

---

# City of Prattville

101 West Main Street  
Prattville, Alabama 36067



# Municipal Separate Storm Sewer System (MS4) 2017 Annual Report

NPDES Permit No. ALS000010

January 2017

Prepared By:



2124 Moore's Mill Road ♦ Suite 120 ♦ Auburn, Alabama 36830

---



Table of Contents

<b>1. General Information</b>	<b>1-1</b>
1.1. Signatory Requirements .....	1-1
1.2. List of Contacts .....	1-2
1.3. Overview and Summary.....	1-2
1.4. MS4 Area .....	1-3
1.4.1. Climate .....	1-5
1.4.1. Population .....	1-5
1.4.2. Land Use .....	1-6
1.5. Known Problems.....	1-7
<b>2. Program Evaluation</b>	<b>2-1</b>
2.1. Program Objectives .....	2-1
2.2. Public Education .....	2-1
2.2.1. Local Partnerships.....	2-2
2.2.2. Website.....	2-2
2.2.3. Social Media.....	2-3
2.2.4. Public Service Announcements .....	2-5
2.2.5. Brochures .....	2-6
2.2.6. Workshops .....	2-8
2.2.7. Training.....	2-8
2.3. Public Involvement.....	2-8
2.3.1. Public Reporting .....	2-8
2.3.2. Public Input.....	2-9
2.3.3. Autauga Creek Improvement Committee (ACIC).....	2-10
2.3.4. Autauga County Water Festival .....	2-11
2.3.5. Recycling .....	2-11
2.3.1. Pet Waste Stations.....	2-12
2.3.2. Autauga PALS Cleanups.....	2-13
2.4. Illicit Discharge and Improper Disposal .....	2-13
2.4.1. Legal Authority .....	2-13
2.4.1. Public Education.....	2-14
2.4.2. Public Reporting .....	2-14
2.4.3. Grease Control Program .....	2-14
2.4.4. Outfall Inventory .....	2-14
2.4.5. Training.....	2-18
2.4.6. Illicit Discharge Investigations .....	2-18
2.4.7. Sanitary Sewer System .....	2-19
2.5. Construction Site Runoff .....	2-19
2.5.1. Legal Authority .....	2-19
2.5.2. Permitting and Plan Review .....	2-19
2.5.1. Training and Certification .....	2-19
2.5.2. Education and Training Materials.....	2-19
2.5.3. Inspections .....	2-20
2.5.4. Enforcement .....	2-20
2.5.5. ADEM Notification .....	2-20



2.5.6. Public Reporting ..... 2-20

2.6. Post Construction Storm Water Management ..... 2-21

2.6.1. Legal Authority ..... 2-21

2.6.2. Post Construction BMP Plan Review ..... 2-21

2.6.3. Post-Construction BMP Inspection ..... 2-21

2.6.4. As-built Certification ..... 2-21

2.6.5. Long Term Operation and Maintenance ..... 2-21

2.7. Pollution Prevention and Good Housekeeping ..... 2-22

2.7.1. Municipal Facilities ..... 2-22

2.7.1.1. Facility Inventory..... 2-22

2.7.1.2. Municipal Facility Inspections..... 2-24

2.7.1.3. Standard Operating Procedures..... 2-24

2.7.1.4. Facility Maintenance..... 2-24

2.7.1.5. Training..... 2-25

2.7.2. Roads ..... 2-25

2.7.2.1. Road Inventory ..... 2-26

2.7.2.2. Road Maintenance ..... 2-26

2.7.2.3. Street Sweeping ..... 2-26

2.7.2.4. Litter Control..... 2-27

2.7.2.5. Deicing Activities ..... 2-27

2.7.3. Pesticide, Herbicide and Fertilizer..... 2-27

2.7.3.1. PHF General NPDES Permit..... 2-27

2.7.3.2. PHF Standard Operating Procedures ..... 2-28

2.7.3.3. Facility Inventory..... 2-28

2.7.3.4. PHF Storage Facilities..... 2-28

2.7.3.5. Certification and Licensing ..... 2-28

2.7.3.6. Chemical Inventory ..... 2-29

2.7.3.7. PHF Application..... 2-29

2.7.3.8. PHF Disposal..... 2-29

2.8. Monitoring Activities ..... 2-29

2.9. Program Strengths..... 2-29

2.10. Program Weaknesses..... 2-30

**3. Summary Tables 3-1**

3.1. Public Education and Public Involvement..... 3-1

3.2. Illicit Discharges and Improper Disposal..... 3-3

3.3. Construction Site Runoff ..... 3-5

3.4. Post Construction Storm Water Management ..... 3-7

3.5. Pollution Prevention and Good Housekeeping..... 3-8

**4. Summary of Proposed Program Changes 4-1**

4.1. SWMP Review and Update ..... 4-1

4.2. Coordination with Surrounding Municipalities..... 4-1

**5. Fiscal Analysis 5-1**



---

## List of Tables

Table 1-1 Zoning Districts.....	1-6
Table 2-1 Brochures .....	2-7
Table 2-2 2017 Outfalls Screened by Watershed .....	2-16
Table 2-3 Municipal Support Facilities .....	2-22
Table 2-4 Road Inventory .....	2-26
Table 2-5 PHF Storage Facilities.....	2-28
Table 5-1 Fiscal Analysis.....	5-1

---

## List of Figures

Figure 1-1 City of Prattville MS4.....	1-4
Figure 1-2 Average Rainfall and Temperatures .....	1-5
Figure 1-3 Historical Population .....	1-6
Figure 1-4 Land Use Summary .....	1-8
Figure 2-1 City Social Media Pages .....	2-4
Figure 2-2 Facebook Followers.....	2-5
Figure 2-3 SWMP Plan Facebook Announcement.....	2-9
Figure 2-4 Autauga Creek Blueway Trail .....	2-10
Figure 2-5 Autauga County Water Festival .....	2-11
Figure 2-6 Recycling Locations .....	2-12
Figure 2-7 Pet Waste Disposal Station .....	2-12
Figure 2-8 Outfall Mapping and Screening Areas .....	2-15
Figure 2-9 ArcGIS Collector Application Screenshot .....	2-16
Figure 2-10 Outfall Inventory .....	2-17
Figure 2-11 Municipal Facilities.....	2-23

---

## Appendices

Appendix A	Public Education and Public Involvement
	<ul style="list-style-type: none"> <li>• Autauga County Extension System – Summer 2017 Newsletter</li> <li>• Webpages</li> <li>• Brochures <ul style="list-style-type: none"> <li>○ Storm Drain Stewardship Brochure</li> <li>○ Protecting Water Quality from Urban Runoff EPA Factsheet</li> <li>○ Down Stream Stormwater Booklet</li> <li>○ Be Septic Smart EPA Booklet</li> <li>○ Prattville Stormwater Requirements for Construction</li> <li>○ Construction Site BMP EPA Poster</li> </ul> </li> <li>• NEMO Presentation Agenda and Sign-in Sheet</li> <li>• Autauga Creek Improvement Committee Brochures</li> <li>• PALS Summary</li> </ul>



---

## Appendices (cont.)

---

Appendix B	Illicit Discharge <ul style="list-style-type: none"><li>• IDDE Ordinance Meeting Sign-In Sheet</li><li>• 2017 Outfall ORI Forms</li><li>• Illicit Discharge Investigations</li><li>• SOP IDDE-03 Illicit Discharge Notification Procedures</li><li>• IDDE ORI Mapping and Screening Training</li><li>• Employee IDDE Training Sign-In Sheet</li><li>• Illicit Discharge Video (Electronic Video File)</li></ul>
Appendix C	Construction Site Runoff <ul style="list-style-type: none"><li>• ESC Ordinance Meeting Sign-In Sheet</li><li>• 2017 Permits Issued</li><li>• Example Subdivision and Development Review Forms</li><li>• Site Inspection Log Book Example</li><li>• Draft Construction Site Inspection Form</li><li>• Enforcement Actions</li><li>• QCI Certificate</li></ul>
Appendix D	Post-Construction Storm Water Management <ul style="list-style-type: none"><li>• Post-Construction Program Meeting Sign-In Sheet</li></ul>
Appendix G	Pollution Prevention and Good Housekeeping <ul style="list-style-type: none"><li>• Municipal Facility Inspections</li><li>• Emergency Procedures for Leaks and Spills SOP</li><li>• Urban Management Checklist Examples<ul style="list-style-type: none"><li>○ Parks Crew</li><li>○ Grounds Crew</li><li>○ Mowing Crew</li><li>○ Ditch Crew</li></ul></li><li>• Urban Management Ditch Inspections</li><li>• Work Order Tracking Example</li><li>• Street Sweeper Collection Log</li><li>• Urban Management Debris Removal Summary</li><li>• Urban Management Chemical Inventory</li><li>• Commercial Pesticide Applicators Licenses</li><li>• Urban Management Spray Log</li><li>• Mosquito Spray Log</li></ul>
Appendix M	Summary of Proposed Program Changes <ul style="list-style-type: none"><li>• Table 1-1 SWMP Plan Revision Record</li><li>• Table 4-1 Public Education and Involvement Program Goals</li><li>• Table 5-4 Illicit Discharge Program Goals</li><li>• Table 6-1 Construction Site Runoff Program Goals</li><li>• Table 7-1 Post Construction Storm Water Management Program Goals</li><li>• Table 8-4 Pollution Prevention and Good Housekeeping Program Goals</li></ul>
Appendix N	Fiscal Analysis <ul style="list-style-type: none"><li>• FY17 Budget</li><li>• FY18 Proposed Budget</li></ul>



# SECTION 1

General Information



---

# 1. General Information

---

## 1.1. Signatory Requirements

I certify under penalty of law that this document and all attachments were prepared under my 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 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.

Bill Gillespie, Jr.

Name

Mayor

Title

Signature

Date

1-24-2018

Address: 101 West Main Street  
Prattville, AL 36067

Phone: (334) 595-0101



## 1.2. List of Contacts

Part IV.4 of National Pollutant Discharge Elimination Systems (NPDES) Permit Number ALS000010 requires the Permittee to provide a list of contacts and responsible parties (e.g. agency, name, phone number) that had input to and are responsible for the preparation of the annual report. City Staff from Administration, Public Works, Engineering Services, General Government, Public Safety, and Performing Creative Arts and Recreation contributed materials and data for incorporation into this annual report.

Personnel directly responsible for the preparation of this annual report include the following.

### Contact List:

Jonathan Larkin  
Public Works Assistant Director  
Stormwater Coordinator  
101 West Main Street  
Prattville, AL 36067  
(334) 595-0482

Dewayne Smith, P.E., CPESC, CPSWQ, CPMSM  
Consultant  
Hydro Engineering Solutions  
A Division of Hydro, LLC  
2124 Moore's Mill Road, Suite 120  
Auburn, AL 36830  
(334) 740-6000

Any questions concerning the City of Prattville's (City) Municipal Separate Storm Sewer System (MS4) 2017 Annual Report shall be directed to Mr. Jonathan Larkin.

## 1.3. Overview and Summary

In 1990, the U.S. Environmental Protection Agency (EPA) promulgated regulations establishing Phase I of the National Pollutant Discharge Elimination Systems (NPDES) storm water program. The Phase I program for municipal separate storm sewer systems (MS4s) requires operators of "medium" and "large" MS4s that generally serve populations of 100,000 or greater to implement a storm water management program as a means to control polluted discharges from certain municipal, industrial and construction activities into the MS4.

In 1999, EPA promulgated regulations establishing Phase II of the NPDES storm water program. The Phase II program extends coverage of the NPDES storm water program to regulated "small" MS4s. A regulated "small" MS4 is defined as a MS4 located within an "urbanized area" as defined by the Census Bureau or as designated by the NPDES permitting authority.





The Alabama Department of Environmental Management (ADEM) presently has primary jurisdiction over permitting and enforcement of the Storm Water Program for Alabama. On 17 June 2016, ADEM issued MS4 Phase II Individual Permit (NPDES Number ALS000010) for storm water discharges associated with the City's MS4. The City's NPDES Permit became effective on 1 July 2016 and will expire on 30 June 2021.

The City's SWMP has been developed to include the stormwater pollution prevention and management programs described in the NPDES Permit. Part II.B of the NPDES Permit describes five (5) program elements that are required to be incorporated in the City's SWMP.

1. Public Education and Public Involvement on Storm Water Impacts;
2. Illicit Discharges Detection and Elimination (IDDE);
3. Construction Site Storm Water Runoff Control;
4. Post-Construction Storm Water Management in New Development and Significant Redevelopment; and,
5. Pollution Prevention / Good Housekeeping for Municipal Operations.

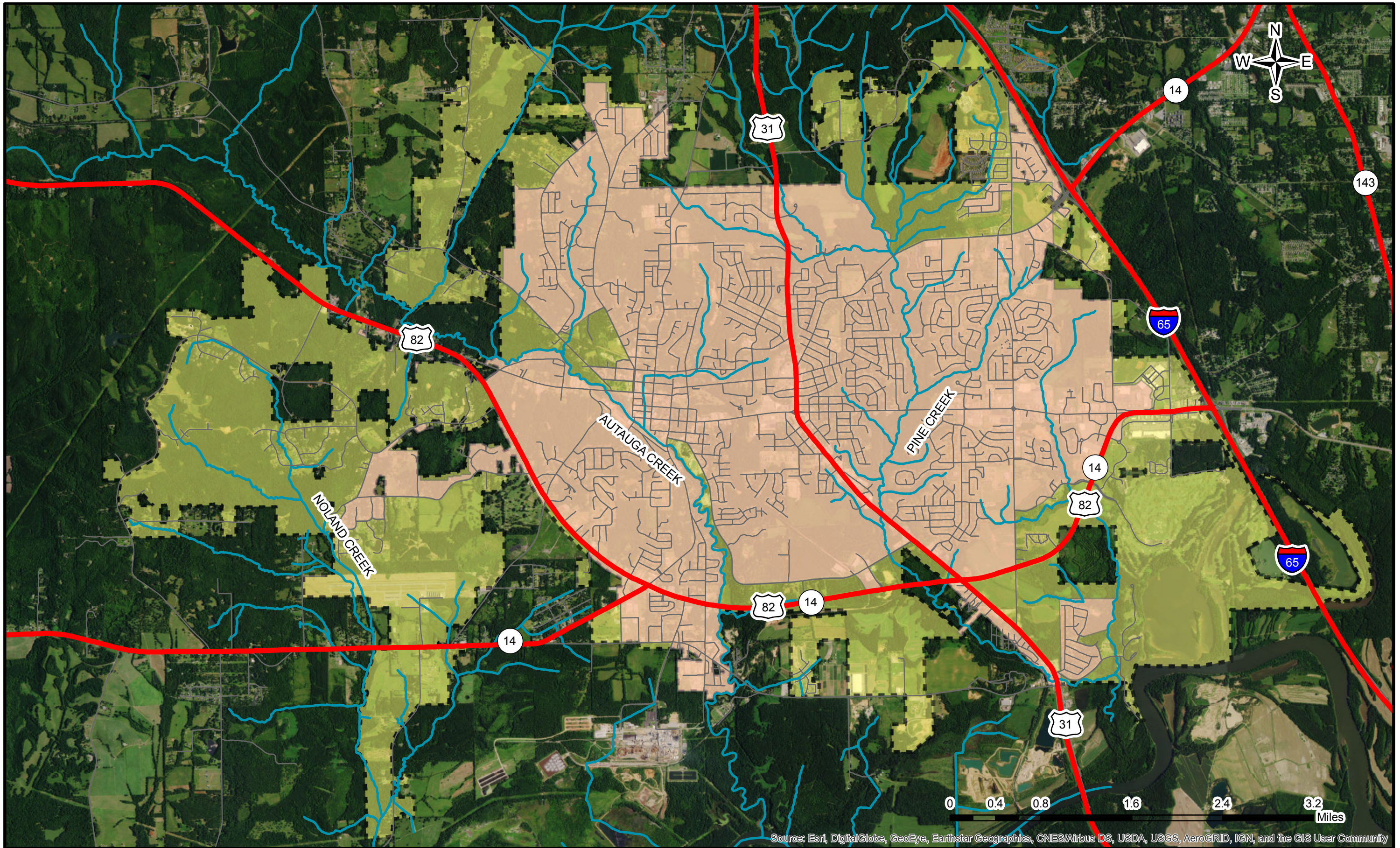
This annual report summarizes the City's efforts for the reporting period from 1 October 2016 through 30 September 2017 to comply with the NPDES Permit and the above listed five (5) program elements to the maximum extent practicable.

#### **1.4. MS4 Area**

The City of Prattville is located in the central part of the state along the Alabama River in Autauga and Elmore Counties. The City occupies approximately 34.25 square miles and is bordered on the east by the City of Millbrook. Approximately 17.79 square miles (51.9%) of the City is located within Montgomery, Alabama Urbanized Area as defined by 2010 Census. Areas of the City located within the Urbanized Area is the City's regulated MS4 area.

The Alabama Department of Transportation (ALDOT) MS4 extends through the City's MS4 Area. As a result, ALDOT is responsible for activities within their MS4.

The City's corporate limits, MS4 Area, Autauga and Elmore City boundaries, major roads, major streams, and surrounding communities are presented in Figure 1-1.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Prattville City Limits	Prattville MS4 Area	Streams
ALDOT Roads	Streets	



**CITY OF PRATTVILLE**  
City of Prattville MS4

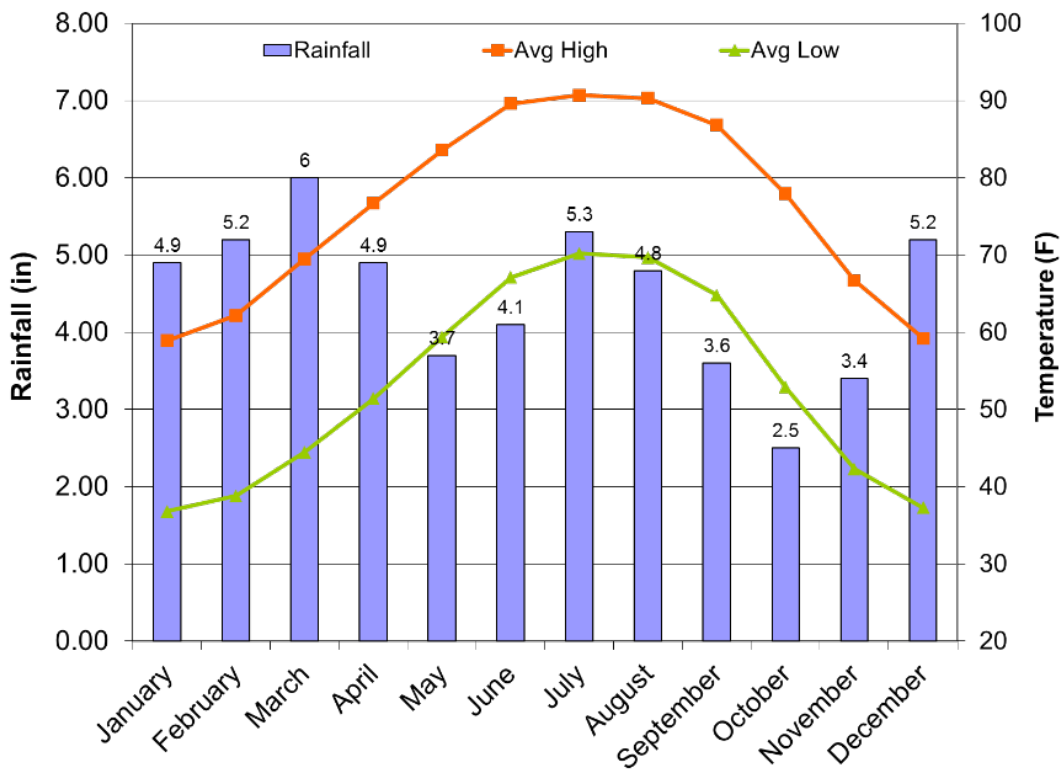
Figure 1-1  
September 2017



### 1.4.1. Climate

The City has a humid subtropical climate, with short mild winters, warm springs and autumns, and long hot humid summers. Winter temperatures average 47.9°F in January with lows rarely dipping below 20°F. Summer temperatures average 80.4°F in July with highs exceeding 90°F for more than 72 days per year. The City receives approximately 53.6 inches of rainfall annually. Rainfall tends to be evenly distributed throughout the year with dryer periods occurring during late summer and early fall. Light snowfall occurs in some winters. Average monthly rainfall and temperature are summarized in Figure 1-2. Significant snow fall events are rare in the City.

**Figure 1-2 Average Rainfall and Temperatures**



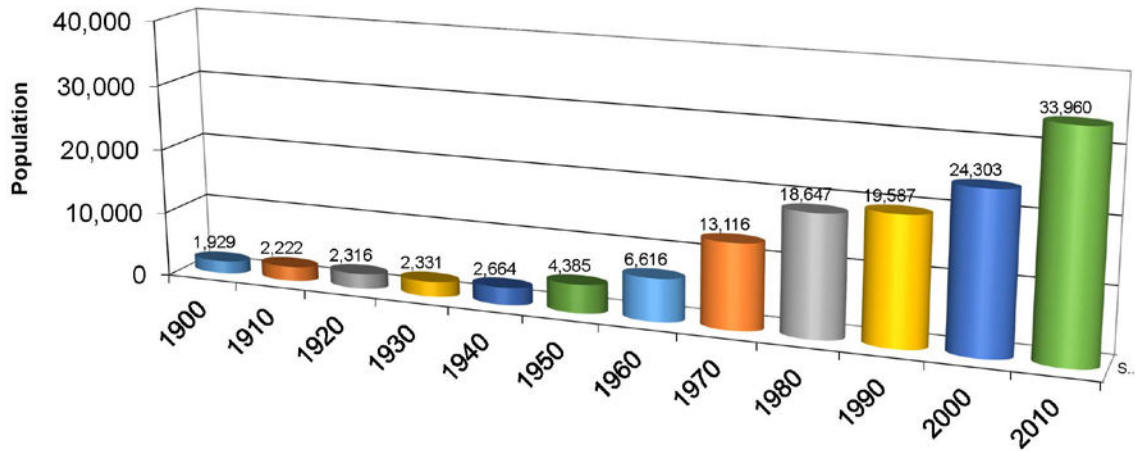
### 1.4.2. Population

Since the City was incorporated in 1839, the City experienced a small increase in population until 1960. From 1960 to 2010, the City has experienced a significant population growth. Figure 1-3 provides a graph showing the historical population of the City since 1900.



The 2010 Census estimated the total population of the City to be 33,960. As compared to the population in 2000 of 24,303, the City has experienced a population increase of 9,657 (approximately 39.7%) over the past 10 years.

**Figure 1-3 Historical Population**



### 1.4.3. Land Use

The City utilizes various zoning districts for the development of land within the City. These zoning categories have been generalized into residential, redevelopment, business, manufacturing, office, planned unit development and agricultural districts. A summary of the zoning districts is summarized in Table 1-1 and shown in Figure 1-4.

**Table 1-1 Zoning Districts**

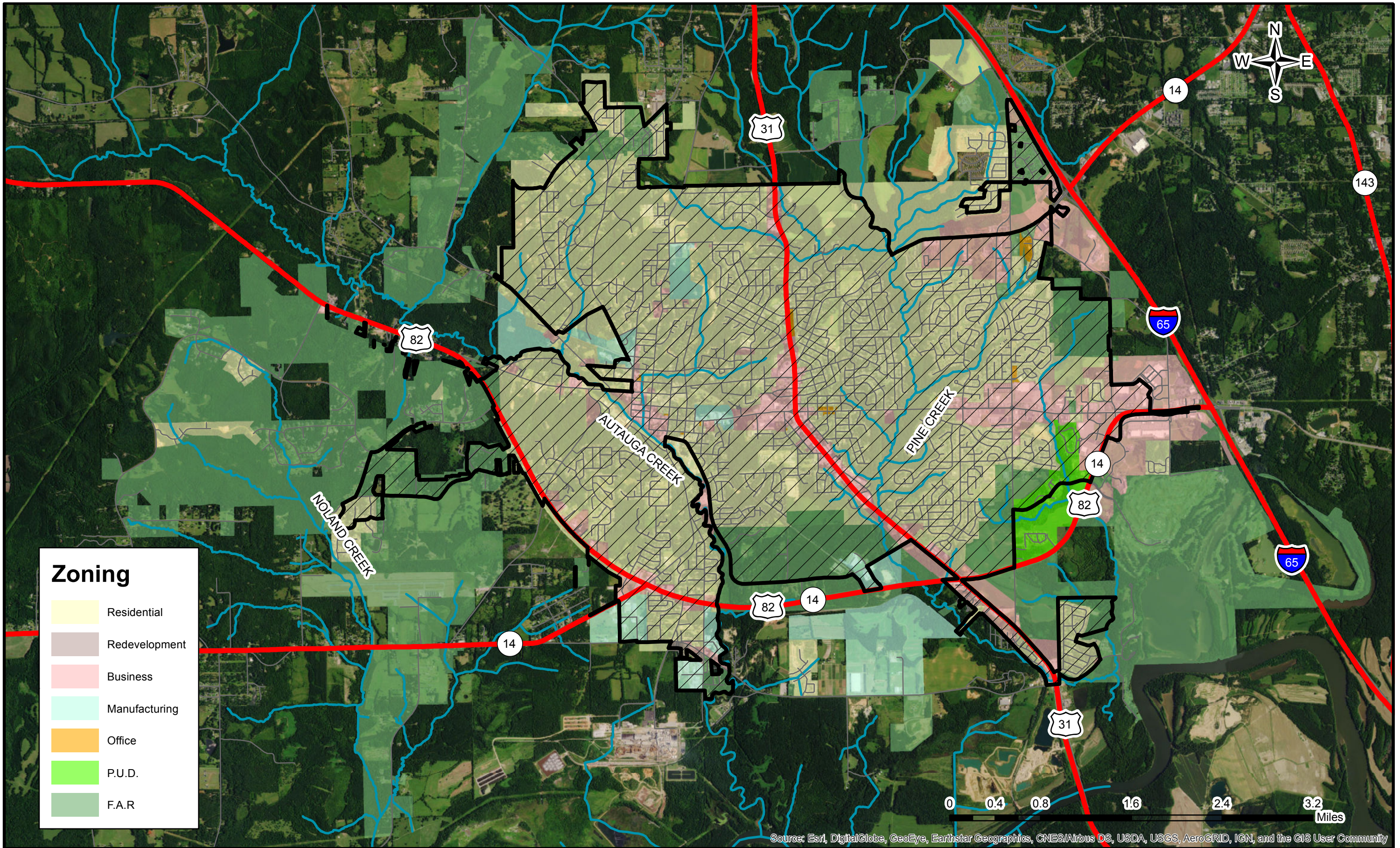
District	City		MS4 Area	
	Area (mi <sup>2</sup> )	Area (%)	Area (mi <sup>2</sup> )	Area (%)
Residential	14.625	42.3	12.615	70.9
Redevelopment	0.028	0.1	0.022	0.1
Business	3.492	10.1	2.199	12.4
Manufacturing	1.566	4.5	0.465	2.6
Office	0.058	0.2	0.058	0.3
Planned Unit Development	0.448	1.3	0.170	1.0
Agriculture	14.351	41.5	2.251	12.7
Total	34.568	100.0	17.781	100.0



Overlapping the land use with watershed boundaries help the City to identify and implement Best Management Practices (BMPs) targeted to improve water quality.

### **1.5. Known Problems**

According to ADEM's 2016 303(d) list, there are no streams within the City that have been designated as impaired. Additionally, there are no streams with EPA approved Total Maximum Daily Loads (TMDLs) located within the City.



**Zoning**

- Residential
- Redevelopment
- Business
- Manufacturing
- Office
- P.U.D.
- F.A.R.

- Prattville MS4 Area
- Streets
- ALDOT Roads
- Streams



**CITY OF PRATTVILLE**  
Land Use Summary

**Figure 1-4**  
September 2017

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



## SECTION 2

Program Evaluation



## 2. Program Evaluation

---

### 2.1. Program Objectives

The primary objective of the SWMP is to effectively prohibit the discharge of non-stormwater discharges into the MS4 and reduce the discharge of pollutants from the MS4 to the MEP. The City has implemented, maintained and revised the SWMP as necessary to comply with the requirements of the NPDES permit.

The City has made significant progress over the past year in developing and implementing its SWMP to the MEP. Major accomplishments are summarized below.

### 2.2. Public Education

The MS4 NPDES permit requires the City to develop, implement and evaluate a public education and public involvement program. Goals of the program are to:

- Educate the community about the impacts of storm water discharges into streams, rivers, lakes and ponds;
- Identify steps that the community can take to help reduce pollutants in storm water runoff;
- Provide opportunities for public input and feedback;
- Engage the public to actively participate; and,
- Facilitate opportunities to provide public education.

As the public gains a greater understanding of the benefits of a storm water program, the City is likely to gain more support for the SWMP and increased compliance with the NPDES permit requirements. Public education and public involvement provides a mechanism to help the public understand how their actions can potentially impact storm water quality. Public participation can also help reduce the amount of pollution generated and identify potential pollution causing activities and/or sources.

The City has utilized a variety of techniques to inform its citizens about activities that are occurring throughout the City as well as provide information to help educate the local community on how to protect water resources. Some of the mechanisms utilized by the City are summarized in the following sections.





### 2.2.1. Local Partnerships

The City has formed partnerships with local and statewide organizations to capitalize on education materials and programs that have already been developed. Ongoing activities with partnership organizations that supports the City's SWMP include the following:

Alabama Clean Water Partnership (CWP)

[www.cleanwaterpartnership.org](http://www.cleanwaterpartnership.org)

- City is an Alabama River basin sponsor;
- A City representative is on the Board of Directors; and,
- Water Festival organization.

Autauga Creek Improvement Committee (ACIC)

[www.ataugacreek.org](http://www.ataugacreek.org)

- City provides links to organization on website; and,
- Maintains Canoe Trail Park.

Alabama Cooperative Extension System (ACES)

[www.offices.aces.edu/atauga/](http://www.offices.aces.edu/atauga/)

- The City provided Pratt Park for the Annual Kid's Fishing Rodeo; and,
- Water Festival organization.

Alabama Soil and Water Conservation Committee (ASWCC)

[www.alconsevationdistricts.gov](http://www.alconsevationdistricts.gov)

- ASWCC provides the City with technical resources to support various program components.

ADEM

[www.adem.state.al.us](http://www.adem.state.al.us)

- Coordinate on non-storm water discharge investigations.

The City's contribution to the above referenced organizations may include but are not limited to staff participation, financial contributions, land contributions, and/or technical assistance. Additional educational activities performed by each entity are further documented on their website. The Autauga County Cooperative Extension System's Summer 2017 Newsletter documents their associated events and is included in Appendix A.

### 2.2.2. Website

The City has developed a website (<http://www.prattvilleal.gov/>) that provides a lot of information about the City. It also provides some general information

---



regarding what the public can do to help minimize pollution and how to protect the quality of stormwater runoff. Some topics provided on the website include but are not limited to the following.

- Storm Water Management Program
  - NPDES Permit ALS000010
  - SWMP Plan
  - Annual Report(s)
- Stormwater Resources
  - How Can YOU Prevent Stormwater Pollution?
  - EPA Educational Materials
  - Brochures, guides, and booklets
- Sanitation
  - Household garbage collection
  - Yard trash collection
  - “Garbage Can Tips” Public Service Announcement
  - Recycling Center and information
  - Hazardous Waste Disposal
    - Household Cleaner Alternatives
    - Gardening and Pest Control Alternatives
- Wastewater
  - Recycling Grease
- Building Department
  - Codes and Permits
  - Development Forms
- Floodplain Management

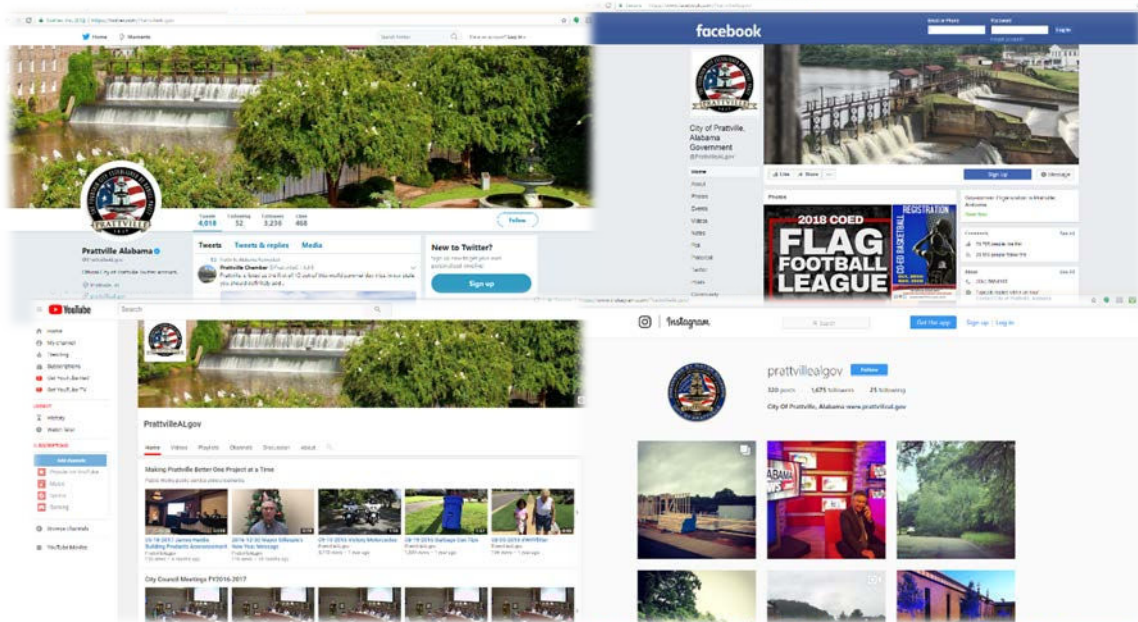
Through the website, citizens are provided access to the City’s regulations, ordinances, permitting requirements and a variety of other information. The website is maintained and updated on an as needed basis. Screen shots of selected pages are included in Appendix A.

### **2.2.3. Social Media**

The City is active on several social media platforms. This allows the City the opportunity to send direct messages in a timely manner to residents, businesses, property owners, and others actively following the City on these platforms. This offers a cost effective, environmentally friendly mechanism to potentially inform the public regarding storm water related issues. Selected screenshots of the City’s social media sites are provided in Figure 2-1.



Figure 2-1 City Social Media Pages



The City currently maintains the following social media platforms.

Facebook: <https://www.facebook.com/PrattvilleALgov/>

- 20,156 Followers
- 20,765 “Likes”

Twitter: <https://twitter.com/PrattvilleALgov>

- 3,236 Followers
- 4,018 Tweets

YouTube: <https://www.youtube.com/user/PrattvilleALgov/>

- 125 Subscribers
- 50,863 Views since 24 September 2009

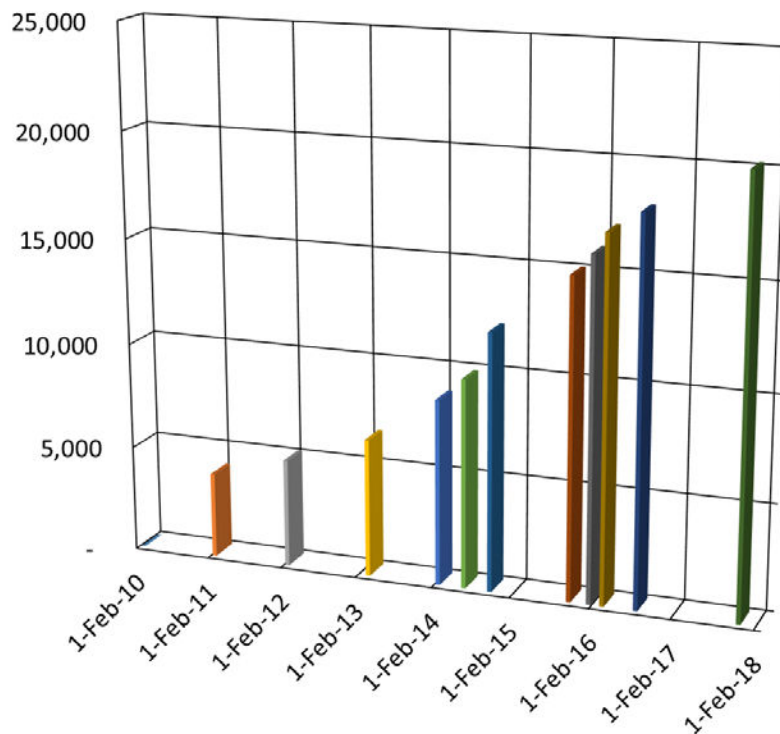
Instagram: <https://www.instagram.com/PrattvilleALgov/>

- 1,675 Followers
- 320 Posts

To show the effectiveness of social media in communicating with the public, Figure 2-2 provides a chart depicting the steady growth in the number of people following the City’s Facebook page. This chart shows that residents are seeking information about City events, programs, and schedules through social media platforms. Social media as an information conduit has gained traction since its inception as residents seek up-to-date alerts, timely information, and deeper understanding of City services.



**Figure 2-2 Facebook Followers**



#### 2.2.4. Public Service Announcements

Several public service announcements (PSA) were developed to help educate citizens on reoccurring problems with pollution that impacts the City’s MS4. The City has created a YouTube channel to allow continual access to these PSAs at <https://www.youtube.com/user/PrattvilleALgov>. A summary of the PSAs available to the public includes the following:

- Litter PSAs – Four (4) videos with various volunteer organizations, Public Works Department employees, Mayor Gillespie, and other residents removing litter from public areas. The videos encourage residents not to litter and “Do Your Part” to remove existing litter. Residents are encouraged to use the “hashtag” phrase #WHYlitter. The YouTube feeds are available at:
  - [https://www.youtube.com/watch?v=sYA-jMG\\_1c](https://www.youtube.com/watch?v=sYA-jMG_1c)
  - <https://www.youtube.com/watch?v=ct5bOi3tRCY>
  - <https://www.youtube.com/watch?v=sj3el4U7-lc>
  - <https://www.youtube.com/watch?v=YZWOqbY4LD8>



- Garbage Can Tips – The City replaced residents’ garbage cans and provided a Youtube video showing proper can placement, how to dispose of garbage in the can, and where instructions are located on the can. Giving every resident a new garbage can may encourage residents to utilize the cans more frequently, decreasing litter. The YouTube feed is available at: <https://www.youtube.com/watch?v=bOaN-dN3wTg>.

The City has also embedded one litter PSA and the Garbage Can Tips PSA on Public Works Department webpages.

### **2.2.5. Brochures**

The City of Prattville has developed several brochures, booklets, and handouts to provide general information about stormwater related issues. Brochures are made available through the City’s website at the “Stormwater Resources” webpage. Some brochures are developed to address either a specific storm water related issue or to a particular audience. These brochures are typically provided to the audience of interest.

During the development of the City’s SWMP, the City determined that using the website is the most cost effective mechanism to communicate with residents. This provides the City with more flexibility and creativity to reach a wide public audience. There are many advantages to this strategy, including the following.

- Environmental impact of reduced printing;
- Reduced cost of printing;
- Distribution to a wide-reaching audience independent of visiting a physical location;
- Ability to reach an audience at all times through the website; and,
- Increased communication with City employees, residents, community groups, and neighborhood leaders.

Copies of the existing brochures and booklets available on the website are provided in Appendix A. Table 2-1 provides a summary of the brochures that have been developed.

The City coordinated with the following groups to utilize existing materials and develop educational materials that are unique to the City.

- Environmental Protection Agency (EPA);
- Erie County, New York;
- City of Bryan, Texas; and,



- Mid-America Regional Council (MARC).

The City printed and distributed 200 copies of the “Down Stream” booklet at CityFest in downtown Prattville on 12 and 13 May 2017. Since 1 July 2017, the City has distributed 237 copies of the “Stormwater Requirements for Construction” to every person obtaining a building permit.

**Table 2-1 Brochures**

Description	Target Pollution Source	Target Audience	Distribution
<b>Brochures</b>			
Storm Drain Stewardship	General Information	Homeowners Renters Schools Business Owners Contractors Professionals Developers	Website 200 distributed at event
<b>Fact Sheets</b>			
Protecting Water Quality from Urban Runoff	General Information	Homeowners Renters Schools Business Owners Contractors Professionals Developers	Website
<b>Booklets</b>			
Down Stream – A Guide for Preventing Urban Runoff and Stormwater Pollution	General Information	Homeowners Renters Schools Business Owners	Website
Do Your Part – Be Septic Smart	Septic System Management	Homeowners Renters Business Owners	Website
Stormwater Requirements for Construction	Construction Site Permitting Informational Links	Contractors Professionals Developers	Website 237 distributed with building permits
<b>Posters</b>			
Stormwater and the Construction Industry	Construction Site Runoff ESC Plans BMP Maintenance	Contractors Professionals Developers	Website



### **2.2.6. Workshops**

The City hosted a Nonpoint Education for Municipal Official (NEMO) workshop on 5 January 2017. NEMO is a national program designed to help inform elected officials and citizens of the impact of nonpoint source pollution on water quality. Marla Smith with ADEM gave the presentation to the Mayor, City Council, and meeting attendees. A copy of the meeting agenda and attendee list is provided in Appendix A.

### **2.2.7. Training**

On 27 September 2017, 82 City employees from the Public Works and Parks and Recreation Departments watched a video about illicit discharge types, causes, identification, and abatement. As a result of this training, a City employee identified and reported two (2) instances of trash and debris near stormwater conveyances at local discount stores. Investigations conducted by the City are described in the “Illicit Discharge Investigations” section of this report. A copy of the video and Employee training sign-in sheet is provided in Appendix C.

## **2.3. Public Involvement**

The City has utilized a variety of techniques to implement its public involvement, and outreach program. Mechanisms and activities that have been implemented this permit year are summarized in the following sections.

### **2.3.1. Public Reporting**

The City has implemented a citizen reporting tool for the general public to provide suggestions and/or to report incidents that may potentially impact the MS4. A citizen can report an issue of concern, nuisance, or request maintenance by visiting: <http://www.prattvilleal.gov/helpdesk/citizen-helpdesk.html>. This reports citizen complaints through the City’s online portal and distributes requests to associated Departments automatically.

The City uses a work order system as the backbone of the City’s reporting portal. The work order system provides the City with an effective tool to work with citizens and resolve their issues.

- Requests from citizens do not get lost or misfiled. All calls entered are stored, routed to the correct department(s), and managed through the work order system. At any time, information and status of a citizens request is available.

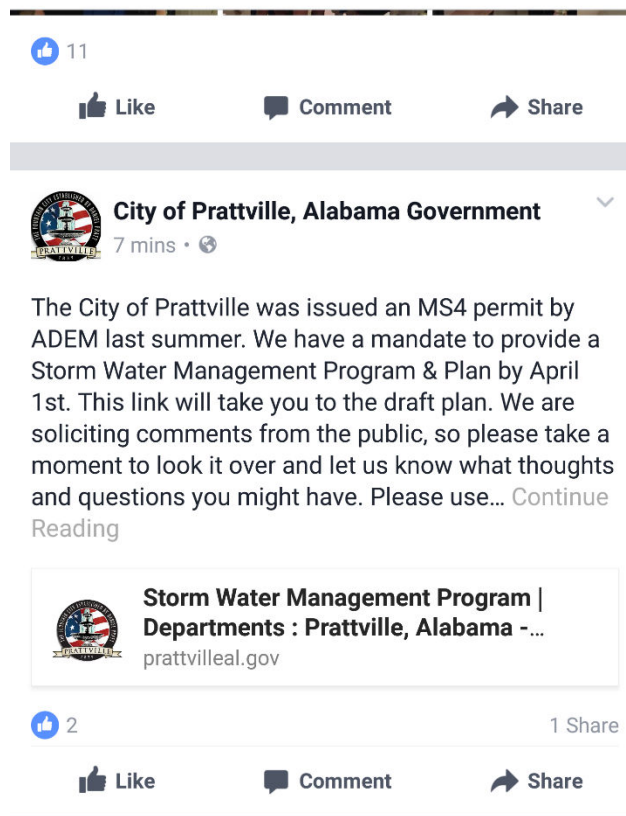
- The Citizen Helpdesk has been incorporated into the City’s website. This provides a virtual citizen service center available 24 hours a day, seven days a week.

To help track stormwater related issues, the City is currently working to add a “stormwater” tab to the work order system. This may help the City determine frequency and location of recurring stormwater-related issues.

### 2.3.2. Public Input

As required by the new Phase II NPDES Permit, the City was required to develop a SWMP Plan. As part of this process, the City solicited public input by posting the proposed SWMP Plan on the website for a 30 day comment period. On 17 February 2017, the City posted an article on its Facebook page informing the citizens that a draft SWMP Plan was available for review and where to obtain a copy of the draft SWMP Plan. Since no public comment was received by the City, the SWMP Plan was finalized and made available on the website.

**Figure 2-3 SWMP Plan Facebook Announcement**







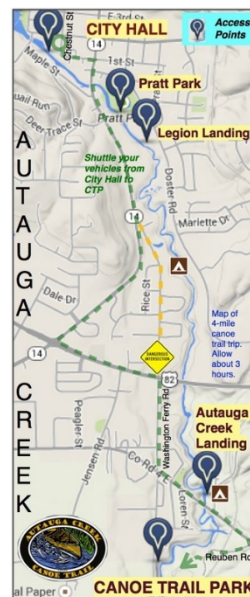
### 2.3.3. Autauga Creek Improvement Committee (ACIC)

In July 2011, the Mayor formed the Autauga Creek Improvement Committee (ACIC) to help protect one of the City’s most iconic natural resources, Autauga Creek. A core group of citizens jumped on board and quickly began the process of removing debris and trash from Autauga Creek. As the ACIC continued to evolve, it obtained status as a nonprofit 501(c)(3) organization and developed the following mission statement:

*“To provide a natural, scenic, and educational recreation experience through ecological conservation and preservation of quality public access to Autauga Creek Canoe Trail”*

In the past couple of years, ACIC has not only secured a spot for Autauga Creek on the Alabama Scenic River Trail, but also acquired the designation as a National Recreational Trail. Signs have been posted along the 14 mile blueway trail to help provide visitors with information about the trail. The sign installed as Doster Well Park and a map of the four (4) mile section of the blueway trail are provided in Figure 2-4. ACIC provides educational opportunities and materials as well as supports cleanup activities along the blueway trail. Information about ACIC is provided at [www.ataugacreek.org](http://www.ataugacreek.org). Selected brochures developed and distributed by ACIC are provided in Appendix A.

**Figure 2-4 Autauga Creek Blueway Trail**



### 2.3.4. Autauga County Water Festival

Autauga County Water Festival is open to all fourth grade students in Autauga County, including all public, private schools and home school students. The festival is designed to be a fun, educational and memorable event in a field day atmosphere. The purpose of this event is to educate children about all aspects of water and other related natural resources through interactive hands-on activities. The goal of the festival is to instill in each student a general environmental awareness and stewardship ethic. The City is not only a sponsor of the festival, but also provides volunteers that help organize and host the festival. This year's festival was held on 27 April 2017 and had over 800 students in attendance. Photos from the event are included in Figure 2-5.

**Figure 2-5 Autauga County Water Festival**



### 2.3.5. Recycling

The City operates a Recycling Center located at 122 Ridgewood Road. The Center is open on Mondays and Wednesdays from 8:00 AM to 3:00 PM and Saturdays from 7:30 AM to 3:30 PM. On Saturdays, the City also collects garbage and yard debris. The City accepts the following items for recycling:

- Aluminum cans;
- Paper;
- Newspaper;
- Magazines;
- Cardboard;
- Steel and tin cans;
- Plastics (codes 1 and 2); and,
- Phone books.

The City recently opened a drop off location for recyclables in the parking lot of Overlook Park located at 299 Jay Street. The drop off location has bins for aluminum, plastics, paper, cardboard, and steel or tin cans. Pictures of the Recycling Center and new drop off location are provided in Figure 2-6.

**Figure 2-6 Recycling Locations**



Prattville Recycling Center



Overlook Park

### 2.3.1. Pet Waste Stations

The City has seven (7) pet waste disposal stations at various locations in Prattville parks and public areas. These stations are regularly maintained including emptying, refilling bags, and general maintenance. The City typically purchases 3,000 bags each permit year. A photograph of the pet waste disposal system installed at Pratt Park is provided in Figure 2-7.

**Figure 2-7 Pet Waste Disposal Station**





### **2.3.2. Autauga PALS Cleanups**

The City and the Autauga County Commission occasionally have citizens performing mandated community service within the City. This service includes litter cleanups associated with People Against a Littered State (PALS). During the permit year, 86.9 miles of roadway within the City were cleaned by citizens performing community service. Roadways included:

- West 6<sup>th</sup> Street;
- Martin Luther King Jr. Drive;
- County Roads 4, 29, 57, 85, 54, 23, and 12;
- Washington Ferry Road;
- Jensen Road;
- Highway 14 East and West;
- Highway 82 Bypass;
- McQueen Smith Road;
- Doster Road;
- Highway 31 North;
- Gardiner Road; and,
- East Main Street.

A summary of community service roadside cleanups provided by Autauga PALS is included in Appendix A.

## **2.4. Illicit Discharge and Improper Disposal**

The City is in the process of developing and implementing an Illicit Discharge Detection and Elimination (IDDE) Program in accordance with the SWMP Plan. The City has been divided into five (5) areas to map and screen outfalls during within a five (5) year period. Boundaries of each area are shown in Figure 2-8.

The City developed a Standard Operating Procedure (SOP) for Illicit Discharge Notification Procedures during the permit year. A copy of the SOP is provided in Appendix B and added to Appendix D of the SWMP Plan.

### **2.4.1. Legal Authority**

The City is in the process of developing and an ordinance to implement and enforce its IDDE Program. Once the ordinance is developed, the SWMP Plan shall be updated.



### **2.4.1. Public Education**

Public education activities associated with the IDDE program are described in Sections 2.2 and 2.3 of this report.

### **2.4.2. Public Reporting**

The City has implemented a citizen reporting tool for the general public to provide suggestions and/or to report incidents that may potentially impact the MS4. A citizen can report an issue of concern, nuisance, or request maintenance by visiting: <http://www.prattvilleal.gov/helpdesk/citizen-helpdesk.html>. This reports citizen complaints through the City's online portal and distributes requests to associated Departments automatically.

### **2.4.3. Grease Control Program**

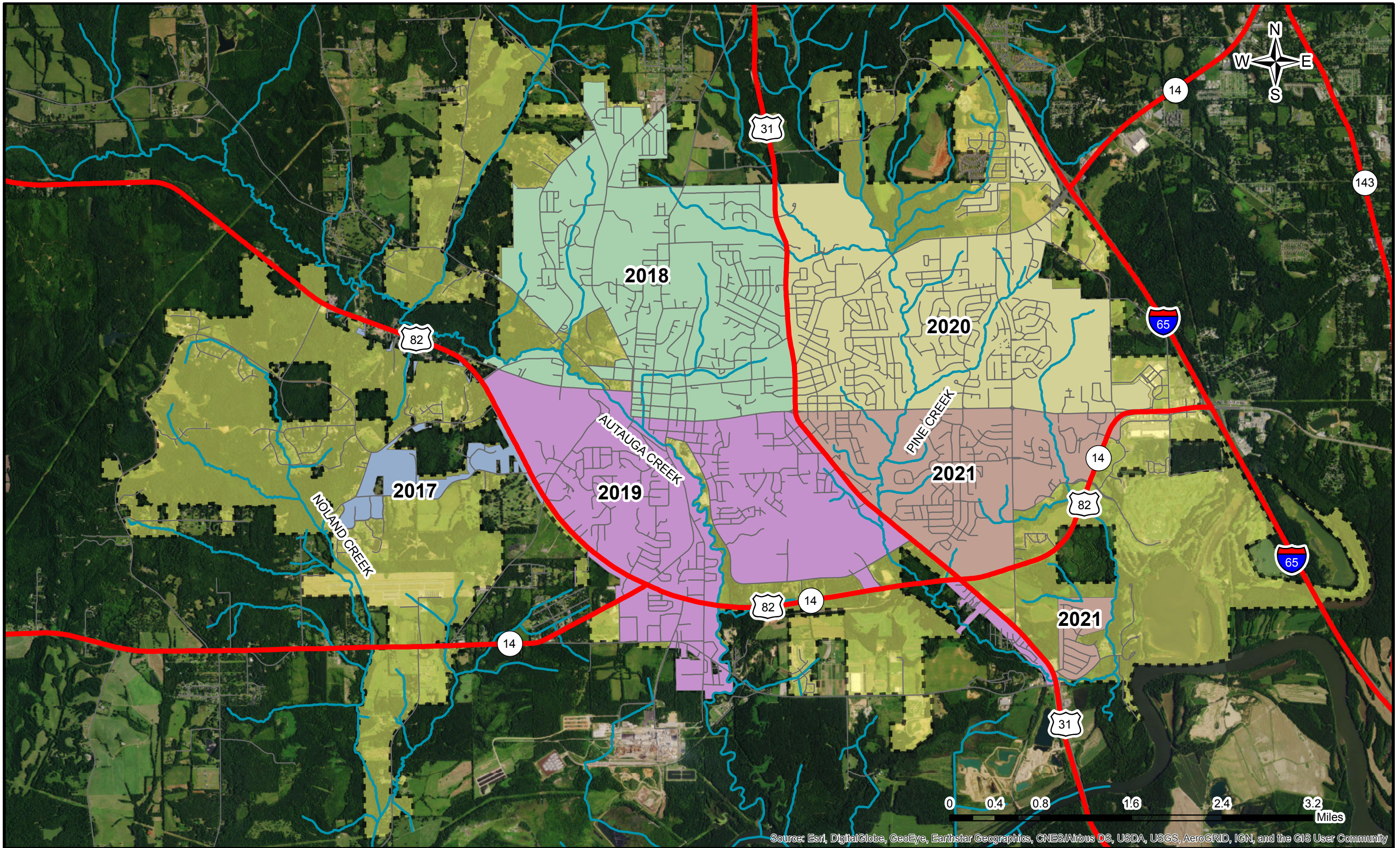
In order to minimize the disposal of used grease into the sanitary sewer system, the City has implemented a fats, oils and grease control program. This program requires a food service establishment to install, operate and maintain a grease interceptor or trap. A food service establishment is required to submit an annual report summarizing any maintenance activities performed on the grease interceptor or trap. Periodic inspections of the food service establishment are performed by the City.

### **2.4.4. Outfall Inventory**

The City began efforts to locate, map and screen stormwater outfalls during the permit year. During this permit year, seven (7) outfalls have been located and evaluated for the presence of non stormwater discharges. The City completed the area in Figure 2-8 designated for permit year 2017. There were no illicit discharges identified during the inspections.

The City's IDDE Program describes the approach and use of best available technology for completing an Outfall Reconnaissance Inventory (ORI) to map and screen stormwater outfalls. A mobile application, through ArcGIS Collector, was used to convert the ORI form into an electronic format. This mobile application provides field crews with the following enhanced capabilities:

- GPS mapping to facilitate outfall location;
- Electronic data collection;
- Minimize the types of equipment needed for field work;
- Ability to report a problem immediately when it is discovered; and,
- Data collected is in ArcGIS format.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Prattville City Limits	Streets	2017	2019	2021
ALDOT Roads	Streams	2018	2020	



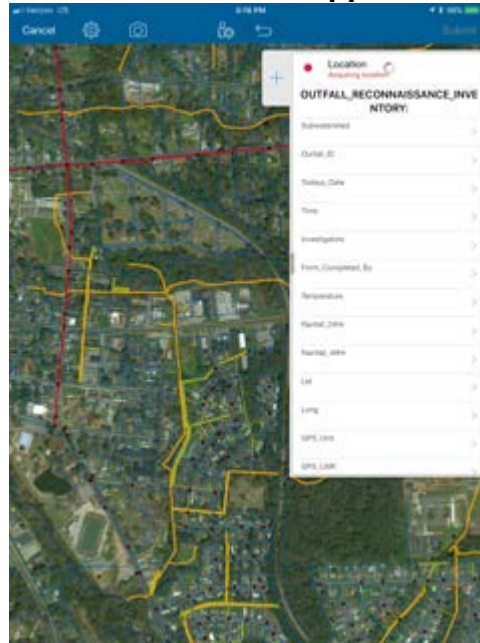
**CITY OF PRATTVILLE**  
Outfall Mapping and Screening Schedule

Figure 2-8  
September 2017



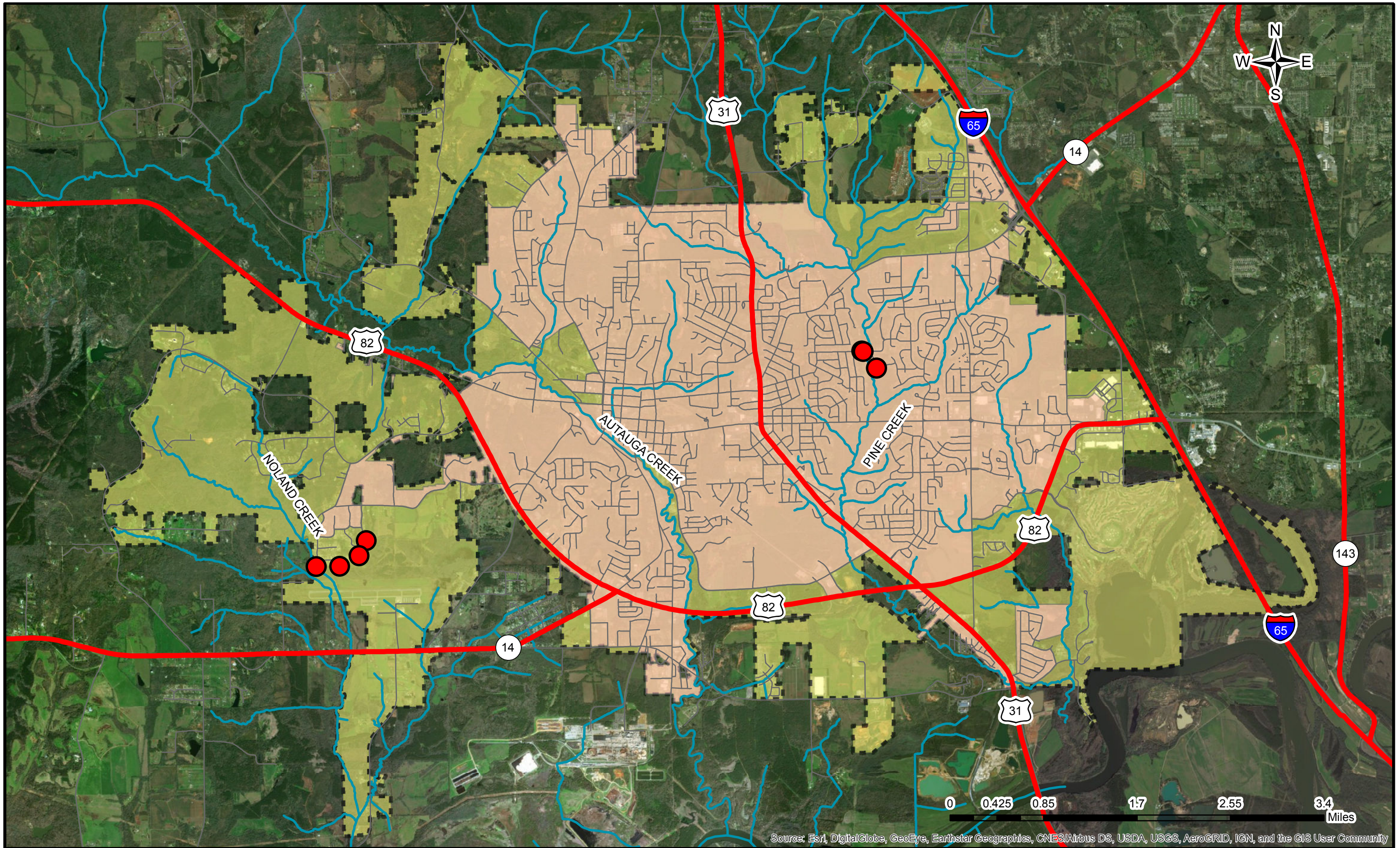
Data collected during the ORI is maintained in the City’s GIS dataset for stormwater outfalls. Screen shots of the ArcGIS Collector mobile application are provided in Figure 2-9. A summary of the outfalls screened from 1 October 2016 through 30 September 2017 is provided in Table 2-2 and shown in Figure 2-10. Copies of the outfall mapping forms are provided in Appendix B.

**Figure 2-9 ArcGIS Collector Application Screenshot**



**Table 2-2 2017 Outfalls Screened by Watershed**

Watershed	Total	2017	2018	2019	2020	2021
Noland Creek	4	4				
Autauga Creek						
Pine Creek	3	3				
Totals	7	7				



Prattville City Limits	ALDOT Roads	Streets
OUTFALLS	Prattville MS4 Area	Streams



**CITY OF PRATTVILLE**  
Outfall Inventory

Figure 2-10  
September 2017





### **2.4.5. Training**

On 29 June 2017, a City staff member tasked with performing outfall mapping and screening was trained by Hydro Engineering Solutions to conduct outfall screening, illicit discharge investigations and reporting. A copy of the attendance record and training material is provided in Appendix B.

On 27 September 2017, 82 City employees from the Public Works and Parks and Recreation Departments watched a video about illicit discharge types, causes, identification, and abatement. As a result of this training, a City employee identified and reported two (2) instances of trash and debris near stormwater conveyances at local discount stores. Investigations conducted by the City are described in the “Illicit Discharge Investigations” section of this report.

### **2.4.6. Illicit Discharge Investigations**

The City investigated six (6) instances of suspect illicit discharges based on complaints received through the City’s Complaint Tracking System or calls received by various City Departments. A summary of each complaint and investigation is listed below.

- 105 Ivey Court – A resident called and complained about a neighbor dumping used oil in the street. Prior to the investigation, a storm event occurred, potentially washing away remnants of the spill. The area was swept to clean up any residual oil. The resident was informed to report any further instances.
- East 3<sup>rd</sup> Street and South Washington Street – A contractor was pumping turbid water into an inlet near the location. City personnel informed the contractor to treat the water prior to discharge into the MS4.
- 748 Wingard Street – The City received a call about possible sewage in a ditch. Upon investigation, City staff found a broken sewage lateral discharging to the ditch. The Wastewater Department repaired the lateral.
- 601 McQueen Smith Road – A City employee reported litter and debris in a swale at the Dollar General store. City staff informed the manager and the debris was removed.
- 1920 Cobbs Ford Road – A City employee reported overflowing dumpsters and litter and debris in a swale behind the Dollar Tree store. City staff informed the manager, but no action was taken. The City turned the matter over to the Code Enforcement Department for further action.



- End of Red Eagle and Northington Road – The City received a call about turbid water in Noland Creek. City staff investigated and discovered a logging operation crossing the creek without proper BMPs, causing sediment to enter the creek. The Alabama Forestry Commission was notified and the loggers were cited. Proper BMPs were constructed and observed during a follow up investigation.

#### **2.4.7. Sanitary Sewer System**

A majority of the City's MS4 area is serviced by the City's sanitary sewer system. The City owns and operates the sanitary sewer collection system and two (2) Wastewater Treatment Plants. If any problems with the sanitary sewer system are encountered, they are reported to the Public Works Wastewater Department.

### **2.5. Construction Site Runoff**

Major accomplishments in the Construction Site Runoff Program are summarized below.

#### **2.5.1. Legal Authority**

The City is in the process of developing and an ordinance to implement and enforce its Construction Site Runoff Program. Once the ordinance is developed, the SWMP Plan shall be updated.

#### **2.5.2. Permitting and Plan Review**

During the development of the Construction Site Runoff Program, the City shall develop permitting and plan review requirements. Once the permitting and plan review requirements are developed, the SWMP Plan shall be updated.

#### **2.5.1. Training and Certification**

Currently, the City has one (1) QCI certified inspector. A copy of the QCI certificate is provided in Appendix C. As the City develops the Construction Site Runoff Program, the City may identify additional staff to obtain a Qualified Credentialed Inspector (QCI) certification.

#### **2.5.2. Education and Training Materials**

The City has provided links on its website for education, training materials and resources for construction site operators, as discussed in the "Educational Materials" section of this report. Since 1 July 2017, the City has distributed 237



copies of the “Stormwater Requirements for Construction” to contractors obtaining a building permit.

During the permit year, the City held a short training session for four (4) inspectors given by Gerald Martin with Autauga Soil and Water Conservation Service. The training discussed MS4 regulations and requirements and typical BMP management on construction sites. A copy of the training materials is provided in Appendix C.

### **2.5.3. Inspections**

During the development of the Construction Site Runoff Program, the City shall develop construction site inspection requirements. Once the construction site inspection requirements are developed, the SWMP Plan shall be updated.

Until the construction site inspection requirements are developed, subdivision and development sites are inspected routinely and notes are taken in a log book. A copy of an example log book excerpt is provided in Appendix C.

### **2.5.4. Enforcement**

During the development of the Construction Site Runoff Program, the City shall develop an enforcement strategy and requirements. Once the enforcement actions are developed, the SWMP Plan shall be updated.

### **2.5.5. ADEM Notification**

Until the City develops its enforcement strategy, the City shall rely upon ADEM to enforce compliance with the Construction Site Runoff Program. During the permit year, the City filed three (3) complaints concerning construction sites to ADEM for violations of their NPDES permit. Copies of the complaints are provided in Appendix C.

### **2.5.6. Public Reporting**

The City has implemented a citizen reporting tool for the general public to provide suggestions and/or to report incidents that may potentially impact the MS4. A citizen can report an issue of concern, nuisance, or request maintenance by visiting: <http://www.prattvilleal.gov/helpdesk/citizen-helpdesk.html>. This reports citizen complaints through the City’s online portal and distributes requests to associated Departments automatically.



## **2.6. Post Construction Storm Water Management**

The City has developed a city wide concept that provides a systematic basis for thinking about the City's future. The future development pattern of the City has been organized with appropriate recognition given to the City's green infrastructure, its street and utility infrastructure and major existing uses of land.

### **2.6.1. Legal Authority**

The City is in the process of developing and an ordinance to implement and enforce its Post Construction Storm Water Management Program. Once the ordinance is developed, the SWMP Plan shall be updated.

### **2.6.2. Post Construction BMP Plan Review**

The City already has a permitting and plan review process that is shown in Figure 6-1 of the SWMP Plan. During the development of the Post-Construction Storm Water Management Program, the City shall incorporate the post construction BMP plan review into the existing process. Once the permitting and plan review process has been revised, the SWMP Plan shall be updated.

### **2.6.3. Post-Construction BMP Inspection**

During the development of the Post-Construction Storm Water Management Program, the City shall develop post-construction inspection requirements. Once the post-construction inspection requirements are developed, the SWMP Plan shall be updated.

### **2.6.4. As-built Certification**

During the development of the Post-Construction Storm Water Management Program, the City shall develop as-built certification requirements. Once the as-built certification requirements are developed, the SWMP Plan shall be updated.

### **2.6.5. Long Term Operation and Maintenance**

During the development of the Post-Construction Storm Water Management Program, the City shall develop long term operation and maintenance requirements. Once the long term operation and maintenance requirements are developed, the SWMP Plan shall be updated.



## 2.7. Pollution Prevention and Good Housekeeping

The pollution prevention / good housekeeping program is a key element to help the City to reduce potential pollutants from entering storm water runoff. This control measure requires the City to evaluate existing facilities and operations to identify areas of improvement that will help ensure a reduction in the amount and type of potential pollutants. The City’s activities are summarized in the following sections.

### 2.7.1. Municipal Facilities

The City provides a wide range of services to its citizens by various City Departments and facilities located throughout the City. The City maintains approximately 117 properties that consist of support facilities, parks, ball fields and building grounds that occupy approximately 1,314 acres (2.0531 square miles).

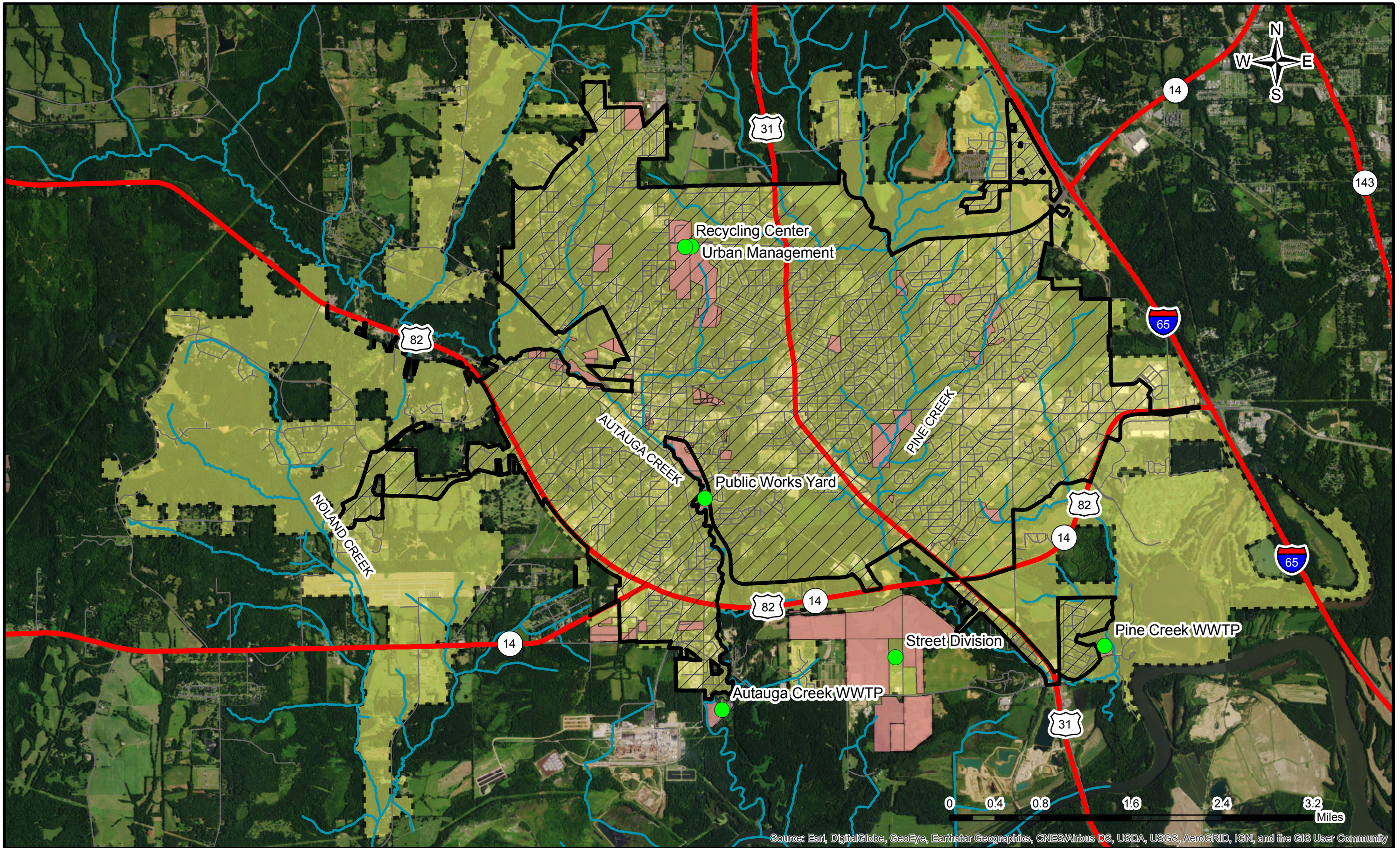
#### 2.7.1.1. Facility Inventory

The majority of municipal properties consist of parks and athletic fields which are actively utilized by the public throughout the year. Maintenance and upkeep of these facilities are performed on a routine basis. Routine inspections of parks and athletic fields will not be performed.

The City has identified six (6) facilities where operational activities occur to support City services. Maintenance and upkeep of these facilities are performed on a routine basis. The Municipal Support Facilities are summarized in Table 2-3 and are shown in Figure 2-11.

**Table 2-3 Municipal Support Facilities**

Facility Name	Department	Division	NPDES Permit
Public Works Yard	Public Works	Public Works	NA
Urban Management Yard		Urban Management	NA
Recycling Center		Sanitation	NA
Pine Creek WWTP		Wastewater	AL0027723
Autauga Creek WWTP		Wastewater	AL0026654
Street Division Yard	Engineering	Engineering	NA



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Prattville City Limits	ALDOT Roads	Streams	City Property
Prattville MS4 Area	Streets	Municipal Facility	



**CITY OF PRATTVILLE**  
Municipal Facility Inventory

Figure 2-11  
September 2017



### **2.7.1.2. Municipal Facility Inspections**

The City has developed a Municipal Facility inspection form to document annual inspections of Municipal Facilities identified in Figure 2-11. This form includes the following information.

- Facility Type;
- Inspection Type;
- Parking Areas;
- Vehicle Maintenance Areas;
- Trash Storage Areas;
- Material Storage Areas;
- Equipment Storage Areas;
- Fueling Station;
- Washing Station; and,
- Follow-up Actions and/or Maintenance Required.

During the permit year, the City performed inspections of the six (6) facilities identified as having the potential to contribute to storm water pollution. Copies of the inspection forms are provided in Appendix E.

### **2.7.1.3. Standard Operating Procedures**

The City has developed Standard Operating Procedures (SOPs) for the various activities required for implementing the Pollution Prevention and Good Housekeeping Program. SOPs the City currently maintains include to the following:

- Pesticides, Herbicides, and Fertilizers usage;
- Rain day schedules and activities for Urban Management crews; and,
- Emergency procedures for Spills and Leaks at Fire Stations 1 and 3 and Street Division Yard.

The City may develop additional SOPs and update existing SOPs for City maintenance activities, on an as needed basis. Existing SOPs are included in Appendix E.

### **2.7.1.4. Facility Maintenance**

Maintenance activities are performed by either the Parks and Recreation Department or the Urban Management Department. A summary of the responsibilities for each department is provided below:



The Parks and Recreation Department is responsible for maintenance of the playing fields and recreational facilities. The Parks and Recreation Department has three (3) crews with each crew assigned specific facilities. Activities performed at each facility is tracked on a on a Parks Checklist. An example of the Parks Checklist is provided in Appendix E.

The Urban Management Department is responsible for the perimeter areas of parks, grounds maintenance, mowing, litter patrol, and ditch maintenance. Resources allocated for each activity includes:

- Parks – Three (3) crews with each crew assigned to specific facilities
- Grounds Maintenance – Two (2) crews
- Mowing – Two (2) crews
- Ditch Maintenance – Two (2) crews; for ditch maintenance, the City has been divided into nine (9) separate sections. Within each section, ditches maintained by the City have been identified with a unique alpha-numeric code. Maps for each section are provided in Appendix G of the SWMP Plan.

During the permit year, the City updated the Urban Management Daily Checklist for each of the crews. Copies of the updated checklists are provided in Appendix E.

#### **2.7.1.5. Training**

On 27 September 2017, 82 City employees from the Public Works and Parks and Recreation Departments watched a video about illicit discharge types, causes, identification, and abatement, including using good housekeeping practices to prevent illicit discharges. A copy of the attendance sheets are provided in Appendix C.

#### **2.7.2. Roads**

The City is continuously implementing a very effective road maintenance program to prevent potential pollutants from entering the storm sewer system. Components of the program include the following.

- Road Inventory;
- Road Maintenance;
- Street Sweeping;
- Litter Control;





- Leaf Collection; and,
- Mitigation of hazardous road conditions associated with icing.

### 2.7.2.1. Road Inventory

The City is approximately over 34.25 square miles in size and has over 236.24 miles of roads that range from interstates to local roads. Interstates and State Roads are the responsibility of the Alabama Department of Transportation (ALDOT). The City is responsible for City owned or maintained local roads. An approximate inventory of the roads by classification is summarized in Table 2-4.

**Table 2-4 Road Inventory**

Operator	Classification	Length (mi)
Alabama Department of Transportation	Interstate / State Roads	12.99
County	County Roads	3.79
City of Prattville	Local Roads	219.46

### 2.7.2.2. Road Maintenance

Maintenance of the City's road network is performed by the Engineering Department. Routine maintenance activities may include:

- Road inspection;
- Road repairs, resurfacing, and pothole repairs;
- Curb and gutter repairs and replacement;
- Gutter line cleaning;
- Right-of-way maintenance; and,
- Sidewalk maintenance.

The City tracks road maintenance activities through a work order system. An example work order tracking summary is provided in Appendix E.

### 2.7.2.3. Street Sweeping

The Public Works Department has two (2) street sweepers dedicated for street sweeping. Curbed streets are typically swept once a week. Streets scheduled for resurfacing are swept and cleaned prior to resurfacing. Routine sweeping schedules have been developed to maximize the use of street sweepers. Maps showing the streets swept are included in Appendix G of the SWMP Plan.



The City has developed a Street Sweeping Collection Log to track the amount of debris removed from street sweeping activities. This information is incorporated into the Urban Management Debris Removal Summary, which tracks debris removed from street sweeping, litter control, and ditch maintenance activities. Copies of the Street Sweeping Collection Log and Urban Management Debris Removal Summary are provided in Appendix E. During the permit year, the City swept and removed approximately 388 cubic yards of material.

#### **2.7.2.4. Litter Control**

Roadside litter control BMPs implemented by the City to address health and aesthetic concerns also improve the quality of storm water runoff by limiting trash in runoff conveyance systems. Public Works Department crews routinely collect and dispose of litter, trash and debris.

The City has updated the Urban Management Daily Checklists for each maintenance crew during the permit year. The updated forms now incorporate tracking the amount of litter removed in bags. This information is incorporated into the Urban Management Debris Removal Summary, which tracks debris removed from street sweeping, litter control, and ditch maintenance activities. Copies of the Urban Management Daily Checklists and Urban Management Debris Removal Summary are provided in Appendix E. During the permit year, the City collected and disposed of approximately 643.5 bags of litter and 518 loads of debris.

#### **2.7.2.5. Deicing Activities**

Based upon the City's location, winter weather is infrequent. The City spreads sand on roads with snow or ice cover. After winter weather has subsided, the City removes the sand using a small front end loader and a street sweeper. Salt is not used for any deicing activities. The City did not have any deicing events during the permit year.

### **2.7.3. Pesticide, Herbicide and Fertilizer**

The City is continuously implementing a very effective pesticide, herbicide and fertilizer (PHF) program to prevent potential pollutants from entering the storm sewer system.

#### **2.7.3.1. PHF General NPDES Permit**

The City is currently reviewing ADEM's General NPDES Permit for discharges associated with the application of pesticides to determine if the City meets the requirements to obtain coverage under this permit. The City tracks mosquito



(pesticide) spraying activities through the Mosquito Spray Log. A copy of the log is provided in Appendix E.

**2.7.3.2. PHF Standard Operating Procedures**

Application, storage and disposal of pesticides, herbicides and fertilizers shall be performed in accordance with Federal and State regulations and in accordance with the manufacturer’s recommendations. The City has developed the following Standard Operating Procedures (SOPs) for mixing, application, clean up, storage, training and record keeping:

- SOP PHF-01 – Mixing, application, clean-up, and chemical calculations

A copy of the SOP is provided in Appendix G of the SWMP Plan.

**2.7.3.3. Facility Inventory**

The City maintains approximately 117 properties that consist of support facilities, parks, ball fields and building grounds that occupy approximately 1,314 acres (2.0531 square miles). The locations of City Property are shown in Figure 2-11.

**2.7.3.4. PHF Storage Facilities**

The City tries to optimize the use of pesticides, herbicides and fertilizers as well as minimize the quantity of chemicals stored. Chemical storage facilities are summarized in Table 2-5 and shown in Figure 2-11.

**Table 2-5 PHF Storage Facilities**

Facility	Address
Urban Management Yard	161 Ridgewood Road

The City’s PHF storage facility was inspected during the annual Municipal Facility Inspection of the Urban Management Yard. The City is currently developing a PHF Storage Facility Checklist.

**2.7.3.5. Certification and Licensing**

Chemical application is either performed by the Urban Management Department or the Parks and Recreation Department. Between the two departments, the City has four (4) personnel that are certified as a commercial applicator. Copies of their current certifications are provided in Appendix E.



### **2.7.3.6. Chemical Inventory**

The City may use a variety of pesticides, herbicide and fertilizer chemicals on road right-of-ways and City Areas. An inventory of chemicals stored at the Urban Management Yard is provided in Appendix E.

### **2.7.3.7. PHF Application**

The Urban Management Department has developed a log to document the facility, type and rate of chemical applied, weather conditions and applicator. A copy of the application log is provided in Appendix E.

### **2.7.3.8. PHF Disposal**

Typically, the City purchases chemicals as needed per application. This minimizes and/or eliminates the need for chemical disposal. During this permit year, the City either applied or stored chemicals it purchased.

## **2.8. Monitoring Activities**

There are no 303(d) listed or TMDL waters located within the City's MS4 Area. In accordance with Part III.1 of the City's NPDES MS4 Permit, the City is not required to develop and implement a monitoring program.

If waters within the City's MS4 Area become listed on the 303(d) list, the City shall develop a monitoring program to evaluate the pollutants of concern.

## **2.9. Program Strengths**

The biggest program strength is that the City has moved forward with developing, managing and implementing a SWMP. City staff are actively involved in the development, management and daily implementation of BMPs that will protect and help improve storm water quality. This also allows the City's SWMP to be a very dynamic program with the ability to evolve as necessary to meet the specific needs of the City. Advantages of the City's SWMP include but are not limited to the following:

- City leadership actively supports the storm water program;
- City leadership can develop policy and initiatives that are in the best interest of the City, its citizens and the environment;
- The City has a vested interest in the success of their SWMP;



- The Public Works Department has been tasked with the responsibility to coordinate with other City departments to develop, manage and implement the SWMP;
- City staff has a better understanding and knowledge base of the facilities, infrastructure, and activities that are occurring within the City. This allows City staff to proactively address potential problems before they arise;
- City staff are involved daily with the implementation of the SWMP; and,
- The City has existing programs that are used to minimize and/or eliminate the potential for discharging pollutants in storm water runoff. Some of these programs have been operating for many years.

## 2.10. Program Weaknesses

While the City has made significant progress in developing a SWMP, the City faces many challenges as the SWMP continues to evolve. Program weakness include the following:

- **Program Implementation** – The SWMP is new to the City and requires the City to develop programs for activities that have not previously been performed. As the City develops and implements its SWMP, the City anticipates that the SWMP will change and evolve as staff develop a better understanding of the NPDES permit, rules and regulations.
- **Funding** – Since the MS4 NPDES permit is driven by an unfunded mandate, the City does not have a dedicated funding source to develop and implement the SWMP. As the City's develops and implements the SWMP, additional staff and resources may be needed to support the activities described in new program elements.
- **Enforcement** – New rules, regulations and ordinances are being developed in support of the SWMP. Informing the community of new rules, regulations and ordinance changes will be an ongoing process. Although gradual improvement in compliance will occur over time, there still will be compliance and enforcement issues.
- **Public Expectations** – The public is very aware of environmental related issues and proactively involved in community affairs. Sometimes public expectations exceed the resources and capabilities of the City.



## SECTION 3

Summary Tables



## 3. Summary Tables

The purpose of the table is to document in a concise form the program activities, and permittee's compliance status with quantifiable permit requirements. The following tables in this section provide a summary of the City of Montgomery's MS4 program activities.

### 3.1. Public Education and Public Involvement

Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Public Education (Minimum of 1 activity / year)	Local Partnerships Track	Yes	1 CWP Steering Committee member
	Web Site Develop	Yes	Website has been updated to incorporate stormwater information
	Social Media Track	Yes	Facebook 20,156 Followers Twitter 3,236 Followers Youtube Channel 125 Subscribers Instagram 1,675 Followers
	Brochures 1/year	Yes	1 Brochure 200 Distributed 1 Fact Sheet 3 Booklets 237 Distributed 1 Poster  Available on Website
	Public Service Announcements Track	Yes	4 Public Service Announcements available online
	Workshops Track	Yes	NEMO Workshop 22 Attendees



Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Public Education (Minimum of 1 activity / year – cont.)	Training Track	Yes	1 IDDE video shown 82 City staff attended 2 City Departments represented
Public Involvement (Minimum of 1 activity / year)	Citizen Reporting Tool Track	Yes	Available on City's website
	Water Festival Track	Yes	1 Event Approx. 800 students
	Pet Waste Disposal Stations Track	Yes	7 Stations maintained 3,000 bags purchased annually
	City Recycling Centers	Yes	2 locations Tonnage tracked by Autauga County Commission
	Clean-up Events Track	Yes	Autauga PALS 86.9 miles cleaned
	Public Events Track	Yes	CityFest 200 Brochures distributed

**Comments**

1. Supporting information, documentation and data summarized in the table are provided in Appendix A.
2. Records and information are maintained in the Public Works Department.





### 3.2. Illicit Discharges and Improper Disposal

Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Legal Authority	Illicit Discharge Ordinance Develop	Yes	In development
Outfall Inventory	Mapping and Screening Schedule Update as needed	Yes	Schedule was updated in the SWMP Plan
	Outfall Screening Inspection Form Update as needed	Yes	No updates or revisions required
	Outfall Map Annually	Yes	Map has been updated
	Outfall Mapping and Screening Each Outfall 1 / 5 yr	Yes	7 Outfalls
Illicit Discharges	Citizen Reporting Tools Develop	Yes	Available on City's website
	Inspection Form Update as needed	Yes	No updates or revisions required
	Source Tracing Procedures	Yes	No updates or revisions required
	ADEM Notification Procedures Develop	Yes	SOP developed
	Mitigation Procedures	Yes	In development
	Training Develop	Yes	1 Mapping and Screening presentation 1 IDDE Identification video
	Training Implement	Yes	Mapping and Screening presentation 1 City staff IDDE Identification video 82 City Staff 2 Departments
	Complaints Track	Yes	6 Complaint(s)
	Illicit discharge investigations Track	Yes	6 illicit discharge investigations



Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Illicit Discharges (cont.)	Illicit discharges abated Track	Yes	6 illicit discharges abated

**Comments:**

1. Information and data associated with the Illicit Discharge and Detection Program are provided in Appendix B.
2. Records and information are maintained in the Public Works Department.



### 3.3. Construction Site Runoff

Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Legal Authority	Erosion and Sediment Control Ordinance Develop	Yes	In development
	Subdivision Regulations Update as needed	Yes	No update or revision required
Permitting	Permit Application Requirements	Yes	In development
	Permits issued Track	Yes	645 Residential 46 Commercial
Plan Review	Construction Best Management Practices Plan (CBMPP) Requirements Develop	Yes	In development
	CBMPP Review Checklist and Procedures Develop	Yes	In development
Inspections	Inspection Requirements Develop	Yes	In development
	Inspection Form Update as needed	Yes	No update or revision required
	Inspections Track	Yes	Maintained in log book
Enforcement Actions	Enforcement Strategy Develop	Yes	In development
	Enforcement Tracking System	Yes	In development
	Enforcement Actions Track	Yes	3 Notices to ADEM
	Citizen Reporting Tools Develop	Yes	Available on City's website



Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Enforcement Actions (cont.)	ADEM Notification Procedures Develop	Yes	SOP developed
Training	QCI Training 1 / Year	Yes	1 Staff Certified

**Comments:**

1. Copies of the QCI training certificates are provided in Appendix C.
2. Supporting information for the Construction Site Runoff Program is provided in Appendix C.



### 3.4. Post Construction Storm Water Management

Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Legal Authority	Post Construction Storm Water Management Ordinance Develop	Yes	In development
	Zoning Ordinance Update as needed	Yes	No update or revision required
	Comprehensive Plan Update as needed	Yes	
	Subdivision Regulations Update as needed	Yes	
Permitting	Permit Application Requirements	Yes	In development
	Permits issued Track	Yes	645 Residential 46 Commercial
Plan Review	Post Construction Storm Water Management Requirements Develop	Yes	In development
	Plan Review Checklist and Procedures Develop	Yes	In development
Post Construction BMPs	As Built Certification Requirements Develop	Yes	In development
Maintenance	Maintenance Requirements Develop	Yes	In development

**Comments:**

1. Supporting information and data associated with the Post Construction Storm Water Management Program are included in Appendix D.



### 3.5. Pollution Prevention and Good Housekeeping

Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Municipal Facilities	Inventory Develop	Yes	6 Facilities
	Inspection Requirements Develop	Yes	Inspection form developed
	Inspections Track	Yes	6 Facilities Inspected
	Standard Operating Procedures (SOPs) Develop	Yes	3 SOPs developed or updated 4 Urban Management Daily Checklists developed
	Training Program Develop	Yes	Developed
	Training Track	Yes	2 Departments trained 82 City staff trained
Roads	Road Inventory Develop	Yes	219.46 miles Local
	Maintenance Track	Yes	98 Work orders completed
	Ditch Debris Removal Track	Yes	518.5 loads of debris removed
	Litter Control Track	Yes	643.5 bags of litter
	Street Sweeping Track	Yes	388 yards of sweeping debris
	Deicing Events Track	Yes	0 events where sand was used
Pesticides, Herbicides and Fertilizers	PHF Storage Facility Inventory Develop	Yes	1 Facility
	Training Develop	Yes	4 City personnel are Certified Applicators
	Standard Operating Procedures (SOPs) Develop	Yes	SOP developed
	Chemical Inventory Track	Yes	Inventory is current



Program Component	SWMP Activity Schedule		
	Required	Complied	Accomplished
Pesticides, Herbicides and Fertilizers (cont.)	Chemical Application Track	Yes	Daily Spray Log
	Chemical Disposal	Yes	No disposal required during permit year

**Comments:**

1. Supporting documentation for this program element is provided in Appendix E.



## SECTION 4

Summary of Proposed  
Program Changes





## 4. Summary of Proposed Program Changes

---

### 4.1. SWMP Review and Update

During the preparation of this annual report, the SWMP Plan was reviewed. Parts of the SWMP Plan that have been updated as a result of this review are summarized below and provided in Appendix F.

- Table 1-1 SWMP Revision Record;
- Table 4-1 Public Education Program Goals;
- Table 5-4 Illicit Discharge Program Goals;
- Table 6-1 Construction Site Runoff Program Goals;
- Table 7-1 Post Construction Storm Water Management Program Goals;
- Table 8-4 Pollution Prevention and Good Housekeeping Program Goals;

### 4.2. Coordination with Surrounding Municipalities

If the City relies upon another city, county, State agency or other entity to assist with the implementation of the SWMP, ADEM recommends that an inter-jurisdictional agreements between the city, county, State agency or other entity be executed. Currently, the City does not rely on any other entity to perform any components of the City's SWMP Plan. Therefore, the City does not need or require inter-jurisdictional agreements with any neighboring city, county and/or State agencies to be compliant with the NPDES Permit.



## SECTION 5

Fiscal Analysis



## 5. Fiscal Analysis

Permit Year 2017 is from 1 October 2016 through 30 September 2017. Many City Departments contribute to the City's SWMP. Since the City's budgeting process does not provided a detailed analysis of the City's effort regarding the stormwater program, the gross annual cumulative budget for departments that contribute to the stormwater program is summarized in Table 5-1.

**Table 5-1 Fiscal Analysis**

Department	2017 Budget	2018 Budget
Fire	\$ 7,193,516	\$ 6,829,686
Sanitation	\$ 3,172,924	\$ 3,584,200
Wastewater	\$ 4,397,999	\$ 31,343,671
Urban Managemnt	\$ 2,227,859	\$ 1,529,729
Parks and Recreation	\$ 2,247,622	\$ 2,442,275
Engineering	\$ 1,528,871	\$ 1,187,074
Planning	\$ 1,081,770	\$ 798,905
Public Works	\$ 762,659	\$ 1,042,347
Facilities Maintenance	\$ 440,777	\$ 857,459
Vehicle Maintenance	\$ 490,920	\$ 424,324
Total	\$ 23,544,917	\$ 50,039,670

The City's storm water program is managed by the Public Works Department. For the 2017 Permit Year, the Public Works Department spent \$30,000 for the City's storm water management program. For the 2018 Permit Year, the City has budgeted \$42,000 specifically for the storm water management program.

### **Comments:**

1. The Wastewater Department is planning an expansion of Pine Creek Wastewater Treatment Plant. These costs are included in the 2018 draft budget.



2. Cost associated with some existing City programs, salaries and/or activities that are independent of the stormwater program, but may provide benefit(s) to the storm water program are not included in the storm water program budget. These items and/or activities are incorporated into the individual departments' budgets.
3. The City's final budget for 2017 and draft budget for 2018 are provided in Appendix G.