



**Office of the City Manager**  
City Hall/100 Central Avenue  
Garden City, Georgia 31405

**Ronald A. Feldner, P.E.**  
City Manager

May 14, 2018

Ms. Mildred Granderson  
Environmental Protection Division  
NonPoint Source Program  
2 Martin Luther King, Jr. Dr., SW  
Suite 1462  
Atlanta, GA 30334

Re: MS4: Annual Report for NPDES Permit No. GAS000208

Dear Ms. Granderson,

Please find enclosed the 2017 – 2018 NPDES Annual Report for the City of Garden City, Georgia.

As directed by the GAEPD MS4 Submittal requirements guidance document, a hard copy of the annual report is enclosed as well as a flash drive that contains all of the supplemental documentation referenced within the report. This document is being submitted in accordance with NPDES Stormwater Permit Number GAS000208.

Please contact me at (912) 963-2754 or Ms. Jackie Jackson at (912) 963-2768 or [jjackson@gardencity-ga.gov](mailto:jjackson@gardencity-ga.gov) if you have questions or need additional information.

Sincerely,

**CITY OF GARDEN CITY, GEORGIA**

Ronald Feldner, P.E.,  
City Manager



THE CITY OF GARDEN CITY MS4 NPDES PERMIT FOR  
STORMWATER DISCHARGES  
2017-2018 ANNUAL REPORT



G A R D E N C I T Y

**NPDES PHASE I  
MEDIUM MUNICIPAL SEPARATE STORM  
SEWER SYSTEM (MS4)  
2017 – 2018 ANNUAL REPORT**

**FOR  
GARDEN CITY, GEORGIA  
PERMIT NUMBER: GAS000208**

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

## Part I. General Information

- A. Name of Permittee: *Garden City*
- B. Mailing Address: *100 Central Avenue  
Garden City, Georgia 31405*
- C. Contact Person: *Jackie Jackson*
- D. E-Mail Address: *[jjackson@gardencity-ga.gov](mailto:jjackson@gardencity-ga.gov)*
- E. Telephone Number: *(912) 963-2768*
- F. Reporting Period (Month/Year-Month/Year): *April 1, 2017 – March 31, 2018*
- 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: *N/A*
- 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: *Ronald Feldner, P.E.*

Title: *City Manager; City of Garden City, Georgia*

Date: *5/3/18*

**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? *There were no catch basins added to the Garden City 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? *The current MS4 Inventory Database for Garden City includes the following:*

<i>Structure Type</i>	<i>Length (Linear FT)</i>	<i>Length (Miles)</i>
<i>DITCH</i>	<i>323,778</i>	<i>61.32</i>
<i>PIPE</i>	<i>194,055</i>	<i>36.75</i>
<i>Structure Type</i>	<i>Structure Count</i>	
<i>CATCH BASIN</i>	<i>154</i>	
<i>OUTFALL</i>	<i>94</i>	
<i>RETENTION/DETENTION PONDS (PUBLIC)</i>	<i>2</i>	

- c. What is the frequency at which permanent control structures were inspected or maintained during this reporting period? *The City inspected its control structures in accordance with the SWMP on the following schedule. City staff conducted inspections of the MS4 structures within one maintenance zone per year so that 100% of the structures are inspected within the five-year permit period. Additionally, maintenance is conducted on MS4 structures as needed. Based upon inspection findings, the City will determine if maintenance of the various elements is needed. The City also prioritizes maintenance needs based on their potential impact to the functionality of the public MS4. Maintenance is prioritized and performed in general accordance with the standards detailed in the SWMP.*
- d. How many permanent control structures were inspected during this reporting period: *In accordance with the City’s SWMP, Sector 2 of the City’s Inspection areas was completed during the permit period.*

Structure	Number Inspected	Percentage of Total
outfalls	17	18 %
ditches	70,839.8 linear feet	22 %
catch basins	29	19 %
detention/retention ponds	1	50 %
storm drain lines	25,061.25 linear feet	31 %
other: outfalls	17	18 %

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

catch basins	0
ditches(miles)	190,156 linear feet
detention ponds	1 municipal pond
storm drain lines	80,560 linear feet

f. Describe any tasks associated with control structure inspection and maintenance (e.g. repairs), not addressed in the questions above:

*The City's roadside ditches are maintained by the Department of Public Works to ensure effective operation. Litter and sediment are removed regularly from all municipally owned roadside ditches. Right of ways are mowed and excess emergent vegetation 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 agreements with Garden City to assist with the maintenance of major canals. A copy of the inter-governmental agreement between Garden City and the County is included.*

## 2. Master Plan

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

b. 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: *Garden City updated its Comprehensive Plan with a formal adoption date of October 17, 2016. The updated Comprehensive Plan addresses open space preservation, natural resource protection, coastal resiliency, and proper land use decisions that all relate directly to stormwater.*

*The final plan can be found on the [City's website here: http://www.gardencity-ga.gov/economic-development/garden-city-comprehensive-plan](http://www.gardencity-ga.gov/economic-development/garden-city-comprehensive-plan)*

## 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 2017 – March 31, 2018 was roughly 487 miles. To reduce polluted runoff originating from streets, roads, and highways from vehicle traffic, leaks and spills, and atmospheric*

*deposition, the Department of Public Works will oversee the sweeping of all major curb and gutter roads in Garden City. Debris collected by the street sweeper is ultimately disposed of at a landfill in accordance with the landfill's rules and regulations. A copy of the annual summary sheet that includes details on street sweeping information has been included.*

- b. How many catch basins or inlets were cleaned during the reporting period? *Due to previous cleaning efforts and the lack of debris present after hurricane cleanup efforts, there were no catch basins 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 dry litter removal activities performed during the reporting period are normally done on the first week of every month via the City's contractor. During the 2017-2018 permit period, the City disposed of 87.37 tons of household waste and 24 truckloads of debris/dry trash.*

*The City of Garden City's curbside recycling program accepts the following items through this contracted program: Plastics #1 and #2, HPDE plastics, paper, steel cans, and aluminum cans.*

- d. Describe any practices for maintaining streets that were not addressed in the questions above (deicing practices, road repair procedures, etc.): *The City of Garden City routinely spot patches roadways and has a maintenance repair program where a street roller concentrates its efforts on pothole and street repair for a specific period of time depending on the availability of milled asphalt. Garden City also ensures that all land disturbances resulting from road construction is initially stabilized with silt fencing and then temporary or permanent vegetation is placed as soon as possible to prevent erosion.*

#### 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
- 2. If yes, provide the number of new projects where water quality assessments were performed: *One (1). The Police Parking Lot CIP Assessment sheet is attached.*

##### 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

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): *N/A*

## 5. Municipal Facilities

- a. The permittee must maintain and provide a current inventory of municipal facilities with the potential to cause pollution. Is an updated inventory attached to this report?

Yes  No  N/A  *The City's municipal facilities are listed below in the table.*

<b>Name of Municipal Facility</b>	<b>Location</b>	<b>Type of Facility</b>
<i>Garden City WWTP/Public Works</i>	<i>2 Bud Brown Drive Garden City, Georgia 31408</i>	<i>Wastewater Treatment and Public Works and Fleet Maintenance Facility</i>
<i>Bazemore Park</i>	<i>2 Bud Brown Drive Garden City, Georgia 31408</i>	<i>Recreation Fields</i>
<i>Fire Station 1</i>	<i>160 Main Street Garden City, Ga. 31408</i>	<i>Fire Station</i>
<i>Fire Station 2</i>	<i>2498 US-80, Garden City, GA 31302</i>	<i>Fire Station</i>
<i>Police Department</i>	<i>100 Central Avenue</i>	<i>Police Department</i>

- b. Provide the total number of municipal facilities included on the inventory:  
  5

- c. Provide the number and percentage of municipal facilities inspected during the reporting period:

Number   2    
Percentage   33 %  

- d. SWMP Compliance

1. Did you comply with the inspection frequency described in the SWMP?  
Yes  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?

Yes  No

- f. Describe any problems identified during the inspection and any corrective actions taken: *Deficiencies were found at the Public Works facility and have been rectified or scheduled for repair as detailed in the attached report.*

- g. Were any control measures to reduce runoff implemented during the reporting period at the municipal waste facilities?

Yes  No

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-way's. Where appropriate, provide date(s) and other specifics:

*There were training sessions for the Public Works staff focused around water quality, proper pesticide application and basic spill response. For example, one of the classes was held for the Public Works staff and focused on spill response training while another class focused on the NPDES program and the requirements under the City's MS4 permit and the role of the Public Works field staff in the compliance efforts. Copies of the PowerPoint and sign in sheet for the City training is included.*

*Garden City has an on-going safety training program for all City employees involved in handling, storing, and application of any chemicals used within the City, however, the City currently outsources its pesticide/herbicide application work therefore there is no need for a storage program.*

*The City educates both staff and the general public via its website by discussing sustainable land use practices that include Xeriscaping where the use of pesticides, herbicides, and fertilizers are discouraged. The information can be found here: <http://www.gardencity-ga.gov/city-government/public-works/sustainable-land-use>*

- 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:

*One of the industries targeted by the City was the landscaping industry, and the BMP Manual for this group includes information on Xeriscape and Integrated Pest Management. During the 2017-2018 permit period copies of educational materials were again distributed upon request to various landscape businesses in the Garden City 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. *The City’s Stormwater Ordinance that addresses illicit discharges was last updated on June 19, 2010.*
  - 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 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):

<b>Type of Inspection</b>	<b>Details: who performed activity, date performed, number of facilities inspected, miles walked, etc.</b>
<i>Routine Stream Walks</i>	<i>The City’s Public Works personnel completed inspections during the maintenance staff’s routine ditch maintenance and dry weather screening efforts.</i>
<i>Septic System Inspection Program</i>	<i>The Chatham County Health Department inspects septic systems in Garden City during construction of the system to ensure proper design. The Health Department will also inspect existing septic systems if there are any indications of failure including complaints, odor, high fecal coliform levels detected during dry weather screening. If the Health Department discovers a malfunctioning septic system, it will require the owner to have the system pumped and otherwise maintained as necessary.</i>

3. Provide information on field screening activities conducted during the reporting period:

a. Outfall Inventory and Map

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. The permittee must provide an updated inventory and map of the outfalls. Are the inventory and map attached? Yes X No \_\_\_ N/A\_
3. What is the total number of outfalls on the storm sewer system? *The City has 94 outfalls within the storm sewer system.*

b. Outfall screening

1. How many outfalls were screened by the MS4 during the reporting period? *Seventeen (17) outfalls were screened during the reporting period.*
2. Provide the percentage of the total number of outfalls screened during the reporting period: *18%*
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, how many of the outfalls had flow? *Of the 17 outfalls screened one had flow.*
6. Attach completed outfall inspection forms for all outfalls inspected. 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(s) if necessary): *N/A*

Outfall Designation (number or location)	Date Field Screening Performed	Date Laboratory Testing Performed
22	3/6/18	N/A

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 sheet(s) if necessary): *The flow did not have*

*any physical indicators that made the flow suspect as an illicit discharge. The full inspection form and pictures are included.*

9. Provide information on any enforcement actions taken for an illicit discharge during the reporting period: *There were no enforcement actions for illicit discharges other than the spill incidents detailed below.*

c. Stream Walks

**Note:** Documentation of any stream walks performed (i.e. form, summary report, pictures, listed observations, etc.) must be provided with the annual report.

1. Were stream walks performed as part of the IDDE plan?

Yes \_\_\_ No X

2. If yes, provide the following:

- Total miles of stream within jurisdiction: N/A
- Stream miles walked during the reporting period: \_\_\_\_\_
- Percentage of the stream miles walked during the reporting period:  
\_\_\_\_\_

3. If no, then were stream walks performed for a reason other than IDDE?

Yes \_\_\_ No N/A X

4. If stream walks were performed for a reason other than IDDE, explain the reason and provide the following: *No stream walks were performed.*

- Reason: \_\_\_\_\_
- Stream miles walked during the reporting period: \_\_\_\_\_
- Number of outfalls screened during the stream walks: \_\_\_\_\_

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 was one spill during the reporting period.*

Spill Date	Spill Location	Party Responsible for Spill	Substance(s) Spilled	Amount Spilled
2/1/18	22-24 Brampton Road Garden City	Private Commercial Owner	Wastewater	3,600 gallons

5. Describe any activities performed during this reporting period to publicize and facilitate public reporting of illicit discharges, including information on the one formal notification to the public required by the Permit (provide details, where appropriate):

*Garden City participates in a Storm Drain Marking program. The City's drains are marked with Duracast tiles that contain the message "No Dumping– Drains to Waterways". During the permit period, no tiles were missing therefore, none were placed on storm drains throughout the City.*

- a. 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 an illicit discharge received during the reporting period. The entire complaint log is included in the stormwater inventory and inspection section.*
- b. 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):

*Garden City developed an educational handout in both English and Spanish with best management practices for pool discharges entitled "Pool Discharge Tips". The material covered the issues that the improper draining of pools can cause to the environment as well as the techniques for the proper cleanup and disposal of pool water. This brochure is distributed to anyone coming to the City for a permit to build a pool as well as being mailed to area pool maintenance companies.*

- c. Describe any activities performed during this reporting period to detect and eliminate seepage from municipal sanitary sewers to the storm sewer system: *Garden City currently has a routine inflow and infiltration (I&I) program that includes visual inspections as well as the sewer lines are inspected based on complaints and as a result of any abnormal results of 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
- b. Provide the total number of industrial facilities included on the latest inventory: 17

#### 2. Inspections

- a. Were any inspections of industrial facilities conducted during the reporting period? Yes  No  NA
- 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

- c. Provide the following on the industrial facilities inspected during the reporting period:

Total number of industrial facilities: 17

Number of industrial facilities inspected: 5

Percentage of industrial facilities inspected: 29 %

3. SWMP Compliance

- a. Did you comply with the inspection frequency described in the SWMP?

Yes  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

- b. The results of any monitoring performed should be attached as an addendum to this report. Are monitoring results attached?

Yes  No  NA

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

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 which targeted industries: *During any industrial inspections a handout was distributed detailing what the inspections involve, tips and information about what to do if an NOV is given. A copy of the flyer is included with the report. Please see the Stormwater Education and Outreach section for a description of the additional BMP educational activities.*

D. Construction Site Management Program

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

- b. When was the MS4s ordinance to control soil erosion and sediment adopted or last updated? *The City's ordinance to control soil erosion and sediment was last updated on November 7, 2016.*

- c. If the ordinance was adopted or updated during this reporting period, then a copy of the attested ordinance must be attached as an addendum to this report. Is a copy of the ordinance attached? Yes  No  N/A

2. Provide information on any site planning procedures for construction projects performed during the reporting period:
  - a. Number of site plans received: *There were 9 site plans received during the reporting period.*
  - b. Number of site plan reviews conducted: *There were 13 site plan reviews conducted during the reporting period.*
  - c. Number of site plans approved: *A total of 13 site plan reviews were approved during the reporting period.*
  - d. Number of site plans denied: *There were no (0) site plans denied during the reporting period.*
  - e. Other (please describe): N/A
  - 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  No
3. Provide information on construction related permitting activities conducted during the reporting period:
  - a. Number of land disturbing activity (LDA) permits issued: *A total of 11 land disturbing activity (LDA) permits were issued during the reporting period.*
  - b. A list or table of permits issued during the reporting period should be provided. Is this information attached? Yes  No
4. Provide information on construction site inspections during the reporting period:
  - a. How many construction sites were active during the reporting period? *Nine (9) construction sites were active.*
  - b. How many total inspections of these active construction sites were conducted during the reporting period? *There were 86 total inspection of the active construction sites.*
  - 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  No
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 were no (0) notices of violations handed out or letters of noncompliance mailed during the permit period.*

Site Location	Type of Enforcement Action	Date of Enforcement
N/A	N/A	N/A

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  No

*Patrick Patton and Ron Alexander are the staff persons certified under the Georgia Soil and Water Conservation Commission for the City of Garden City. Copies of the certification cards are included.*

- 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

Yes  No

- b. If any new HVPS were identified during the reporting period, what type(s) of facility were they? *Additional trucking companies were added to the inventory list.*

- c. What is the total number of HVPS identified on the latest inventory? *There are 146 highly visible pollutant sources identified in Garden City. The City will continuously be checking business SIC codes for additional businesses to add to its list.*

2. Inspections

- a. Were any inspections performed on HVPS during the reporting period? Yes  No

No

- b. Are copies of completed inspection forms attached?

Yes  No

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

Number   30  

Percentage   21%  

- 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
<i>Please see the attached sheets for inspection information.</i>	<i>Please see the attached sheets for inspection information.</i>	<i>Please see the attached sheets for inspection information.</i>

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

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

### **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? *There were seven and three-quarters (7¾) full time employees dedicated to the administration of the SWMP during the reporting period (based on man hours worked).*
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*

- C. Are there any changes to the SWMP proposed for the upcoming reporting period? If so, please describe: *There are no planned changes to the SWMP for the upcoming reporting period.*

**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 SPLOST and the stormwater utility.*
- b. A summary of the expenditures for 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 \_\_\_

2. Next Reporting Period's Budget

- a. What will be the funding source for next reporting period's budget? *The funding for this reporting period came from SPLOST and the stormwater utility.*
- b. A summary of the proposed budget for the SWMP 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 X No \_\_\_

**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:

Name of Water	Pollutant of Concern
<i>Pipemakers Canal</i>	<i>Fecal Coliform</i>
<i>Salt Creek</i>	<i>Fecal Coliform</i>

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

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

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

- 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:

*The City feels that the BMPs shown below will continue to improve the water quality within the City's jurisdiction. Additional education and outreach BMP measures are listed in the table below.*

<b>BMP</b>	<b>Description</b>	<b>Implementation Schedule</b>
<i>Highly Visible Pollutant Inspections &amp; Education</i>	<i>City of Garden City has added vet offices and dog kennels to its list of HVPs to be inspected and educated. These types of HVP's can often be a source of fecal bacteria contamination.</i>	<i>Ongoing</i>
<i>Sanitary Sewer Spill Response Plan</i>	<i>City of Garden City has developed a sanitary sewer spill response plan to address sanitary sewer overflows.</i>	
<i>Sanitary Sewer Inspection Program</i>	<i>The City of Garden City currently implements an inflow and infiltration program (I&amp;I) to determine if the sanitary sewer system has any leaks, damage, or cross connections with the storm sewer or drainage system.</i>	<i>Ongoing</i>
<i>Septic System Education</i>	<i>City of Garden City has an ongoing education program to encourage proper maintenance of septic systems.</i>	<i>Ongoing</i>
<i>Dry Weather Screening</i>	<i>City of Garden City will search for potential illicit discharges. Any illicit connections to sanitary sewers or septic tanks discovered through this program will be removed in accordance with the City's ordinances and ERP.</i>	<i>Ongoing</i>

*Focusing on fecal coliform issues in waterways, the City hopes to educate 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 in the recent past for both the City has been pet waste and its effects on the coastal waterways. The message was also covered in a television special that is aired routinely on the City of Savannah's government channel and available for viewing by all of the County's residents to include Garden City's. 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, an educational brochure on "The Importance of Riparian Buffers" is used to explain the importance of buffers as well as explain what functions a healthy buffer zone may play in keeping their waterways clean and healthy. Copies of this brochure have been mailed out to residents in areas where there are 303(d) listed streams and the brochure can also be found on the City's website here: <http://www.gardencity-ga.gov/home/showdocument?id=2121>*

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

*The City submitted its Monitoring Plan with the 2013-2014 annual report that included a number of BMPs designed to address the impaired waterways within Garden City.*

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 X No \_\_\_ N/A \_\_\_\_\_

*The impaired waterway designation of Pipemakers Canal requires the City to perform fecal monitoring at the WWTP & Public Works Facility. The single event criteria are 4,000 col/100 for the winter period (November-April) and 800 col/100 ml for the summer period (May-October). During the winter period, the benchmark was not exceeded in the one sample collected. During the summer period, the benchmark was exceeded 11 times out of 12 samples collected, which is likely due to construction activities being conducted around the plant and distributing the fecal count through the air.*

*The City is currently still in the phase of completing several upgrades to the WWTP facility. During these construction efforts, elevated fecal numbers are anticipated throughout the site. Once completed, the City believes future fecal samples will be more consistent, if not less than historic trends. Additionally, TSS sampling results from the 2017 sampling period are included as an attachment.*

- 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: *The City feels that the BMPs shown in the above table will continue to improve the water quality within the City's jurisdiction and a*

*comparison will again be reported on in next year's report. These BMPs will be implemented throughout all of Garden City.*

- 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: *At this time, the City does not plan to delete, modify, or use any new BMPs during the next reporting period but will work on the list of BMPs shown in the table above.*

### **Part 6 – Municipal Employee Training**

The permittee must conduct an employee training event at least annually. Provide the following information regarding the event: *Sign in sheet and PowerPoint Documentation is included.*

- Date of training event(s): *February 20, 2018*
- Topic(s) of training: *General Stormwater Education and LID BMP Implementation*
- Number of employees trained: *10*
- Who conducted the training: *Consultant: Ecological Planning Group*
- Method of training: *Classroom and Field*

**Note:** Documentation of the training event(s) must be provided (e.g. sign-in sheets, pictures, etc.). *Sign in sheet and PowerPoint Documentation is included.*

### **Part 7- Public Education:**

#### 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.):

*The City achieved the National Flood Insurance Program's (NFIP) Community Rating System (CRS) Class 8 status in October 1, 2013 and is currently working on obtaining a Class 6. This is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS:*

1. *Reduce flood damage to insurable property;*
2. *Strengthen and support the insurance aspects of the NFIP, and*
3. *Encourage a comprehensive approach to floodplain management.*

*The program has a highly beneficial effect on the stormwater program and is a great asset to the community as a whole. To assist with the CRS and drainage public education efforts, Garden City drafted an “awareness” brochure for all of the residents within the jurisdiction on flood safety and preparedness and listed “10 facts that every Garden City resident should know”.*

**Additional Stormwater Public Education Program Measurable Activities:**

*Garden City staff targets various groups and residents each year for BMP education.*

***Newspaper Outreach***

*As part of the extensive joint outreach program with other jurisdictions, Garden City targets various groups and residents each year for BMP education. On October 29, 2017, over 88,000 copies of an insert were direct mailed to residents in the Savannah Penny Saver and Savannah Tribune that details drainage, flood, water quality and conservation information. A copy of the actual insert has been included for your use and information.*

***Stormwater BMP Seminars/Training for Public and Municipal Staff***

*Garden City often hosts Best Management Practices meetings related to water issues/topics. There was a training session for the Public Works staff focused around water quality, proper pesticide application and basic spill response. For example, one of the classes was held for the Public Works staff and focused on spill response training while another class focused on the NPDES program and the requirements under the City’s MS4 permit and the role of the Public Works field staff in the compliance efforts. Copies of the PowerPoint and sign in sheet for the City training is included.*

***Stormwater Website***

*The City maintains a website devoted to educating the public about water resource issues including stormwater pollution impacts and prevention. 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 March 2018. The web address is <http://www.gardencity-ga.gov/city-government/public-works/the-basics-of-stormwater> <http://www.gardencity-ga.gov/city-government/public-works/department-of-public-works>. These sites contain a wealth of information on various stormwater topics including:*

- *The Basics of Stormwater*
- *Natural Resources Planning*
- *Green Infrastructure Practices / Coastal Stormwater Supplement*
- *Proper Disposal of Household Hazardous Waste*
- *Education on Illegal Dumping*
- *Tips on How to Prevent Stormwater Pollution*

***Stormwater Video/PSA***

*An educational video educating the public about stormwater issues including flooding, runoff, pollution prevention, etc. is played on Chatham County’s Public Access channel which is regularly viewed by local residents. The video is currently running approximately 15-20 times a year.*

### ***Household Hazardous Material Education Program***

*A list of locations where household hazardous materials can be disposed of properly is available at: <http://www.gardencity-ga.gov/for-residents/sanitation-information>. Staff also provide educational materials on the proper disposal of household materials at public outreach events. Educational materials are also available anytime to residents who may have questions.*

### ***Septic System Education Program***

*Brochures that focus on septic system education are made available at outreach events. The Chatham County Health Department also distributes brochures as appropriate as they inspect new and failing septic systems that they may find in the City. Education efforts are underway to continually identify and target neighborhoods suspected to host failing systems.*

### ***Public Informational Materials***

*The City places pollution prevention messages into its customers utility bills for communication purposes in accordance with its SWMP (Section 8.2: Public Information Material). The following message was included in the December 2017 utility bill:*

*“Never put grease down garbage disposals, drains, or toilets. This can result in raw sewage overflowing in your home, the house next door, yards or streets. Scrape grease and food scraps into the trash along with absorbent waste materials for disposal. Remember, garbage disposals don’t prevent grease blockages and hot water or cleaners only pass it down the line and cause problems elsewhere.”*

### ***Public Stormwater Education Event***

*The held a Public Safety Day where materials specific stormwater related topics and issues were distributed to attendees. The event was held on November 18, 2017 at City Hall and there were approximately 375 people in attendance. The event was promoted through the City’s website, social media, utility bills, TV, Radio and direct contact with volunteer groups. The City’s SWMP can also be found on the website at: <http://www.gardencity-ga.gov/city-government/public-works/stormwater-utilities>*

### ***Bring One for the Chipper***

*In December 2017, the City participated in the “Bring One for the Chipper” event by encouraging people to properly dispose of their Christmas trees. The City publicized the event on Facebook and detailed locations where residents could bring old Christmas trees to be chipped and recycled into mulch. The mulch is then for use by residents at no charge.*

## **Part 8 - Public Involvement**

1. Describe any SWMP activities performed during the reporting period to involve the public in the stormwater program (e.g. Adopt-A-Stream, Adopt-A-Road, storm drain stenciling, Rivers Alive). Details should be provided as to nature of the activity, the date(s), the number of volunteers, etc. Documentation of each activity must be provided with the annual report:

*Garden City participated in a newly formed Regional SWMP Committee that was open to the public for participation. The meeting was held on February 28, 2018 in Port Wentworth. The committee encouraged public participation by inviting citizens to attend an informational meeting that discussed the City's SWMP and educated citizens on the City's SWMP program and proper stormwater management practices to lessen pollutants in the MS4. The Committee also serves as an advisory panel to the municipalities and provided an opportunity for the jurisdictions to discuss stormwater practices that are effective and seek solutions for stormwater-related issues. The public meeting was advertised to ensure that all citizens are notified of the meeting. A copy of the Agenda, Meeting Minutes and Sign-in Sheet from the meeting ins included within the report.*

## **Part 9- 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 August 15, 2011.*
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's Stormwater Ordinance was last updated on August 15, 2011 and now includes requirements and measures shown in the Coastal Stormwater Supplement. Garden City also adopted a stormwater management local design manual to serve as a comprehensive guide to implementing stormwater management facilities, control, and systems in the City of Garden City. The Design Manual is included as well as copies of both documents can also be found at:*  
<http://www.gardencityga.org/index.aspx?page=105>

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

1. Legal Authority
  - a. The permittee is required to continue to review and revise as needed the ordinances and regulations to ensure they do not prohibit or impede the use of GI/LID. Was an evaluation of the ordinances and regulations conducted during the reporting period?:  
Yes \_\_\_X\_\_\_ No \_\_\_

- b. If yes, explain if any revision were needed to the permittee's ordinances or regulations and if so, what were the revisions and the status of the revisions: *No revisions were needed.*

2. GI/LID Program

- a. The permittee was required to develop a program for implementing GI/LID practices. Has your GI/LID program been submitted to EPD? Yes  No
- b. If yes, has the program been approved by EPD? Yes  No
- c. Were any revisions made to the GI/LID program during the reporting period?:  
Yes  No
- d. If yes, then the revised program must be submitted to EPD for review: Is the revised GI/LID program attached?  
Yes  No  NA

3. GI/LID Structure Inventory

- a. The permittee must maintain an updated inventory of GI/LID structures. Is the inventory attached? Yes  No
- b. Provide the total number of GI/LID structures: 4

4. GI/LID Inspection and Maintenance

A. Inspections

1. Were any inspections performed on GI/LID structures during the reporting period? Yes  No
2. Are copies of completed inspection forms attached? Yes  No
3. Provide the number and percentage of the total number of GI/LID structures inspected during the reporting period:
- Number 1
  - Percentage 25 %
4. Did you comply with the inspection frequency described in the SWMP?  
Yes  No
5. If not, describe the reason and the steps taken to comply with the SWMP during the next reporting period: *N/A*
-

B. Maintenance

1. The permittee is required to conduct maintenance on the GI/LID structures that they own. Provide the following information:
  - Number of structures maintained:   1
  - Percentage of the total number of structures maintained: *100 % of Municipal Structures*
  
2. The permittee is required to ensure that privately-owned GI/LID structures are maintained as needed. Describe any activities undertaken by the permittee during the reporting period to ensure these structures were maintained. Documentation of these activities must be attached: *No other additional activities were completed during the reporting period. As the 3 other privately owned structures are inspected in the upcoming years, the City will ensure the owners are notified of the results and any required maintenance activities needed.*