

**NPDES Phase I
Medium Municipal Separate Storm
Sewer System (MS4)
2016 – 2017 Annual Report**

**For
Tybee Island, Georgia
Permit Number: GAS000212**

Phase I Municipal Separate Storm Sewer System (MS4) Annual Report

Part I. General Information

- A. Name of Permittee: *City of Tybee Island*
- B. Mailing Address: *403 Butler Avenue
Tybee Island, Georgia 31328*
- C. Contact Person: *Joe Wilson; Public Works Director*
- D. E-Mail Address: *JWilson@cityoftybee.org*
- E. Telephone Number: *(912)786-4573*
- F. Reporting Period (Month/Year-Month/Year): *April 1, 2016 – March 31, 2017*
- G. List any other party or parties responsible for implementing the Storm Water Management Plan (SWMP) or a plan component during this reporting period: If not previously submitted, provide a Memorandum of Agreement: *The Chatham County – Savannah Metropolitan Planning Commission (MPC) Natural Resources Staff oversee specific components of the MS4 program. Some of the duties performed by MPC staff throughout the year under the requirements of the NPDES Stormwater Management Program on behalf of the permittee include: Illicit Discharge Monitoring; Assistance with Stormwater and other related ordinances; Annual Reporting; Staff Pollution Prevention Training; Education and Outreach; and MPC Natural Resources website maintenance.*

H. Certification Statement:

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

Signature: _____

Printed Name: *Jason Buelterman*

Title: *Mayor, Tybee Island, Georgia*

Date: *4/27/17*

Part 2- Implementation Status of SWMP Components

A. Structural and Source Control Measures

1. Structural Controls

For the purpose of this report, the municipality is viewing any ditches, catch basins, detention/retention ponds and the associated storm drain lines as structural controls since they all were constructed to control water quantity.

- a. How many permanent control structures for which the MS4 is responsible were added during this reporting period? *The City added thirty-one (11) catch basins and 958 feet of storm line to the drainage system.*
- b. Including the structures added this reporting period, what is the total number of permanent control structures that the permittee is responsible for inspecting and maintaining? *Please refer to the attached documents for a complete inventory of the City’s Source Control Structures (Part 2-A1b Tybee Catch basins 2016-2017.xlsx, Part 2-A1b Tybee detention ponds 2016-2017.xlsx, and Part 2-A1b Tybee ditches 2016-17.xlsx).*

The City is responsible for maintaining: 611 catch basins, 2 detention ponds, 41 outfalls plus an additional 12.21 miles of storm drain pipes and 15.5 miles of ditches.

- c. What is the frequency at which permanent control structures were inspected or maintained during this reporting period? *Tybee’s goal is to annually inspect the MS4’s system facilities to allow for all (100%) of the City’s structures to have been inspected within a five-year timeframe. As stated in the City’s approved Stormwater Management Program, in order to allow time for the City to develop the resources necessary to be able to accomplish this inspection schedule, the City will annually “ramp up” the percentage of MS4 system facilities inspected according to the table below.*

Due to Hurricane Mathew that made landfall on Tybee Island on October 8th, 2016, the entire control structure system for the City was inspected and cleared of debris.

Tybee Island MS4 Inspection Schedule

Year	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Percent Inspection	10%	15%	20%	20%	20%

- d. How many permanent control structures were inspected during this reporting period:

Structure	Number Inspected	Percentage of Total
catch basins	611	100%
ditches	15.5 miles	100%
detention/retention ponds	2 (public)	100%

storm drain lines	12.21 miles	100%
outfalls	41	100%

e. How many permanent control structures were maintained during this reporting period:

catch basins	611_____per reporting period
ditches (miles or linear feet)	15.5miles_____ per reporting period
detention ponds	2_____ per reporting period
storm drain lines (miles)	12.2miles_____per reporting period

f. Describe any tasks associated with control structure inspection and maintenance (e.g. repairs), not addressed in the questions above: *The City inspects and/or maintains the catch basins and outfall ditches on an as-needed basis to ensure effective operation. Litter and sediment are removed from any City owned roadside ditches. Right of ways are mowed and excess emergent vegetation and litter is removed to ensure proper functioning of the ditches as well as to allow the maintenance staff a better line of sight to view any problems associated with the system.*

Unincorporated Chatham County currently has an agreement with Tybee Island to assist with the maintenance of major canals. A copy of the most recent inter-governmental agreement between the County and Tybee Island from 2013 was included with Chatham County’s 2013-2014 annual report.

2. Master Plan

a. Does your municipality have a comprehensive planning document (e.g. Master Plan), which in part addresses stormwater? Yes No

If the answer to A.2.a was “yes”, describe any changes made to the stormwater portion of the comprehensive planning document performed during the reporting period: *On October 27th, 2016, the City of Tybee Island officially adopted an update to its Comprehensive Plan. The current plan can be accessed from the Georgia Department of Community Affairs webpage:*

<http://www.dca.ga.gov/development/PlanningQualityGrowth/programs/currentplans.asp>.

The plan identifies needs and opportunities surrounding the public drainage system. The plan states the following as a goal: “Protect and preserve our environmentally sensitive areas, including beaches, natural terrain, drainage areas, vegetation, coastal marshlands, wildlife habitat and corridors, and floodplains.” The plan provides a great deal of detail on this topic in the section titled “Stormwater Quantity and Quality.” The previous plan iteration (2011 update of the Short-Term Work Program) included many mentions of drainage and stormwater goals.

Additionally, Tybee Island signed a resolution adopting the Chatham County Greenway Implementation Study that specifically cited the McQueen’s Island

Rails-to-Trails area as an area for further implementation. To ensure that drainage canals are maintained as required by State permits, and that proposed trails and adjacent habitats are properly maintained as green infrastructure, best management practices (BMPs) specific to canal greenway corridors were also developed into a BMP Maintenance Field Guide. The Guide is for maintenance crews/professionals seeking information on the design, construction, and maintenance of such features, and contains information on specific BMPs as well as access to relevant case studies.

3. Street Maintenance

- a. How many miles of streets were swept during the reporting period? *The total mileage of streets maintained during the reporting period of April 2016 - April 2017 was roughly 820. This total includes the main highways and major parking lots along the beach side which are maintained two times a week. The sand and debris is then dumped at a container in the public works yard and hauled off by Waste Pro. This schedule is necessary due to the large amounts of sand that blows in off of the beach on a weekly basis. To reduce polluted runoff originating from streets, roads, and highways from vehicle traffic, leaks and spills, and atmospheric deposition, the Department of Public Works oversees the sweeping of all curb and gutter roads in Tybee Island. Please refer to the attached documents (Part 2-A3a 2016-2017 Sweeper Log.pdf).*
- b. How many catch basins or inlets were cleaned during the reporting period? *Approximately 611 catch basins/inlets were cleaned during the reporting period.*
- c. Describe any litter removal activities performed during the reporting period (e.g. dates, people performing litter pickup, etc.), including the amount of debris removed (pounds or number of bags), if known: *The routine litter removal and ditch maintenance activities performed during the reporting period are normally done in-house on an as-need basis. The Highway 80 area and right of ways are done more frequently. The City has created a system for keeping track of the amounts of trash that is picked up throughout the City. There are also various organizations that conduct both highway and beach clean-up activities throughout the year to include the Marine Science Center, the Girl Scouts, Better Home Town, and the Tybee Island Beautification Committee. The Tybee Beautification Association has conducted 19 beach sweep events to clean up areas throughout the City and its beaches, with each sweep averaging 33-34 lbs. of trash per event. The most recent cleanup date was July 29, 2016 when the Tybee Beautification Association had large cleanups on Tybee Beach. A copy of info detailing the events are included. Please refer to the attached documents (Part 2-A3c TBA Beach Sweep Counts. pdf).*

The Tybee Beautification Association often has materials referencing the anti-litter campaign, Beach Sweep efforts, and the Adopt-A-Highway program available for residents and visitors. Other mechanisms for public outreach include the local City cable channel, water bills and the large Government marquis outside of City Hall. In addition, the City has a great deal of information to include its newsletter

newsfeed that are accessible to all residents and tourists on its website: www.cityoftybee.org.

The City also has a “Keep Tybee Tidy” anti-litter campaign to help educate residents and tourists about the importance of keeping the beaches clean and free of debris by placing posters, flyers and stickers in prominent locations and along the beach inside kiosks to advertise the message.

The City recycled 61.46 tons of yard materials and 55.52 tons of materials at the Atlantic Avenue compactor during the permit period.

- d. Describe any practices for maintaining streets that were not addressed in the questions above (deicing practices, road repair procedures, etc.): *The City repairs potholes, etc. throughout and ensures that land disturbances resulting from road construction is stabilized as much as necessary to prevent erosion from entering the waterways.*

4. Flood Management Projects

a. **New** flood management projects

1. Were any new flood management projects (e.g. wet or dry retention basins, channels) assessed for water quality impacts during the reporting period?
Yes ___ No X

2. If yes, provide the number of new projects where water quality assessments were performed:

b. **Existing** flood management projects

1. Were any existing flood management projects (e.g. wet or dry retention basins, channels) evaluated during the reporting period to determine if retrofitting the device for additional pollutant removal is feasible? Yes ___ No X

2. If yes, please provide details on the location of any existing flood management project(s) and the evaluation performed (date, what did evaluation consist of, outcome):

5. Municipal Waste Facilities

- a. The permittee must maintain and provide a current inventory of municipal waste facilities. Is an updated inventory attached to this report?

Yes ___ No ___ N/A X ___

The City of Tybee does not have any municipal waste facilities within its jurisdiction.

- b. Provide the total number of municipal waste facilities included on the inventory:
0

- c. Provide the number and percentage of municipal waste facilities inspected during the reporting period:
 Number N/A
 Percentage N/A
- d. SWMP Compliance
1. Did you comply with the inspection frequency described in the SWMP?
 Yes X No
 2. If not, describe the reason and provide the steps taken to comply with the SWMP during the next reporting period *N/A*
- e. Documentation of each inspection performed should be attached as an addendum to this report. Are completed inspection reports or some other type of documentation attached? *Please refer to the attached documents (Part 2-A5e 2016-2017 SWMP Inspections.pdf).*
 Yes X No N/A
- f. Describe any problems identified during the inspection and any corrective actions taken: *N/A*
- g. Were any control measures to reduce runoff implemented during the reporting period at the municipal waste facilities?
 Yes No N/A X
- If yes, provide details: *N/A*

6. Pesticide, Fertilizer, Herbicide Application

- a. Were any of the following tasks related to a pesticide, herbicide, and fertilizer management program completed during the reporting period:

Task Completed	Yes	No	Not Applicable
Developed or updated inventory of pesticides, herbicides, and fertilizers used by MS4	X		
Conducted municipal employee safety training in use, storage and disposal of chemicals	X		
Implemented program for municipal use of native or low-maintenance vegetation	X <i>(ongoing)</i>		

- b. Provide details for any tasks listed as completed in question Part 2.A.6.a above or describe any other programs or tasks performed during the reporting period (e.g. educational activities, certification of employees by Department of Agriculture,

procedures or practices, etc.) related to pollution reduction at municipal facilities and right-of-ways. Where appropriate, provide date(s) and other specifics:

Please refer to the attached documents for a current list of the City's Chemical inventory and a copy of City Staff who participated in Urban Landscape Training (Part 2-A6b Chemical Inventory (3-16-17).pdf and Part 2-A6b Tybee staff training certs.pdf).

Tybee Island has an on-going safety training program for all City employees involved in handling, storing, and application of all fertilizers, pesticides, and herbicides used within the City. Herbicides are bought on an as-needed basis however; a copy of the County's current inventory list of pesticide, herbicide or fertilizers used throughout the year for operations is included with the report. The City has a procedure manual for the application and handling process.

The MPC also administers a Xeriscape public education program on behalf of the City. Xeriscape is a landscaping ethic that encourages water and energy efficiency through specific principals. A Xeriscape landscape will be acclimated to the local climate and site conditions and therefore will require less chemicals and water to thrive. The less water and chemicals that are applied to the landscape the slighter the chances that the landscape will contribute to stormwater runoff or pollution. A link on the MPC's Natural Resources website links the City to information on Xeriscape practices

<http://www.mpcnaturalresources.org/natural-resources/xeriscape-waterwise-landscaping/>

Additionally, the MPC's Water Spout Newsletter that is distributed via e-mail to Tybee's schools, government buildings for employee and public distribution and is posted on the MPC's website for public viewing also contains pertinent Xeriscaping information. The MPC also maintains a public display about Xeriscape landscaping and displays it at public events.

- c. Provide details for any tasks or programs performed during the reporting period (e.g. educational activities, verification of certification, permitting procedures, etc.) related to pollution reduction by commercial applicators and distributors. Where appropriate, provide date(s) and other specifics:

On behalf of Chatham County and the Town of Thunderbolt, and the Cities of Bloomingdale, Garden City, Pooler, Port Wentworth, Savannah, and Tybee Island the MPC has developed and continues to coordinate the Community Partners for Clean Water program that provides Best Management Practices (BMP) education to local businesses/industries. These industries then implement water quality protection plans in return for free advertising and promotion. One of the industries targeted by this program is the landscaping industry, and the BMP Manual for this group includes information on Xeriscape and Integrated Pest Management. During the 2016-2017 permit period copies of educational materials were again distributed upon request to various landscape businesses in the City of Tybee Island area.

B. Illicit Discharge Detection and Elimination Program

1. a. Provide the date when the MS4's illicit discharge ordinance was adopted or last updated. *Tybee's Stormwater Ordinance that addresses illicit discharges was last updated on April 12, 2012.*
 - b. If the ordinance was updated during this reporting period, then a copy of the attested ordinance should be attached to this report. Is a copy of the ordinance attached? Yes ___ No ___ N/A X___
2. Provide information on illicit discharge detection activities, including such things as stream walks, smoke or dye testing, line televising, etc. (attach additional sheet(s) if necessary):

Type of Inspection	Details: who performed activity, date performed, number of facilities inspected, miles walked, etc.
<i>Routine Stream/Ditch Walks</i>	<i>The City's Public Works personnel routinely complete stream/ditch walks during routine maintenance activities as well as specified times throughout the calendar year. If at any time anything suspicious is found (foam, floatables, odor, etc.), then the proper individuals are notified (leaky septic – County Health Dept., drainage issue or sanitary sewer – Public Works Dept., structural – City Engineer.) Each department then addresses the issue until resolved. These inspections are done on a systematic basis as well as in response to complaints.</i>
<i>Septic System Inspection Program</i>	<i>The Chatham County Health Department inspects septic systems on Tybee Island during construction of the system and before usage to ensure proper design and installation. The Health Department will also inspect existing septic systems if there are any indications of failure including complaints, odor, or triggers found during dry weather screening/stream walks. If the Health Department discovers a malfunctioning septic system, it will require the owner to have the system pumped and maintained as necessary.</i>

3. Provide information on field screening activities conducted during the reporting period:
 - a. Outfall Inventory

1. The permittee must maintain a current inventory of all of the MS4 outfalls. How many outfalls, owned or operated by the MS4, were added during the reporting period? *There were no outfalls added during the permit period.*
2. If any outfalls were added during the reporting period, then an inventory of these additional outfalls should be attached as an addendum to this report. Is an inventory attached? Yes___ No___ N/A X___
3. What is the total number of outfalls on the storm sewer system? *Please refer to the attached document (Part 2-B3a3 Outfalls.pdf). The City has 41 outfalls within the storm sewer system.*

b. Outfall screening

1. How many outfalls were screened by the MS4 during the reporting period? *Please refer to the attached documents (Part 2-B3b1 2016-2017 Dry Weather Screenings.pdf). Nine (9) outfalls were screened during the reporting period and as previously noted, all outfalls in the system were again inspected and cleaned of debris post-Hurricane Mathew.*
2. Provide the percentage of the total number of outfalls screened during the reporting period: 100%
3. Did you comply with the inspection frequency described in the SWMP? Yes X No ___
4. If not, describe the reason and provide the steps taken to comply with the SWMP during the next reporting period: *N/A*
5. Of the outfalls screened during the reporting period, at how many of the outfalls did the MS4 identify flow? *Of all of the outfalls screened 5 had flow, all related to ebb tide on the Island.*
6. At a minimum, attach completed outfall inspection forms for any outfalls that had flow. Are inspection forms attached? Yes X No ___
7. For those outfalls with dry weather flow detected, provide information on the results of source identification activities. If laboratory testing was performed in order to verify a pollutant identity, then complete the last column of the table (attach additional sheet if necessary):
For each site that had flow, there is an initial tracing of the flow up the line until a dry section of pipe is found without any potential sources identified, such as nearby residence, commercial business, or industry.

Tybee Island's drainage system and conveyance system is directly impacted by the twice daily fluctuations in tides and are therefore often submerged. Upon

investigation, of the sites with flow, each was found to be directly related to an outgoing tide. Tybee Island did not encounter any illicit discharges during its routine investigations and stream/canal walks; therefore, no on-site sampling was performed. If an illicit discharge had been found the MPC would have been called and the appropriate forms completed and actions taken. In summary, none of the outfalls had any issues that needed resolving.

Outfall Designation (number or location)	Date Field Screening Performed	Date Laboratory Testing Performed
<i>See sheets for specific outfall numbers.</i>	<i>The flow from each was found to be normal and directly related to an outgoing tide. In summary, none of the outfalls had any issues that needed resolving. All information was documented on the dry weather screening forms attached.</i>	<i>N/A</i>

8. For those outfalls with dry weather flow identified, describe the source tracing activities taken to identify the source, the identified source, and if the source was eliminated (attach additional sheets if necessary): *For each site that had flow, there is an initial tracing of the flow up the line until a dry section of pipe is found without any potential sources identified, such as nearby residence, commercial business, or industry.*

Tybee Island’s drainage and conveyance system is directly impacted by the twice daily fluctuations in tides and are therefore most often submerged. Upon investigation, of the sites with flow, each was found to be directly related to a surcharged system and outgoing tide. Tybee Island did not encounter any illicit discharges during its routine investigations and stream/canal walks; therefore, no on-site sampling was performed. If an illicit discharge had been found the MPC would have been called and the appropriate forms completed and actions taken. In summary, none of the outfalls had any issues that needed resolving. All information was documented on the dry weather screening forms attached.

Although the MS4s’ drainage systems are tidally influenced, Tybee Island has investigated the outfalls to determine if there are possible locations upstream from the outfalls that might be dry.

9. Provide information on any enforcement actions taken for an illicit discharge during the reporting period: *N/A*
4. Provide information on any spill incidents that occurred during the reporting period, in which a substance entered the storm sewer system (e.g. sanitary sewer overflows, HAZMAT incidents, etc.) (attach additional sheet if necessary): *There were no spills that occurred during the reporting period.*

Spill Date	Spill Location	Party Responsible for Spill	Substance(s) Spilled	Amount Spilled
N/A	N/A	N/A	N/A	N/A

- Describe any activities performed during this reporting period to publicize and facilitate public reporting of illicit discharges (provide details, where appropriate):

The City of Tybee Island newspaper routinely places articles on clean-up efforts and non-point source pollution, to include illicit discharge activities, in the City's quarterly newspaper that is distributed to the area's residents and businesses as well as available at City Hall. The City's monthly magazine the "Tybee Breeze" also has a newsletter www.thetybeetimes.net that is available online and often has articles on these same natural resource issues. Associated with these articles are phone numbers that the general public may call to report any illicit discharge activities. The City also has a column in the "Tybee Breeze" newspaper where information for residents can be found as well as well as promotes activities, restrictions, warnings, etc. on the City's billboard outside City Hall and on its website: <http://www.cityoftybee.org/>

Tybee Island participates in the MPC's Storm Drain Marking program. This program is currently administered by MPC to educate the public about stormwater pollution prevention and the proper disposal of potential pollutants. The MPC coordinates the participation of schools, volunteer groups, and civic groups (i.e. local Boy and Girl Scouts) that assist the City with the marking projects.

Additionally, the MPC coordinates the Countywide Adopt – A- Stream program that enlists volunteer groups to both monitor the health as well as clean up local waterways for a year. Volunteer groups receive free training and equipment through the UGA MAREX Adopt-A-Wetland Training Program. The MPC sends public and private schools in Tybee information about this program and any opportunities for participation each year. Promotional information is also distributed during outreach events, mailed annually to Tybee's schools, included in the Water Spout Newsletter, available to the public online at www.MPCNaturalResources.org and at Tybee's City Hall.

- Provide information on each complaint related to an illicit discharge received during the reporting period, including the nature of the complaint, investigatory actions, and the status of resolution: *There were no complaints related to illicit discharges received during the permit period.*
- Describe any activities performed during this reporting period to facilitate the proper management and disposal of used oil and toxic materials, including educational activities, household waste collection programs, etc. (provide details where appropriate, such as dates):

Both orphan tires and yard waste is collected within the right of way throughout Tybee Island. In addition, abandoned white goods/appliances are collected within the right of way and disposed of properly at the City's scrap metal locations (after properly evacuating the refrigerants/coolants).

Additionally, a 30 second spot was produced and aired on the local government channels and cable channels educating citizens county-wide on non-point source pollution, water quality and the proper disposal of pollutants.

Tybee Island developed an educational brochure on best management practices for painting operations entitled "Painting without Pollution". The materials covered the issues that the improper handling of painting products can cause to the environment as well as the techniques for the proper cleanup and disposal of leftover paint. This brochure is now being distributed to anyone coming to the City for a painting business license as well as being mailed to area businesses.

The MPC is a contact for the Countywide Adopt – A- Stream program that enlists volunteer groups to both monitor the health as well as clean up local waterways. Volunteer groups receive free training and equipment through the UGA MAREX Adopt-A-Wetland Training Program. The MPC sends public and private schools information about this program and any opportunities for participation each year. Promotional information is also distributed during outreach events, mailed to area schools, included in the Water Spout Newsletter, available to the public at City Hall, and included on the MPC Natural Resources website for general public access. Training and materials are provided by UGA Marine Extension Service. MPC staff helps with the public outreach aspect of the program. MPC staff attempts to educate volunteers throughout all of Chatham County via public displays, brochures, and speaking engagements. The City and MPC will continue its efforts to recruit new volunteers from within the community.

The City participated in one event during the permit period to publicize the proper methods of waste disposal. The City of Tybee Island is constantly striving towards trying to remove hazardous materials from the landfills in this region. On both May 7, and November 12, 2016 the County had a document recycling and electronics recycling day at the County Resource Education and Drop- off Facility that all residents throughout the area could participate in. There was a set location that residents could bring any electronic equipment that they may have had sitting at their home or office as well as bring in any documents or paper for bulk shredding. There were over 1,700 cars between the 2 events and some of the items taken in that day included: Printers, monitors, laptops, TV's, servers, keyboards, and hard drives. Please refer to the attached Part 6 Education and Outreach document for outreach efforts regarding these events.

The City of Savannah and numerous stakeholders coordinated an annual Earth Day Festival that was held on April 16, 2016 in Forsyth Park in Savannah. The event was promoted through the following methods: magazines and publications, local television commercials, radio advertisements, local newspaper advertisements, billboards, websites, and MPC newsletters and posters. The posters advertising the event were hung at Savannah's City Hall (the County's main seat) and numerous locations

throughout the County where citizens from every municipality within the County could be informed of the event. By advertising in such a large capacity all of Chatham County was notified of the Earth Day events and afforded the opportunity to participate.

The State of Georgia's largest Earth Day event had 80 exhibitors, to include many from the local jurisdictions in addition to numerous organizations participated. Over 1,500 attendees could learn about water quality protection, wildlife and habitat conservation, waste recycling, and many other environmental efforts that are taking place in Chatham County and nearby areas. Many fun and educational activities were provided by Earth Day exhibitors, including the distribution of native trees and shrubs, touch tanks, solid waste exhibits, and solar power education stations. Some activities were targeted at just plain fun such as face painting, sea turtle toss games, and fun interaction with costume characters. Lastly, visitors were also able to buy local organic produce from the Forsyth Farmers Market.

Lastly, Tybee Island continues to expand its recycling program by offering weekly pickups for residential recycling instead of bi-weekly to make it easier for the residents to recycle. In addition, also has a stand-alone recycling drop off site that accepts the following materials year-round: Cardboard, plastic (#'s 1-7), aluminum, glass, white goods, and heavy metals.

One of the trash compactors on the south end of the island was changed out to single-stream recycling. Through that switch the City has recycled 55.52 tons. The single stream compactor at the Public Works yard has recycled 61.46 tons. This gives a total of 116.98 tons of recycling just with these two compactors. Please refer to the attached documents (Part 2-B57 Recycling Data.pdf).

8. Describe any activities performed during this reporting period to detect and eliminate seepage from municipal sanitary sewers to the storm sewer system: *Tybee currently has an inflow and infiltration program that includes visual inspections and dye testing as well as the sewer lines are inspected based on complaints and as a result of any abnormal findings during a dry weather screening.*

C. Industrial Facility Stormwater Discharge Control Program

1. Inventory

- a. The permittee must maintain a current inventory of industrial facilities that discharge to the storm sewer system. Is an updated inventory attached to this report?

Yes ___ No X *The City has no (0) industrial facilities.*

- b. Provide the total number of industrial facilities included on the latest inventory:
None (0)

2. Inspections

- a. Were any inspections of industrial facilities conducted during the reporting period?

Yes ___ No ___ NA X

b. If inspections of industrial facilities were performed, then a copy of each completed inspection report form must be attached as an addendum to this report. **(Note: The MS4 should ensure that the inspection report addresses storm water issues, not just industrial pretreatment requirements).** Are any industrial facility inspection reports attached? Yes ___ No ___ N/A X

c. Provide the number and percentage of the total number of industrial facilities inspected during the reporting period:

Number N/A

Percentage N/A

3. SWMP Compliance

a. Did you comply with the inspection frequency described in the SWMP?
Yes X No ___

b. If not, describe the reason and the steps taken to comply with the SWMP during the next reporting period: *N/A*

4. Monitoring

a. Was any monitoring of stormwater runoff from these industrial users conducted during the reporting period? Yes ___ No ___ NA X

b. The results of any monitoring performed should be attached as an addendum to this report. Are monitoring results attached?
Yes ___ No ___ NA X

5. Were any enforcement actions taken against industries for storm water violations during the reporting period? Yes ___ No X

If yes, provide details, including the number of enforcement actions, the violations addressed, etc.: *N/A*

6. Describe any educational activities performed during the reporting period that targeted industries: *Please see Part 6 Stormwater Education and Outreach for a description of the additional BMP educational activities overseen by the MPC.*

D. Construction Site Management Program

1. a. Are you an Issuing Authority? Yes X No ___

b. When was the MS4s ordinance to control soil erosion and sediment adopted or last updated? *Tybee's ordinance to control soil erosion and sediment was last updated on May 27, 2010. A copy of the new ordinance was previously included with the 2010-2011 annual report.*

- c. If the ordinance was adopted or updated during this reporting period, then a copy of the attested ordinance should be attached as an addendum to this report. Is a copy of the ordinance attached? Yes ___ No ___ N/A X
2. Provide information on any site planning procedures for construction projects performed during the reporting period:
- a. Number of site plans received: *There were 34 site plan received during the reporting period.*
 - b. Number of site plan reviews conducted: *There were 34 site plan reviews conducted during the reporting period.*
 - c. Number of site plans approved: *A total of 34 site plan reviews were approved during the reporting period. The reason for the difference in number of approved versus number denied is that some projects are reviewed several times before final approval and are currently still being reviewed.*
 - d. Number of site plans denied: *There were 19 site plans denied during the reporting period. However, these were first submittals so once plans were revised, they were approved by the City to be included in the number of plans approved (34).*
 - e. Other (please describe): 0
 - f. A list or table of site plans reviewed, denied, and/or approved during the reporting period should be provided. Is this information attached? Yes X No ___

Please refer to the spreadsheets showing the list of site plans reviewed, approved and denied during the 2016-2017 permit period (Part 2-D2f Plan Review.pdf).

3. Provide information on construction related permitting activities conducted during the reporting period:
- a. Number of land disturbing activity (LDA) permits issued: 0
 - b. A list or table of permits issued during the reporting period should be provided. Is this information attached? Yes ___ No X
 - b. List any other permitting activities performed and the number of permits issued: N/A

Type of Permit	Number of Permits Issued
N/A	N/A

4. Provide information on construction site inspections during the reporting period:

a. How many active construction sites were inspected during the reporting period?

There were 5 active construction sites inspected during the reporting period.

b. How many total inspections of these active construction sites were conducted during the reporting period? *There were 5 total inspections of active construction sites conducted.*

c. A list or table of active sites and the number and/or dates of inspections conducted on each of these sites should be provided. Is this information attached?

Yes X No *Please refer to the attached documents (Part 2-D4d Erosion Control Inspection.pdf).*

5. Provide information on enforcement activities (e.g. stop work orders, warning letters, etc.) at construction sites for erosion and sediment control violations taken during the reporting period (attach additional sheets if necessary): *There was 1 citation and 1 stop work order issued during the permit period.*

Please refer to the attached documents (Part 2-D4d Erosion Control Inspection.pdf).

Site Location	Type of Enforcement Action	Date of Enforcement
1)4 Billfish Lane Tybee Island, Ga.	Citation issued for tree removal and silt fence repair	July 29 th , 2016
2)6 Rosewood Ave.	Stop work order	July 25 th , 2016

To assist in educating those staff persons involved in construction activities, copies of the large two-sided poster “Stormwater and the Construction Industry” was distributed to all the jurisdictions for distribution to the owner/contractor at the beginning of a project. The posters can then be displayed on-site on the site’s informational boards as well at the jurisdiction’s City Halls. A pdf of the poster was also placed on the MPC website for the general public to view and download and can be found here: <http://www.mpcnaturalresources.org/educational-programs/bmp-educational-seminars/>

6. MS4 staff involved in construction activities must be trained and certified in accordance with the rules adopted by the Georgia Soil and Water Conservation Commission. Provide the staff name and type of each current certification (e.g. copies of certification cards, separate list). Is the information attached?

Yes X No

The staff certified is the following:

- Downer Davis: Level 2 Certified Personnel and IB Certified Inspector*

2. *Joseph Toole: Level IB IB Certified Inspector (Certified within the 2016-2017 reporting period. Please refer to attached copy of the Certification document (Part 2-D62 E&S cert.pdf))*
 3. *Cory Lauber: Level IA Certified Personnel and IB Certified Inspector*
 4. *Bruce Saunders: Level IA Certified Personnel*
- E. Highly Visible Pollutant Sources (e.g. commercial car washes, auto part stores, nurseries, home improvement stores, auto repair shops, gas stations, veterinarian clinics, kennels):
1. Inventory
 - a. The permittee must maintain a current inventory of HVPS facilities that discharge to the MS4. Is an updated inventory attached? Yes No *Please refer to the attached document (Part 2-E1a Tybee HVPS List 2016-2017.pdf).*
 - b. If any new HVPS were identified during the reporting period, what type(s) of facility were they? *N/A*
 - c. What is the total number of HVPS identified on the latest inventory? *There are 12 highly visible pollutant sources identified on Tybee Island.*
 2. Inspections
 - a. Were any inspections performed on HVPS during the reporting period? Yes No
 - b. Are copies of completed inspection forms attached? Yes No *Please refer again to the attached documents (Part 2-A5e 2016-2017 SWMP Inspections.pdf).*
 - c. Provide the number and percentage of the total number of HVPS facilities inspected during the reporting period:

Number

Percentage
 - d. Did you comply with the inspection frequency described in the SWMP? Yes No
 - e. If not, describe the reason and the steps taken to comply with the SWMP during the next reporting period: *N/A*
 3. For those HVPS facilities inspected during the reporting period at which the MS4 identified a problem, provide details as to any enforcement action taken by the MS4:

Facility Name	Facility Location	Action taken by MS4
N/A	N/A	N/A

4. Describe any educational activities performed during the reporting period that targeted HVPS:

Tybee identified dry cleaners and vehicle repair facilities as possible highly visible pollution sources and developed educational packets on best management practices for each. The outreach information covers the issues that the improper handling of materials can cause to the environment. These packets were mailed out to all the known applicable facilities within the City.

The MPC's Water Resources Program has teamed with the City in the hopes of educating residents on this source of nonpoint source pollution that has the potential to enter the area's waterways and impact water quality. A targeted source of pollution for education efforts for both the MPC and the UGA Marine Extension Agency (MAREX) has been pet waste and its effects on the coastal waterways. Area Code Enforcement officers continue to enforce pet ordinances in the City's parks where pet owners are cited when in violation of the City's pet waste removal ordinance. In addition, UGA MAREX created and distributed copies of the Promoting Animal Waste Stewardship (P.A.W.S.) brochures to assist in this education effort.

Lastly, the MPC has distributed and posted copies of four posters focusing on various non-point source pollution activities on its website at:

<http://www.mpcnaturalresources.org/educational-programs/bmp-educational-seminars/>

The subject matter includes:

- Proper pet waste disposal*
- Proper lawn fertilization techniques*
- Proper car washing techniques; and*
- Proper car maintenance practices.*

These posters were made available to all the jurisdictions within Chatham County for posting and distribution as well are available to any resident upon request.

Part 3- Changes to the SWMP

A. Update of MS4 areas

1. Were any additional areas added to the MS4 system? Yes ___ No X ___

a. If yes, was it through development of a previously undeveloped area?

Yes ___ No ___ N/A X ___

b. If yes, was it through annexation of an area? Yes ___ No ___ N/A X ___

B. Staffing

1. How many full-time equivalents were dedicated to implementing the SWMP during the reporting period? *Other than the MPC employee and outside engineering firm who assist with various portions of the SWMP program, their total number of man hours' equals ten full time employees dedicated to the administration of the SWMP during the reporting period.*
2. Did the amount of full-time equivalents dedicated to the administration of the SWMP during this reporting period differ from the previous reporting period either by an increase or decrease in numbers? Yes ___ No X

If yes, please explain whether it was a decrease or increase and the reason for the man-hour differences. *N/A*

Are there any changes to the SWMP proposed for the upcoming reporting period? If so, please describe: *Per approval by GA EPD, the City removed the section on "Private Structural Control Inspection Program" from its SWMP and is therefore no longer inspecting private stormwater ponds.*

Part 4- Assessment of Controls/ Fiscal Analysis

A. Assessment of Controls

1. Are revisions to the assessment of controls included in the approved SWMP necessary? Yes ___ No X
2. If yes, describe the necessary revisions: *N/A*

B. Fiscal Analysis

1. Reporting Period Expenditures

- a. What was the funding source(s) for this reporting period's expenditures? *The funding for this reporting period came from the City's General Fund budget.*
- b. A summary of the expenditures for the administration of the SWMP during the reporting period should be attached as an addendum to this report. Is a copy of last reporting period's expenditures attached? Yes X No ___ *Please refer to the attached documents (Part 4-B1b Tybee City budget and summary 2016-17.pdf).*

2. Next Reporting Period's Budget

- a. What will be the funding source for next reporting period's budget? *The funding for the next reporting period's budget will come from the City's General Fund budget with estimated additional funds through SPLOST.*

b. A summary of the proposed budget for the storm water management program for the next reporting period should be attached as an addendum to this report. Is a copy of the proposed budget for the next reporting period attached? Yes No
Please refer to the attached document (Part 4-B2b Tybee City budget and summary 2017-18.pdf).

Part 5- Impaired Waterbodies

A. Provide the following information for any impaired waterbodies located within your jurisdictional area which are included on the latest 305(b)/303(d) list: *There are no impaired waterbodies within Tybee’s jurisdiction.*

Name of Water	Pollutant of Concern
N/A	N/A

B. Was a new waterbody added to the 305(b)/303(d) list during **this** reporting period?
 Yes No

1. If yes, then you must develop a Monitoring and Implementation Plan. As part of the Plan, you must:

a. Provide a map showing the impaired waterbodies, all MS4 outfalls occurring on these waters or within one linear mile upstream, and sampling location(s). Is the map attached?
 Yes No N/A

b. If not, provide a schedule for completing the map: N/A

c. Develop a monitoring plan for each pollutant of concern, including the sample type, frequency, any seasonal considerations, and an implementation schedule for starting monitoring and confirming the location of all MS4 outfalls discharging to the segment. Is the monitoring plan attached?
 Yes No N/A

d. Was a Sampling and Quality Assurance Plan (SQAP) submitted to EPD? Yes
 No NA N/A

If yes, has the SQAP been approved by EPD? Yes No NA

e. Provide a list of BMPs to be implemented to address the pollutant of concern, including a description of each BMP and a schedule for implementation of these BMPs: N/A

C. Was a Monitoring and Implementation Plan developed during a **previous** reporting period?
Yes ___ No X

1. If yes, then you must:

a. Provide monitoring data and an assessment of the data for each pollutant of concern. Are monitoring data and an assessment attached?

Yes ___ No ___ NA X

b. If not, explain why the monitoring data and assessment are not attached: *N/A*

c. Provide an assessment of the effectiveness of the BMPs chosen to address the pollutant of concern: *N/A*

d. If an assessment was not performed, explain why: *N/A*

e. If you plan to delete any BMPs, modify any existing BMPs, or use any new BMPs during the next reporting period, describe the revisions: *N/A*

Part 6- Public Education/Public Involvement:

A. Public Education Program

1. Did you participate in a regional public education program? Yes ___ No X

2. If not, did you implement your own public education program?

Yes X No ___

3. Describe any SWMP educational activities undertaken during the reporting period which were not previously addressed in this report, (include details as to the nature of the activity, date, number of people attending, etc.):

Additional MPC Countywide Stormwater Public Education Program Measurable Activities:

Newspaper Outreach

As part of the extensive education program funded by Chatham County, the Town of Thunderbolt, and the Cities of Bloomingdale, Garden City, Pooler, Port Wentworth, Savannah, and Tybee Island, the MPC Natural Resources staff targets various groups and residents each year for BMP education. In October 2016, the MPC worked to draft and distribute over 88,500 copies of a newspaper insert detailing drainage, flood, water quality and conservation information to residents.

The quarterly "Chatham County Connection" was produced as a supplement in the Savannah Morning News that was distributed to over 150,000 homes twice during the calendar year throughout the County. In this document, were various articles on flood mitigation plans, GIS mapping, water quality, and flood-proofing your home. Please refer to the attached document, Education and Outreach, in Part 6.

Radio

The MPC also produced radio commercials focusing on the importance of not littering nonpoint source pollution. The script for the commercials has been included in the attached document, Education and Outreach, in Part 6.

MPC BMP Seminars/Training for Public and Municipal Staff

BMP educational seminars were MS4 permit related in the 2016-2017 permit year. On October 12, 2016, MS4 Staff were invited to an MS4 “user group” to discuss current local stormwater issues and share operational information. The intent is for the “user group” to meet quarterly. Permit directors were invited to a roundtable discussion with EPD and staff on October 24, 2016. MS4 Staff were invited to a permit training on GI/LID Education/Permit Discussion between MS4 Permittees, GAWP and ARC on January 17, 2017.

MPC Natural Resources Website

The MPC will continue to maintain a website devoted to educating the public about water resource issues including stormwater pollution impacts and prevention. MPC Staff ensures that the information on the website stays up-to-date and pertinent by reviewing the material at least once a quarter. The last update to the website was done in October of 2016. The web address is www.mpcnaturalresources.org. This site contains a wealth of information on various stormwater topics including:

- *Erosion & Sedimentation Control / How to Conserve Natural Resources on Construction Sites Manual*
- *Green Infrastructure Practices / Coastal Stormwater Supplement*
- *Proper Disposal of Household Hazardous Waste*
- *Education on Illegal Dumping*
- *Contact Number(s) to Report Water Quality Violations*
- *Proper Application, Storage and Disposal of Landscape Chemicals*
- *Tips on How to Prevent Stormwater Pollution*
- *Waterspout E-Newsletter Issues Updated Every Quarter*
- *Stormwater Videos / PSAs*
- *Educational Presentations on Stormwater Issues*
- *Chatham County Flood Mitigation Plan background and Link to the Document*

Waterspout E-Newsletter

The MPC continues to produce a quarterly e-newsletter dealing with water resource issues and advertising local educational and outreach opportunities and events. Topics addressed within the newsletter include: proper disposal of household hazardous waste; contact number(s) for citizens to report water quality violations; proper application, storage, and disposal of landscape chemicals; impacts of stormwater

pollution and tips for stormwater pollution prevention. MPC staff emails this newsletter to their list serve which will include City staff and elected officials, local school representatives, the general public, as well as making it available on the MPC's website for easy public access.

Stormwater Video/PSA

The MPC has created an educational video to educate the public about stormwater issues including flooding, runoff, pollution prevention, etc. This video and other videos about stormwater water issues were played on Chatham County's Public Access channel which is regularly viewed by local residents. The video is currently running twice on Wednesday nights at approximately 6:30 and 8:00 p.m. This video is also available on the MPC website. It has also been distributed free of charge by the MPC to all schools & universities within Chatham County for their use in the classroom.

Household Hazardous Material Education Program

The MPC maintains a list of locations where household hazardous materials can be disposed of properly. The list is available on the MPC website at: <http://www.mpcnaturalresources.org/natural-resources/recycling/>. The MPC also provided educational materials on the proper disposal of household materials at public outreach events, including the Earth Day festival on April 16, 2016. Educational materials are also available to the City for distribution at City facilities and at the MPC office.

Septic System Education Program

The MPC previously purchased a display and brochures from the UGA Cooperative Extension Service for the purpose of septic system education. This display was exhibited by MPC at outreach events, to include the Earth Day Festival on April 16, 2016.

Storm Drain Marking

The MPC coordinates the Storm Drain Marking program where storm drains are marked with Duracast tiles containing the message, "No Dumping – Drains to Waterway." In neighborhoods where drains are marked, a door hanger is placed on the front doors of houses to educate residents about the impacts of illegal dumping. This public information tool describes the program, provides tips to the public on steps they can take to prevent stormwater pollution, and lists the MPC Complaint Contact Number for any questions or water quality violations. The MPC continues to provide the tiles, glue, and informational brochures to local volunteer groups or City staff who will be marking tiles. The MPC also advertises this program opportunity on its website at:

<http://www.mpcnaturalresources.org/educational-programs/storm-drain-marking/>.

Adopt-A-Stream/Adopt-A-Wetland

The MPC continues to serve as the Chatham County contact for the Adopt-A-Stream/Wetland program and works to promote this volunteer monitoring program as well as Adopt-A-Wetland. The MPC has information about both programs, as well as contact information for citizens interested in participating.

School Outreach and Education

Chatham County staff participated in GIS Day in November 2016 to educate over 450 local children on stormwater and floodplain issues with a GIS approach to learning. In addition, in April of 2017 the MPC brought Jack Golden to work with approximately 75 Savannah College of Art and Design students. The program covered topics on water conservation, quality, and composition, and recycling, pollution, and litter.

Any additional information on the numerous other activities that the City participated in can be found in the document in Part 6 Education and Outreach.

B. Public Involvement

1. Describe any storm water management program activities performed during the reporting period to involve the public in the program (e.g. Adopt-A-Stream, Adopt-A-Road, storm drain stenciling, Rivers Alive, etc.). Details should be provided as to nature of the activity, the date(s), the number of volunteers, etc.

The annual Rivers Alive cleanup event for the entire County typically held in October had to be postponed due to Hurricane Matthew cleanup efforts. The event has been rescheduled for April 29, 2017 and will be held on Hayner’s Creek (one of the area’s TMDL listed streams) at the local boat ramp.

There are also various organizations that conduct both highway and beach clean-up activities throughout the year to include the Marine Science Center, the Girl Scouts, Better Home Town, and the Tybee Island Beautification Committee. The Tybee Beautification Association has quarterly highway and semi-annual beach sweeps to clean up areas throughout the City and its beaches. The most recent cleanup date was July 29th, 2016 when the Tybee Beautification Association had large cleanups on Tybee Beach.

A number of additional educational and outreach activities are held throughout the year to involve the public in the stormwater program including Rivers Alive and Adopt-A-Stream/Wetland. A comprehensive breakdown of these activities can be found in the Part 6, Education and Outreach, folder.

Part 7- Post-Construction

A. Ordinance

1. Provide the date when the MS4 ordinance(s) was adopted or updated: *The City’s Stormwater Ordinance was last updated on April 12, 2012.*
2. If an ordinance was updated during this reporting period, then a copy of the attested ordinance should be attached. Is a copy of the ordinance attached?
Yes ___ No ___ N/A ___ **X**___
3. Does the ordinance include the adoption and implementation of the Georgia Stormwater Management Manual or an equivalent local design manual (For Chatham County and those permittees located within Chatham County, the permittee must have also adopted the Coastal Stormwater Supplement)?

Yes X No

4. Provide either the date the design manual was adopted or a schedule for completing adoption: *The City updated and adopted its stormwater ordinance and design guidelines on April 12, 2012 to reflect the principles presented in the CSS and specifically cite the “latest edition of the Georgia Stormwater Management Manual” as the required resource document for all development.*

B. Green Infrastructure/Low Impact Development (GI/LID)

1. The permittee is required to complete any necessary revisions to the ordinances and regulations to ensure they do not prohibit or impede the use of GI/LID by April 13, 2014. Provide a schedule for completing the ordinance revisions or explain why a revision is not necessary: *Tybee Island completed the final review of its codes and ordinances in 2014 and updated the parking code to allow a wider range of materials to be used for the City’s permeable parking requirements. Copies of the updated codes were provided with the 2013-2014 annual report. At this time Tybee has determined that no further updates are needed at this time.*

2. The permittee is to develop a program for implementing GI/LID practices and submit the program with the 2014-2015 annual report. Provide the status of the program development: *The City drafted a “Green Infrastructure/Low Impact Design Program” document that was last approved by GA EPD on January 7, 2016. A table with the measurable goals and applicable dates is shown below.*

Please refer to the attached documents for information pertaining to the City’s GI/LID Plan, Inventory and Inspections for the 2016-17 monitoring period (Part 7-B2 2014-2014 Green Infrastructure Plan.pdf, Part 7-B2 2014-2016 Tybee GI-LID inventory list.pdf, and Part 7-B2GILID Stormwater Inspection page 26.pdf).

GI/LID Program Elements	Measurable Goal	Status
1. Legal Authority	1.a. The ordinance evaluation required by Part 3.3.10 (b) (1) shall be completed and a written report submitted to EPD with the 2011-2012 Annual Report	Completed April 2012
	1.b. Any necessary ordinance revisions must be completed and adopted ordinances submitted to EPD by April 13, 2014.	Completed 2014
2. GI/LID Program	2.a. Develop a program describing the GI/LID techniques and practices to be implemented by the permittee. The program shall include procedures for evaluating the feasibility and site applicability of different GI/LID techniques and practices, and various structures and practices to be considered. The program must be submitted to EPD for review with the 2014-2015 annual report. Upon approval, the program will become a part of the SWMP.	Completed April 2015

GI/LID Program Elements	Measurable Goal	Status
3. GI/LID Structure Inventory	3.a. Develop an inventory of GI/LID structures located within the permittee's jurisdiction, including the total number of each type of structure. Provide the inventory with the 2014-2015 annual report.	The City completed an inventory that is included with the annual report.
	3.b. Track the addition of new GI/LID structures through the plan review process and ensure the structures are added to the inventory. Provide an updated inventory in each annual report, beginning with the 2015-2016 annual report.	The updated inventory is included with the annual report.
4. Inspection Program	4.a. Conduct inspections on 100% of the total non-residential GI/LID structures within a 5-year period, beginning in April 2015. Provide the number and/or percentage of the total structures inspected during the reporting period in each annual report.	Copies of the inspection report are included with this annual report.
	4.b. Conduct maintenance on the non-residential GI/LID structures owned by the permittee, as needed, beginning in April 2016. Provide the number and/or percentage of the total structures maintained during the reporting period in each annual report.	No maintenance was needed on any of the GI/LID structures inspected.
	4.c. Develop procedures for ensuring privately-owned non-residential GI/LID structures are maintained as needed. Provide the procedures to EPD for review with the 2016-2017 annual report. Upon EPD approval, implement the procedures and provide documentation in each subsequent annual report.	Completed April 2015 pending approval by EPD.