezoid		Depth:			
☐ Open drainage	☐ rip-rap		Parabolic		Top Width:			
	Other:		Other:		Bottom Width:			
☐ In-Stream	(applicable when collecting samples)							
Flow Present?	Yes Yes	☐ No	If No, Ski	p to Section 5				
Flow Description (If present)	Trickle	☐ Moderate	☐ Substantial					

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Basily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	\square 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	□ 2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators 1 s that are not rela	for Both Fl ited to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo, Skip \ to Section \ 6)$	tion 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	11		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality	À	. , ,	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ч		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	Outfall Cha	racterizati	u(
☐ Unlikely	Potential (pres	ence of two o	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	ndicators with a severity	of 3)	
Section 6: Data Collection	ollection					
1. Sample for the lab?	į.		□ Yes ☑No			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		Yes No If Yes, type:	OBM Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: Q07-19
Today's date: 5/19/17	Time (Military): 1058
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Dw.C.
General Location: East of Hutsell Track	

LOCATION	MAT	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"	☐ No ☐ Partially	
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		∏ Fully	
	Other:		☐ Other:	☐ Other:		With Sediment: No Partially	
	l					☐ Fully	
	☐ Concrete		Tropogoid				
	☐ Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	☐ rip-rap		Parabolic Other:		Top Width:		
	Other:			Bottom Width:			
☐ In-Stream	(applicable wi	(applicable when collecting samples)					
Flow Present?	☐ Yes	ŬNo	If No, Ski,	ip to Section 5		- To	
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial	100			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2 - Cloudy	3 - Opaque
. Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	 □ Sewage (Toilet Paper, etc.) □ Suds □ Petroleum (oil sheen) □ Other: 	1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f	for Both Flued to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ction 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	Ņ
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	nt		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth	П		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	racterizati	uo			
☑ Unlikely □	Potential (pres	ence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	ancarios ancherine
Section 6: Data Collection	ollection					
1. Sample for the lab?	ان		□ Yes			
2. If yes, collected from:	.cm:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		If Yes, type:	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

'ection 1: Background Data

Subwatershed: PMC	Outfall ID: Q08-07
Today's date: 5/10/17	Time (Military): /24/5
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: The
General Leasting: NE correct of Sanfard and Division	
General Location: NE corner of Samford and Biggio	

LOCATION	MAT	ERIAL	Sł	HAPE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:	
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"	☐ No ☐ Partially	
Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully	
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully	
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	:	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:		
☐ In-Stream	(applicable w	hen collecting s	collecting samples)				
Flow Present?	☐ Yes	☑No	If No, Sk	ip to Section 5			
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			**************************************	

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DE	DESCRIPTION		REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Other:	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	gas	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	☐ Gray ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint colors in sample bottle	\square 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			7	See severity		☐ 1 — Slight cloudiness	2-Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	Suds Other:		☐ 1 — Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	al Indicators	for Both Fl	lowing and	Non-Flow Yes	ing Outfalls (¿f/No, Skip to Section 6)	:tion 6)		
INDICATOR	CHECK if Present	Present			DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cr	Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint	nt		
Deposits/Stains			☐ Oily ☐ Flow	ow Line 🔲 Paint	aint Other:			
Abnormal Vegetation			☐ Excessive [Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Igae ☐ Other:	ue		
Pipe benthic growth			☐ Brown	☐ Orange	☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	I Outfall Cha	racterizati	on					
☐ Unlikely □	Potential (presence of two or more indicators)	ence of two o	or more indicato	ors)	Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Ollection							
1. Sample for the lab?	ىن		☐ Yes	N.				Anti-translation (CAMA)
2. If yes, collected from:	rom:		☐ Flow	☐ Pool				
3. Intermittent flow trap set?	trap set?		□ Yes	ON [If Yes, type:	OBM Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: R07-13
Today's date: 5/10/17	Time (Military): //08
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: , , , , , ,
General Location: Biggio South of Martins Aquatic center	

LOCATION	MATI	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	36"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		Вох	☐ Triple		☐ Fully
	Other:		☐ Other:	Other:		With Sediment: No Partially
No. 10 10 10 10 10 10 10 10 10 10 10 10 10			Wikidoo.			☐ Fully
	Concrete		☐ Trapezoid		Deuth	
	☐ Earthen		☐ 11apezoid		Depth:	
☐ Open drainage	☐ rip-rap		☐ Parabolic ☐ Other:		Top Width:	
	Other:				Bottom Width:	
☐ In-Stream	(applicable wl	nen collecting s	amples)		A STATE OF THE STA	
Flow Present?	☐ Yes	⊠No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \square Yes \square No (fNo, Skip to Section 5)

INDICATOR	CHECK if Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Fioatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	1 – Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f	for Both Fl	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	stion 6)		
INDICATOR	CHECK if Present	Present	DESCR		COMMENTS	S
Outfall Damage		portunal	Spalling, Cracking or Chipping 🔲 Peeling Paint Corrosion	nt		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	II Outfall Cha	racterizati	uo			
Unlikely [Potential (pres	ence of two o	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	Jollection					
1. Sample for the lab?	55		□ Yes □ Tho			
2. If yes, collected from:	rom:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: R07-14
Today's date: 5/10/14	Time (Military): //15
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: Biggio South of Martins Aquatic Center (street runoff)	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
	☐ Concrete			3444		
	☐ Earthen		☐ Trapezoid		Depth:	
□ Open drainage	☐ rip-rap		Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	☐ Yes	☑ No	If No, Skij	to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?
\[\Boxed{\text{Towning Outfalls Only}} \]

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	□ Sewage (Toilet Paper, etc.)□ Suds□ Petroleum (oil sheen)□ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f	for Both F.	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (HNo, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping	ıt		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	u:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Chai	racterizati	no			
☐ Unlikely] Potential (prese	ence of two c	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	ndicators with a severity	of3)	
Section 6: Data Collection	ollection					
1. Sample for the lab?	3?		□ Yes □ No			
2. If yes, collected from:	.om:		☐ Flow ☐ Pool		And the second s	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

% | |

☐ Yes

3. Intermittent flow trap set?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: R07-15
Today's date: 70 5/10/14	Time (Military): // 30
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Dw C
General Location: Biggio South of Martins Aquatic Center	
General Eccation. Diggio South of Martins Aquatic Center	

LOCATION	MATI	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED			
	☐ RCP	☐ CMP	⊠ Circular	☑ Single	Diameter/Dimensions:	In Water:			
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	72"	│ │ │ No │ │ Partially			
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully			
	Other:		Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully			
William Control of the Control of th	☐ Concrete								
	☐ Earthen		☐ Trapezoid		Depth:				
☐ Open drainage	☐ rip-rap	į	☐ Parabolic		Top Width:				
	Other:	***************************************	Other:		Bottom Width:				
☐ In-Stream	(applicable when collecting samples)								
Flow Present?	☑ Yes	□ No	If No, Ski	p to Section 5					
Flow Description (If present)	☐ Trickle	Moderate	Substantial			· · · · · · · · · · · · · · · · · · ·			

wing Outfalls Only Yes Mo (If No, Skip to Section 5)	DESCR	vage □ Rancid/sour □ Petroleum/gas □ 1 - Faint □ 1 - Faint □ 2 - Easily detected □ 3 - Noticeable from a distance	tar \square Brown \square Gray \square Yellow \square 1 – Faint colors in sample bottle sample bottle sample bottle sample bottle contrail flow	See severity \Box 1 – Slight cloudiness \Box 2 – Cloudy \Box 3 – Opaque	□ Sewage (Toilet Paper, etc.) □ Suds □ 1 – Few/slight; origin □ 2 – Some; indications of origin (e.g., obvious oil sheen, suds, or floating sanitary materials) □ 2 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	□ Oily □ Flow Line □ Paint □ Other:	□ Excessive □ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	rization	two or more indicators) Suspect (one or more indicators with a severity of 3)		□ Yes □ No	☐ Flow ☐ Pool	☐ Yes ☐ No If Yes, type: ☐ OBM ☐ Caulk dam
<u> </u>	DESCRIPTION		☐ Brown ☐ Orange	See severity	, etc.)	h Flowing and Non-Flowing we present?		l	☐ Flow Line				zation					
Section 3: Physical Indicators for Flowing Outfalls On Are Any Physical Indicators Present in the flow? Yes Yes	CHECK if Present	Sewage 🗆 Sulfide	Clear		□ Sew	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	CHECK if Present						Section 5: Overall Outfall Characterization	Potential (presence of two or more indicators	Collection	1b?	from:	/ trap set?
Section 3: Physical Are Any Physical Indica	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physic	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overa	☐ Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

200

Section 1: Background Data

Outfall ID: R07-16
Time (Military): /3/0
Form completed by: The C

LOCATION	MATE	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED			
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:			
	□ PVC	HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially			
⊠ Closed Pipe	☐ Steel	ļ	□Box	☐ Triple		☐ Fully			
	Other:	MARKATONA	Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully			
	☐ Concrete								
По	☐ Earthen		☐ Trapezoid		Depth:				
☐ Open drainage	☐ rip-rap	I	Parabolic		Top Width:				
	Other:	_	Other:		Bottom Width:				
☐ In-Stream	(applicable wl	hen collecting s	ng samples)						
Flow Present?	☐ Yes	₪Ńo	If No, Skij	p to Section 5					
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial						

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes No

INDICATOR	CHECK if Present		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 - Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper.	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	I Indicators f that are not rela	for Both Fl ted to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo, Skip \ to Section \ 6)$	ction 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S.
Outfall Damage			Spalling, Cracking or Chipping Peeting Paint	nt		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ua		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	Outfall Char	racterizatic	n(
☐ Unlikely □	Potential (prese	ence of two or	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3)	
Section 6: Data Collection	Hection					
Sample for the lab?			□ Yes			
If yes, collected from:	m:		☐ Flow ☐ Pool			
Intermittent flow trap set?	ap set?		☐ Yes ☐ No If Yes, type: ☐ (☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: S07-12
Today's date: 3/10/17	Time (Military): 13 40
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Zuc
General Location: Coliseum (smaller round pipe on the left)	
General Location, Conseum (smaller found pipe on the left)	

				The state of the s		
LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	48"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		Fully
	Other:		Other:	☐ Other:	`	With Sediment: ☐ No
						☐ Partially ☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
In-Stream	(applicable wh	ien collecting s	amples)	**************************************		
r'low Present?	☐ Yes	☑ No	If No, Skij	o to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

tion 3: Physical Indicators for Flowing Outfalls Only My Physical Indicators Present in the flow? ☐ Yes ☐ No ☐ (FNo. S.) INDICATOR CHECK if Present Color Color Turbidity Floatables Trash! ION 4: Physical Indicators for Both Flowing and Non-Flowing Physical indicators that are not related to flow present? Check if Present Countal Damage ☐ Sewage (Toilet Paper, etc.) ☐ Suds Countall Damage ☐ Check if Present ☐ Oily ☐ Flow Line ☐ Phonomal Vegetation ☐ ☐ Consoin ☐
Section 6: Data Collection 1. Sample for the lab? 2. Three collection 3. Three collection 4. Three collection 5. Three collection 6. Three collection 7. Three collection 8. Suspect (one or more indicators with a severity of 3) 9. Three collection 9. Three collection 9. Three collection
(presence of two or more indicators)
(presence of two or more indicators) Suspect (one or more indicators with a severity of 3)
Unlikely L Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)
ection 5: Overall Outfall Characterization
☐ Brown ☐ Orange ☐ Green
☐ Odors ☐ Colors ☐ Floatables ☐ Suds ☐ Excessive Algae
□ Excessive □
☐ Oily ☐ Flow Line ☐ Paint
Spalling, Cracking or Chipping
CHECK if Present DESCRIPTION
ection 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls $\overline{\psi}$ physical indicators that are not related to flow present? $\overline{\psi}$ ψ
□ Sewage (Toilet Paper, etc.) □ Suds □ 1 - Few/slight; origin □ 2 - Some; indications of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of obvious □ 1 - Few/slight; origin sheen □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin of origin (e.g., possible suds or oil sheen) □ 1 - Few/slight; origin of origin or origin of origin of origin of origin of origin of origin or
See severity \Box 1 - Slight cloudiness \Box 2 - Cloudy
□ Clear □ Brown □ Gray □ Yellow □ 1 - Faint colors in sample bottle □ 2 - Clearly visible in sample bottle
☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 1—Faint ☐ 2—Easily detected ☐ 2—Easily detected
CHECK if Present DESCRIPTION
ection 3: Physical Indicators for Flowing Outfalls Only e Any Physical Indicators Present in the flow? \square Yes \square No $(f/No, Stip to Section 5)$

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-13
Today's date: 5/10/19	Time (Military): 1325
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: Purc
General Location: Coliseum (larger right pipe)	
(-0-1-7-7)	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
	⊠ RCP	□СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:		
	□ PVC	HDPE	☐ Eliptical	☐ Double	96"x72"	☐ No ☐ Partially		
⊠ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		Fully		
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially		
						Fully		
	☐ Concrete							
	☐ Earthen		☐ Trapezoid		Depth:			
☐ Open drainage	☐ rip-rap		☐ Parabolic ☐ Other:		Top Width:			
	Other:	_			Bottom Width:			
☐ In-Stream	(applicable wh	le when collecting samples)						
Flow Present?	Yes	□No	If No, Ski _l	o to Section 5	DOWNS AND A STATE OF THE STATE	A CONTRACTOR OF THE CONTRACTOR		
Flow Description (If present)	☐ Trickle	☑Moderate	☐ Substantial					

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes No

INDICATOR	CHECK if Present		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	<u>`</u>		See severity	☐ 1 – Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (7.	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators is that are not rela	for Both F	g and Non-Flowing (Outfalls (JfNo, Skip to Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage		- -1	Spalling, Cracking or Chipping Pe	Peeling Paint		
Deposits/Stains		 1	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	;;;		
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ ☐ Suds ☐ Excessive Algae ☐	□ Oil Sheen □ Other:		
Pipe benthic growth			Green	Other:		
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	tion			
Unlikely	Potential (pres	sence of two c	☐ Potential (presence of two or more indicators) ☐ Suspect (one or	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 6: Data Collection	ollection					
1. Sample for the lab?	ان		☐ Yes			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?		☐ Yes ☐ No If Yes, type:	be: OBM Caulk dam		
			The state of the s			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Outfall ID: S07-16
Time (Military): /3/2
Form completed by: Proc.

LOCATION	MAT	ERIAL	S	НАРЕ	DIMENSIONS (IN.)	SUBMERGED		
	⊠ RCP	□СМР	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:		
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"	☐ No ☐ Partially		
⊠ Closed Pipe	☐ Steel		Вох	☐ Triple		☐ Fully		
	Other:		☐ Other:	☐ Other:		With Sediment:		
			,			☐ Partially ☐ Fully		
	☐ Concrete							
	☐ Earthen		☐ Trapezoid		Depth:			
☐ Open drainage	☐ rip-rap		☐ Parabolic		Top Width:			
	Other:		Other:		Bottom Width:			
☐ In-Stream	(applicable when collecting samples)							
Flow Present?	☐ Yes	⊠́No	If No, S	kip to Section 5	POOR			
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial					

)ЕХ (1-3)	3 – Noticeable from a distance	in 3 – Clearly visible in outfall flow	3 – Opaque	ons 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		COMMENTS							sno				
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	☐ 2 – Clearly visible in sample bottle	2 – Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		СОМІ							of3) \square Obvious				
	REI	☐ 1 — Faint	☐ 1 — Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 – Few/slight; origin not obvious	tion 6)		nt			ue			Suspect (one or more indicators with a severity of 3)				☐ OBM ☐ Caulk dam
(If No, Skip to Section 5)	ION	leum/gas	☐ Yellow ☐Other:	ţi.	j.;	on-Flowing Outfalls ss	DESCRIPTION	r Chipping 🔲 Peeling Paint	☐ Paint ☐ Other:	paj	Colors	ge 🔲 Green 🔲 Other:		Suspect (one or more		c	100	If Yes, type:
≥	DESCRIPTION	Rancid/sour Petroleum/gas	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Flowing and Non-F		Spalling, Cracking or Chipping Corrosion	☐ Oily ☐ Flow Line	Excessive Inhibited	Odors Colors Cossi	☐ Brown ☐ Orange	tion	o or more indicators)		☐ Yes ☐ No	☐ Flow ☐ Pool	☐ Yes ☐ No
$\mathbf{dicators}$ for Flowingresent in the flow? \square Y	CHECK if Present	Sewage 🗌 Sulfide	Clear		Sewage	ndicators for Both	CHECK if Present						utfall Characteriza	Potential (presence of two or more indicators)	ection			set?
Section 3: Physical Indicators for Flowing Outfalls OnlAre Any Physical Indicators Present in the flow? \square Yes \square No	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashi!	Section 4: Physical Indicators for Both Flowing and NA Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely Po	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Outfall ID: S07-17
Time (Military): [3][4]
Form completed by: Just
pipe in box)

Section II. O dead	x z osor p	•1011				
LOCATION	MAT	TERIAL .		БНАРЕ	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other: □	☐ CMP	□ Circular □ Eliptical □ Box □ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	vhen collecting	samples)			
Flow Present?	☐ Yes	⊡∕No	If No. 1	Skip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Ves No

Clear Brown Gray Tellow Clear Brown Gray Tellow Clear Clea		CHECK if Present	Sewage	DEȘCRIPTION ☐ Rancid/sour ☐ Petroleum/gas		RELATIVE SEVERITY INDEX (1-3)	(1-3)
I - Faint colors in sample bottle I - Stight cloudiness I - Stight cloudiness I - Cloudy I - Stocklight; origin I - Stocklight; origin I - Stocklight; origin I - Stocklight I - Sto			Sulfide	Other.	☐ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
ip to Section 6) celing Paint cel. Oother: I other: T in Sight cloudiness T more indicators with a severity of 3) Call dam Call dam Condition Comments Comm			☐ Clear ☐ Green	☐ Gray ☐ Red	\square 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
ip to Section 6) Comments Comments Fig. 1 - Few/slight; origin Fig. 2 - Some; indications of origin (e.g., possible suds or oil sheen) Sheen) Comments Comments The comments Com				See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
ip to Section 6) eeling Paint er: Oil Sheen Other: I other: I more indicators with a severity of 3)		: : :	Sewage (T	, etc.)	\square 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	ω
Spalling, Cracking or Chipping Peeling Paint Corrosion Other: Controsion Oily I Flow Line Paint Other: Excessive Inhibited Oil Sheen Odors Colors Oil Sheen Suds I Excessive Algae Other: Brown Orange Green Other: Brown Orange Suspect (one or more indicators with a severity of 3) Colors es Alexant Orange Caulk dam	l Indica	itors 1 not rela	f or Both F I ted to flow pi	lowing and Non-Flowing Outfalls resent? \square Yes \square No (If No, Skip to Sec	tion 6)		
Spalling, Cracking or Chipping	ס -	HECK if	Present	DESCR		COMMENT	S
Oilly				Spalling, Cracking or Chipping Corrosion	nt		
Excessive Inhibited Odors Olors Colors Colors Suds Colors Colors Brown Orange Cother: Brown Corange Cother: Brown Corange Cother: Brown Colors Colors Cother: Brown Colors Colors Colors Cother: Brown Colors				☐ Flow Line ☐ Paint			
Odors Colors Floatables Other: Brown Orange Green Other: Brown Suspect (one or more indicators with a severity of 3) Cauk dam				1			
Brown Orange Green Other: tore indicators) Isolated indicators with a severity of 3) Image: The severity of 3 in the seve				☐ Colors ☐ Floatables ☐ Excessive Algae	и		
tore indicators)				☐ Orange ☐ Green			
(presence of two or more indicators) □ Suspect (one or more indicators with a severity of 3) □ □ Yes □ Yool □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ OBM	Outfal	l Cha	racterizati	uo			
□ Yes ☑ No □ Flow □ Pool □ Yes □ No If Yes, type: □ OBM	Potentia	l (pres	ence of two o		ndicators with a severity		percharacter and an analysis
w □ Pool If Yes, type: □ OBM	Section 6: Data Collection	4					
w ☐ Pool ☐ If Yes, type: ☐ OBM	Sample for the lab?			D			
□ No If Yes, type: □ OBM	If yes, collected from:						
	Intermittent flow trap set?			□ No If Yes, type:			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Outfall ID: S07-18
Time (Military): /3//
Form completed by: The C
pre)

LOCATION	MA [*]	TERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED			
	⊠ RCP	□ СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:			
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	37"25"	☐ No☐ Partially			
⊠ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		☐ Fully			
	Other:		Other:	Other:	·	With Sediment: No Partially Fully			
, , , , , , , , , , , , , , , , , , ,	☐ Concrete								
	☐ Earthen		☐ Trapezoid		Depth:				
☐ Open drainage	□ гір-гар		☐ Parabolic ☐ Other:		Top Width:				
	Other:		Other.		Bottom Width:				
☐ In-Stream	(applicable when collecting samples)								
Flow Present?	☐ Yes	" No	If No,	Skip to Section 5					
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial						

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

INDICATOR	CHECK if Present		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	☐ 3 — Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper.	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators 1 s that are not rela	for Both FI	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo, Skip \ to Section \ 6)$	ction 6)		
INDICATOR	CHECK if Present	Present	ESCR		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint	nt		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	no		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	I Outfall Cha	racterizatio	no			
Unlikely	Potential (pres	ence of two o.	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	ollection.					
1. Sample for the lab?	١٢.		□ Yes			
2. If yes, collected from:	:uo.		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-19
Today's date: 5/10/17	Time (Military): 1320
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: The C
General Location: Biggio North of Field House (circular outfall on right)	

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED			
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:			
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially			
☑ Closed Pipe	☐ Steel		Вох	☐ Triple					
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully			
	☐ Concrete	Mr.							
	☐ Earthen		☐ Trapezoid		Depth:				
Open drainage	☐ rip-rap		☐ Parabolic ☐ Other:		Top Width: Bottom Width:				
	Other:	_			Doctor Hadir,				
☐ In-Stream	(applicable when collecting samples)								
Flow Present?	☐ Yes	⊡∕No	If No, Skij	o to Section 5					
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial						

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? No (HNo Skip to Section 5)	DESCR	□ Sewage □ Rancid/sour □ Petroleum/gas □ 1 - Faint □ 2 - Easily detected distance distance	□ Clear □ Brown □ Gray □ Yellow □ 1 - Faint colors in sample bottle □ 2 - Clearly visible in outfall flow	See severity	D 2 – Some; indications of origin (e.g., possible suds or oil sheen)	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo, Skip to Section 6)$	CHECK if Present COMMENTS	Spalling, Cracking or Chipping Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	n Excessive Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:		Section 5: Overall Outfall Characterization	☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious	Collection	lab?	1 from:	T Yes
al Indicator	CHECK if Present			П		al Indicator s that are not r	CHECK						Outfall Cl	Potential (pr	ollection	i	om:	rap set?
Section 3: Physical Are Any Physical Indic	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physic	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overa	□ Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Tection 1: Background Data

Subwatershed: PMC	Outfall ID: S07-20
Today's date: 5/10/17	Time (Military): /322
Rainfall (in.): Last 24 hours:	Form completed by: The c
General Location: Biggio Dr. across from Coliseum loading dock	

LOCATION	МАТ	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP		⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:
☑ Closed Pipe	☐ PVC	☐ HDPE	☐ Eliptical ☐ Box	☐ Double ☐ Triple	36"	Partially Fully With Sediment:
	Other:		Other:	Other:		No Partially Fully
☐ Open drainage	☐ Concrete		☐ Trapezoid		Depth: Top Width:	
	☐ rip-rap ☐ Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	☑ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Section 3: Physical Indicators Present in the flow? INDICATOR Odor Color Color Turbidity Turbidity Turbidity Outfall Damage Outfall Damage Poor pool quality Pipe benthic growth Pipe benthic growth Pipe benthic growth Cetton Section 6: Data Collection Section 6: Data Collection Section 7: Sample for the lab? Section 6: Data Collection Section 7: Elyes, collected from: Section 6: Data Collection	icators for Flowing Orsent in the flow?	SRIPTION SRIPTION SRIPTION Gray Severity Severity Severity Don-Flowi Souds Jother: Don-Flowi Souds Colors Excessive Algorians Orange Orange	aint aint colors in capacitate severity of 3) BELATIVE SEVERITY INDEX (Capacitate condiness
Description of (f/No, Skip to Section 5) Description Description Petroleum/gas □ 1 - Faint □ 1 - Faint	SECRIPTION Gray Tyellow Tyellow	Faint Faint	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: T07-14
Today's date: 5/10/17	Time (Military): 1400
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: "M. C.
General Location: Donahue @ Wellness Kitchen	

LOCATION	MATI	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	□ RCP □ PVC □ Steel □ Other:	☐ CMP	☐ Circular ☐ Eliptical ☐ Box ☐ Other:	☐ Single ☐ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 72"x96"	In Water: No Partially Fully With Sediment: No Partially
☐ Open drainage	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	☐ Fully
☐ In-Stream	(applicable wh	en collecting s	samples)			<u> </u>
Flow Present?	Yes	□No	If No, Skij	p to Section 5		
Flow Description (If present)	☐ Trickle	□Moderate	Substantial		We start the start to the start	

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

Yes

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	医水		See severity	☐ 1 — Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators f	for Both Fl ted to flow pr	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(IFNO, Ship to Section 6)$	ction 6)		
INDICATOR	CHECK if Present	Present	DESCR		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint	int		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			□ Odors □ Colors □ Floatables □ Oil Sheen □ Suds □ Excessive Algae □ Other:	nəc		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	I Outfall Cha	racterizati	по			
☐ Unlikely [] Potential (pres	ence of two o	Dotential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Collection					
1. Sample for the lab?	25		□ Yes □\no			
2. If yes, collected from:	rom:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Background Data

Subwatershed: PMC	Outfall ID: T07-17
Today's date: $5/10/17$	Time (Military): 1403
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: N-C
General Location: Donahue @ Wellness Kitchen (small pipe on right)	

LOCATION	МАТ	ERIAL	SI	HAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:		Other:	Other:		With Sediment: No Partially
	The state of the s					☐ Fully
	Concrete		Transpoid		D it	
	☐ Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	☐ rip-rap		Parabolic Other:		Top Width:	
	Other:		Other.		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)	, , , , , , , , , , , , , , , , , , , ,		***************************************
Flow Present?	☐ Yes	☑′No	If No, Sk	ip to Section 5		***************************************
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			- Aller and a second se

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

No

INDICATOR	CHECK if Present	-1	DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum (oil sheen)	 □ Sewage (Toilet Paper, etc.) □ Suds □ Petroleum (oil sheen) □ Other: 	☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and No Are physical indicators that are not related to flow present?	al Indicators 1 s that are not rela	for Both Flated to flow pa	lowing and Non-Flowing Outfalls uesent? ☐ Yes ☐ Yo (If No, Skip to Section 6)	ection 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	IS
Outfall Damage		-	Spalling, Cracking or Chipping Paint Corrosion	uint		
Deposits/Stains			Oily Flow Line Paint Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:		WATER PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROP	
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	noi			
☐ Unlikely □	Potential (pres	sence of two o	Potential (presence of two or more indicators) Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Collection					
1. Sample for the lab?	3?		□ Yes			
2. If yes, collected from:	om:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	trap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N04-09	
Today's date: 10/13/14	Time (Military):	0916
Rainfall (in.): Last 24 hours: 4 Last 48 hours:	Form completed by:	Truc
General Location: South of Rugby Field		
General Location, South of Kugby Field		

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	☐ CMP	☐ Circular ☐ Eliptical ☑ Box ☐ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions: 72"x96"	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid · ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s				
Flow Present?	✓ Yes	☐ No	If No, Skij	o to Section 5		
Flow Description (If present)	☐ Trickle	Moderate	☐ Substantial			

E SEVERITY INDEX (1-3) 2 - Easily detected 3. 2 - Clearly visible in 3. 2 - Cloudy 3. 2 - Some; indications 3. of origin (e.g., possible suds or oil sheen) COMMENTS COMMENTS	1 - Faint	RelATIV RelATIV RelATIV RelATIV RelATIV RelATIV Relation of the stroleum/gas Revertify of 3 Relation of the stroleum/gas Relation of the strole	CHECK if □ Sewage □ Rancid/sour □ □ Sewage □ Cherr □ □ Clear □ Brown □ See s □ Green □ Crange □ See s □ Green □ Crange □ See s □ □ Clear □ Brown □ See s □ □ Clear □ Brown □ See s □ □ Cherr □ Crange □ See s □ □ Cherr □ Sewage (Toilet Paper, etc.) □ See s □ □ Cherr □ □ Sewage (Toilet Paper, etc.) □ See s □ □ Cherr □ □ Sewage (Toilet Paper, etc.) □ See s □ □ Cherr □ □ □ See s □ □ □ Cherr □ □ Cherr □ □ Cherr □ □ Cherr □ □ □ Cherr □	CHECK if Present CHECK IF Clea Clea Clea Clea Clea Clea Clea Clea	INDICATOR CHECK if Present Ran Odor □ □ Sewage □ Ran Color □ Clear □ Oths Turbidity □ □ Clear □ Oths Floatables □ Clear □ Oths Turbidity □ □ Clear □ Oths Floatables □ Clear □ Oths Trashil □ Sewage (Toilet Paper Urschild) □ Sewage (Toilet Paper Urschild) Are physical indicators that are not related to flow present? □ Sewage (Toilet Paper Urschild) □ Other Abnormal Vegetation □ CHECK if Present □ Cor □ Cor Deposits/Stains □ □ Other □ Other □ Other Pipe benthic growth □ □ Other □ Other □ Other Pipe benthic growth □ □ Other □ Other □ Other Section 5: Overall Outfall Characterization □ Depositivence of two or more in the interpretation
				Collection	Section 6: Data Collection
				Collection	Section 6: Data Co
				Collection	Section 6: Data C
		`		Collection	Section 6: Data C
				W	
	e indicators with a s		ence of two or mo] Potential (pres	`
				THE CHANGE OF THE CAME	avair a compa
			racterization	II Outfall Cha	Section 5: Overal
		☐ Orange ☐ Green			Pipe benthic growth
	neen :	☐ Colors ☐ Floatables ☐ Excessive Algae			Poor pool quality
		- 1			Abnormal Vegetation
					-
		☐ Flow Line ☐ Paint			Denosits/Stains
	aint	racking or Chipping			Outfall Damage
COMMENTS		DESCRIPTION	Present	CHECK IF	INDICATOR
	ection 6)	and Non-Flowing C	for Both Flowi ted to flow presen	al Indicators is that are not rela	Section 4: Physical Are physical indicator
of origin (e.g., possible suds or oil sheen)	1 - Few/slight; ont obvious	etc.)	Sewage (Toilet I		rioatables -Does Not Include Trash!!
☐ 2 – Some; indications ☐ 3		1	: : : : : : : : : : : : : : : : : : :		Tinatahlee
□ 2 – Cloudy	☐ 1 — Slight cloud	See severity			Turbidity
sample bottle	sample bottle	☐ Red			C0101
2 – Clearly visible in	1 - Faint colors	Gray			Color
	☐ 1 — Faint	Rancid/sour 🔲 Petroleum/gas Other:			Odor
RELATIVE SEVERITY INDEX (1-3)		DESCRIPTION		CHECK if Present	INDICATOR
		IND (1) IND, DRIP to DECITOR 2)	low:	ווו זווי זווי זוויספטון דיווחז	ALE ALLY FILYSICAL LITERICALOIS FIESCILL III LITERION!

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

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Section 1: Background Data

Subwatershed: PMC	Outfall ID: N04-10
Today's date: 18 /13/17	Time (Military): D410
Rainfall (in.): Last 24 hours: 1 Last 48 hours:	Form completed by:
General Location: Extension Loop closest to utility barn	

LOCATION	MAT	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	□ RCP □ PVC □ Steel □ Other:	☐ CMP		□ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	☑ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

An Bout 17-089 to evaluate e popula. Stanan bout e staveture PH 3/9/19

Outfall Reconnaissance Inventory Field Sheet

☐ Yes
2. If ves. collected from:
II yes, confected from:
Sample for the lab?
Sample for the lab?
ction 6: Data Collection Sample for the lab?
(presence of two or more indicators
Characterization (presence of two or more indicators)
iore indicators) 🔲 Suspect (one or more indicators with a severity of 3) 📋
Brown
Brown
Odors Colors Colors Oil Sheen Suds Excessive Algae Other: Brown Corange Green Other: Incre indicators) Suspect (one or more indicators with a severity of 3) Constant of No.
Excessive Inhibited Odors Colors Floatables Oil Sheen Suds Excessive Algae Other: Brown Orange Green Other: Brown Suspect (one or more indicators with a severity of 3) es Mo
Oily Flow Line Paint Other: Excessive Inhibited Inhibited Other: Odors Colors Floatables Oil Sheen Suds Excessive Algae Other: Brown Orange Green Other: Brown Suspect (one or more indicators with a severity of 3) Colore indicators) Suspect (one or more indicators with a severity of 3) Colore indicators Colore indicators
Spalling, Cracking or Chipping
Spalling, Cracking or Chipping
ring and Non-Flowing Outfalls DESCRIPTION Spalling, Cracking or Chipping
and Non-Flowing Outfalls and Non-Flowing Outfalls Secretarion of Origin (origin) Origin of Origin (origin)
see severity stee: Studs of origin (e.g., not obvious) and Non-Flowing Outfalls Stees of origin (e.g.,
nu
Coracle Cora
r. Clearly Light colors in Clearly visible in
r. r. m Gray Yellow 1 - Paint
Company Comp
DESCRIPTION Step to Section 5

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N05-08
Today's date: 10/13/17	Time (Military): 0444
Rainfall (in.): Last 24 hours: D	Form completed by:
General Location: Hemlock from Band Practice Field	
General Location. Reiniock from Band Practice Field	

LOCATION						7
LOCATION	MAI	TERIAL.	S	HAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	48"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		Вох	☐ Triple		☐ Fully
	Other:		☐ Other:	Other:		With Sediment: No Partially
						☐ Fully
	☐ Concrete		<u> </u>			
	☐ Earthen	İ	☐ Trapezoid		Depth:	
Open drainage		,	☐ Parabolic		Top Width:	
1	□ гір-гар	,				
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	vhen collecting s	samples)			
Flow Present?	Yes Yes	□ No	If No, S.	kip to Section 5	the state of the s	
Flow Description (If present)	Trickle	☐ Moderate	Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?
Yes SNo

	Y	T	T-120	1	7		Y	Υ	<u> </u>	ř	i i	1		1		Ī		ı
1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		S												
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some, indications of origin (e.g., possible suds or oil sheen)		COMMENTS					n Bastera		of3) 🗌 Obvious					
REL	☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious	on 6)						125W		licators with a severity o				BM Caulk dam	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	See severity	etc.) Suds	ng and Non-Flowing Outfalls t?	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	ily 🏻 Flow Line 🔻 Paint 🔻 Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	□ Brown □Vange □ Green □ Other:		re indicators) Suspect (one or more indicators with a severity of 3)		No	w 🔲 Pool	□ No If Yes, type: □ OBM	
	☐ Sewage ☐ ☐ Sulfide ☐	☐ Clear ☐ ☐ Green ☐		Sewage (Toilet Paper, etc.)	or Both Flowi ed to flow preser	resent		vilo 🗆				acterization	nce of two or mo		☐ Yes	Flow	☐ Yes	
CHECK if Present	Ò				I Indicators for that are not relat	CHECK if Present						Outfall Char	Dotential (presence of two or more indicators)	Mection	2	m:	ap set?	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	ection 4: Physical Indicators for Both Flowing an	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	ection 5: Overall Outfall Characterization	☑ Unlikely	section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N05-09
Today's date: 10/13/17	Time (Military): 0925
Rainfall (in.): Last 24 hours: D Last 48 hours:	Form completed by: TMC
General Location: Extension Loop 3rd in line from utility barn	NEW DIE

LOCATION	МАТ	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	☐ CMP		Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	☑ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

INDICATOR CHECK if Present CHECK if Cheen Cheen <t< th=""><th>CHECK if Present Cless /th><th>Clear Clear /th><th>DESCRIPTION /sour Petroleum/g /sour Cray Cray Cray See severity Other: Other: Di Yes No No Pacacking or Chipp ition Flow Line Pacacking or Chipp ition Flow Line Pacacking or Chipp Colors Color</th><th>Faint colors in ample bottle Slight cloudiness vious vious</th><th>RELATIVE SEVERITY INDEX (1-3) 2 - Easily detected </th><th> 1-3) 3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) </th></t<>	CHECK if Present Cless	Clear	DESCRIPTION /sour Petroleum/g /sour Cray Cray Cray See severity Other: Other: Di Yes No No Pacacking or Chipp ition Flow Line Pacacking or Chipp ition Flow Line Pacacking or Chipp Colors Color	Faint colors in ample bottle Slight cloudiness vious vious	RELATIVE SEVERITY INDEX (1-3) 2 - Easily detected	1-3) 3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 6: Data Collection	ollection	,				
1 Sample for the lab?	6		Nec Milo			
1. Sample for the lab					A STATE OF THE STA	
) If yes collected from:		-	Eloui		Maritical Applications and the second	
	:mc					

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

% U

☐ Yes

3. Intermittent flow trap set?

SECTION of STREET CONTROL CONT

Section 1: Background Data

Subwatershed: PMC		Outfall ID: N05-10	L
Today's date:	10/13/17	Time (Military): 0 4 32	
Rainfall (in.): Last 24 hours:	Last 48 hours: 10	Form completed by: The	7777
General Location: Extension Lo	op 2 nd in line from utility barn		

LOCATION	MA	TERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	☐ RCP ☐ PVC ☐ Steel ☐ Other:	☐ CMP	☐ Circular ☐ Eliptical ☐ Box ☐ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	vhen collecting	samples)			
Flow Present?	☐ Yes	⊿ No	If No	, Skip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			,

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? □ Yes 口る

		7 - Carrier & Common - Common	· · · · · · · · · · · · · · · · · · ·	p	7		v	v	·		-		-	9 1				
1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		S						,						
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	\square 2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							of3) \square Obvious				J.	
REL	1 – Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious	tion 6)		Ħ			ис			indicators with a severity				□ OBM □ Caulk dam	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Prof. (HNo, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐,Green ☐ Other:	nc	r more indicators) Suspect (one or more indicators with a severity of 3)		□ Yes □ Tho	☐ Flow ☐ Pool] Yes	
	Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper,	s for Both Fi	CHECK if Present						haracterizati	Potential (presence of two or more indi			LJ		
CHECK if Present					al Indicator	СНЕСК						II Outfall C] Potential (p	Collection	55	rom:	trap set?	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing the physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N05-13
Today's date: 10/13/13	Time (Military): p452
Rainfall (in.): Last 24 hours: D	Form completed by: Twe
General Location: Hemlock next to RFL monitoring well 104	
Constant Production Floring from 104	

LOCATION	MAT	TERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	RCP PVC Steel	☐ CMP	☐ Circular ☐ Eliptical ☐ Box	⊠ Single □ Double □ Triple	Diameter/Dimensions:	In Water: No Partially Fully
	Other:		☐ Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	vhen collecting s	samples)			
Flow Present?	☐ Yes	√No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Outfalls Only \Box No $(if No, Skip to Section 5)$	DESCR	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 − Faint ☐ 2 − Easily detected distance distance		See severity \Box 1 – Slight cloudiness \Box 2 – Cloudy \Box 3 – Opaque	let Paper, etc.) Suds 1 - Few/slight; origin Cof origin (e.g., obvious oil sheen) 1 - Few/slight; origin of obvious Sanitary materials)	wing and Non-Flowing Outfalls sent? \square Yes \square No $(fNo, Skip to Section 6)$	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Creen ☐ Other:	${f u}$	more indicators) Use of more indicators with a severity of 3) Obvious		Yes TAMO	Flow	Yes \square No If Yes, type: \square OBM \square Caulk dam
		☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudine	1 – Few/slight; ori	iection 6)	-	aint			heen :			e indicators with a sev				
f No, Skip to Section 5)	TION	roleum/gas		rity	ds ner:	Flowing Outfalls	DESCRIPTION		☐ Paint	vited	☐ Floatables ve Algae	Green		Suspect (one or mor		10	lool	
s Only	DESCR	☐ Rancid ☐ Other:		See seve	Sewage (Toilet Paper, etc.) Su	বে		Spalling, Cracking	Oily How Line	☐ Excessive ☐ Inhil	Odors Colo	☐ Brown ☐ Orar	ation	Potential (presence of two or more indicators)		□ Yes □	☐ Flow	☐ Yes ☐ ☐ Ŋ
licators for Flow esent in the flow?	CHECK if Present	☐ Sewage ☐ Sulfide	Clear		☐ Sewag	dicators for Both are not related to flov	CHECK if Present						tfall Characteriz	ential (presence of tw	tion			ť?
Section 3: Physical Indicators for Flowing Outfall Are Any Physical Indicators Present in the flow? \square Yes \square No	INDICATOR P	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely Pote	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N06-02
Today's date: lolls (2)	Time (Military): 0928
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: TMC
General Location: Extension Loop 4th & last from utility barn Vellow Be	(X)

10017701			1			T
LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	21"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	Other:		☐ Other:	☐ Other:		With Sediment:
						☐ Partially ☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	₩ No	If No, Skij	v to Section 5		,
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? CHECK if	I Indicators for Drs Present in the fin	or Flowing	ng Outfalls Only es □ No (If No, Skip to Section 5)			
INDICATOR	Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ 1 □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	, etc.) Usuds	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	I Indicators for that are not relat	or Both Fl	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo, Skip to Section 6)$	(91		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	E. E.	EROBION UNDER PRACT	Sweet d
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			Odors			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	Outfall Char	racterizati	tion			
✓ Unlikely	Potential (prese	ence of two c	Dotential (presence of two or more indicators)	ators with a severity o	of3) \square Obvious	
Section 6: Data Collection	ollection					
1 Sample for the Jah?	2		Ves Visit			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

Pool

☐ Flow

If yes, collected from: Intermittent flow trap set?

7.

Section 1: Background Data

Subwatershed: PMC	Outfall ID: N07-05
Today's date: 10/13/17	Time (Military): 1012
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: The
General Location: Satellite Uplink near Samford Ave	T .

LOCATION	ТАМ	ERIAL	s	НАРЕ	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	□ CMP	□ Circular □ Eliptical □ Box □ Other:	□ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially
. Dpen drainage	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	Fully
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	Yes No If No, Skip to Section 5					
Flow Description (If present)	☐ Trickle	Moderate	☐ Substantial		W. Barris San	

Mose of a convayordell Crossing wood sampso

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? □ Yes 百心の

INDICATOR	CHECK if Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 – Easily detected	☐ 3 — Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	☐ 3 — Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	zal Indicators	for Both Fated to flow p	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	tion 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	t:		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	uc		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	III Outfall Cha	ıracterizati	ио			
Unlikely	Potential (pres	sence of two	Detential (presence of two or more indicators)	indicators with a severity	of 3) \square Obvious	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

OBM

If Yes, type:

Pool No

☐ Yes

☐ Yes

Sample for the lab?

If yes, collected from:

Intermittent flow trap set?

7.

N.

Section 6: Data Collection

Section 1: Background Data

Subwatershed: PMC	Outfall ID: P4-30
Today's date: 10/13/17	Time (Military): 1930
Rainfall (in.): Last 24 hours: D Last 48 hours:	Form completed by: [Mc
General Location: Thach across from Farm House Frat	

Section 2: Outfall Description

LOCATION	MATERIAL SHAPE DIMENSIONS (IN.) SUBMERGED					
LOCATION	MAI	CKIAL	Sh	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP □ PVC	☐ CMP ☐ HDPE	☑ Circular ☐ Eliptical	⊠ Single □ Double	Diameter/Dimensions: 58"x38"	In Water: ☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully With Sediment:
	Other:		Other:	Other:		☐ No ☐ Partially ☐ Fully
☐ Open drainage	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable when collecting samples)					
Flow Present?	√ Yes	☐ No	If No, Ski	p to Section 5		
Flow Description (If present)	Trickle	☐ Moderate	☐ Substantial	8 ingnave t	PW	,

flow yo bowns

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

From

SCRIPTION RELATIVE SEVERITY INDEX (1-3)	□ Petroleum/gas □ 1 − Faint □ 2 − Easily detected distance		See severity \Box 1 – Slight cloudiness \Box 2 – Cloudy \Box 3 – Opaque	□ Suds □ 1 − Few/slight; origin of origin (e.g., obvious of other: and obvious origin of obvious of other: and obvious origin of obvious origin of other of other origin of origin (e.g., obvious of other of other origin of other origin of origin (e.g., obvious of other of other origin or other origin of other origin or other origin	Non-Flowing Outfalls Yes	DESCRIPTION	acking or Chipping 🔲 Peeling Paint	ow Line] Inhibited	□ Colors □ Floatables □ Oil Sheen STRegillen □ STRegillen □ Other:	☐ Orange ☐ Green ☐ Other:		ors) Suspect (one or more indicators with a severity of 3) Obvious			□ Pool	□ No If Yes, type: □ OBM □ Caulk dam
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	etc.)	g and Non-F	DE	Spalling, Cracking or Chipping Corrosion	☐ Oily ☐ Flow Line ☐ Pai	☐ Excessive ☐ Inhibited	Odors Colors Suds Excessive Alg	☐ Brown ☐ Orange	ion		\	☐ Yes ☐ ⚠️	☐ Flow ☐ Pool	☐ Yes ☐ No
CHECK if Present	☐ Sewage ☐ Sewage ☐ ☐ Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper,	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	CHECK if Present			Ì	9		Section 5: Overall Outfall Characterization	☐ Potential (presence of two or more indicators)	ection			
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical I	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall O	Unlikely Do	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: P04-31
Today's date: 10/13/14	Time (Military): 6935
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: TWC
General Location: West of DEP below strice gate	(GENERALLY DEY)

	ation 2. Outside Description											
LOCATION	FAM	TERIAL		БНАРЕ	DIMENSIONS (IN.)	SUBMERGED						
⊠ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	☐ CMP		⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully						
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:							
☐ In-Stream	(applicable w	hen collecting	samples)									
Flow Present?	☐ Yes	☑ No	If No, S	kip to Section 5								
Flow Description (If present)												

•		ma	ii		lear Il Toating Is)													
	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 — Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		TS											
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 – Cloudy	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							of 3) \square Obvious				
	REL	☐ 1 – Faint	☐ 1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious	ion 6)								Suspect (one or more indicators with a severity of 3)				OBM Caulk dam
(If No, Skip to Section 5)		n/gas	☐ Yellow ☐Other:			wing Outfalls (If No, Skip to Section 6)	DESCRIPTION	pping 🔲 Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more in				If Yes, type:
Only	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	m Gray ge Red	See severity	etc.) 🗌 Suds	and Non-Flow ☐ Yes ☐ No		Spalling, Cracking or Chipping Corrosion	☐ Flow Line □	ive Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange		dicators)	\	No.	Pool	No
lowing Outfa		☐ Sewage ☐ Rancid ☐ Sulfide ☐ Other:	lear Brown reen Orange		☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	oth Flowing : flow present?	뉟	Spall Corn	Oily	☐ Excessive	Odors	□ Brown	rization	Potential (presence of two or more indi		☐ Yes	Flow	☐ Yes
rs for Fi the flow? [S S	Clear		S A	rs for B	CHECK if Present						Characte	presence c				
al Indicato	CHECK if Present					al Indicato	CHEC						II Outfall C	☐ Potential (Collection	69	rom:	trap set?
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? No	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Outfall ID: P04-32
Time (Military): 0862
Form completed by: Tank

	1		1			
LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	☐ CMP	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:
⊠ Closed Pipe	☐ Steel	∐ HDFE	☐ Eliptical ☐ Box	☐ Double ☐ Triple	48"	Partially Fully
	Other:		Other:	Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	_	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	□ No	If No, Ski	o to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \square Yes \square No $(fNo, Skip to Section S)$	K if DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	□ Sewage □ Rancid/sour □ Petroleum/gas □ 1 - Faint □ 2 - Easily detected distance	□ Clear □ Brown □ Gray □ Yellow □ 1 - Faint colors in sample bottle □ 2 - Clearly visible in outfall flow	See severity \Box 1 – Slight cloudiness \Box 2 – Cloudy \Box 3 – Opaque	□ Sewage (Toilet Paper, etc.) □ Suds □ 1 – Few/slight; origin □ 2 – Some; indications of origin (e.g., obvious oil sheen) □ 3 – Some; origin clear (e.g., obvious oil sheen) □ Petroleum (oil sheen) □ Other: not obvious sheen) sheen, suds, or floating sanitary materials)	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(f/N_0, Skip to Section 6)$	CHECK if Present DESCRIPTION COMMENTS	Spalling, Cracking or Chipping Deaint Corrosion	□. □ Oily □ Flow Line □ Paint □ Other:	□ Excessive □ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	Il Characterization	Dotential (presence of two or more indicators) Uspect (one or more indicators with a severity of 3) Ubvious	u	☐ Yes ☐ No	☐ Flow ☐ Pool	☐ Yes ☐ No If Yes. type: ☐ OBM ☐ Caulk dam
for Flowing Outfalls O	DE				Sewage (Toilet Paper, etc.)	for Both Flowing and ated to flow present?	Present		. Oily	☐ Excessive	Odors	☐ Brown	aracterization	sence of two or more indicat		☐ Yes	Flow	S#A _
Section 3: Physical Indicators for Fl Are Any Physical Indicators Present in the flow?	OR CHECK if Present			у	ss clude	Physical Indicators							Section 5: Overall Outfall Characterization		Section 6: Data Collection	Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
Section 3: F Are Any Physica	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: I	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: (☐ Unlikely	Section 6: I	1. Sample fo	2. If yes, co	3 Intermitte

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: P0-4-37
Today's date: 10 / 13 / 13	Time (Military): 0532
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by: The
Thach @ Farm House	

LOCATION	ТАМ	ERIAL	S	БНАРЕ	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	⊠ Circular	☐ Single	Diameter/Dimensions:	In Water:
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	60"	☐ No ☐ Partially
☐ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully
	☐ Other:		Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		Parabolic Other:		Top Width:	
	Other:					
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	¥ Yes	☐ No	If No, S	kip to Section 5		
Flow Description (If present)	☐ Trickle	☑ Moderate	☐ Substantial			

		æ	п		ar vating										
	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		S				Par				
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 – Cloudy	2 – Some, indications of origin (e.g., possible suds or oil sheen)		COMMENTS				STROWNY DOSE	0		of 3) \square Obvious	
	REL	1 – Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 – Few/slight; origin not obvious	ion 6)								Suspect (one or more indicators with a severity of 3)	
Ils Only No (If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	vn Cray Tellow .ge Cred Cother:	See severity	, etc.) 🔲 Suds 🗀 Other:	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(fNo,Skip$ to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping 🔲 Peeling Paint Corrosion	☐ Flow Line ☐ Paint ☐ Other:	ive Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:			
Flowing Outfalls		☐ Sewage ☐ Rancid ☐ Sulfide ☐ Other:	☐ Clear ☐ Brown ☐ Green ☐ Orange		Sewage (Toilet Paper, etc.)	Both Flowing to flow present?	ent	Spal	l Oily	M Excessive	Odors Suds	☐ Brown	terization	e of two or more in	
Indicators for	CHECK if Present					Indicators for that are not related	CHECK if Present			Þ			Outfall Charac	☑ Potential (presence of two or more indicators)	
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? Yes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashi!	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	□ Unlikely	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

Pool I

Tyes Flow Yes

Intermittent flow trap set?

If yes, collected from: Sample for the lab?

Section 6: Data Collection

Section 1: Background Data

Outfall ID: P07-16
Time (Military): 1300
Form completed by: Muc

occion 2. Outlan Description											
LOCATION	ГАМ	ERIAL	5	БНАРЕ	DIMENSIONS (IN.)	SUBMERGED					
⊠ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	☐ CMP	□ Circular □ Eliptical □ Box □ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions: 18"	In Water: No Partially Fully With Sediment: No Partially Fully					
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:						
☐ In-Stream	(applicable w	hen collecting	samples)		3						
Flow Present?	☐ Yes	No No	If No, S	Skip to Section 5							
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial								

		n a	:E		ear oating s)													
	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 — Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		TS											
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 – Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							f3) \square Obvious	-			
	RELA		– Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious									ith a severity o				Caulk dam
		 	1 – Faint colors in sample bottle	□ 1 – Sligh	1 – Few/	Section 6)		Paint			Sheen er:)I.;		re indicators w				☐ OBM [
(HNo, Skip to Section 5)		gas	☐ Yellow ☐Other:			ing Outfalls (¿f/No, Skip to Section 6)	DESCRIPTION	ping 🔲 Peeling Paint	aint 🔲 Other:		☐ Floatables ☐ Oil Sheen Igae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)				If Yes, type:
Only	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Gray ☐ Red	See severity	.) Suds	nd Non-Flow	a	Spalling, Cracking or Chipping Corrosion	☐ Flow Line ☐ Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	Orange		ators)		ম	☐ Pool	oN 🗆
ving Outfalls Yes 🔼 No	.		☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)	Flowing and		Spalling,		☐ Excessive	Odors Suds	☐ Brown	tion	Potential (presence of two or more indicators)		☐ Yes	Flow	☐ Yes
s for Flowi		Sewage	☐ Clear ☐ Green		Sewage	s for Both elated to flow	CHECK if Present						naracteriza	resence of two				
I Indicators	CHECK if Present					I Indicator that are not r	CHECK						Outfall Cl	Potential (pı	ollection	?	:mc	rap set?
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? Yes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

	Outfall ID: P07-18
10/13/17	Time (Military): 1255
	Form completed by: TML
	10/13/14

	1		1			<u> </u>
LOCATION	МА	TERIAL	S	SHAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	☐ CMP ☐ HDPE	☐ Eliptical	⊠ Single □ Double	Diameter/Dimensions:	In Water: No Partially
⊠ Closed Pipe			☐ Box ☐ Triple			Fully With Sediment:
	Other:		Other:	Other:		☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	·	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	when collecting	samples)		Construction	Charles Charles
Flow Present?	☐ Yes	□ No	If No, S	kip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \square Yes \square No (If No, Skip to Section 5)

	om a	e in		clear oil floating als)													
1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		Š											
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							of 3)				
REL	🗌 1 – Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 - Few'slight; origin not obvious	tion 6)					٦			ndicators with a severity c				☐ OBM ☐ Caulk dam
DESCRIPTION	Petroleum/gas	☐ Gray ☐ Yellow ☐ Red ☐ Other:	See severity	□ Suds	nd Non-Flowing Outfalls Yes	DESCRIPTION	Spalling, Cracking or Chipping	ine 🔲 Paint 🔲 Other:	☐ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)	:	°V a	Pool	☐ No If Yes, type: ☐
DESCI	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ ☐ Orange ☐	See	☐ Sewage (Toilet Paper, etc.) ☐ ☐ Petroleum (oil sheen) ☐	Nowing and Non		Spalling, Crack	☐ Oily ☐ Flow Line	☐ Excessive ☐ I	Odors Odors	☐ Brown ☐ C	tion	Potential (presence of two or more indicators)		☐ Yes	☐ Flow	☐ Yes
	☐ Sewage ☐ Sulfide	☐ Clear ☐ Green		Sewage (or Both I	resent						racteriza1	ence of two				
CHECK if Present					I Indicators f	CHECK if Present						Outfall Chai	Potential (preso	Mection		m:	ap set?
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing ar	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: P08-08
Today's date: 10/13 13	Time (Military): 1315
Rainfall (in.): Last 24 hours: O Last 48 hours: O	Form completed by: TMC
General Location: South of McWorter Center	
Ochciai Location, South of Micworler Center	

	, , , , , , , , , , , , , , , , , , ,					
LOCATION	MAT	TERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other:	☐ CMP	☐ Circular ☐ Eliptical ☐ Box ☐ Other:		Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	vhen collecting	samples)			
Flow Present?				Skip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Unknown black corresported 2 Nofiam, Italy Reld tamasque

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \square Yes \square No $(fNo, Skip to Section 5)$	CATOR CHECK if DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	idor	Olor Clear Drown Gray Yellow 1 - Faint colors in sample bottle 2 - Clearly visible in outfall flow	bidity \Box See severity \Box 1 – Slight cloudiness \Box 2 – Cloudy \Box 3 – Opaque	tables Control of Include Control of Sewage (Toilet Paper, etc.) Suds Control of Include Control of Inc	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square Yo \square (If No., Skip to Section 6)	ICATOR CHECK if Present DESCRIPTION COMMENTS	Spalling, Cracking or Chipping Peeling Paint Corrosion	sits/Stains \square Oily \square Flow Line \square Paint \square Other:	al Vegetation	ool quality	athic growth	Section 5: Overall Outfall Characterization	
e ction 3: Physi e Any Physical Indi	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	section 4: Phys	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Over	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

No Pool

☐ Yes ☐ Flow

Section 6: Data Collection

% U

□ Yes

Sample for the lab?
 If yes, collected from:
 Intermittent flow trap set?

Section 1: Background Data

Subwatershed: PMC	1	Outfall ID: P09-02	
Today's date:	lia	Time (Military):	1323
Rainfall (in.): Last 24 hours: Last 48 hours:	$\mathcal D$	Form completed by:	Mic
Covered Least in a Feet of Softhall Field			
General Location: East of Softball Field			

LOCATION	MATE	RIAL	SHA	APE	DIMENSIONS (IN.)	SUBMERGED
	☐ RCP	⊠ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		□Box	☐ Triple		☐ Fully
	Other:		☐ Other:	☐ Other:		With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	 ☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: 	_	 ☐ Trapezoid ☐ Parabolic ☐ Other: 		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable wh	en collecting s	amples)			
Flow Present?	Yes	Ĭ X No	If No, Skij	o to Section 5		
Flow Description (If present)	Trickle	☐ Moderate	☐ Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?
Yes

	3 – Noticeable from a distance	☐ 3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)									
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	□ 2 – Clearly visible in sample bottle	□ 2 – Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							:3) 🗌 Obvious
RELA	□ 1 – Faint	1 – Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight, origin not obvious	tion 6)								dicators with a severity of
NOI	oleum/gas	/ Yellow	ity	2.1.2	-Flowing Outfalls No (JfNo, Skip to Section 6)	DESCRIPTION	Chipping 🔲 Peeling Paint	☐ Paint ☐ Other:	pa;	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	e 🔲 Green 🔲 Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Flowing and Non-F present?		Spalling, Cracking or Chipping Corrosion	☐ Oily ☐ Flow Line	☐ Excessive ☐ Inhibited	Odors Colors	☐ Brown ☐ Orange	ion	or more indicators)
CHECK if Present	Sewage 🗌 Sulfide	Clear Creen		Sewage (licators for Both E	CHECK if Present						tfall Characterizat	Potential (presence of two or more indicators)
INDICATOR CF	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely Pote

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

oN □

☐ Flow ☐ Yes

Sample for the lab?
 If yes, collected from:
 Intermittent flow trap set?

☐ Yes

Section 6: Data Collection

Section 1: Background Data

Subwatershed: PMC	Outfall ID: Q3-30
Today's date: 10-13-17	Time (Military): 0825
Rainfall (in.): Last 24 hours: Last 48 hours:	Form completed by:
General Location: Sigma Nu Frat	

Section 2: Outfall Description

LOCATION	1.447	-5-7-8-1					
LOCATION	MAII	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water: ☐ No	
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	30"	Partially Fully	
☑ Closed Pipe			☐ Box	☐ Triple			
			☐ Other:	☐ Other:		With Sediment: ☐ No	
						☐ Partially☐ Fully	
	☐ Concrete						
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	rip-rap	4	Parabolic		Top Width:		
			☐ Other:		Bottom Width:		
	Other:						
☐ In-Stream	(applicable wl	ien collecting s	samples)				
Flow Present?	ow Present?						
Flow Description (If present)	* I M UTICKIE I I MIOGETATE I I Nijograpija						

Continual flow yo konno

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes From The Company Are Any Physical Indicators Present in the flow?	al Indicators f	for Flowing		(Jf No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCRIPTION		RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas	n/gas	1 – Paint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight cloudiness	2 – Cloudy	3 – Opaque
Floatables -Does Not Include Trashi!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	al Indicators is that are not rela	for Both Fated to flow p	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ving Outfalls (If No, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	Present		DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Corrosion	pping 🔲 Peeling Paint			
Deposits/Stains			Oily Flow Line	Paint Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited				
Poor pool quality	\(\frac{1}{2}\)	\	☐ Odors ☐ Colors ☐ ☐ Suds ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:	9	THOMANT WATER	pock thu
Pipe benthic growth			☐ Brown ☐ Orange	☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	racterizati	ion				
Unlikely	Potential (pres	sence of two c	☐ Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	ndicators with a severity	of3)	
Section 6: Data Collection	Ollection						

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

☐ Caulk dam

If Yes, type:

Pool

☐ Flow ☐ Yes

Sample for the lab?
 If yes, collected from:
 Intermittent flow trap set?

°N E

☐ Yes

Section 1: Background Data

Outfall ID: Q07-19
Time (Military): 1410
Form completed by: The

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	□ RCP	☐ CMP	☐ Circular ☐ Eliptical ☐ Box ☐ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)		1	
Flow Present?	☐ Yes	☑ No	If No, Ski _l	o to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Section 3: Physical Indicators for Flowing Outfall Are Any Physical Indicators Present in the flow? CHECK IF CHECK IF	al Indicators for tors Present in the CHECK if	for Flowing	<i>(n</i>) \cap	ls Only lo (JfNo, Skip	(Jf No, Skip to Section 5)			6
INDICATOR	Present		ŭ O	DESCRIPTION			RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour	/sour 🔲 Petroleum/gas		☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray C	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			S	See severity		☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper Petroleum-(oil sheen)	Sewage (Toilet Paper, etc.)	Suds Other:		☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing an Are physical indicators that are not related to flow present?	I Indicators	for Both Fated to flow p	lowing and I	nd Non-Flowing Outfalls	g Outfalls (IfNo, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	Present		DES	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cr Corrosion	Spalling, Cracking or Chipping Corrosion	g Peeling Paint	ıt		
Deposits/Stains			□ Oily □ Flo	☐ Flow Line ☐ Paint	t 🔲 Other:			HAMMAN TO THE TAXABLE PARTY OF TA
Abnormal Vegetation			☐ Excessive [☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:	ı.		
Pipe benthic growth			☐ Brown	☐ Orange	Green Other:			
Section 5: Overall Outfall Characterization	I Outfall Cha	ıracterizati	ion					
Unlikely		sence of two c	Potential (presence of two or more indicators)		uspect (one or more i	Suspect (one or more indicators with a severity of 3)	ity of 3) 🔲 Obvious	
Section 6: Data Collection	Ollection			`				
1. Sample for the lab?	اخ	1	☐ Yes	D-Mo				
2. If yes, collected from:	:mo.		☐ Flow	☐ Pool		٠		
3. Intermittent flow trap set?	rap set?		☐ Yes	No	If Yes, type:	☐ OBM ☐ Caulk dam	m	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: Q08-07
, , , , , , , , , , , , , , , , , , , ,	
Today's date:	Time (Military): 1425
Rainfall (in.): Last 24 hours: O Last 48 hours:	Form completed by: Time
General Location: NE corner of Samford and Biggio	

	· · · · · · · · · · · · · · · · · · ·					
LOCATION	MAT	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	☐ RCP ☐ PVC ☐ Steel ☐ Other:	□ CMP		Single □ Double □ Triple □ Other:	Diameter/Dimensions: 18"	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	☑ No	If No, Sk	ip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

		Ì			gui													
	(1-3)	☐ 3 — Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		IS											
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 – Cloudy	2 – Some, indications of origin (e.g., possible suds or oil sheen)	Some strining on walls	COMMENTS		ROMD WASH			To the state of th		if3) \square Obvious				
	REL		ors in ttle	oudiness	ht; origin	Some st			Rok					a severity c				Caulk dam
		☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious				AND THE PROPERTY OF THE PROPER					dicators with				□ овм □
(If No, Skip to Section 5)		n/gas	☐ Yellow ☐ Other:			ring Outfalls (If No, Skip to Section 6)	DESCRIPTION	pping Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	Green Other:		Suspect (one or more indicators with a severity of 3)				If Yes, type:
$\mathbf{Only}_{(IfNo, .}$	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Gray ☐ Red	See severity	Suds	id Non-Flow Yes ⊠No		Spalling, Cracking or Chipping Corrosion,	Flow Line	Inhibited	☐ Colors ☐ Excessive Algae	Orange		ors)	/	ow No	Pool	% □
	DE	☐ Rancid/sou: ☐ Other:	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)	Flowing and present?		Spalling, C	Oily (F)	☐ Excessive	Odors Suds	☐ Brown	iion	Potential (presence of two or more indicators)		☐ Yes	Flow	☐ Yes
for Flowing flow? □ Yes		☐ Sewage ☐ Sulfide	Clear Green		Sewage (for Both I	Present						racteriza	ence of two				
I Indicators	CHECK if Present					I Indicators	CHECK if Present						Outfall Cha	Potential (pres	Mection	(m:	ap set?
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? Yes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? 디 Yes 더 No	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	☑ Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: R07-13
Today's date: 10/13/17	Time (Military): 1437
Rainfall (in.): Last 24 hours: O Last 48 hours: O	Form completed by: Two
General Location: Biggio South of Martins Aquatic center	

LOCATION	MAT	ERIAL	s	НАРЕ	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	□ RCP□ PVC□ Steel□ Other:	☐ CMP	□ Circular □ Eliptical □ Box □ Other:	Single Double Triple Other:	Diameter/Dimensions: 36"	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	~~~	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	Ū∕No	If No, S	kip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

INDICATOR CHECK if Present Odor Odor	CHECK if Present	Sewage Suffide	Rancid/s	DESCRIPTION sour □ Petroleum/gas	Sug	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3) 3 - Noticeable from a distance
Color		Clear	☐ Brown ☐ ☐ Orange ☐	☐ Gray	☐ Yellow ☐ Other:	1 – Faint colors in sample bottle	☐ 2 — Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Fioatables -Does Not include Trashi!		Sewage (Toilet Paper	, etc.)	Suds		1 – Signi cioudiness 1 – Few/slight, origin not obvious	2 – Ciotady 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
INDICATOR CHECK if Present	CHECK if Present	Present	resent; T es		(J No, Skip to Section 6) DESCRIPTION	ction 6)	COMMENTS	S
Outfall Damage]	Spalling, Crac	Spalling, Cracking or Chipping Corrosion	ing Peeling Paint	int		
Deposits/Stains			Oily Flow Line	/ Line	uint 🔲 Other:			
Abnormal Vegetation			☐ Excessive ☐	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:	en		
Pipe benthic growth			☐ Brown ☐	Orange	☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	II Outfall Cha	ıracterizati	noi					
Unlikely] Potential (pres	sence of two c	Potential (presence of two or more indicators)		Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Jollection	-						
1. Sample for the lab?	25		☐ Yes	S. S.				

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

OBM

If Yes, type:

☐ Pool

☐ Flow

3. Intermittent flow trap set? 2. If yes, collected from:

Section 1: Background Data

Subwatershed: PMC	Outfall ID: R07-14
Today's date: 10/13/17	Time (Military): 1448
Rainfall (in.): Last 24 hours: U Last 48 hours: U	Form completed by: The
General Location: Biggio South of Martins Aquatic Center (street runoff)	

	T				T	
LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	24"	☐ Partially ☐ Fully
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple		
	Other:		☐ Other:	Other:		With Sediment: No Partially
						☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	Latinen		☐ Parabolic		Top Width:	
_ open ermange	☐ rip-rap					
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	☑ No	If No, Ski	ip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

				ting	1				l								
(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	it words	Š											
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)	humpers of The	COMMENTS							f3)			Township of the second	
RELA	1 – Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	1 – Few'slight; origin not obvious	tion 6) Everant		11			u			Suspect (one or more indicators with a severity of 3)			weight by de la control of the forest statement of the	OBM Caulk dam
(J No, Skip to Section 5) PTION	n/gas	☐ Yellow ☐Other:			ring Outfalls (ffNo, Skip to Section 6)	DESCRIPTION	pping 🔲 Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more in				If Yes, type:
DESCRIPTION	Rancid/sour Petroleum/gas	n Gray ge Red	See severity	etc.) 🗌 Suds	ınd Non-Flow □ Yes ⊡⊀6		ng, Cracking or Chipping sion	☐ Flow Line ☐	ve 🔲 Inhibited	Colors Excessive Algae	☐ Orange		licators)		ow 🖸	☐ Pool	N No
T CS		ar 🔲 Brown		Sewage (Toilet Paper, etc.)	th Flowing a		☐ Spalling, C☐ Corrosion	U Oily	☐ Excessive	Odors Suds	☐ Brown	ization	Potential (presence of two or more indicators)		☐ Yes	Flow	☐ Yes
Cif Int	Sewage 🗌 Sulfide	Clear		Sew	tors for Bo	CHECK if Present						Character	(presence of				
CHECK if Present					cal Indica ors that are 1	CH						II Outfall	☐ Potentia	Collection	ab?	from:	/ trap set?
INDICATOR CHECK if Present	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely [Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

(Mt BOUND (BUS)

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET

Section 1: Background Data

Outfall ID: R07-15
Time (Military): 1456
Form completed by: TMC

LOCATION	MAT	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	RCP	⊠ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	72"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		☐ Box	☐ Triple	•	☐ Fully
	Other:		Other:	Other:		With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	Yes Yes	☐ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? CHECK IF INDICATOR DESCR.	Il Indicators 1 ors Present in the CHECK if	for Flowing	g Outfalls s		(Lf No, Skip to Section 5)		RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage	Rancid/sov	Rancid/sour Petroleum/gas	as	1 – Faint	2 – Easily detected	m
		Sulfide	Other:		***************************************		The state of the s	חואמונכ
Color		☐ Clear	☐ Brown ☐ Orange	☐ Gray ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 – Slight cloudiness	2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)) Suds		☐ 1 — Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing an Are physical indicators that are not related to flow present?	I Indicators	for Both Fated to flow p	lowing and	nd Non-Flowing Outfalls Tes ANo (HNo, Sk	ng Outfalls (If No, Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	Present		DE	DESCRIPTION		COMMENTS	S
Outfall Damage		,	Spalling, (Spalling, Cracking or Chipping Corrosion	ng Deeling Paint	ınt		
Deposits/Stains			□ Oily □ F	☐ Flow Line ☐ Paint	int Other:			
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:	en		
Pipe benthic growth			☐ Brown	☐ Orange	☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	l Outfall Cha	ıracterizati	ion					
[더 Unlikely	Potential (presence of two or more indicators)	sence of two	or more indica		Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of3) 🔲 Obvious	
Section 6: Data Collection	ollection							
1. Sample for the lab?	نځ		☐ Yes	ů E				
2. If yes, collected from:	om:		☐ Flow	☐ Pool				
3. Intermittent flow trap set?	rap set?		☐ Yes	% □	If Yes, type:	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: R07-16
Today's date: 10/13/17	Time (Military): 1512
Rainfall (in.): Last 24 hours: D Last 48 hours: D	Form completed by: TMV
General Location: North of index forthall field	
General Location: North of indoor football field	

LOCATION	ГАМ	ERIAL	SI	IAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	24"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		Box	☐ Triple		☐ Fully
	Other:		☐ Other:	Other:		With Sediment: ☐ No
				3		☐ Partially ☐ Fully
	☐ Concrete			100		
☐ Open drainage	☐ Earthen		☐ Trapezoid		Depth:	
	□ гір-гар		☐ Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	☑ No	If No, Sk	ip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? Yes EANO	Indicators in Present in the	for Flowing	g Outfalls	Only (IfNo, S	(HNo, Skip to Section 5)			
INDICATOR	CMECK if Present		ם	DESCRIPTION		RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sor ☐ Other:	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	gas	🗌 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	☐ Gray ☐ Red	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 — Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	Sewage (Toilet Paper, etc.)) Suds		☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	Indicators Ithat are not rela	for Both FI ted to flow pr	lowing and	nd Non-Flow	ing Outfalls (JfNo, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	Present			DESCRIPTION		COMMENTS	ß
Outfall Damage			Spalling, (Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint			
Deposits/Stains				☐ Flow Line ☐ P	☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			☐ Odors ☐ Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Jgae ☐ Other:			
Pipe benthic growth			☐ Brown	☐ Orange	☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	Outfall Cha	racterizati	on					
☑ Unlikely	Potential (presence of two or more indicators)	ence of two o	r more indica	itors)	Suspect (one or more indicators with a severity of 3)	ndicators with a severity	of3) □ Obvious	
Section 6: Data Collection	Nection							
1. Sample for the lab?		***************************************	□ Yes	ov Fe				
2. If yes, collected from:	m:		Flow	Pool				
3. Intermittent flow trap set?	up set?		☐ Yes	No □	If Yes, type:	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET (YP. POUND (DAN)

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-12
Today's date: 10/13/17	Time (Military): 1532
Rainfall (in.): Last 24 hours: D Last 48 hours: D	Form completed by: Tipe
General Location: Coliseum (smaller round pipe on the left)	
pp on all 122)	

LOCATION	МАТ	ERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	⊠ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	48"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		☐ Box	☐ Triple		Fully
	Other:		Other:	Other:		With Sediment:
						☐ Partially ☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	□ гір-гар		Parabolic		Top Width:	
	Other:	- Markey -	Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☑ Yes	□ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☑ Substantial			

g Outfalls Only Skip to Section 5)	DESCRI	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 - Faint ☐ 2 - Easily detected distance		See severity $\Box 7 - \text{Slight cloudiness}$ $\Box 2 - \text{Cloudy}$ $\Box 3 - \text{Opaque}$	Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 – Few/slight; origin of origin (e.g., obvious origin ont obvious origin (oil sheen) ☐ Other:	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are abysical indicators that are not related to flow present?	DESCR	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	tion	or more indicators) \Box Suspect (one or more indicators with a severity of 3) \Box Obvious		□ Yes □ No	□ Flow □ Pool	☐ Yes ☐ No If Yes, type: ☐ OBM ☐ Caulk dam
cction 5)		. □ 1 – Faint	W	For 1 – Slight cloudi	☐ 1 — Few/slight, o not obvious	utfalls IFNo. Skip to Section 6)	PTION		Other:					ect (one or more indicators with a s				□ OBM □
Only	DESCRI	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Gray ☐ Red	See severity	, etc.)	lowing and Non-Flowing O	DESCR		☐ Flow Line		Colors	☐ Orange	ion	nore indicators)				
ndicators for Flowing	1	Sewage Sulfide	Clear	À	Sewage (Toilet Paper	ndicators for Both F	CHECK if Present						utfall Characterizat	Potential (presence of two or more indicators)	ection			
Section 3: Physical Indicators for Flowing Outfalls	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely Pc	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-13
Today's date: 10/13/17	Time (Military): \\\ \frac{1533}{3}
Rainfall (in.): Last 24 hours: O Last 48 hours: O	Form completed by: pwc
General Location: Coliseum (larger right pipe)	

LOCATION	МАТ	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	96"x72"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		☐ Fully
	Other:		☐ Other:	☐ Other:		With Sediment:
						☐ Partially ☐ Fully
	☐ Concrete					
☐ Open drainage	☐ Earthen		☐ Trapezoid		Depth:	
	□ гір-гар	:	☐ Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☑ Yes	☐ No	If No, Ski	p to Section 5		
Flow Description (If present)	Trickle	☐ Moderate	Substantial			

	2000000	from a	ble in		n clear oil r floating rials)								1				
	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		TS										
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS							of 3)			
	REL	🗌 1 – Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	1 – Few/slight, origin not obvious	tion 6)		11			u			Suspect (one or more indicators with a severity of 3)			
t (If No, Skip to Section 5)	DESCRIPTION	Petroleum/gas	Gray Yellow Red Other:	See severity	□ Suds □ Other:	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	DESCRIPTION	ng or Chipping 🔲 Peeling Paint	ine 🔲 Paint 🔲 Other:	☐ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		Suspect (one or more i		्रें	☐ Pool
ving Outfalls Only	DESCF	e Rancid/sour Petroleum/gas	☐ Brown ☐ ☐ Orange ☐	See	☐ Sewage (Toilet Paper, etc.) ☐ ☐ Petroleum (oil sheen) ☐	Flowing and Non		Spalling, Cracking or Chipping Corrosion	Oily Flow Line	☐ Excessive ☐ In	Odors C	☐ Brown ☐ C	ation	o or more indicators)		☐ Yes	Flow
ors for Flow n the flow? □	ıf L	Sewage Sulfide	Clear Green		Sewag	ors for Both	CHECK if Present						Characteriz	Potential (presence of two or more indi			
ical Indicat icators Present i	CHECK if Present					ical Indicat	CHE			u			all Outfall	Dotential	Collection	lab?	d from:
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? Yes No.	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

□ OBM

If Yes, type:

s U

☐ Yes

3. Intermittent flow trap set?

Section 1: Background Data

Outfall ID: S07-16
Time (Military): 1542
Form completed by: †WC

	T			***************************************		
LOCATION	MATI	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	RCP PVC Steel Other:	☐ CMP	□ Circular □ Eliptical □ Box □ Other:		Diameter/Dimensions: 18"	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	_	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	□ No	If No, Ski	p to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected distance	\square 2 — Clearly visible in \square 3 — Clearly visible in sample bottle outfall flow	oudy 3 - Opaque	□ 2 — Some; indications of origin (e.g., obvious oil possible suds or oil sheen, suds, or floating sheen)		COMMENTS							□ Obvious				
	RELATIVE SE			oudiness										a severity of 3)] Caulk dam
		☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious	to Section 6)		Peeling Paint			☐ Oil Sheen ☐ Other:	ther:		Suspect (one or more indicators with a severity of 3)				OBM
ls Only o (If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	Gray Yellow Red Other:	See severity	etc.) 🗌 Suds 🔲 Other:	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	DESCRIPTION	racking or Chipping	☐ Flow Line ☐ Paint ☐ Other:	ve 🔲 Inhibited	☐ Colors ☐ Floatables ☐ Oi ☐ Excessive Algae ☐ Oi	☐ Orange ☐ Green ☐ Other:		ators)		्रम	☐ Pool	□ No If Yes, type:
or Flowing Outfalls		☐ Sewage ☐ Rancid ☐ Sulfide ☐ Other:	☐ Clear ☐ Brown ☐ Green ☐ Orange		☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	nr Both Flowing a	esent	Spalling, C	Oily	☐ Excessive	Odors 🔲 Suds	☐ Brown	acterization	Potential (presence of two or more indic		☐ Yes	Flow	☐ Yes
al Indicators for	CHECK if Present					al Indicators for that are not relate	CHECK if Present		П				ll Outfall Char		Collection	55	rom:	trap set?
Section 3: Physical Indicators for Flowing Outfalls Are Any Physical Indicators Present in the flow? No	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-17
Today's date: 10/13/12	Time (Military): 1543
Rainfall (in.): Last 24 hours: **\mathcal{O} Last 48 hours: **\mathcal{O}\$	Form completed by: Mc
General Location: Biggio North of Field House (larger opening on the right circular	pipe in box)

LOCATION	МАТ	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	□ PVC □ HDPE		☐ Eliptical	☐ Double	24"	☐ No ☐ Partially
⊠ Closed Pipe			☐ Box ☐ Triple			☐ Fully
	Other:		Other:	☐ Other:		With Sediment:
						☐ Partially ☐ Fully
·	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	□ гір-гар		☐ Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	hen collecting s	samples)			
Flow Present?	☐ Yes	□√No	If No, Skij	o to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Se	Section 3: Physical Indicators for Flowing Outfall. Are Any Physical Indicators Present in the flow? Yes N	I Indicators 1	for Flowing flow? □ Yes	g Outfalls s □No	ls Only Io (If No, Ski	(If No, Skip to Section 5)			
	INDICATOR	CHECK if Present		Ц	DESCRIPTION		RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
	Odor		Sewage Sulfide	Rancid/so	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	as	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
	Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
	Turbidity				See severity		☐ 1 — Slight cloudiness	□ 2 – Cloudy	3 – Opaque
	Floatables -Does Not Include Trash!!		Sewage (Toilet Paper.	Sewage (Toilet Paper, etc.)) Suds Other:		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Se	Section 4: Physical Indicators for Both Flowing a Are physical indicators that are not related to flow present?	I Indicators	for Both F	2 2	$\begin{array}{ccc} \mathbf{nd} \ \mathbf{Non-Flowing} \ \mathbf{Outfalls} \\ \square \ \mathbf{Yes} \ \ \square \ \mathbf{Ves} \ \ \square \ \mathbf{Ve} \end{array}$	ng Outfalls (ff No, Skip to Section 6)	tion 6)		
	INDICATOR	CHECK if Present	Present		DE	DESCRIPTION		COMMENTS	S
	Outfall Damage			Spalling,	Spalling, Cracking or Chipping Corrosion	ng Peeling Paint	-		
<u> </u>	Deposits/Stains			Oily D	☐ Flow Line ☐ Paint	nt Other:			
Ĺ	Abnormal Vegetation			☐ Excessive	☐ Inhibited				
	Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen ;ae ☐ Other:	u		
	Pipe benthic growth			☐ Brown	☐ Orange	Green Other:			
Š	Section 5: Overall Outfall Characterization	Outfall Cha	racterizati	lon					
[4.]	☑ Unlikely	Potential (presence of two or more indicators)	ence of two c	or more indica		Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of3) 🔲 Obvious	
Se	Section 6: Data Collection	ollection			ļ				
1	Sample for the lab?	ζ.] Yes	on 🖸				
2.	If yes, collected from:	:m:		Flow	☐ Pool				
3.	Intermittent flow trap set?	ap set?		☐ Yes	% 	If Yes, type:	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

If Yes, type:

Section 1: Background Data

Outfall ID: S07-18
Time (Military): 1550
Form completed by: TMC

	7		T			
LOCATION	MAT	TERIAL	Si	HAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□ СМР	☐ Circular	⊠ Single	Diameter/Dimensions:	In Water:
	☐ PVC ☐ HDPE		☐ Eliptical	☐ Double	37"25"	☐ No ☐ Partially
⊠ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		Fully
	Other:		☐ Other:	Other:		With Sediment:
			·			☐ Partially ☐ Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		Parabolic		Top Width:	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable w	vhen collecting :	samples)			
Flow Present?	☐ Yes	☑ No	If No, Sk	ip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Section 3: Physical Indicators for Flowing Outfall	al Indicators 1	for Flowing flow? □ Yes	Ig Outfalls Only section S \square No $(IfNo, Skip to Section 5)$			
INDICATOR	CHECK if Present		DESCR	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:		2 – Basily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ Orange □ Red □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing an Are physical indicators that are not related to flow present?	al Indicators	for Both Fl ted to flow pi	nd Non-Flowing C □ Yes ☑⊀6	Putfalls (If No, Skip to Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Pee	Peeling Paint		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:		A	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ ☐ Suds ☐ Excessive Algae ☐	☐ Oil Sheen ☐ Other:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐	Other:		
Section 5: Overall Outfall Characterization	II Outfall Cha	racterizati	ion			
☐ Unlikely ☐	Potential (pres	ence of two o	☐ Potential (presence of two or more indicators) ☐ Suspect (one or	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	Collection					

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Caulk dam

If Yes, type: OBM

FONO Pool No

Tes How Yes

Sample for the lab?
 If yes, collected from:
 Intermittent flow trap set?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: S07-19
Today's date: 10/13/17	Time (Military): 1461
Rainfall (in.): Last 24 hours: D Last 48 hours: O	Form completed by: TMC
	•
General Location: Biggio North of Field House (circular outfall on right)	

LOCATION	ТАМ	ERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	☐ RCP ☐ PVC ☐ Steel ☐ Other:	☐ CMP	□ Circular □ Eliptical □ Box □ Other:	⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	hen collecting	samples)			:
Flow Present?	☐ Yes	☑ No	If No.,	Skip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

(Jf No, Skip to Section 5)	RELATIVE SEVERITY INDEX (1-3)	☐ 1 — Faint ☐ 2 — Easily detected distance	\Box Yellow \Box 1 − Faint colors in \Box 2 − Clearly visible in sample bottle sample bottle sample bottle sample bottle	\square 1 – Slight cloudiness \square 2 – Cloudy \square 3 – Opaque	☐ 2 — Some; indications ☐ 3 - Some; origin clear of origin (e.g., obvious oil not obvious on obvious sheen) ☐ 1 — Few/slight; origin possible suds or oil sheen, suds, or floating sheen)	nd Non-Flowing Outfalls Yes Vo (JfNo, Skip to Section 6)	DESCRIPTION	☐ Peeling Paint	□ Other:		☐ Floatables ☐ Oil Sheen gae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3) \Box Obvious				If Yes, type: OBM Caulk dam
lowing Outfalls Only □ Yes □ No	DESCRI	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	□ Clear □ Brown □ Gray □ Green □ Orange □ Red	See severity	Sewage (Toilet Paper, etc.) Suds	æ		Spalling, Cracking or Chipping Corrosion	Oily Flow Line	Excessive Inhibited	Odors Colors	☐ Brown ☐ Orange	ıcterization	Potential (presence of two or more indicators)		☐ Yes ☐ ₩	☐ Flow ☐ Pool	☐ Yes ☐ No
al Indicators for tors Present in the flow	CHECK if Present					al Indicators for sthat are not relate	CHECK if Present						II Outfall Chara	Potential (presen	Collection	6?	rom:	trap set?
Section 3: Physical Indicators for F Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashii	Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 5: Overall Outfall Characterization	Unlikely	Section 6: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Outfall ID: S07-20
Time (Military): 1556
Form completed by: TMC

LOCATION	MAT	ERIAL	S	НАРЕ	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	□ RCP □ PVC □ Steel □ Other:	☐ CMP		⊠ Single □ Double □ Triple □ Other:	Diameter/Dimensions: 36"	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	when collecting	samples)			
Flow Present?	Yes	☐ No	If No, S	kip to Section 5		
Flow Description (If present)	☑ Trickle	☐ Moderate	☐ Substantial			

(If No, Skip to Section 5)

Section 3: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?
Yes Ano

INDICATOR	CHECK if Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper.	 Sewage (Toilet Paper, etc.) □ Suds Petroleum (oil sheen) □ Other: 	☐ 1 – Few/slight, origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 4: Physical Indicators for Both Flowing Are physical indicators that are not related to flow present?	I Indicators f	for Both Fl ted to flow pi	Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Wo (f/No, Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	LS.
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	nt	,	
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 5: Overall Outfall Characterization	Outfall Cha	ıracterizati	on			
☐ Unlikely	Potential (pres	sence of two c	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	of3) \square Obvious	
Section 6: Data Collection	ollection					
1. Sample for the lab?	ڼ		□ Yes			
2. If yes, collected from:	:mc		Tlow Pool			
3. Intermittent flow trap set?	rap set?		☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FIELD SHEET (YR REUND GON)

Section 1: Background Data

Outfall ID: T07-14
Time (Military): 1605
Form completed by: TMC

LOCATION	MA	TERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
	⊠ RCP	□СМР	☐ Circular	☐ Single	Diameter/Dimensions:	In Water:
1	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	72"x96"	☐ No ☐ Partially
☑ Closed Pipe	☐ Steel		⊠ Box	☐ Triple		
	Other:		☐ Other:	☐ Other:		With Sediment: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream		hen collecting s	samples)	-		<u> </u>
Flow Present?	Yes	□No		Skip to Section 5		-
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial			

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Background Data

Subwatershed: PMC	Outfall ID: T07-17
Today's date: 10/13/17	Time (Military): 1610
Rainfall (in.): Last 24 hours: D Last 48 hours: D	Form completed by: TMC
General Location: Donahue @ Wellness Kitchen (small pipe on right)	
Contract Bootston. Donaido (weiliess Kitelien (sinan pipe on fight)	

LOCATION	MA	TERIAL	S	НАРЕ	DIMENSIONS (IN.)	SUBMERGED
⊠ Closed Pipe	⊠ RCP □ PVC □ Steel □ Other: _	☐ CMP	☐ Circular ☐ Eliptical ☐ Box ☐ Other:	Single □ Double □ Triple □ Other:	Diameter/Dimensions:	In Water:
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable v	then collecting s	amples)			<i><u> </u></i>
Flow Present?	☐ Yes	☑ No	If No, Sk	ip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial			

Section 3: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?