

SOURCE ASSESSMENT REPORT

FOR

EIGHT-MILE CREEK WATERSHED

**Mobile Bay National Estuary Program
and the Gulf of Mexico Program**

March 2008

— PREPARED BY —



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SECTION 1: INTRODUCTION

INTRODUCTION

The Mobile Bay National Estuary Program (MBNEP), the Alabama Department of Environmental Management (ADEM), the Gulf of Mexico Program (GMP) and the South Alabama Regional Planning Commission (SARPC) partnered in an effort to address two impaired watersheds, Eight Mile Creek and Gum Tree Branch in Mobile County, Alabama. They are located within the cities of Mobile, Chickasaw, and Prichard, Alabama and they drain to Mobile Bay and ultimately to the Gulf of Mexico. These water bodies were listed as impaired in the Alabama 303 (d) list submitted to EPA. In order to address issues pertaining to these impaired watersheds, this effort/project was divided into three phases: Phase One – Sampling, Analysis and Monitoring; Phase Two – GIS Coordination; and Phase Three – Source Identification

Phase One – Sampling, Analysis and Monitoring, was to establish the current/existing water quality of each water body to ascertain the impairment/non-impairment of each water body. It involved collecting samples once a month for 12 consecutive months at 10 monitoring stations strategically located between Eight Mile Creek and Gum Tree Branch. This effort was conducted by ADEM through an agreement with the Dauphin Island Sea Lab pursuant to an appropriation by the Environmental Protection Agency (EPA) and on behalf of the MBNEP.

Phase Two – GIS Coordination, was to collect, assimilate and compile information about various existing conditions into a Geographical Information System (GIS). This effort was conducted by Mobile Group, Inc (formerly Mobile Engineering, Inc.) and SARPC pursuant to an appropriation by the EPA.

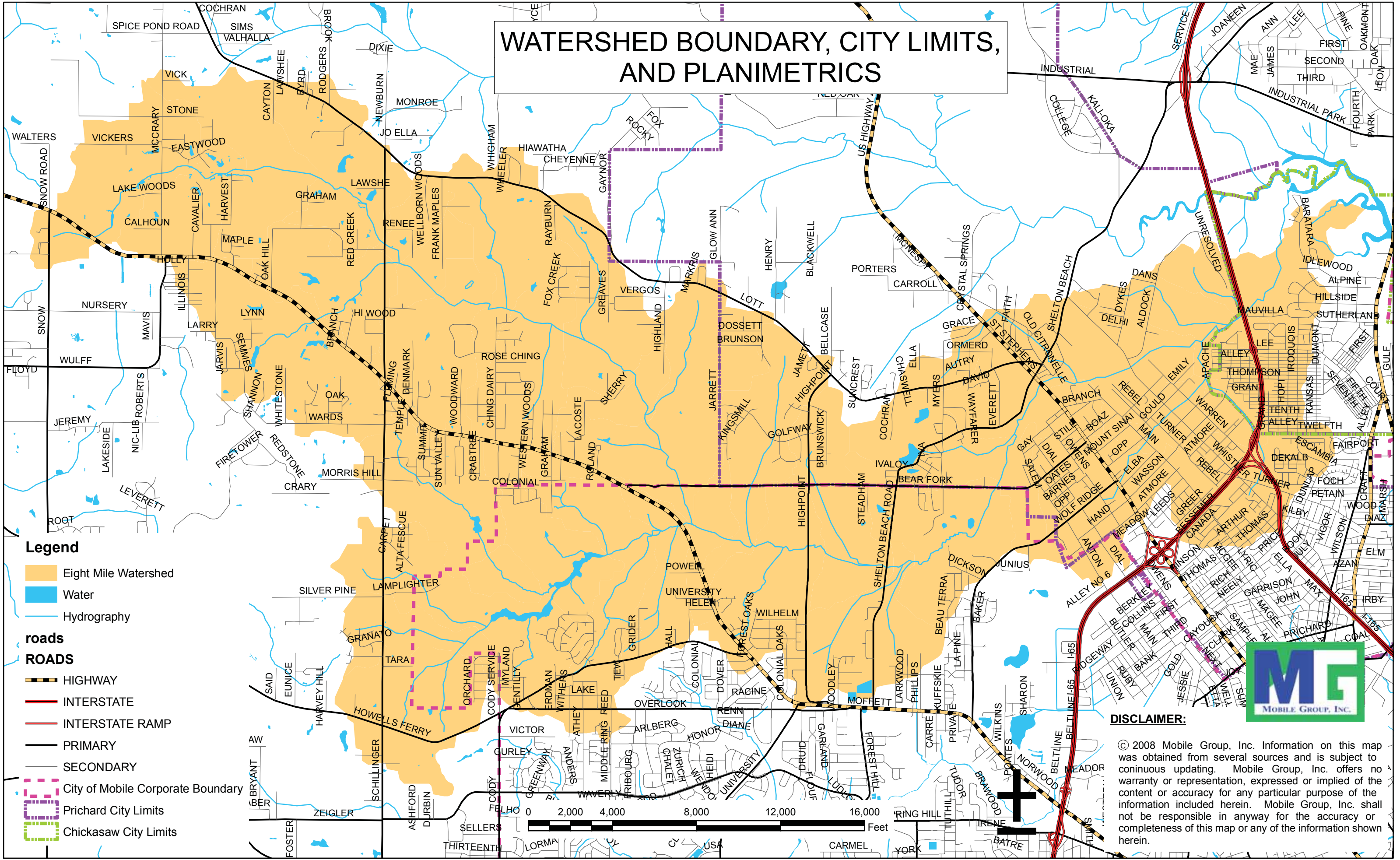
Phase Three – Source Identification, was to collect, assimilate and compile information about various potential sources and infrastructure located and discharging to the impaired water bodies. This effort was conducted by Mobile Group, Inc. (formerly Mobile Engineering, Inc.) and the MBNEP pursuant to an appropriation by the EPA.

PROJECT LOCATION

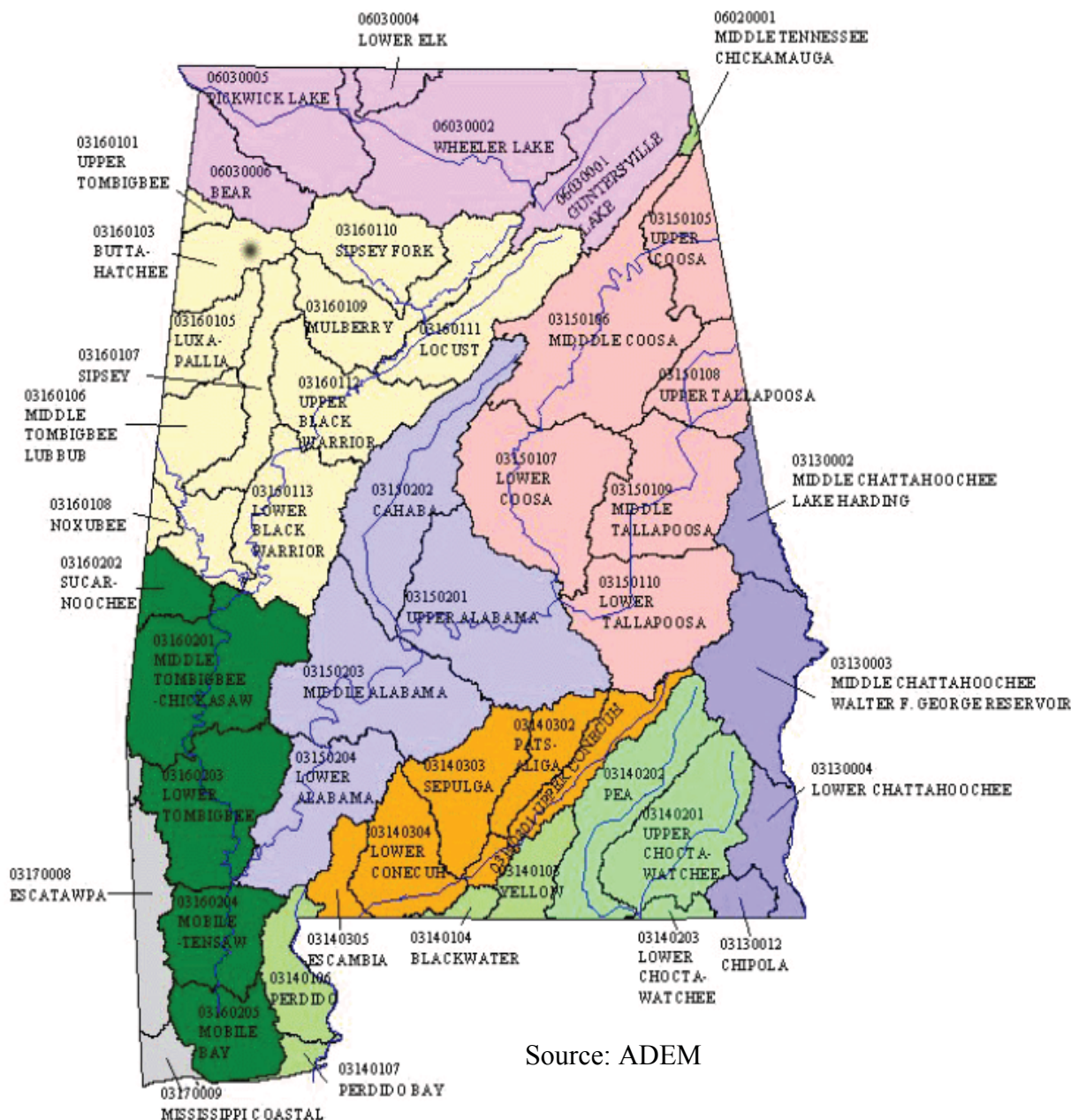
The Eight Mile Creek Watershed is located in the southwestern portion of Alabama within Mobile County, Alabama. Eight Mile Creek joins Chickasaw Creek in a widely distributed swampy area near its confluence with Mobile River, which in turn flows into Mobile Bay on its way to the Gulf of Mexico. The west side of the Eight Mile Creek Watershed is also part of the divider line between the Escatawpa River Basin (which drains into Mississippi) and the Mobile River Basin which drains into Mobile Bay and eventually into the Gulf of Mexico.

Gum Tree Branch is a tributary to Eight Mile Creek and drains a heavily urbanized area. It is located within the city limits of Prichard and a portion of Chickasaw. A significant portion of the entire Eight Mile Creek Watershed (including Gum Tree Subwatershed) is located within the city limits of Mobile, Prichard and Chickasaw. The Eight Mile Creek Watershed and the Gum Tree Branch Sub-watershed along with corresponding city limits are shown on the WATERSHED BOUNDARY, CITY LIMITS AND PLANIMETRICS Map on the next sheet.

WATERSHED BOUNDARY, CITY LIMITS, AND PLANIMETRICS



The United States has been divided into hydrologic units representing different levels of classifications by the U.S. Geological Survey. The hydrological units are classified into four levels in the order of region, sub-region, accounting unit, and cataloging unit. Further subdivisions are being made to classify drainage basins or distinct hydrologic features by the National Resources and Conservation Service. The hydrological unit code is arranged in the order of magnitude from largest to smallest with each level representing 2 digits. The 8-digit Hydrologic Unit Codes for Alabama are shown below. The Eight Mile Creek Watershed is located in the “03160204 Mobile-Tensaw, Alabama” Hydrologic Unit Code, comprising 972 square miles.



Source: ADEM

Hydrologic Unit Codes Map

PROJECT BACKGROUND

The Gulf of Mexico Program (GMP) and the Alabama Department of Environmental Management (ADEM) facilitated a planning workshop and convened managers, stakeholders and interested parties representing public, private and non-profit organizations in and around the Eight Mile Creek Watershed in Mobile County, Alabama.

In conducting the workshop, ADEM and GMP initiated a locally based process for identifying projects to achieve water quality improvement and delisting of two impaired water bodies from the Alabama 303(d) list. Beginning with the planning workshop, a committee meeting was held to detail the scope of work for the following two impaired water bodies as listed in the Alabama 303 (d) list submitted to EPA:

1. Eight Mile Creek

Impaired Area: 3.2 miles from Hwy 45 to Highpoint Blvd

Designated Uses: Public Water Supply and Fish and Wildlife

Impaired Parameter: Partial attainment of pathogens

2. Gum Tree Branch

Impaired Area: 2.2 miles from Eight Mile Creek to its source

Designated Uses: Fish and Wildlife

Impaired Parameter: Non-attainment of pathogens

In order to remove these impaired water bodies from the Alabama 303 (d) list, four objectives were proposed for the workshop:

- Identify specific problems – impact, location and source – causing the water quality impairment
- Suggest specific projects – location, approach and cost – to address these problems
- Rank the projects in terms of their potential to remove the waterbody from the 303(d) list, potential funding and public support
- Identify project partners for highly ranked projects

However, several stakeholders questioned their readiness to identify specific problems particularly on Eight Mile Creek, citing a lack of detailed, current water quality monitoring data and lack of definition of sources of water quality impairment. Based on the participants concerns, the direction of the meeting was changed to focus on current/existing creek water quality monitoring, data gathering and source identification.

Several points were made and issues discussed regarding the impaired water bodies, including: specific impairments and their locations need to be confirmed; potential sources such as septic tanks, industrial activity facilities, illicit discharges; and construction sites, etc... should be identified; sampling should be conducted to identify current water quality; failing septic systems should be identified for connection to sanitary sewers; storm sewer network and its discharges should be identified; sanitary sewer network and its overflows should be identified; impact of

land use and soil types should be considered; data should be compiled in a comprehensive format; and a comprehensive source assessment should be undertaken.

Participants defined the following possible projects to address water quality impairments in Eight Mile Creek and Gum Tree Branch, and ranked projects in terms of high, medium or low priority.

Proposed Projects Ranked by Participants			
PROJECT DESCRIPTION	HIGH	MED	LOW
Confirm both impairments through more intensive water quality monitoring. This project could include DNA analysis to determine the source (i.e., human or animal) of fecal coliform bacteria. Potential funding sources for this project include CIAP and the GMP.	14	1	1
Conduct a detailed, GIS-based source assessment for the entire Eight Mile Creek basin to exactly identify sources (e.g., point sources, septic systems, stormwater, sewer line and SSOs, landuse/soil types, industrial activities, upstream water quality monitoring, impervious surfaces, wildlife locations). This project would require provision of equipment, and training in its use as well as provision of support for staff involvement. A local group should lead this project, with assistance from ADEM.	2	9	2
Inventory who is doing what in the Eight Mile Creek basin with respect to pathogen contamination. Combine monitoring data and make these available to the public (An NGO should be the lead on this task).	2	5	1
Rank areas to sewer / implement a local sewer plan using infrastructure funding from such sources as Community Development Block Grants, Rural Utilities Service, State Revolving Fund, and U.S. Army Corps of Engineers.	3	4	8

The workshop participants voted on developing a comprehensive process and approach to address the water bodies. It was decided that a comprehensive watershed based process would not only attempt to remove the impaired listing but also identify sources and existing conditions to facilitate future management of the water bodies.

Therefore, the entire watershed boundary for each of the impaired water bodies would be considered as limits of the project. Subsequently, the committee members and stakeholders decided on the following scope of work, to be accomplished in three phases:

1. Phase One – Sampling, Analysis and Monitoring

The City of Prichard (COP)/ADEM Team comprising of the City of Prichard and the ADEM shall be responsible for sampling, analysis and monitoring for each water body. This effort is to establish the existing water quality of each water body and to

ascertain the impairment/non-impairment of each water body. The tasks to be performed include the following:

- The city of Prichard shall conduct sampling at 6 to 8 locations in each watershed at critical and prominent locations.
- The City of Prichard shall collect samples once a month for 12 consecutive months at each such location
- ADEM will conduct laboratory analysis and reporting for the samples
- ADEM will monitor the quality and trend of the data collected

2. Phase Two – GIS Coordination

The South Alabama Regional Planning Commission (SARPC) and partners will collect, assimilate and compile information about various existing conditions into an ARCVIEW Geographic Information Systems project. The features to be collected by the GIS coordination effort encompass two aforementioned watersheds and involve the following:

- Acquire digital-ortho aerial photography of the area at 1"=100' for the two watersheds and include at least a half-mile buffer beyond the watershed boundary
- Acquire 2-foot contours for the entire aerial photography area
- Compile the digital-orthos to create a mosaic of the watersheds
- Create 3-dimensional model for delineation and analysis
- Delineate the watershed boundary for each water body
- Delineate the watershed boundary for each tributary in each water body
- Delineate sub-watershed boundaries based on hydrologic functions
- Establish stream gages at critical locations of each water body
- Establish rain gages at critical locations within each watershed
- Delineate polygons for each land use within each watershed to match categories of respective municipalities for areas located within their city limits
- Digitize the above land use polygons into GIS
- Digitize polygons for each soil series within each watershed
- Compile polygons for each soil group within each watershed

3. Phase Three – Source Identification

The MBNEP/MEI Team comprising of the Mobile Bay National Estuary Program (MBNEP) and Mobile Engineering, Inc. (MEI) serving as a sub consultant, shall collect, assimilate and compile information about various potential sources into the GIS. The identification to be conducted encompasses the two afore mentioned watersheds and involves the following:

- Acquire list of septic tanks permitted within the watershed
- GPS the location and collect attribute data for each septic tank

- Compile comprehensive database of businesses, permittees, companies, etc... from EPA, ADEM, and various other sources
- Query and evaluate database to categorize businesses and identify potential sources located within the watershed
- Field investigate and compile list of 'industrial activity' facilities
- GPS and attribute data for each such facility including its outfalls
- Field investigate and compile list of 'construction activity' facilities
- GPS and attribute data for each such facility including its outfalls
- Field investigate and compile list of 'illicit/improper discharges and/or disposals'
- GPS and attribute data for each such discharge/disposal including its outfalls
- Field investigate and compile list of 'potential/non-industrial activity' facilities
- GPS and attribute data for each such potential/non-industrial activity facility including its outfalls
- Field investigate and compile list of storm water outfalls discharging directly to each water body or discharging to/from the MS4
- GPS and attribute data for each such outfall
- Identify, compile and incorporate horizontal storm sewer network connectivity
- Identify, compile and incorporate horizontal sanitary sewer network connectivity
- Field investigate and compile list of structural controls
- GPS and attribute data for each such structural control
- Conduct spatial analyses of the data to assess the watersheds

Based on the proposed scope of work, funding for the three phases was applied for and received. However, changes had to be made to the proposed scope of work envisioned above, to match the reduced funding. In addition, several modifications were made to the scope of work since data and information to be provided by several stakeholders was not provided or not available. Some of the tasks envisioned had to be eliminated and several of the remaining tasks needed extensive field work, data gathering, digitization, and office compilation to be conducted in order to acquire the missing data envisioned in the proposal stages. The scopes of work and tasks accomplished for the three phases of this project are outlined in the next section.

SECTION 2: SAMPLING, ANALYSIS AND MONITORING

WATER QUALITY MONITORING

This phase covers actions initiated by the MBNEP in an agreement between the Alabama Department of Environmental Management (ADEM) and the Dauphin Island Sea Lab pursuant to an appropriation by the Environmental Protection Agency and on behalf of the MBNEP.

Phase One involved verifying the current/existing water quality of the impaired creeks and the effectiveness of ongoing corrective actions to address sanitary sewer overflows in Eight Mile Creek and Gum Tree Branch through water quality monitoring. Initially, the City of Prichard and ADEM were supposed to jointly work on Phase One. However, it was later modified to only ADEM conducting all the sampling, analysis and monitoring to avoid any potential conflicts.

ADEM conducted water quality monitoring within the aforementioned watersheds which involved the following:

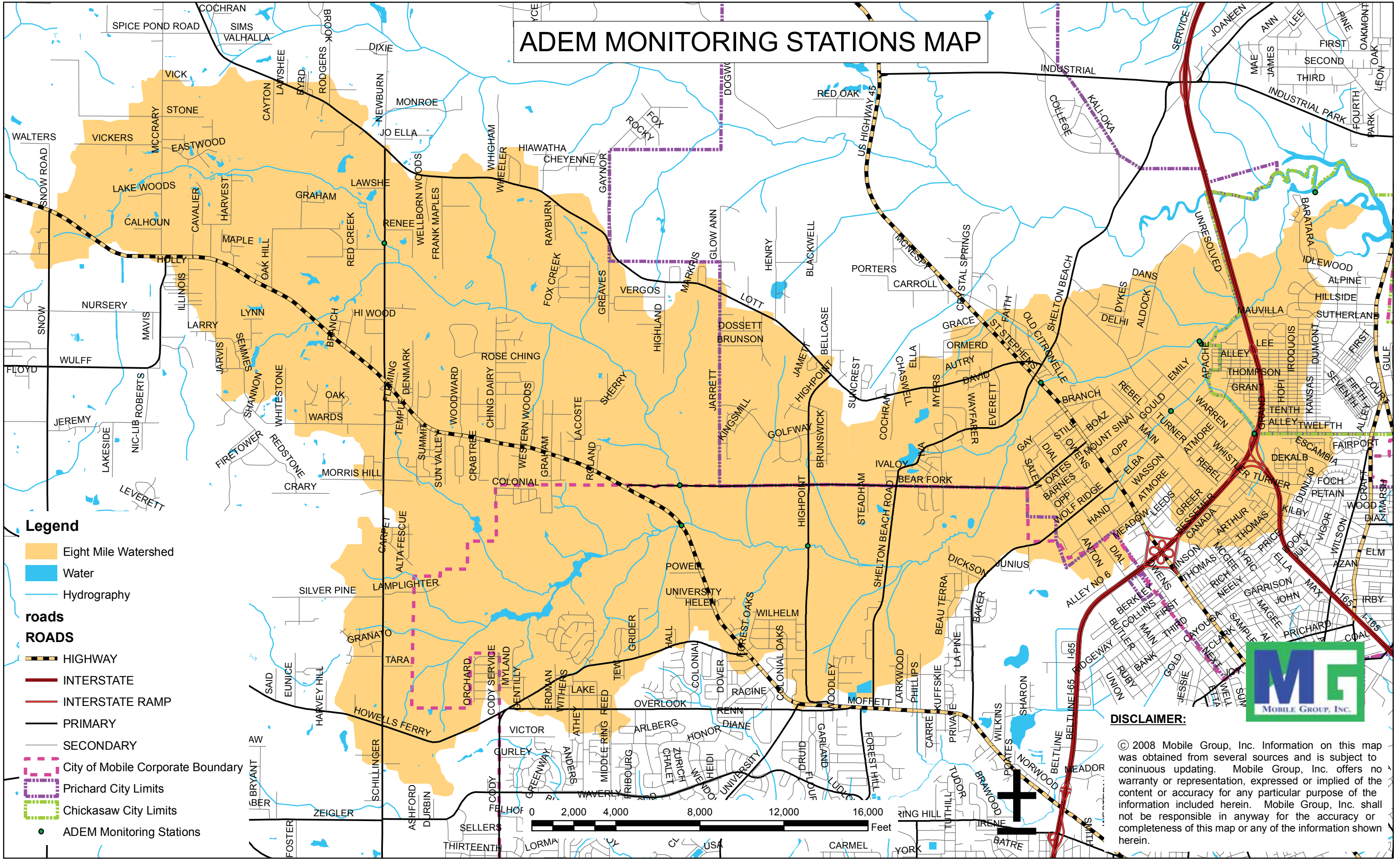
- A total of ten monitoring stations were located on Eight Mile Creek, Gum Tree Branch, an unnamed tributary to Gum Tree Branch, Clear Creek, and Red Creek.
- Sampling was conducted once a month along with intensive bacterial surveys (geometric mean), at each station using fecal coliform as an indicator.
- Stream flow was measured to determine loadings.
- In-situ and laboratory parameters analyzed at each monitoring location included: in situ data, turbidity, pH, dissolved oxygen, TSS, TDS, Alk. Ammonia (NH₃-N), nitrate-nitrite (NO₂+NO₃-N), TKN, orthophosphate, total phosphate, CBOD(5), Hardness, and fecal coliform data.

MONITORING LOCATIONS

Ten monitoring stations were established: one near the mouth of Eight Mile Creek, two in Gum Tree Branch, one in an unnamed tributary to Gum Tree Branch, and the six remaining monitoring locations were in Eight Mile, Clear, and Red Creeks. The 10 monitoring stations are shown in the table below and are located as shown on the ADEM Monitoring Stations Map.

ADEM MONITORING STATIONS	
Station ID	Location
GT-1	Gum Tree Branch at its mouth
GT-2A	Gum Tree Bank at I-65
GT-3	UT to Gum Tree Branch at Culvert Street
EM-1A	Mouth of Eight Mile Creek, north end of Robbers Is.
EM-1	Eight Mile Creek just upstream of Gum Tree Branch
EM-2A	Eight Mile Creek east of U.S. 45 (St Stephens Rd)
EM-3	Eight Mile Creek at Highpoint Blvd
RC-1	Red Creek at Bear Fork Road
RC-2A	Red Creek at county road east of Semmes
CC-1	Clear Creek at U.S. 98 (Moffat Road)

ADEM MONITORING STATIONS MAP



- Legend**
- Eight Mile Watershed
 - Water
 - Hydrography
 - roads**
 - ROADS**
 - HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY
 - City of Mobile Corporate Boundary
 - Prichard City Limits
 - Chickasaw City Limits
 - ADEM Monitoring Stations

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METHODS

According to ADEM, Standard Operating Procedures developed for use by ADEM were utilized in this project, to assure consistency, quality, and reliability of data and results generated by this program (ADEM, 2006*).

In-situ data was collected at each site with a water quality meter. Dissolved Oxygen (mg/l), Temperature (C), pH, Salinity (ppt), Specific Conductance (mS/cm) and Depth (m) were collected. Measurements were recorded at mid depth for all sites except for EM-1A which was not accessible.

Flow data was collected at the non-wadeable site (EM-1A) using a Doppler flow meter and at the other sites using an USGS type rotating meter mounted on a top-setting rod.

Field records were maintained and recorded in hard-copy field books. Subsequently, the data and information collected was transferred directly into an electronic format.

Samples were collected to represent existing conditions. Samples collected in the field were preserved and chain of custody was maintained at all times. Subsequently, samples were transported to the ADEM Mobile Branch Laboratory for analysis.

The ADEM Mobile Branch Laboratory performed analysis of all samples collected and reported the results of the monitoring data to the Mobile Branch Field Staff.

Monitoring data gathered by ADEM from sample locations were compared to those from ADEM's Specific Water Quality Criteria as set forth in ADEM Administrative Code R. 335-6 (September 21, 2005) and Alabama's Water Quality Assessment and Listing Methodology (2005). Section 335-6-10-.09(2) lists water quality criteria for the Public Water Supply use classification and Section 335-6-10-.09(5) covers criteria for Fish and Wildlife use classification.

A final written report summarizing the results of the monitoring effort was prepared and provided to the NEP *. All raw data, field records, and laboratory reports were provided in hard copy to the NEP. Copies are maintained on file at the ADEM Mobile Branch Office.

RESULTS

Monitoring was conducted over a one year period. Although, fecal coliform values can be higher than normal during rain events, some monitoring stations reported high values during dry periods or base flows. This is usually an indicator of inappropriate sewage discharges, regardless of the source(s) (ADEM, 2006*).

The main indicator of impairment for this study was the presence of pathogens that may lead to waterborne diseases (ADEM, 2006*). Fecal coliform bacteria are normally prevalent in the intestines and feces of warm-blooded animals. While fecal coliforms are not themselves agents of disease, they do indicate the potential presence of other disease causing organisms from sewage, wildlife, and/or agricultural contamination. Contamination may also occur from failed sewer systems, failed septic systems, and illicit discharges (Burton, 2001**).

Once pathogens have entered streams, water temperature, nutrients, and adverse pH values may alter the relationship between pathogens and their indicator species. Therefore, other parameters were also collected to monitor their effects on the indicator species. During the course of the monitoring program, there were no significant results that would affect the relationship of pathogens and fecal coliform (ADEM, 2006*).

Alabama's pathogen water quality criteria are identical for the PWS and F&W use classifications. For tidally-influenced water bodies, the indicator species is enterococcus; for upland (or non-tidal) water bodies, it is fecal coliform. The Eight Mile Creek and Gum Tree Branch watersheds are both considered to be non-tidal. Hence, fecal coliform would be the indicator species of interest. There are two criteria for fecal coliform – a single sample in stream maximum and a geomean in stream maximum. The single sample criterion is 2,000 cols/DL and is applicable year-round. The geomean criteria are seasonal and is 200 cols/DL for the summer and 1,000 cols/DL for the other eight months (ADEM, 2006*).

At numerous times during the monitoring program, fecal coliform standards, in both Eight Mile Creek and Gum Tree Branch, were exceeded for their use categories. Based on the sampling as shown in the table below, only one (1) out of ten (10) sites is supporting its use classification, i.e. EM-1 Eight Mile Creek near its confluence with Gum Tree Branch (ADEM, 2006*)

USE SUPPORT SUMMARY FOR PATHOGENS (FECAL COLIFORM) FROM ADEM *				
Station	Single Sample Exceedence Rate (%)	Geomean Summer	Geomean Winter	Use Support Result
EM-1A	9.1	747	146	Non-Supporting
EM-1	4.5	190	97	Supporting
GT-1	18.2	1480	217	Non-Supporting
GT-2A	18.2	2750	265	Non-Supporting
GT-3	13.6	1375	271	Non-Supporting
EM-2A	4.5	395	94	Non-Supporting
EM-3	4.8	274	79	Non-Supporting
CC-1	4.5	357	71	Non-Supporting
RC-1	0	414	35	Non-Supporting
RC-2A	4.8	284	46	Non-Supporting

In addition, ADEM has documented frequent and major sewer system failures and sanitary sewer overflows in both Eight Mile Creek and Gum Tree Branch. Illicit discharges of effluent pumped from septic tanks have also been documented in Eight Mile Creek. Regardless of the potential source, the monitoring effort has evaluated segments of both water bodies that have been included on the Alabama §303(d) list.

* “Eight Mile Creek/Gum Tree Branch Monitoring Program Summary Report”, ADEM 2006

** “Stormwater Effects Handbook: A Toolbox for Watershed Managers, Scientists, and Engineers”, Lewis Publishers, Boca Raton, FL

SECTION 3: GIS COORDINATION

GIS AND MAP COMPILATION

This phase covers actions initiated by the South Alabama Regional Planning Commission (SARPC) pursuant to an appropriation by the EPA. SARPC along with Mobile Group, Inc. (MGI) collected, assimilated and compiled information about various existing conditions onto an ARCVIEW Geographic Information System. The area encompassed the Eight Mile Creek Watershed including Gum Tree Branch.

As proposed, digital-ortho aerial photography of the area encompassing Eight Mile Creek Watershed was acquired including a buffer area around the watershed boundary. However, as shown on the DIGITAL ORTHO AERIAL PHOTOGRAPHY Map on the next page, a small portion of the watershed boundary within the city limits of Prichard could not be acquired. Aerial photography for most of the urban areas in Mobile County was acquired by several municipalities/agencies through a joint agreement, however, the city of Prichard was not a party to that agreement. Therefore, some of the detailed (1"=100') and current digital contours envisioned for the project could not be utilized for the watershed.

Alternatively, digital contours generated from LIDAR by Mobile County, which had a lower resolution than the digital-ortho aerial photography were used for the watershed. A mosaic of the contours was used to create a seamless map for the watershed.


Surface contours and topographic features were utilized to break down the watershed area into one to two square mile drainage areas, which in turn were used to delineate the watershed and sub-watershed boundaries. The watershed boundary was delineated for the entire Eight Mile Creek area as well as the sub-watersheds within the watershed. The smaller drainage areas, the subwatershed boundaries and the watershed boundaries are shown on the WATERSHED / SUBWATERSHED BOUNDARIES Map


WATERSHED/SUBWATERSHED BREAKDOWNS AND AREAS		
Subwaterhsed	Sub Breakdowns	Area in square miles
CLEAR CREEK	9	7.1
EIGHT MILE CREEK	11	10.9
GUM TREE BRANCH	5	3.5
RED CREEK	14	14.1
TOTAL WATERSHED	39	35.6


A 3-dimensional surface model was created using digital contours and digital elevations to assist with delineation and analysis. The surface slopes and creeks draining into the watershed are shown on the 3-D SURFACE HILLSHADE Map. Contour elevations ranged from 64 feet to 255 feet and were used to create the surface hillshades.


DIGITAL ORTHO AERIAL PHOTOGRAPHY MAP

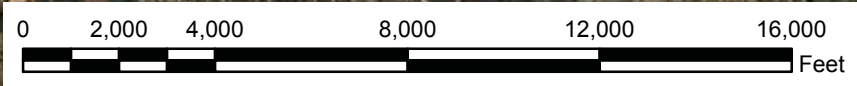
Legend

 City of Mobile Corporate Boundary

 Eightmile_outline

 Prichard City Limits

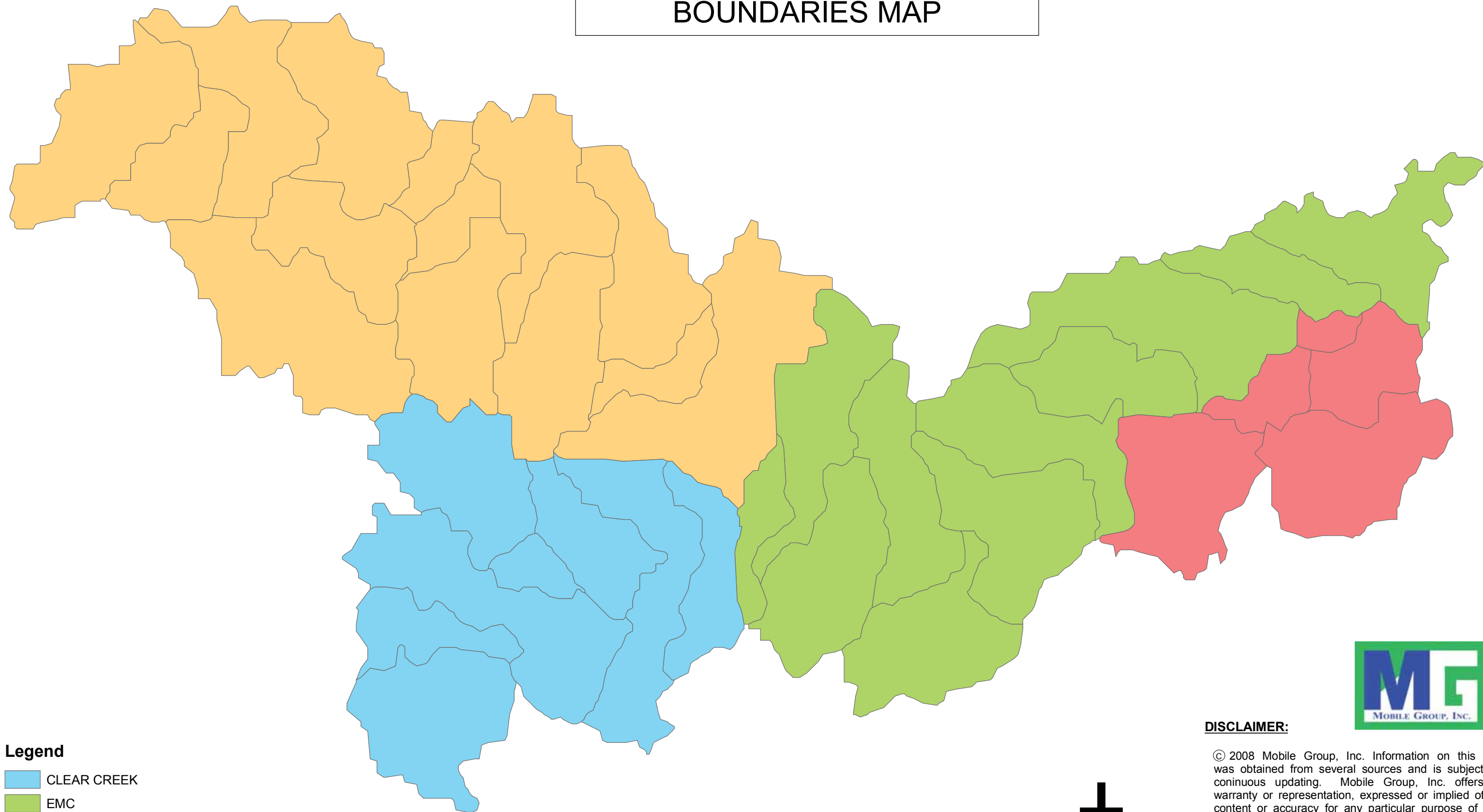
 Chickasaw City Limits







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WATERSHED/SUBWATERSHED BOUNDARIES MAP



Legend

-  CLEAR CREEK
-  EMC
-  GUM TREE BRANCH
-  RED CREEK

0 2,000 4,000 8,000 12,000 16,000 Feet



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3-D SURFACE HILLSHADE
EIGHT MILE CREEK WATERSHED



Legend

Eightmile Hillshade

Value

High : 254.973

Low : 64.1859



DISCLAIMER:

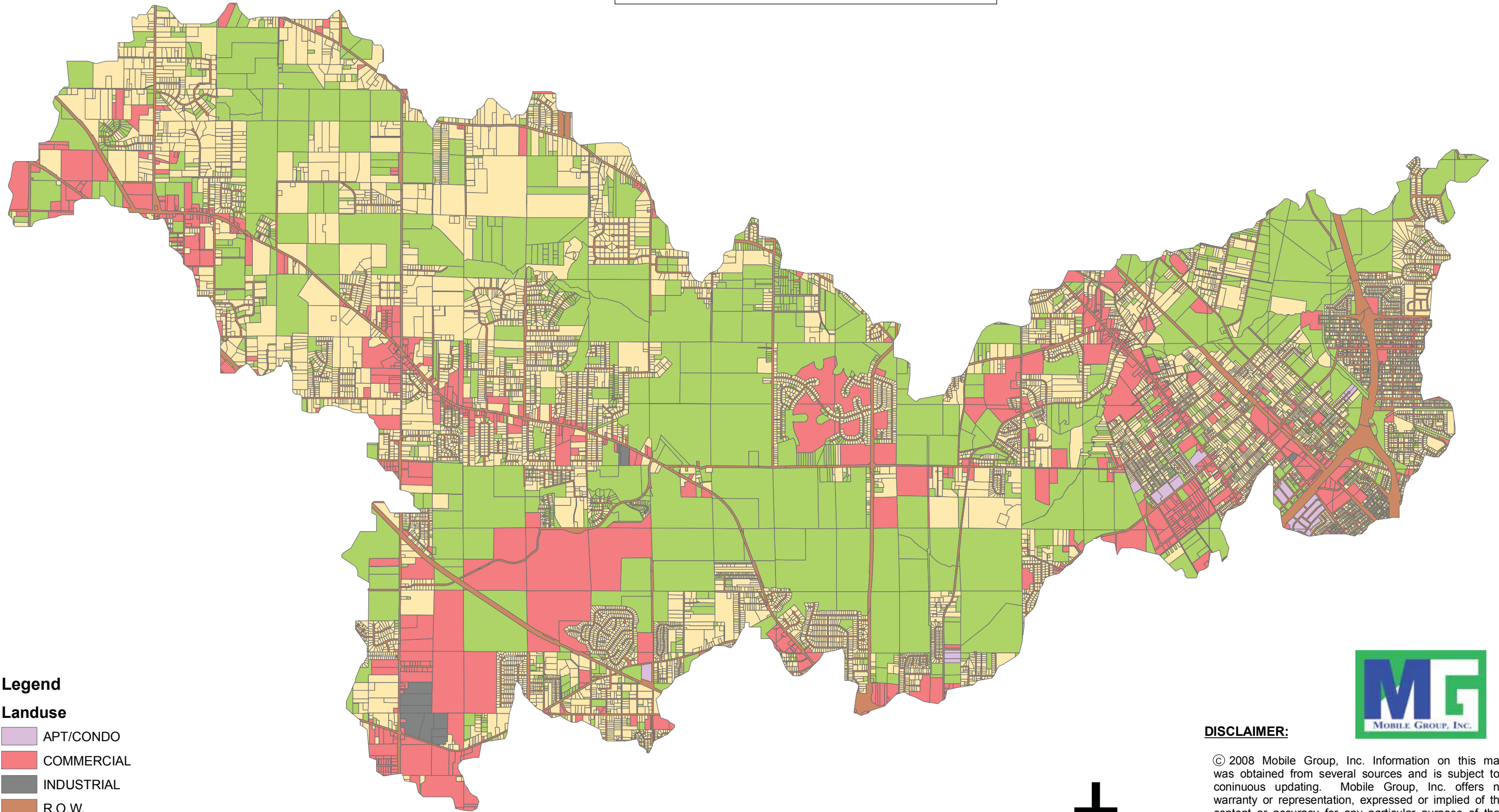
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Each parcel within the watershed was compared to aerial photography and evaluated to determine its land use. Each parcel within the watershed was assigned one of the Six (6) land uses: apartment/condo; commercial; industrial; right-of-way; residential; and undeveloped. Separate polygons were created and combined for road rights-of-way to assign their own land use. More than Fourteen Thousand (>14,000) parcels were evaluated and assigned land use within the watershed. The various land uses are shown on the EXISTING LANDUSE Map

Soil series polygons for the county were intersected with watershed boundaries to identify the various soil series based on the Mobile County Soils Book. Thirty Four (34) different soil series and Two Hundred and Fifty Two (252) polygons were incorporated within the watershed. The different soil series and polygons are shown on the SOIL SERIES Map.

Various soil series within the watershed were combined to form their appropriate soil hydrologic groups. Each soil series within the watershed was assigned one of the Six (6) hydrologic soil groups: A; A/B; B; C; D; and D/C; as well as pits and water polygons. These polygons were incorporated into the GIS as shown on the HYDROLOGIC SOIL GROUPS Map.

EXISTING LAND USE MAP

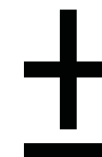


Legend

Landuse

- APT/CONDO
- COMMERCIAL
- INDUSTRIAL
- R.O.W.
- RESIDENTIAL
- UNDEVELOPED

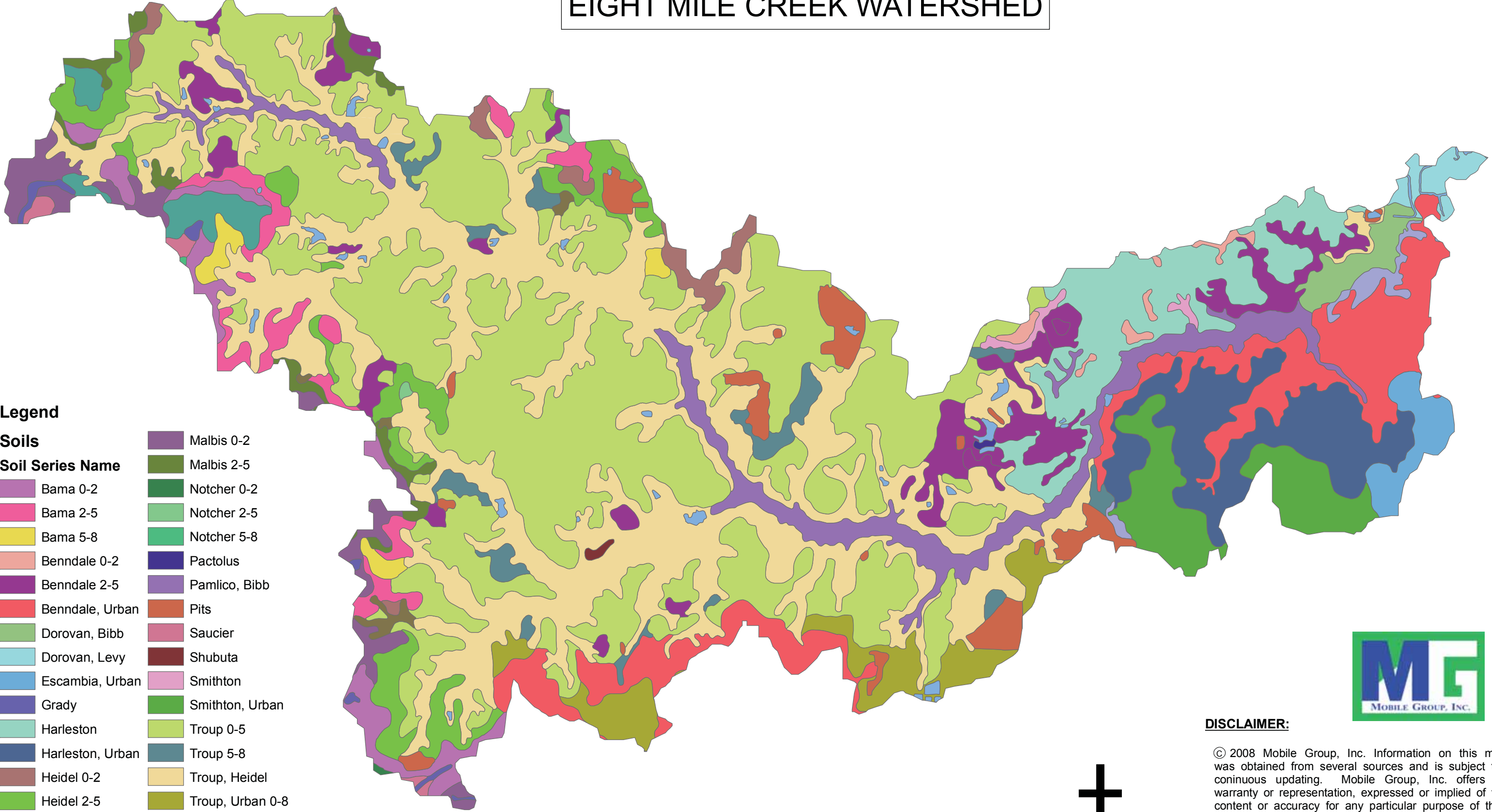
0 2,000 4,000 8,000 12,000 16,000 Feet



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SOIL SERIES
EIGHT MILE CREEK WATERSHED



Legend

Soils

Soil Series Name

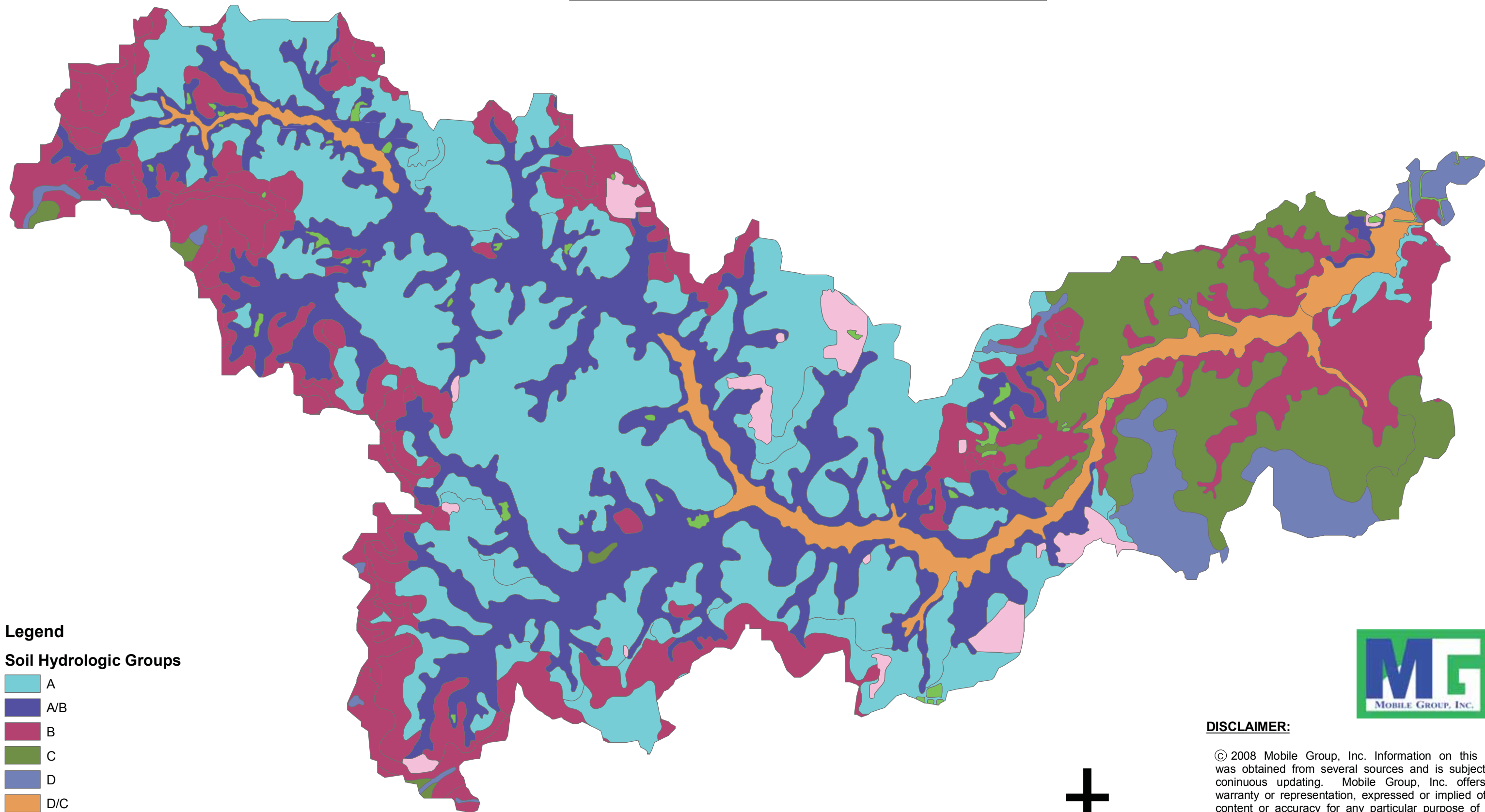
- | | |
|------------------|-------------------|
| Bama 0-2 | Malbis 0-2 |
| Bama 2-5 | Malbis 2-5 |
| Bama 5-8 | Notcher 0-2 |
| Benndale 0-2 | Notcher 2-5 |
| Benndale 2-5 | Notcher 5-8 |
| Benndale, Urban | Pactolus |
| Dorovan, Bibb | Pamlico, Bibb |
| Dorovan, Levy | Pits |
| Escambia, Urban | Saucier |
| Grady | Shubuta |
| Harleston | Smithton |
| Harleston, Urban | Smithton, Urban |
| Heidel 0-2 | Troup 0-5 |
| Heidel 2-5 | Troup 5-8 |
| Heidel 5-8 | Troup, Heidel |
| Lucedale | Troup, Urban 0-8 |
| | Troup, Urban 8-12 |
| | Water |



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HYDROLOGIC SOIL GROUP MAP

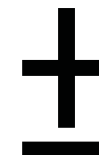


Legend

Soil Hydrologic Groups

- A
- AB
- B
- C
- D
- D/C
- Pits
- W

0 2,000 4,000 8,000 12,000 16,000 Feet



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SECTION 4: SOURCE IDENTIFICATION

IDENTIFICATION, FIELD INVESTIGATION, AND DATA COMPILATION

This phase covers actions initiated by the MBNEP in an agreement between the Alabama Department of Environmental Management (ADEM) and the Dauphin Island Sea Lab pursuant to an appropriation by the Environmental Protection Agency and on behalf of the MBNEP.

A Comprehensive Conservation and Management Plan has been developed by MBNEP to address the priority environmental issues in the Mobile Bay. This project will support CCMP Action Plans. These plans are consistent with the goals and objectives of the Gulf of Mexico Program under the authority of Section 104(b) of the Clean Water Act.

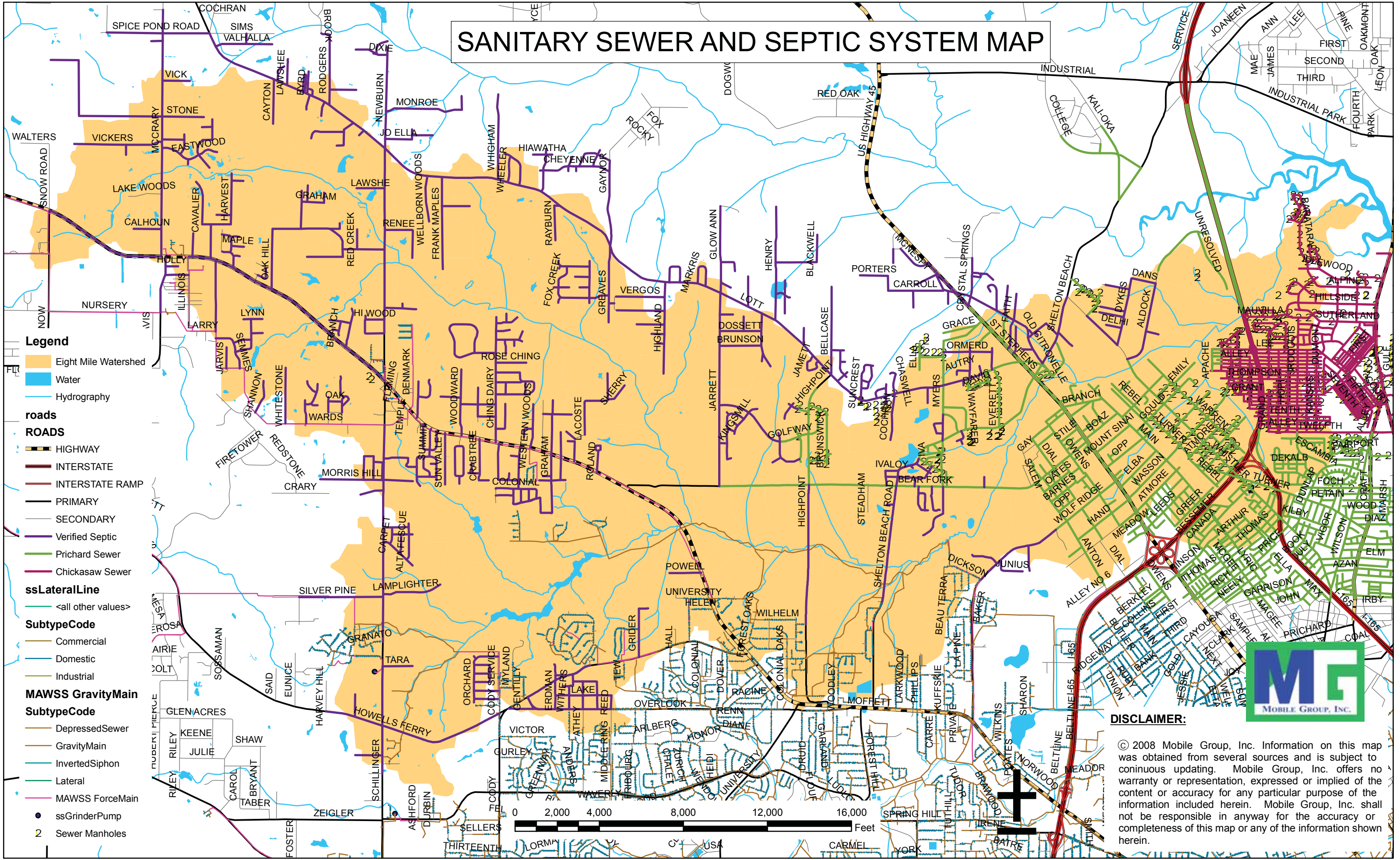
Phase Three involved identifying various potential sources discharging into Eight Mile Creek and Gum Tree Branch and their potential to impact/non-impact the impaired status of these water bodies. Existing data for the aforementioned features were to be acquired from various sources and pertinent data compiled into a relational database and GIS.

The location and attribute data of existing features would be identified using a GPS. The GPS coordinates and attribute data would also be incorporated into the database. The coordinates and attribute data when interfaced with a GIS would facilitate spatial analyses of the watersheds. The horizontal accuracy (location) of the field data collected would be similar to the accuracy achievable by a differential GPS which is typically sub-meter. No vertical accuracy (elevation) of the data was required for this project at this time.

As proposed, varying degrees of information were to be identified, acquired and spatially analyzed to determine potential sources and their discharges to the watershed/subwatershed. However, several modifications had to be made to the scope of work due to the lack of data/information provided by various stakeholders. Extensive on-site and field inspections, identifications and data gathering (not envisioned in the scope of work) had to be made to acquire data that was supposed to be provided by the stake holders. In addition, extensive data compilation and/or digitization had to be done to incorporate field and other data into the GIS that was previously not envisioned for this project.

Extensive efforts were made to acquire a list of septic tanks permitted within the watersheds (to be obtained by MBNEP through the Mobile County Health Dept.). However, the septic tank information was not organized by streets, areas or any other useable format, and could not be utilized to identify individual septic tanks permitted within the watershed. Due to the above task modification, GPS locations or attributes of individual septic tanks within the watershed could not be compiled. Therefore, as directed by the MBNEP all streets within the entire watershed were walked to identify streets that had sanitary sewer. This in turn assisted in identifying streets or neighborhoods that did not have sanitary sewer service and therefore assumed to have septic tank systems. In addition, during site visits, streets with verified septic systems were identified where feasible. Streets that could not be verified or did not have sanitary sewers were assumed to be non-verified septic system areas. Sanitary sewer service or known septic system for each street was digitized and/or compiled and incorporated into the GIS. Sanitary sewer and verified/unverified septic systems areas are shown on the SANITARY SEWER AND SEPTIC SYSTEM Map.

SANITARY SEWER AND SEPTIC SYSTEM MAP



- Legend**
- Eight Mile Watershed
 - Water
 - Hydrography
- roads**
- ROADS**
- HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY
 - Verified Septic
 - Prichard Sewer
 - Chickasaw Sewer
- ssLateralLine**
- <all other values>
- SubtypeCode**
- Commercial
 - Domestic
 - Industrial
- MAWSS GravityMain**
- SubtypeCode**
- DepressedSewer
 - GravityMain
 - InvertedSiphon
 - Lateral
 - MAWSS ForceMain
- ssGrinderPump
 - 2 Sewer Manholes



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A list of businesses, permittees, etc... within the watershed from EPA, ADEM, City of Prichard , City of Mobile and other sources were supposed to be provided for compilation. However, we did not receive any information from any source except the City of Mobile. Initially, the database of compiled businesses provided by the City of Mobile was analyzed against a watershed boundary map to determine which businesses existed within the watershed. The database was further filtered to provide only businesses whose services or products may have the potential to pollute the watershed. In an effort to expand upon and update the database, zip codes for the watershed were identified and matched to businesses within the watershed by utilizing GIS, Google Maps and online directories.

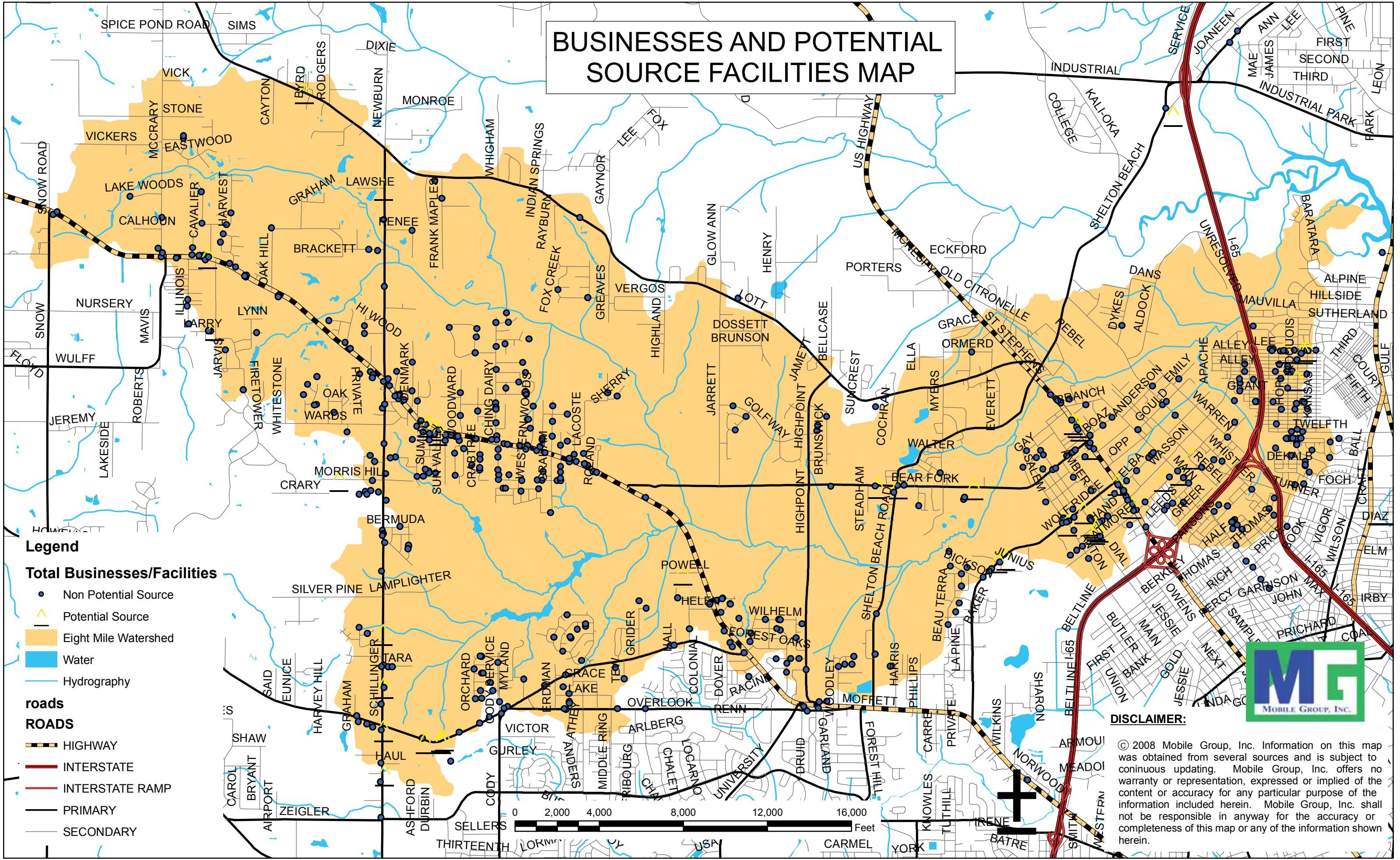
A separate database of businesses/facilities was created using online, phone and other directories and the above discussed database. The database was queried and evaluated to categorize businesses for site visits. A list of businesses/facilities were compiled and investigated. Field technicians drove every street within the boundary of the watershed and visually inspected all of the businesses from the newly created database. Newly identified businesses were added to the database as technicians determined they may require further monitoring. Five Hundred and Ninety Five (595) businesses were field visited, located in the field using GPS, and assessed based on their business/facility practices. Forty Five (45) out of the 595 businesses were identified as potential sources. The businesses/facilities and the potential sources are shown on the BUSINESSES AND POTENTIAL SOURCE FACILITIES Map.

An attempt was made to compile a list of ‘construction activity’ facilities but did not receive any information (to be provided by the City of Prichard). As directed by MBNEP, this task was excluded to proceed with other tasks. As such, no GPS locations or attributes could be located. Only Three (3) sites were located within the City of Mobile limits, however, since they had started and had been completed before this report was written, they were not included.

An attempt was made to acquire and field investigate known/reported ‘illicit/improper discharges and/or disposals’ (to be provided by the Prichard Water and Sewer Board, the City of Prichard, and ADEM), however, only sanitary sewer overflow information was received from ADEM. Unfortunately, this information did not have coordinates or latitude/longitude information for each of the illicit discharges. Only a street name was provided with no address or street number and some of them had no location information making it very difficult to locate these discharges on the GIS. Therefore, points were identified on the GIS to approximately locate the illicit discharges on the middle of the street or at intersections. Three Hundred and Twenty Three (323) illicit discharges and/or improper disposals were mapped, however, only ninety (90) out of the 323 were found to be within the watershed and are shown on the ILLICIT DISCHARGES AND/OR IMPROPER DISPOSALS Map

As proposed, stormwater outfalls discharging directly to water bodies or discharging to the watersheds, within the watershed boundary were supposed to be provided by the cities of Prichard and Mobile. Only outfalls from the city of Mobile were received. Therefore, creeks in other parts of the watershed, were field investigated as much as possible and where feasible and a list of stormwater outfalls was compiled. Each outfall was field located, attributes were collected where feasible and locations were identified with GPS. Two Hundred and Twenty Five (225) outfalls within the watershed are as shown on the STORMWATER OUTFALLS Map.

BUSINESSES AND POTENTIAL SOURCE FACILITIES MAP



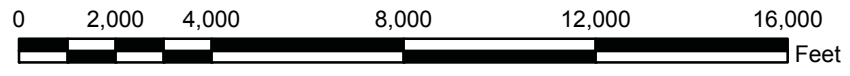
Legend

Total Businesses/Facilities

- Non Potential Source
- ▲ Potential Source
- Orange Shaded Area Eight Mile Watershed
- Blue Water
- Blue Line Hydrography

roads

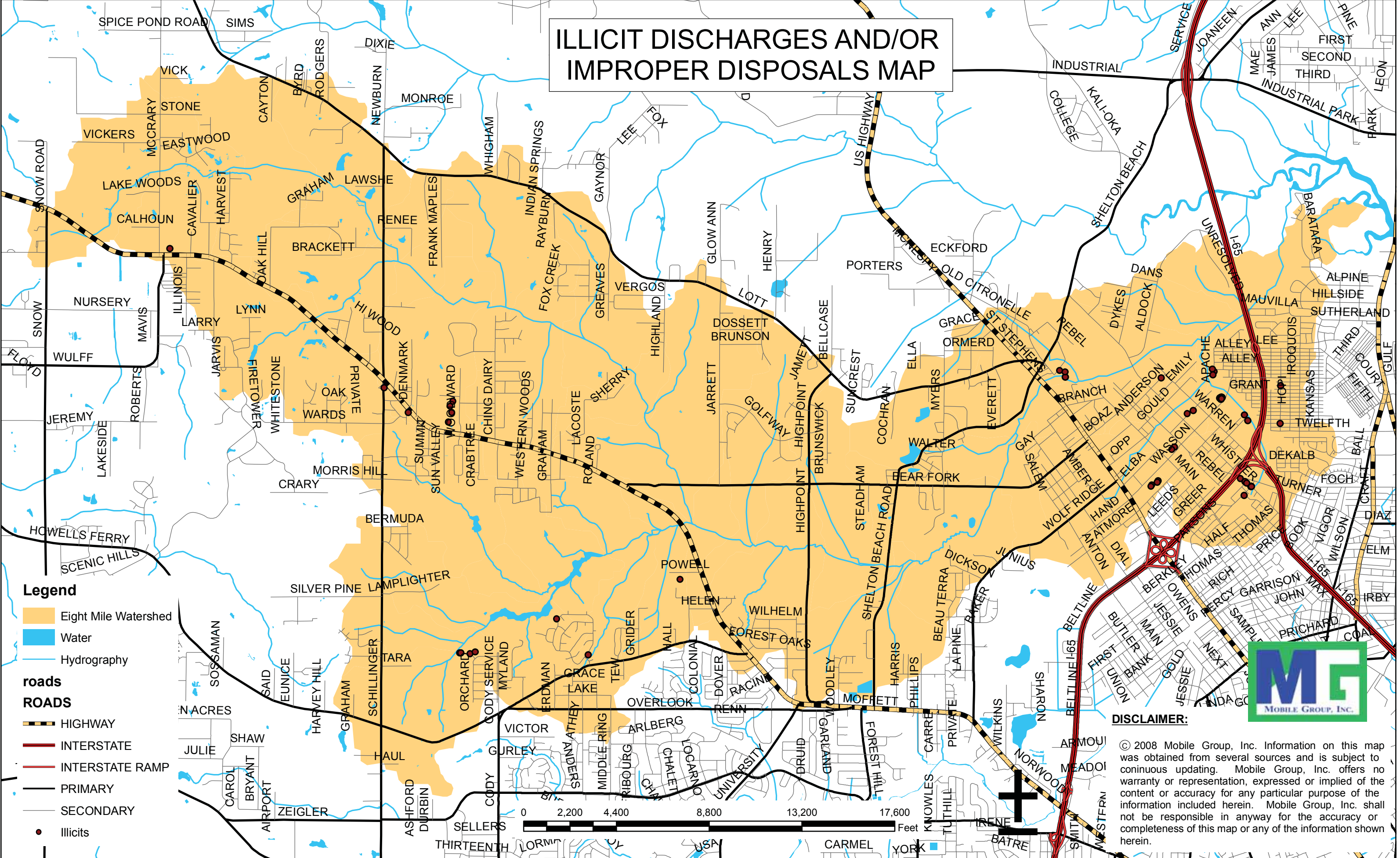
- Thick Black Line HIGHWAY
- Red Line INTERSTATE
- Red Line with Arrow INTERSTATE RAMP
- Thin Black Line PRIMARY
- Thin Grey Line SECONDARY



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ILLICIT DISCHARGES AND/OR IMPROPER DISPOSALS MAP



- Legend**
- Eight Mile Watershed
 - Water
 - Hydrography
- roads**
- ROADS**
- HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY
 - Illicits

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STORMWATER OUTFALLS MAP

Legend

- Eight Mile Watershed
- Water
- Hydrography

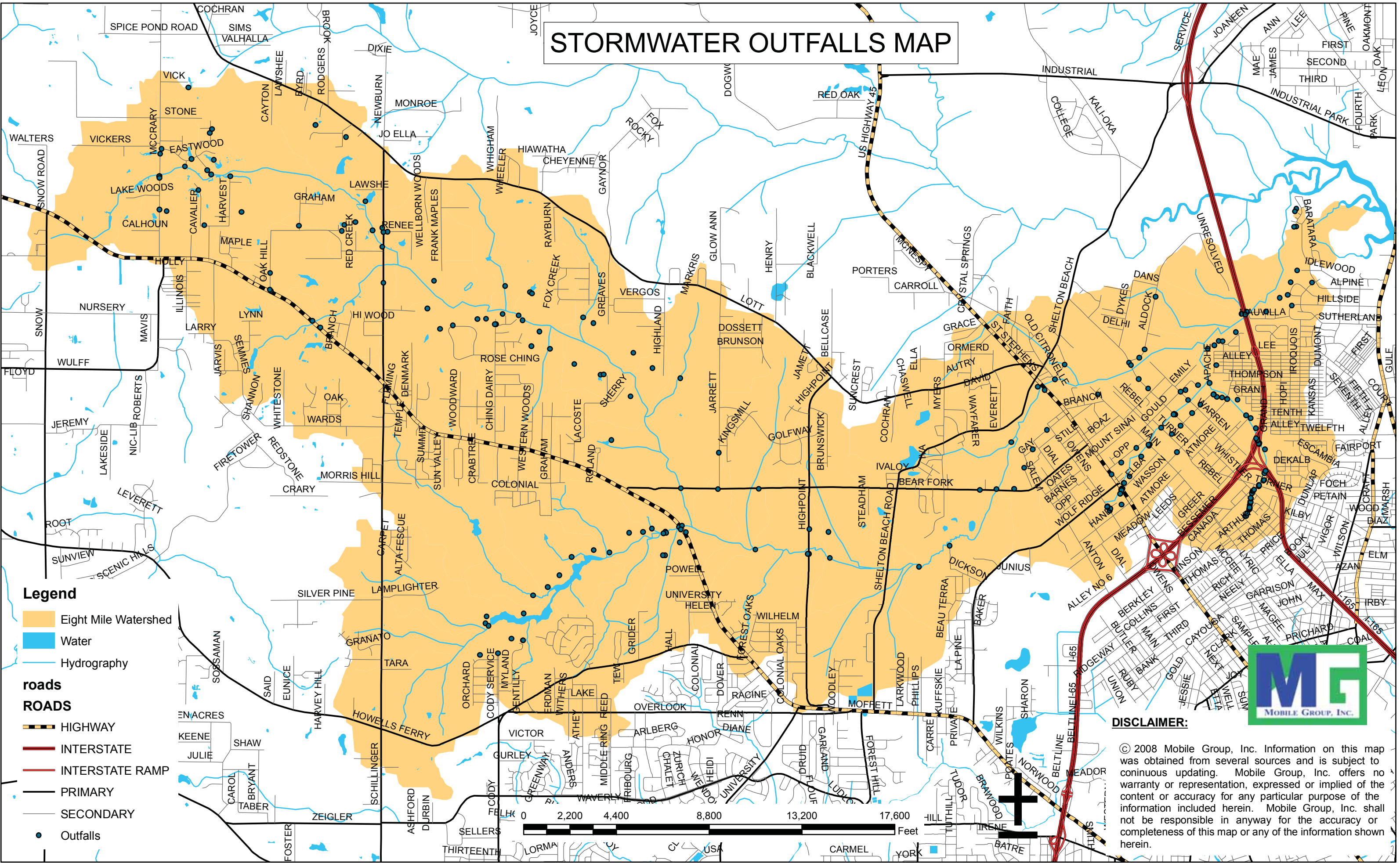
roads

ROADS

- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY
- Outfalls

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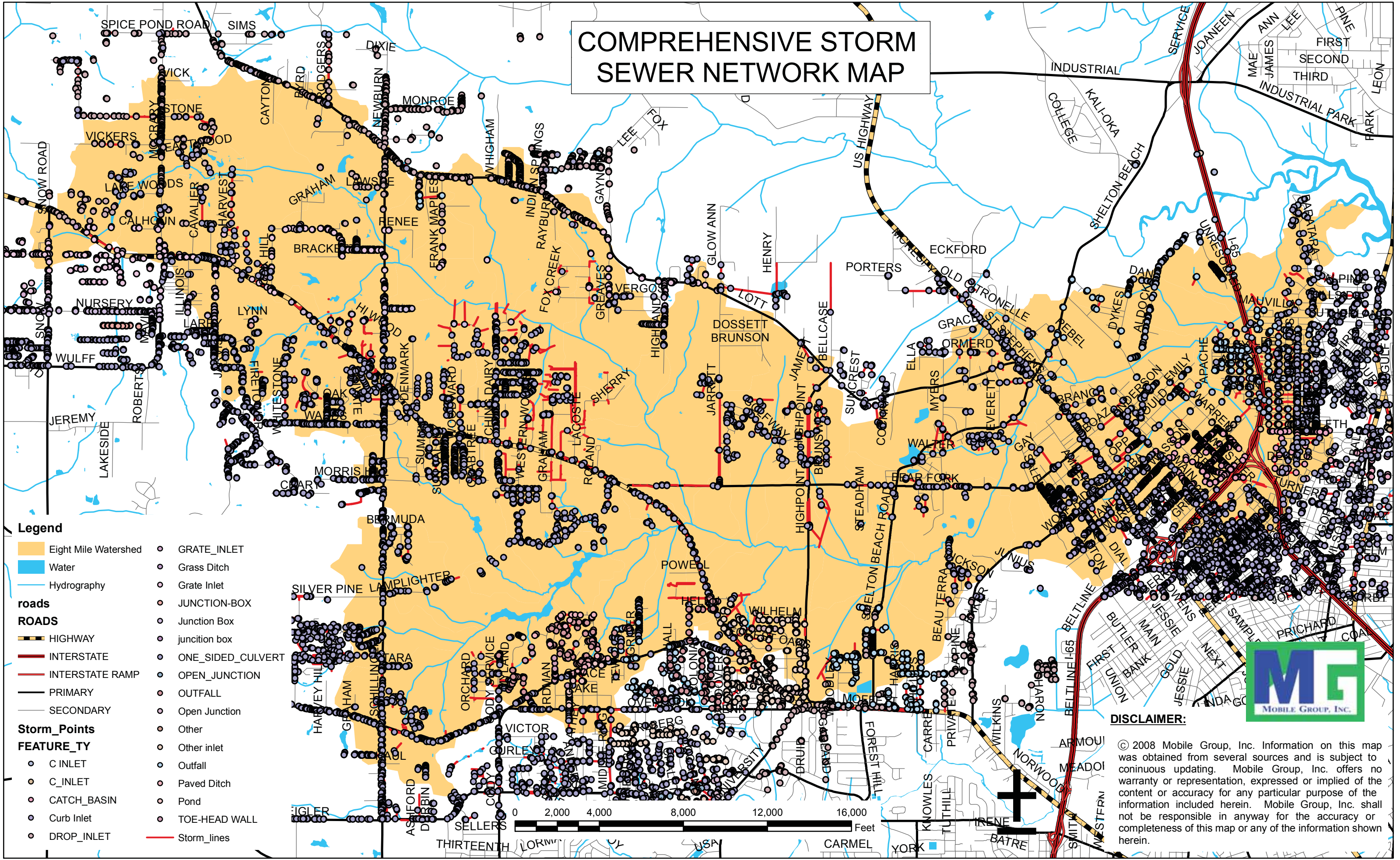
An attempt was made to incorporate the sanitary sewer system information (to be provided by the Prichard Water and Sewer Board) but no information was received after repeated efforts. As directed by MBNEP, modifications were made to this task and the following actions were taken. Each street within the watershed was walked and any sanitary sewer manholes and other sanitary facilities (if identifiable) were field located by GPS where feasible. Information gathered in the field was compiled and incorporated into the GIS. Streets that had sanitary sewers were digitized and incorporated into the GIS (see discussion about septic tank system above). The sanitary sewer system was organized by sub-watersheds and city limits for spatial analysis as previously shown on the SANITARY SEWER AND SEPTIC SYSTEM Map.

An attempt was made to incorporate the storm sewer system network information (to be provided by the City of Prichard) but did not receive any information. As directed by MBNEP, modifications were made to this task and the following actions were taken. Each street within the watershed was walked and any stormwater inlets, manholes, junctions and other stormwater features were identified in the field and located by GPS where feasible. The storm sewer network and its connectivity was identified as much as possible and where feasible. Information gathered in the field was compiled and incorporated into the GIS. Also, storm network features and horizontal connectivity of features were digitized and incorporated into the GIS. The storm network system was organized by sub-watersheds for spatial analysis as shown on the COMPREHENSIVE STORM NETWORK SYSTEM Map as well as the individual STORM SEWER NETWORK Maps.

Data and information collected and compiled about the various items discussed above were based on what was feasible at that time. Some items could not be verified due to inaccessibility, un-identifiable locations, unknown conditions or other situations and was the best available at that time. Therefore, the data and information reported here should not be considered complete, but rather as a starting point to build upon.

Utilizing various field data, acquired data and compiled information, a comprehensive listing of sources and features were spatially analyzed within the watershed as shown on the COMPREHENSIVE SOURCE ASSESSMENT Map. This should assist in identifying future actions to address potential sources and pollutants.

COMPREHENSIVE STORM SEWER NETWORK MAP



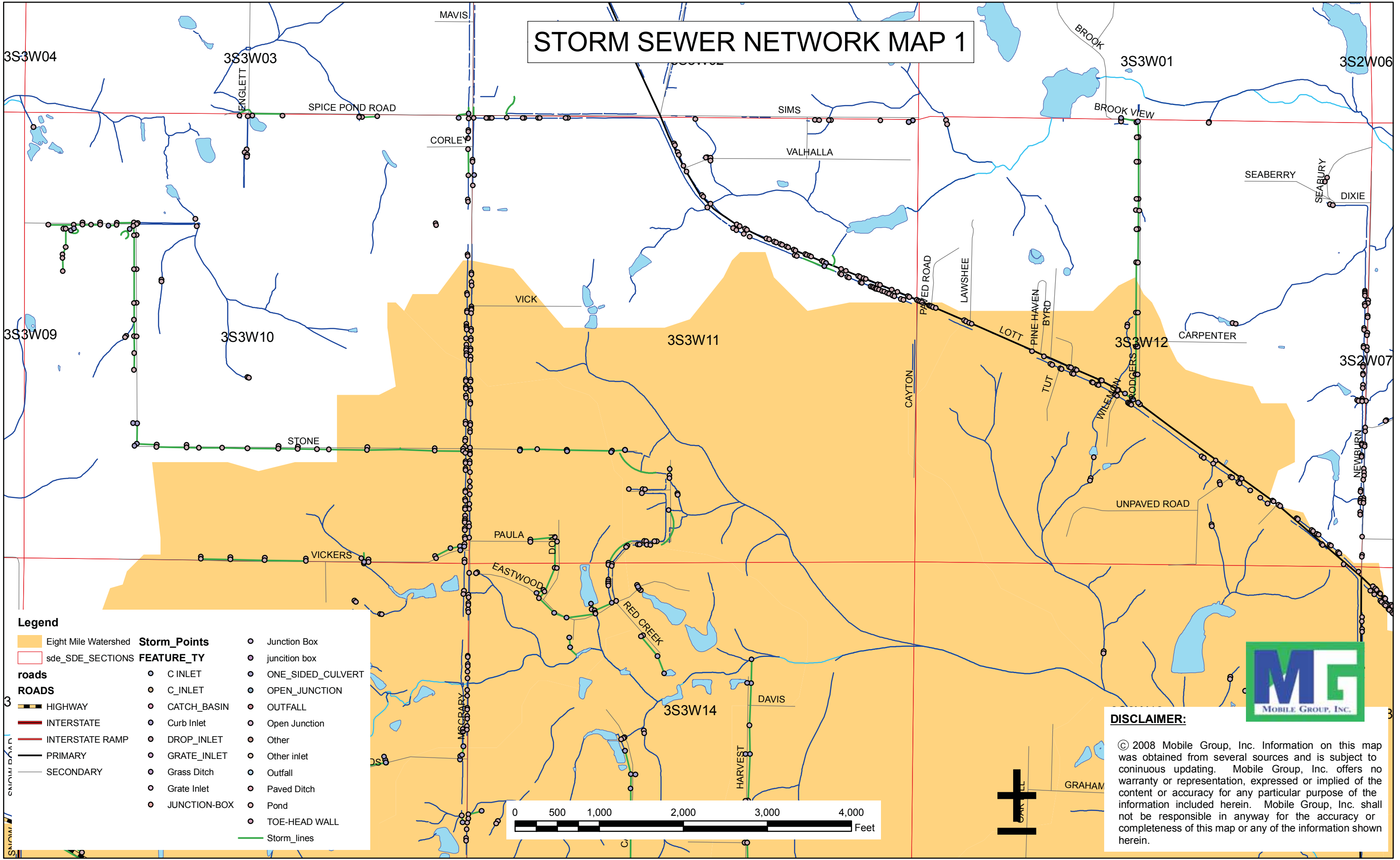
- Legend**
- Eight Mile Watershed
 - Water
 - Hydrography
 - roads**
 - ROADS**
 - HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY
 - Storm_Points**
 - FEATURE_TY**
 - C INLET
 - C_INLET
 - CATCH_BASIN
 - Curb Inlet
 - DROP_INLET
 - GRATE_INLET
 - Grass Ditch
 - Grate Inlet
 - JUNCTION-BOX
 - Junction Box
 - junction box
 - ONE_SIDED_CULVERT
 - OPEN_JUNCTION
 - OUTFALL
 - Open Junction
 - Other
 - Other inlet
 - Outfall
 - Paved Ditch
 - Pond
 - TOE-HEAD WALL
 - Storm_lines



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STORM SEWER NETWORK MAP 1



Eight Mile Watershed

sde_SDE_SECTIONS

roads

ROADS

HIGHWAY

INTERSTATE

INTERSTATE RAMP

PRIMARY

SECONDARY

Storm_Points

FEATURE_TY

C INLET

C_INLET

CATCH_BASIN

Curb Inlet

DROP_INLET

GRATE_INLET

Grass Ditch

Grate Inlet

JUNCTION-BOX

Junction Box

junction box

ONE_SIDED_CULVERT

OPEN_JUNCTION

OUTFALL

Open Junction

Other

Other inlet

Outfall

Paved Ditch

Pond

TOE-HEAD WALL

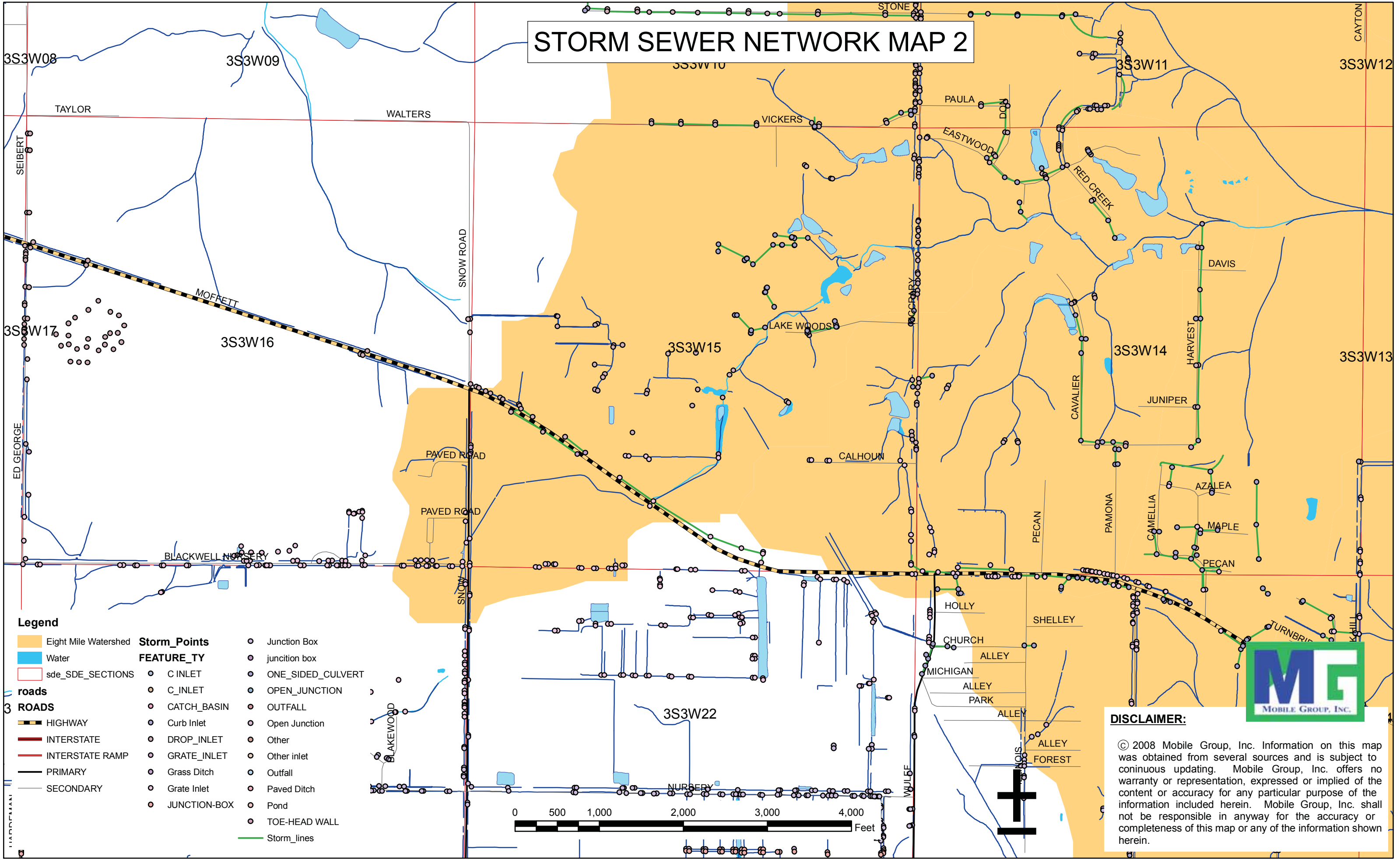
Storm_lines



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STORM SEWER NETWORK MAP 2



Legend

- Eight Mile Watershed
- Water
- sde_SDE_SECTIONS
- roads**
- ROADS**
- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

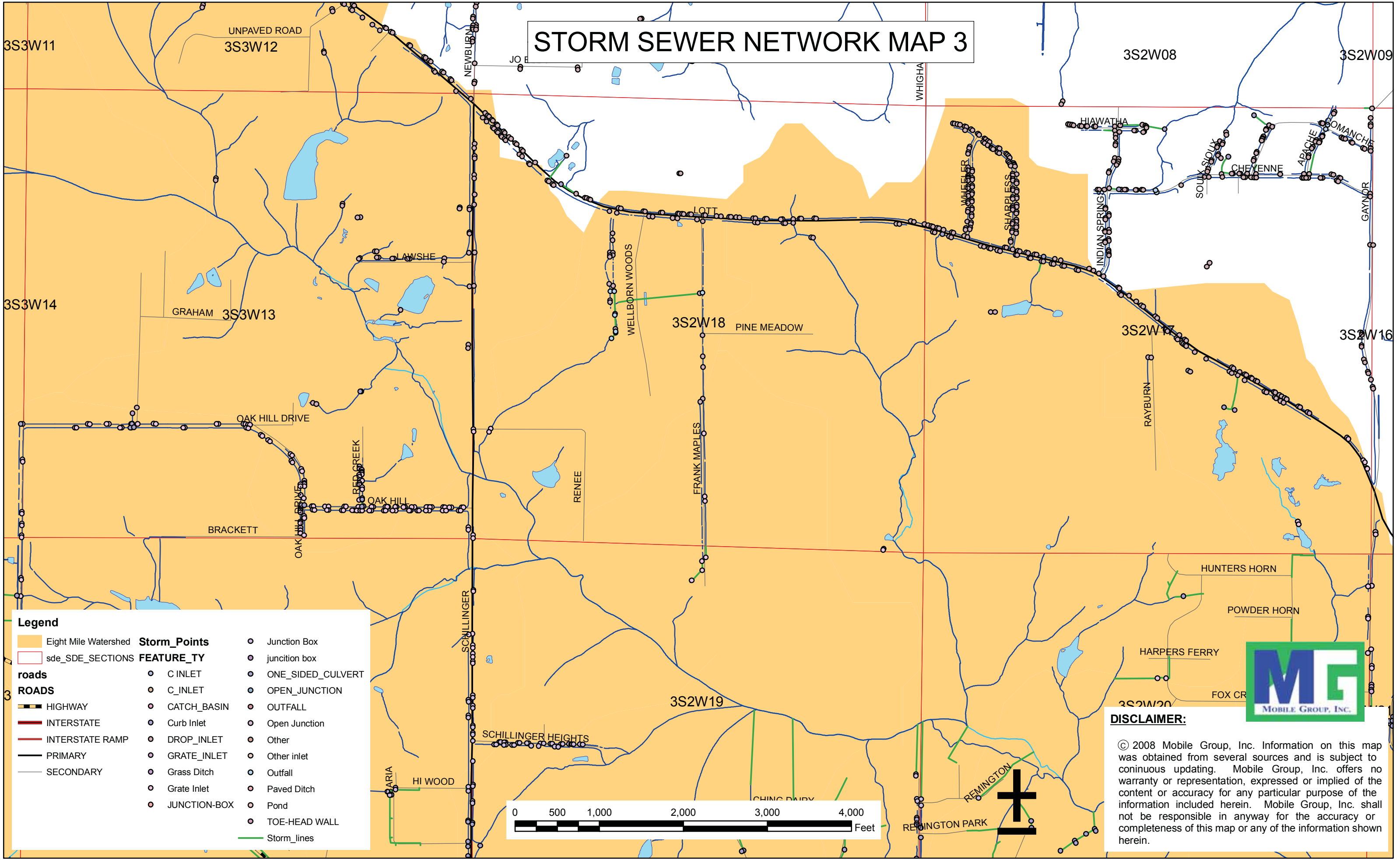
Storm_Points

FEATURE_TY	
C INLET	Junction Box
C_INLET	junction box
CATCH_BASIN	ONE_SIDED_CULVERT
Curb Inlet	OPEN_JUNCTION
DROP_INLET	OUTFALL
GRATE_INLET	Open Junction
Grass Ditch	Other
Grate Inlet	Other inlet
JUNCTION-BOX	Outfall
	Paved Ditch
	Pond
	TOE-HEAD WALL
	Storm_lines

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STORM SEWER NETWORK MAP 3



Legend

Eight Mile Watershed

sde_SDE_SECTIONS

roads

ROADS

— HIGHWAY

— INTERSTATE

— INTERSTATE RAMP

— PRIMARY

— SECONDARY

Storm_Points

FEATURE_TY

○ C INLET

○ C_INLET

○ CATCH_BASIN

○ Curb Inlet

○ DROP_INLET

○ GRATE_INLET

○ Grass Ditch

○ Grate Inlet

○ JUNCTION-BOX

○ Junction Box

○ junction box

○ ONE_SIDED_CULVERT

○ OPEN_JUNCTION

○ OUTFALL

○ Open Junction

○ Other

○ Other inlet

○ Outfall

○ Paved Ditch

○ Pond

○ TOE-HEAD WALL

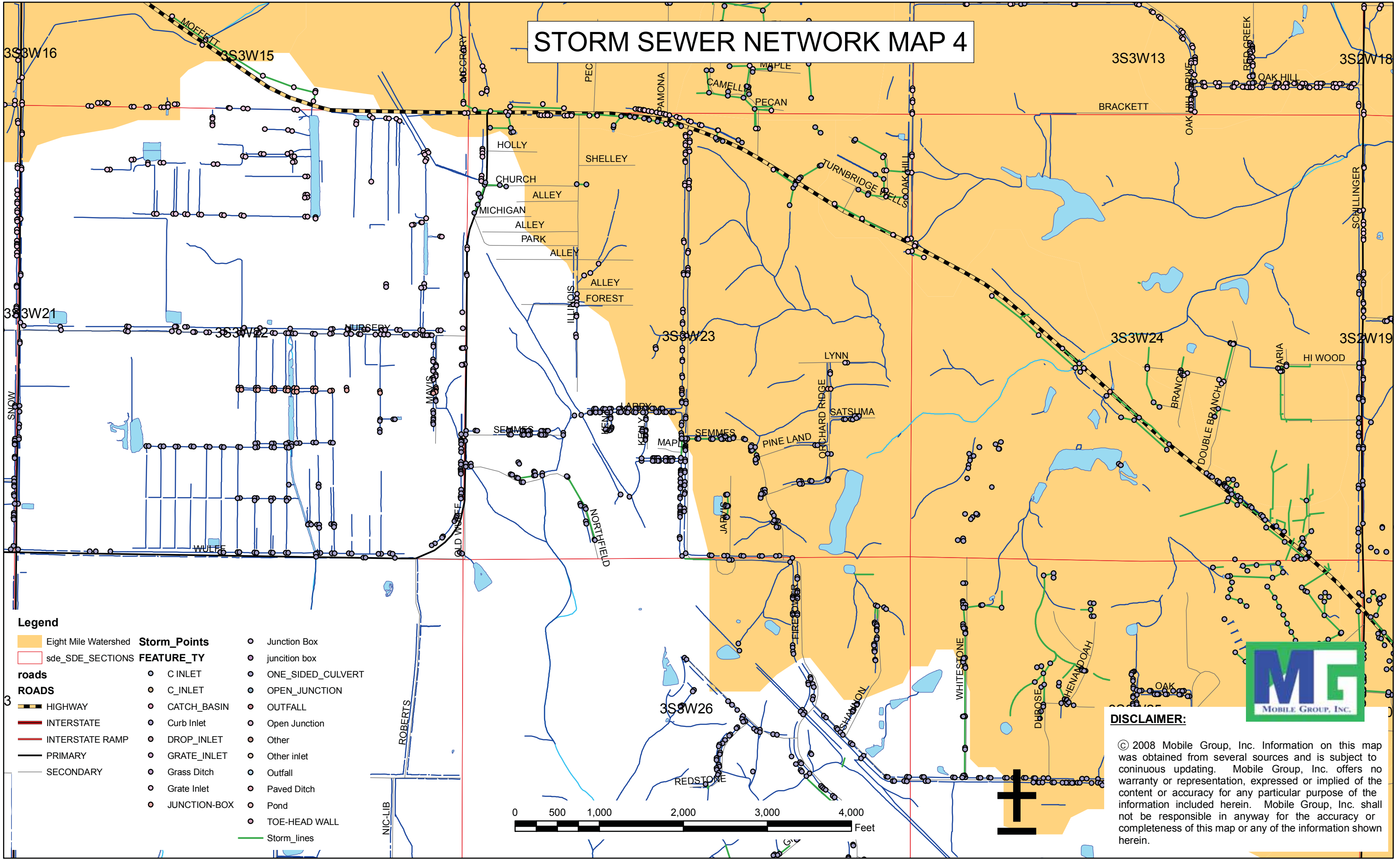
Storm_lines

DISCLAIMER:

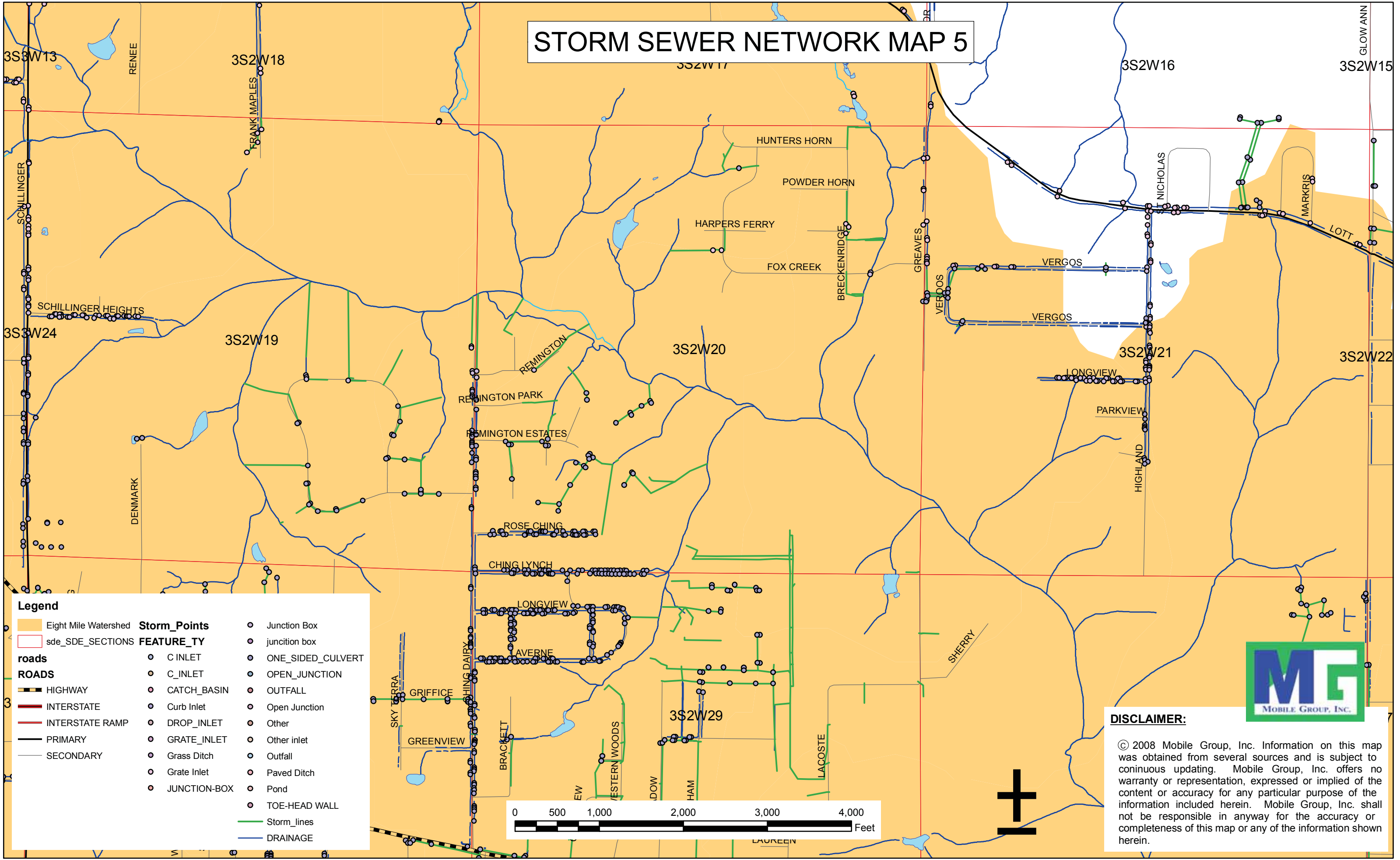
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STORM SEWER NETWORK MAP 4



STORM SEWER NETWORK MAP 5



Legend

Eight Mile Watershed

sde_SDE_SECTIONS

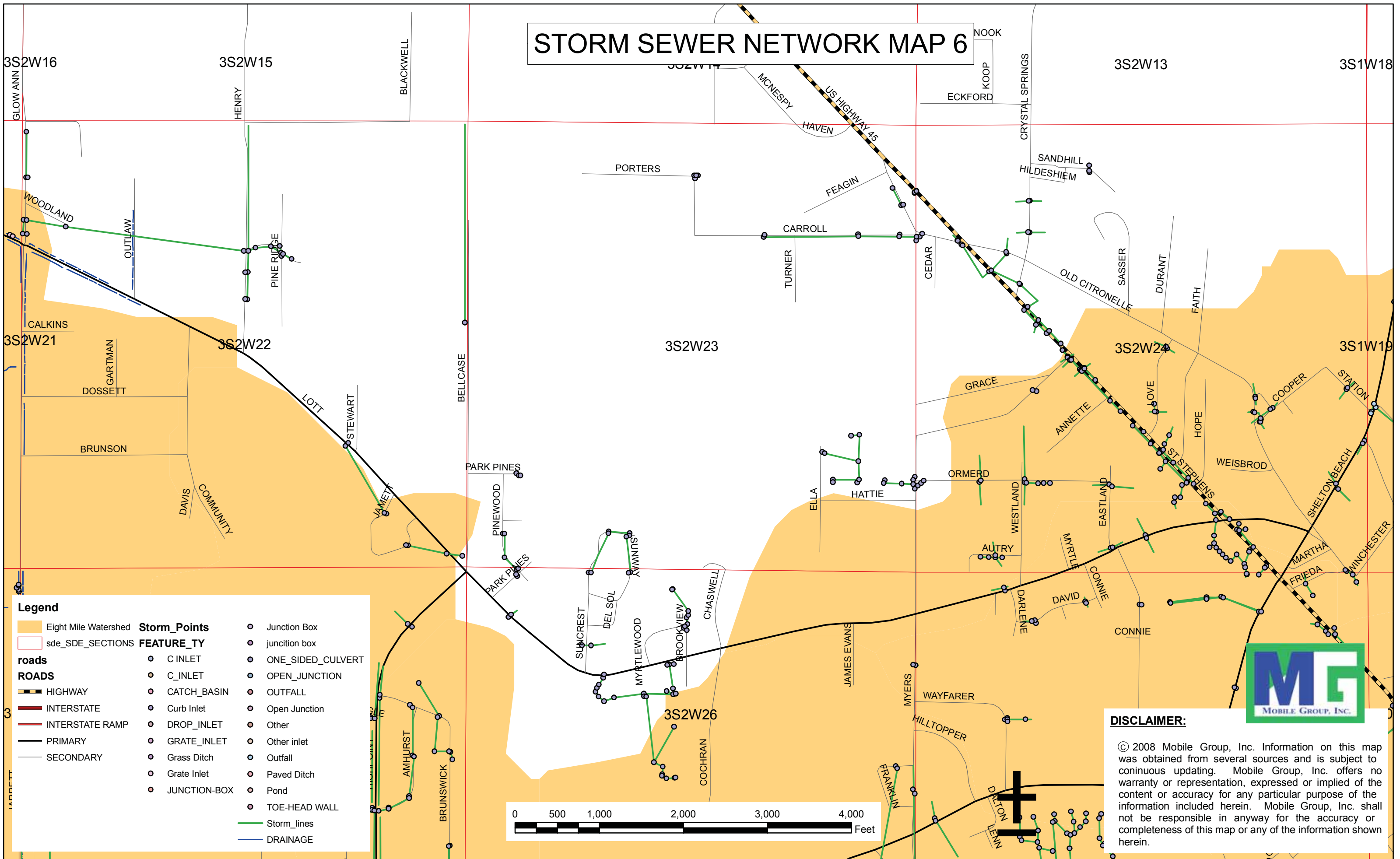
roads
ROADS
HIGHWAY
INTERSTATE
INTERSTATE RAMP
PRIMARY
SECONDARY

Storm_Points
FEATURE_TY
C INLET
C_INLET
CATCH_BASIN
Curb Inlet
DROP_INLET
GRATE_INLET
Grass Ditch
Grate Inlet
JUNCTION-BOX
Junction Box
junction box
ONE_SIDED_CULVERT
OPEN_JUNCTION
OUTFALL
Open Junction
Other
Other inlet
Outfall
Paved Ditch
Pond
TOE-HEAD WALL
Storm_lines
DRAINAGE



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STORM SEWER NETWORK MAP 6



STORM SEWER NETWORK MAP 7

Legend

— DRAINAGE

— WATERBODY

— Eight Mile Watershed

— Water

— sde_SDE_SECTIONS

roads

ROADS

— HIGHWAY

— INTERSTATE

— INTERSTATE RAMP

— PRIMARY

— SECONDARY

Storm_Points

FEATURE_TY

• C INLET

• C_INLET

• CATCH_BASIN

• Curb Inlet

• DROP_INLET

• GRATE_INLET

• Grass Ditch

• Grate Inlet

• JUNCTION-BOX

• Junction Box

• junction box

• ONE_SIDED_CULVERT

• OPEN_JUNCTION

• OUTFALL

• Open Junction

• Other

• Other inlet

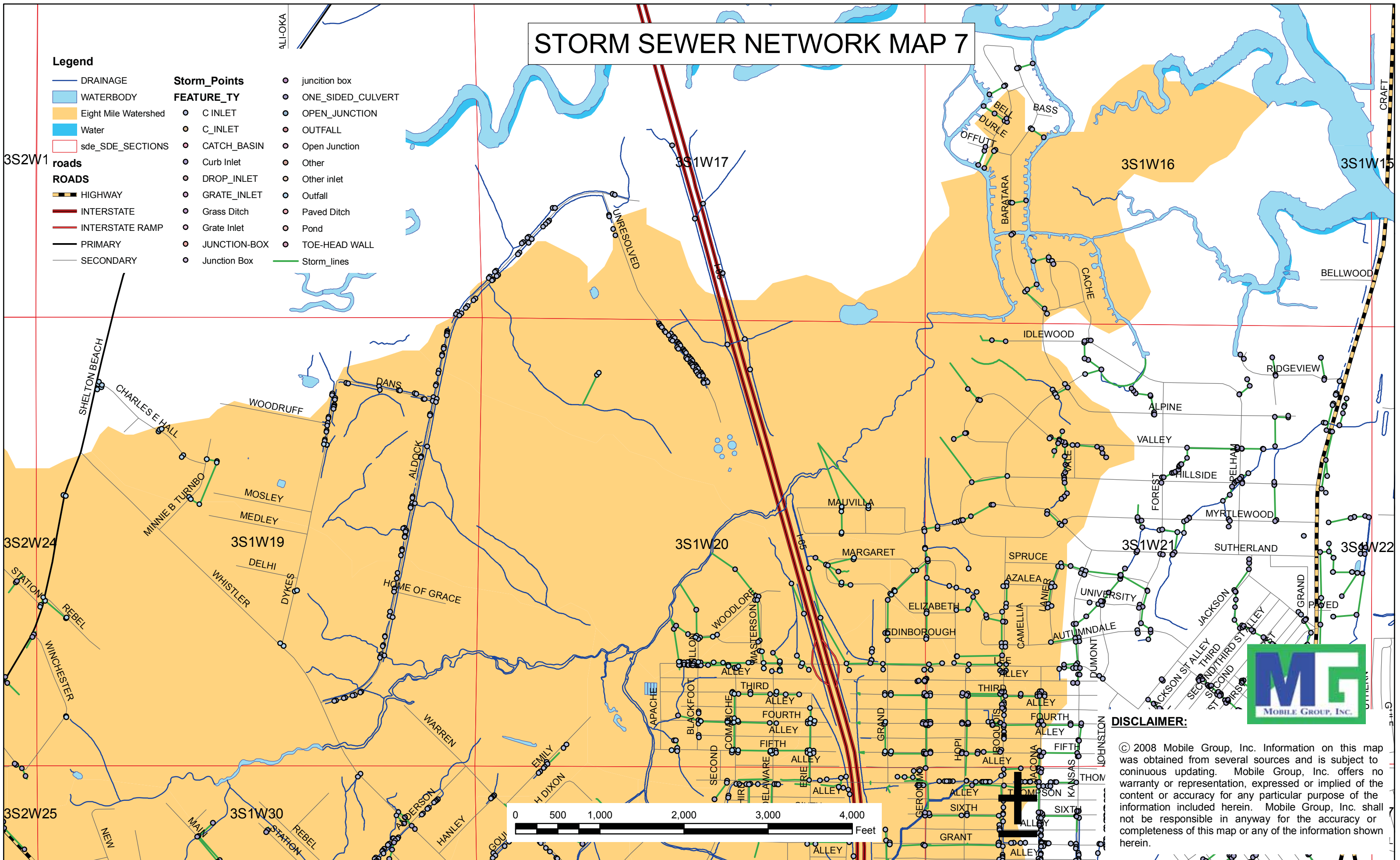
• Outfall

• Paved Ditch

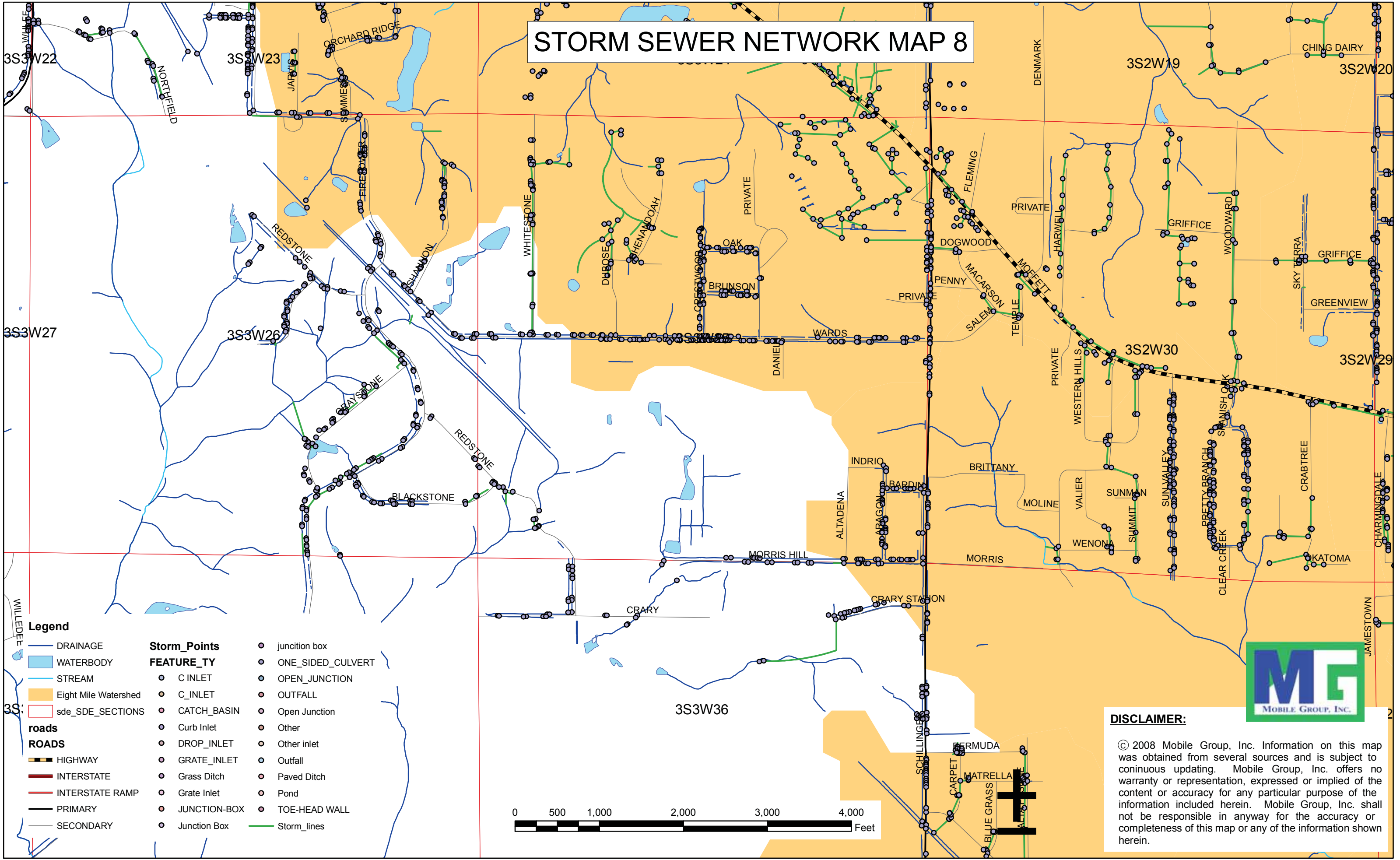
• Pond

• TOE-HEAD WALL

— Storm_lines



STORM SEWER NETWORK MAP 8



Legend

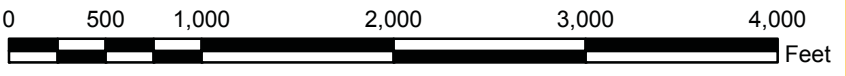
- DRAINAGE
- WATERBODY
- STREAM
- Eight Mile Watershed
- sde_SDE_SECTIONS

roads

- ROADS
- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

Storm_Points

FEATURE_TY	
C INLET	junction box
C_INLET	ONE_SIDED_CULVERT
CATCH_BASIN	OPEN_JUNCTION
Curb Inlet	OUTFALL
DROP_INLET	Open Junction
GRATE_INLET	Other
Grass Ditch	Other inlet
Grate Inlet	Outfall
JUNCTION-BOX	Paved Ditch
Junction Box	Pond
	TOE-HEAD WALL
	Storm_lines

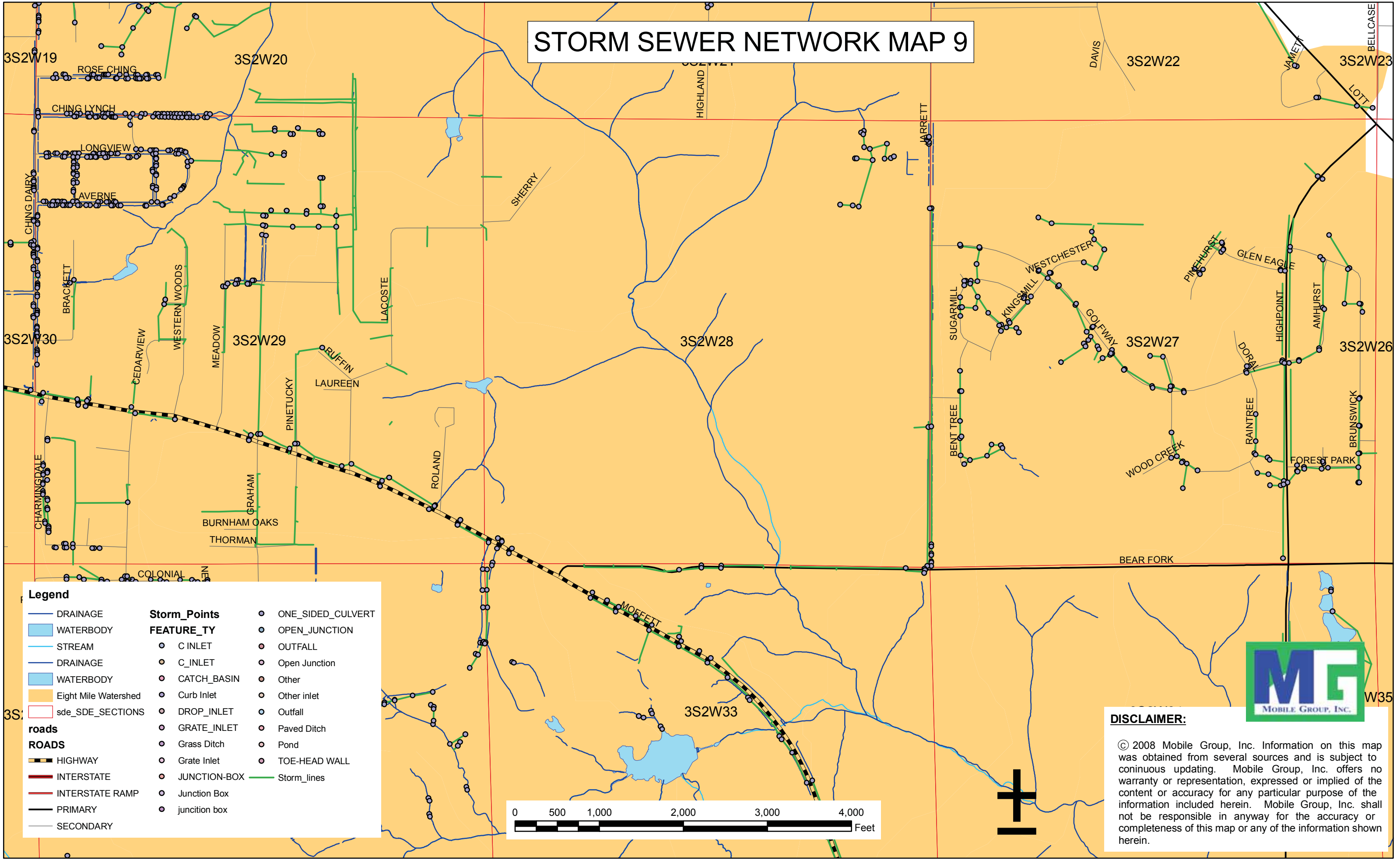


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STORM SEWER NETWORK MAP 9



Legend

- DRAINAGE
- WATERBODY
- STREAM
- DRAINAGE
- WATERBODY
- Eight Mile Watershed
- sde_SDE_SECTIONS

Storm_Points

FEATURE_TY	
C INLET	ONE_SIDED_CULVERT
C_INLET	OPEN_JUNCTION
CATCH_BASIN	OUTFALL
Curb Inlet	Open Junction
DROP_INLET	Other
GRATE_INLET	Other inlet
Grass Ditch	Outfall
Grate Inlet	Paved Ditch
JUNCTION-BOX	Pond
Junction Box	TOE-HEAD WALL
junction box	Storm_lines

ROADS

- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

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STORM SEWER NETWORK MAP 10

Legend

- DRAINAGE
- WATERBODY
- Eight Mile Watershed
- sde_SDE_SECTIONS
- roads
- ROADS
 - HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY

Storm_Points

FEATURE_TY

- C INLET
- C_INLET
- CATCH_BASIN
- Curb Inlet
- DROP_INLET
- GRATE_INLET
- Grass Ditch
- Grate Inlet
- JUNCTION-BOX
- Junction Box
- junction box
- ONE_SIDED_CULVERT
- OPEN_JUNCTION
- OUTFALL
- Open Junction
- Other
- Other inlet
- Outfall
- Paved Ditch
- Pond
- TOE-HEAD WALL
- Storm_lines

0 500 1,000 2,000 3,000 4,000 Feet

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STORM SEWER NETWORK MAP 11

Legend

- DRAINAGE
- WATERBODY
- Eight Mile Watershed
- sde_SDE_SECTIONS
- roads
- ROADS
- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

Storm_Points

FEATURE_TY

- C INLET
- C_INLET
- CATCH_BASIN
- Curb Inlet
- DROP_INLET
- GRATE_INLET
- Grass Ditch
- Grate Inlet
- JUNCTION-BOX
- Junction Box
- junction box
- ONE_SIDED_CULVERT
- OPEN_JUNCTION
- OUTFALL
- Open Junction
- Other
- Other inlet
- Outfall
- Paved Ditch
- Pond
- TOE-HEAD WALL
- Storm_lines

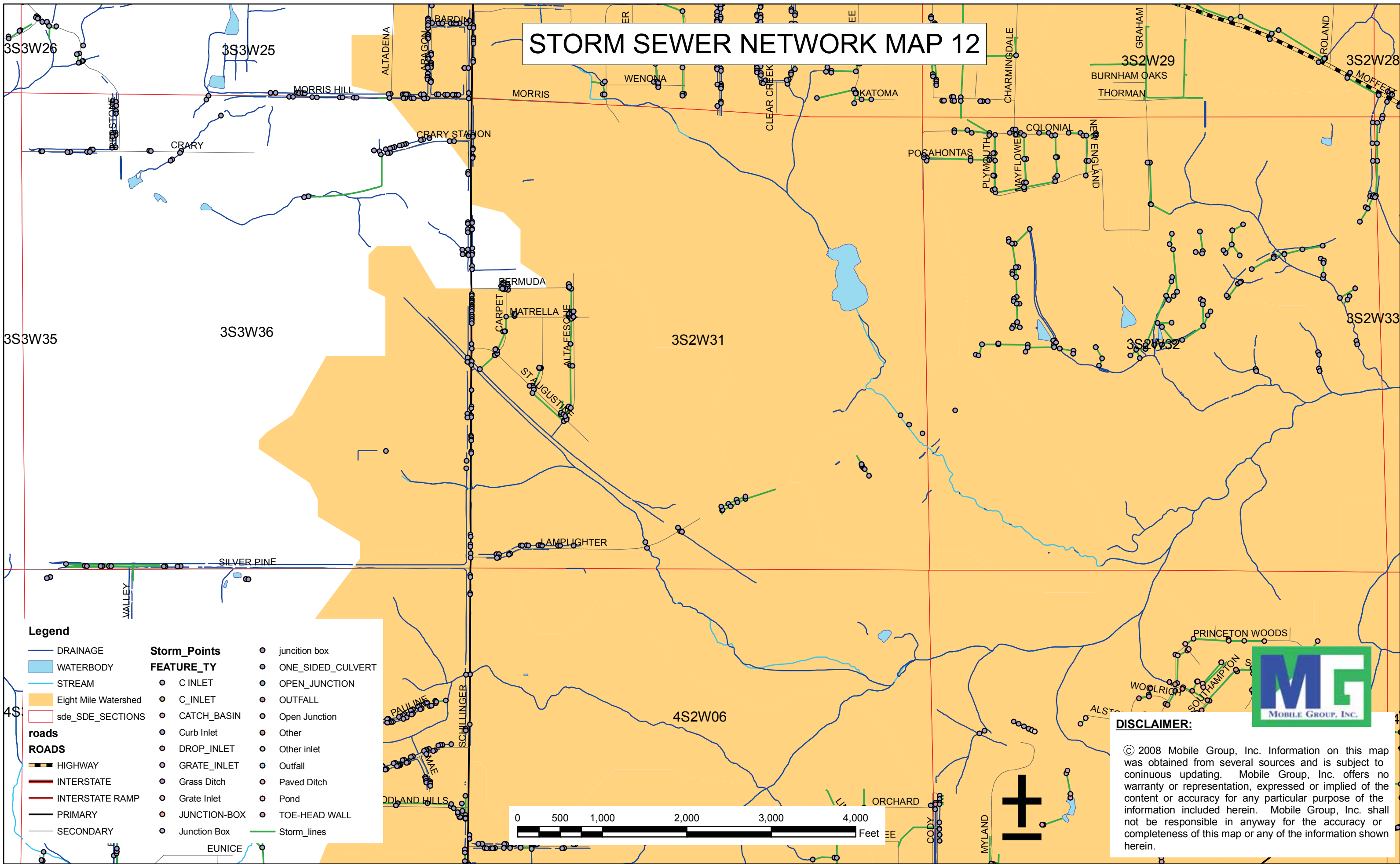


DISCLAIMER:

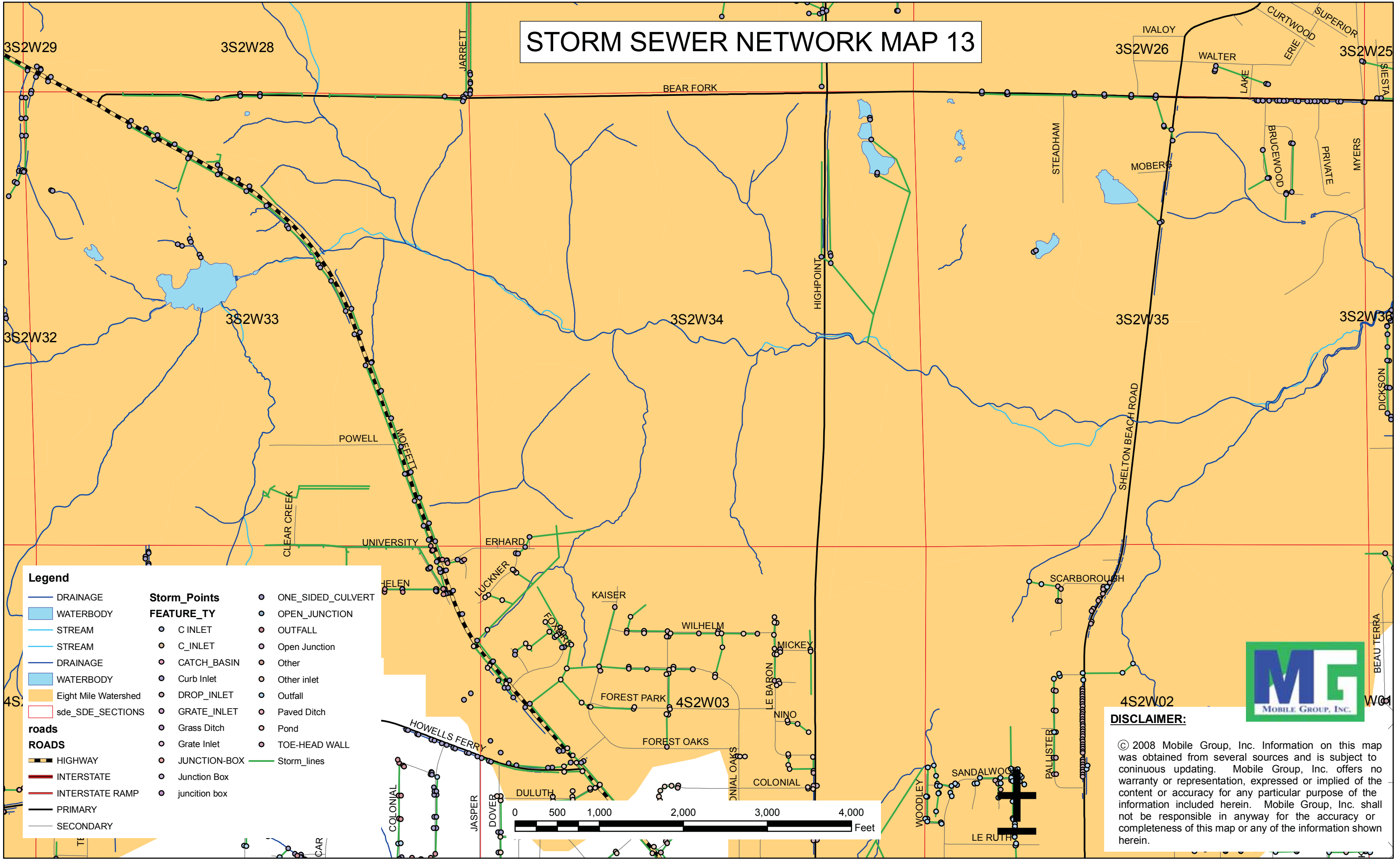
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0 500 1,000 2,000 3,000 4,000 Feet

STORM SEWER NETWORK MAP 12



STORM SEWER NETWORK MAP 13



Legend

- DRAINAGE
- WATERBODY
- STREAM
- STREAM
- DRAINAGE
- WATERBODY
- Eight Mile Watershed
- sde_SDE_SECTIONS

roads

- ROADS
- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

Storm_Points

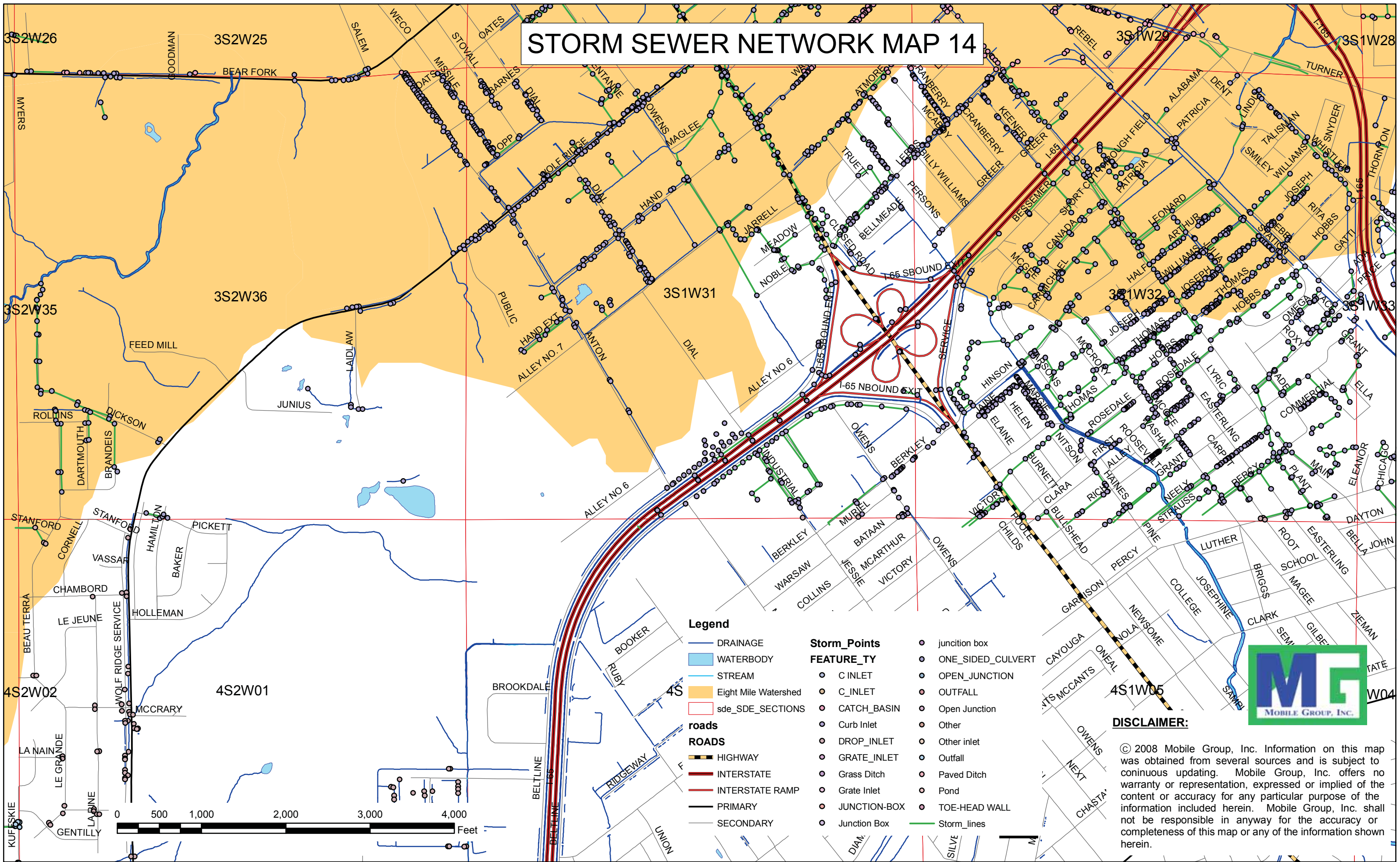
FEATURE_TY	
C INLET	ONE_SIDED_CULVERT
C_INLET	OPEN_JUNCTION
CATCH_BASIN	OUTFALL
Curb Inlet	Open Junction
DROP_INLET	Other
GRATE_INLET	Other inlet
Grass Ditch	Outfall
Grate Inlet	Paved Ditch
JUNCTION-BOX	Pond
Junction Box	TOE-HEAD WALL
junction box	Storm_lines



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STORM SEWER NETWORK MAP 14



Legend

- DRAINAGE
- WATERBODY
- STREAM
- Eight Mile Watershed
- sde_SDE_SECTIONS
- roads
- ROADS
- HIGHWAY
- INTERSTATE
- INTERSTATE RAMP
- PRIMARY
- SECONDARY

Storm_Points

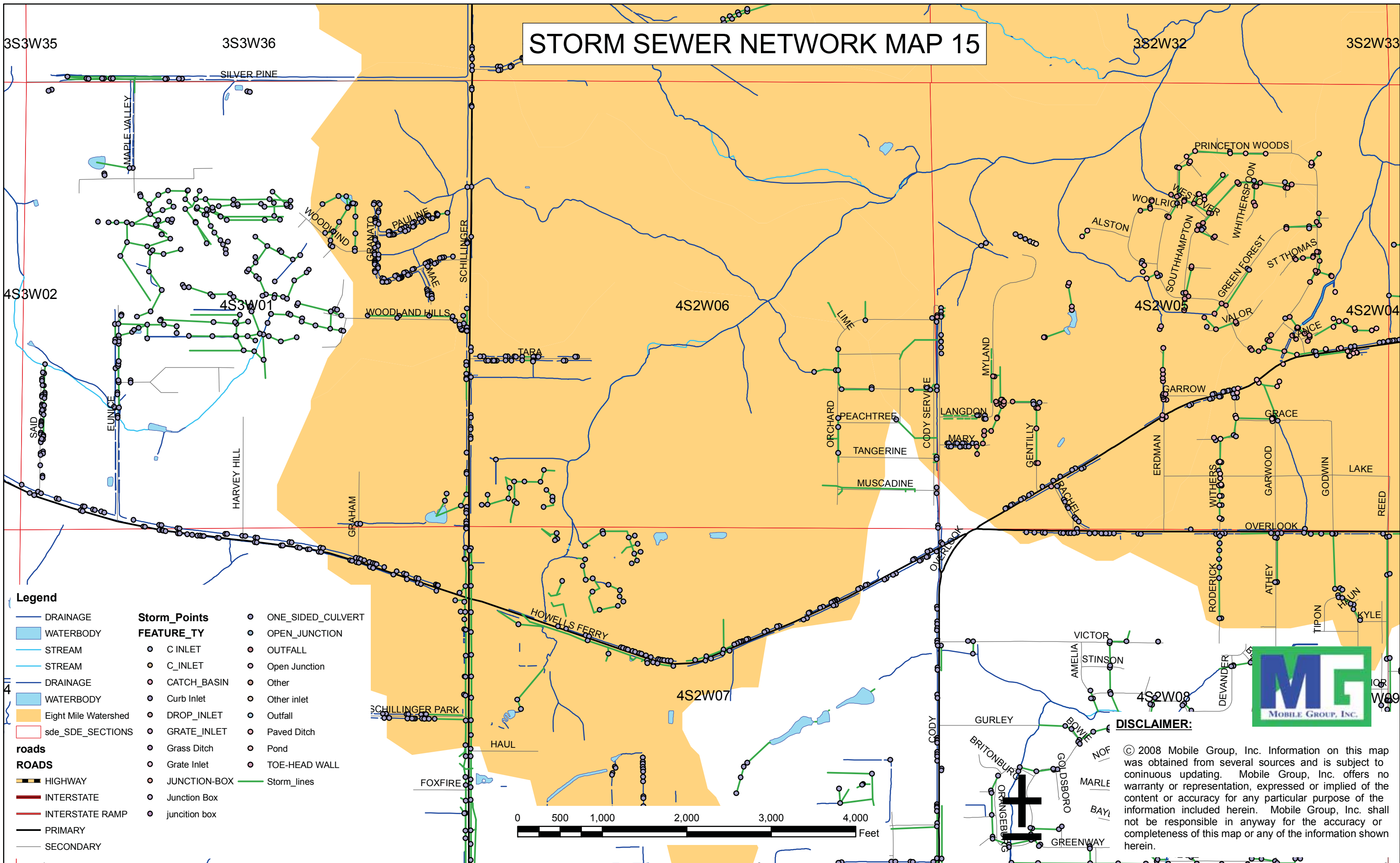
- C_INLET
- C_INLET
- CATCH_BASIN
- Curb Inlet
- DROP_INLET
- GRATE_INLET
- Grass Ditch
- Grate Inlet
- JUNCTION-BOX
- Junction Box

- junction box
- ONE_SIDED_CULVERT
- OPEN_JUNCTION
- OUTFALL
- Open Junction
- Other
- Other inlet
- Outfall
- Paved Ditch
- Pond
- TOE-HEAD WALL
- Storm_lines

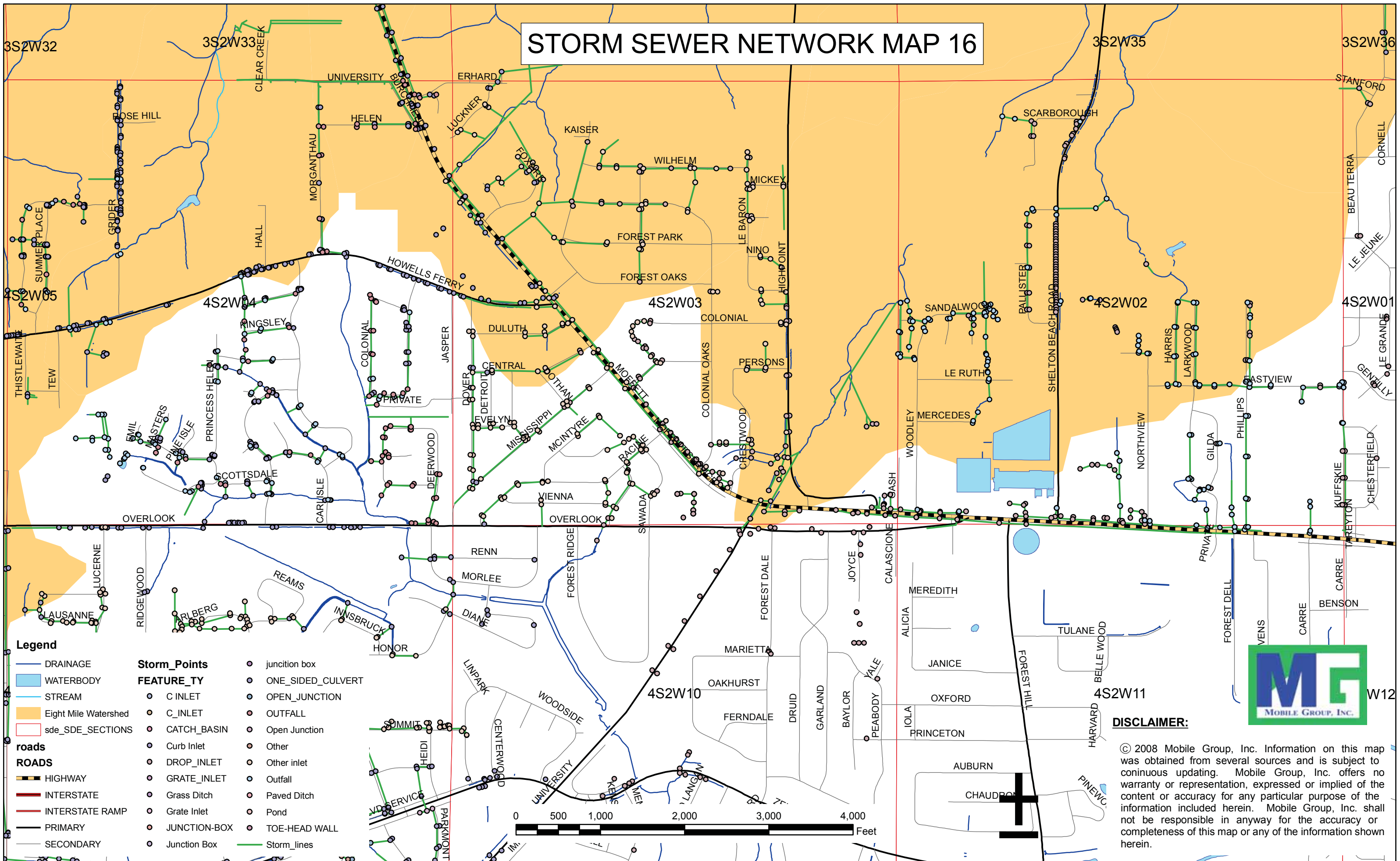
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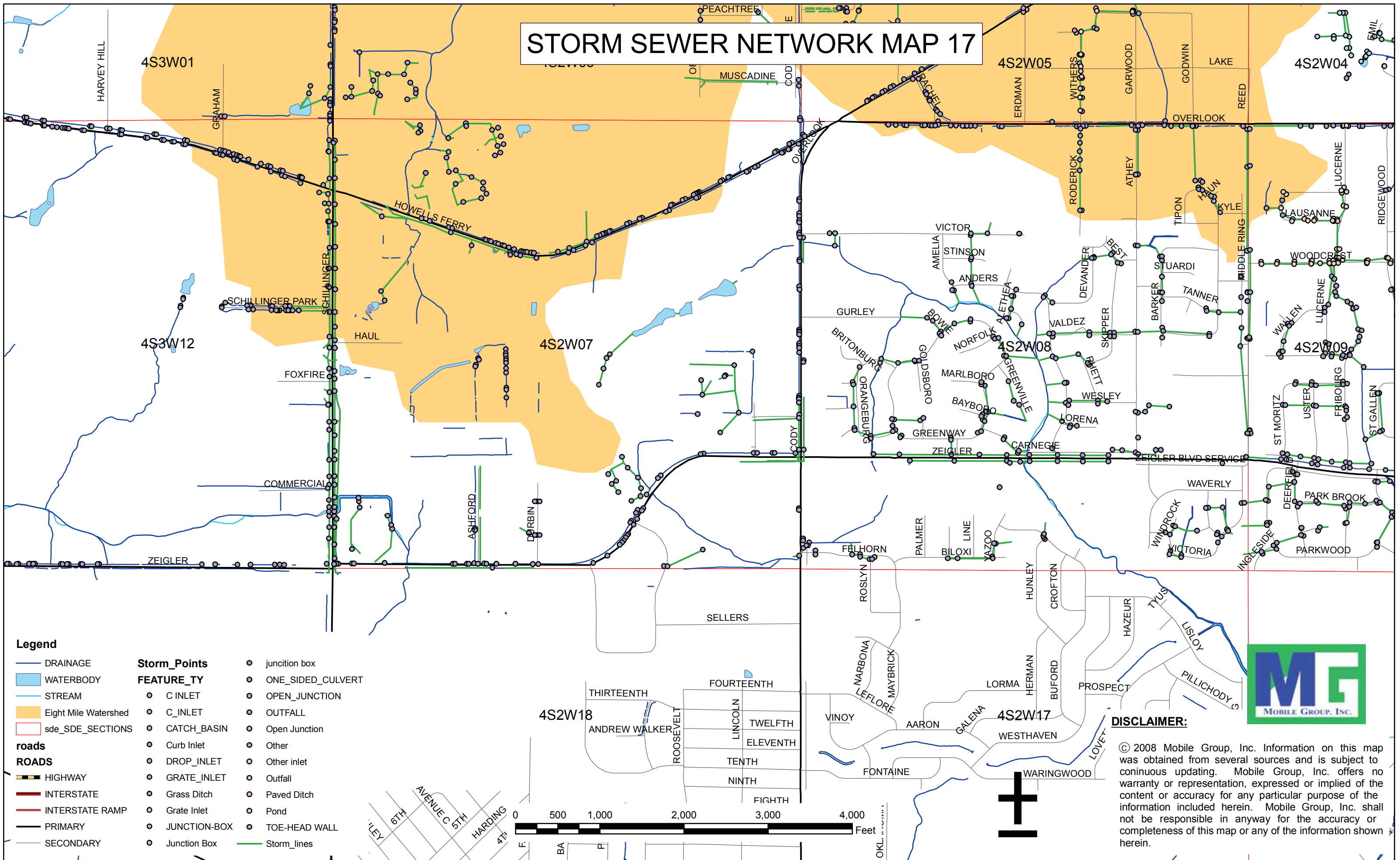
STORM SEWER NETWORK MAP 15



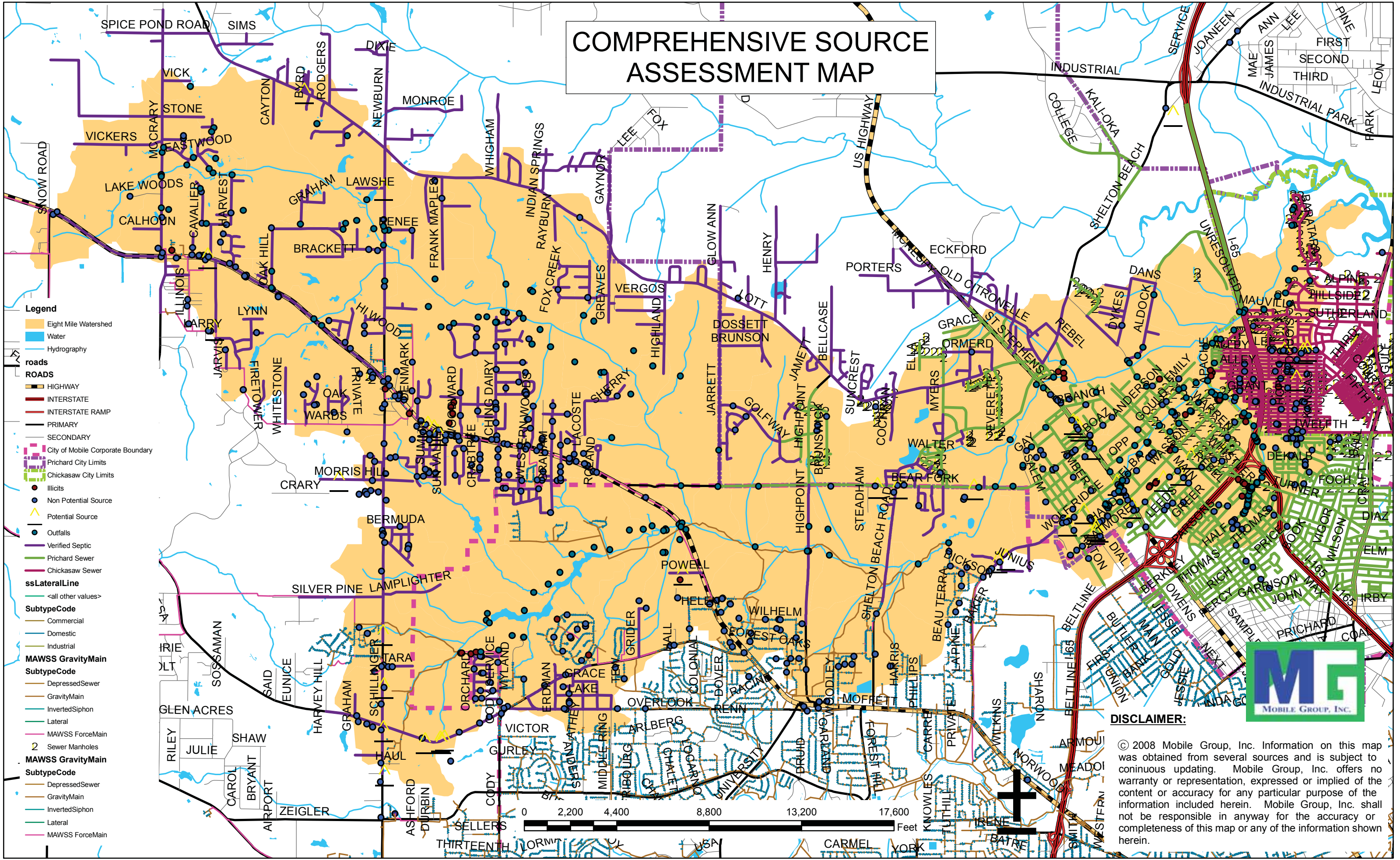
STORM SEWER NETWORK MAP 16



STORM SEWER NETWORK MAP 17



COMPREHENSIVE SOURCE ASSESSMENT MAP



- Legend**
- Eight Mile Watershed
 - Water
 - Hydrography
 - roads**
 - ROADS**
 - HIGHWAY
 - INTERSTATE
 - INTERSTATE RAMP
 - PRIMARY
 - SECONDARY
 - City of Mobile Corporate Boundary
 - Prichard City Limits
 - Chickasaw City Limits
 - Illicits
 - Non Potential Source
 - Potential Source
 - Outfalls
 - Verified Septic
 - Prichard Sewer
 - Chickasaw Sewer
 - ssLateralLine**
 - <all other values>
 - SubtypeCode**
 - Commercial
 - Domestic
 - Industrial
 - MAWSS GravityMain**
 - SubtypeCode**
 - DepressedSewer
 - GravityMain
 - InvertedSiphon
 - Lateral
 - MAWSS ForceMain
 - 2 Sewer Manholes
 - MAWSS GravityMain**
 - SubtypeCode**
 - DepressedSewer
 - GravityMain
 - InvertedSiphon
 - Lateral
 - MAWSS ForceMain

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SECTION 5: FINDINGS AND RECOMMENDATIONS

FINDINGS

In 1998, Eight Mile Creek and Gum Tree Branch were added to the Alabama 303 (d) list of impaired waters due to high levels of pathogens. The impaired portions of Eight Mile Creek and Gum Tree Branch are located in urbanized areas within the city limits of Prichard, Mobile, and Chickasaw. Both these water bodies experienced frequent and major sanitary sewer overflows over the years from the Prichard Water Works and Sewer Board and the Mobile Area Water and Sewer Service. In addition, Eight Mile Creek has been impacted by illicit septic tank discharges as documented by ADEM.

Based on the impaired stream segments of Eight Mile Creek and Gum Tree Branch, the pathogen Total Maximum Daily Load (TMDL) for Eight Mile Creek/Gum Tree Branch was approved by EPA in October 2004. Implementation of the TMDL is ongoing and is expected to bring the water bodies into compliance with their use classifications.

The MBNEP, the ADEM, the SARPC and the Gulf of Mexico Program partnered to address issues relating to the removal of Eight Mile Creek and Gum Tree Branch from the Alabama 303(d) list. The initiative was to identify potential sources (other than sanitary sewer overflows) on a comprehensive basis that could be affecting the watershed and its impairment.

To identify current/existing water quality conditions, monitoring was conducted by ADEM in Phase One of this project. Based on the monitoring completed at 10 different stations, it was found that only one (1) station was supportive of the water use classification.

Phases Two and Three involved GIS Coordination and Source Identification. However, changes had to be made to the proposed scope of work envisioned, to match the reduced funding. In addition, several modifications were made to the scope of work since data and information to be provided by several stakeholders was not provided or not available. Some of the tasks envisioned had to be eliminated, however, extensive on-site and field inspections, identifications and data gathering (not envisioned in the scope of work) had to be made to acquire data that was supposed to be provided by the stake holders. In addition, extensive data compilation and/or digitization had to be done to incorporate field and other data into the GIS that was previously not envisioned for this project.

RECOMMENDATIONS

In addition to the sources and data identified, investigated, and compiled in this source assessment, several other items and issues need to be addressed to complete a comprehensive assessment of the watershed, its sources and impacts. Several items could not be addressed due to funding limitations, reluctance of stakeholders to provide data/information, or a lack of information/data that was previously assumed to exist.

In order to address the impaired status of the aforementioned streams, it is essential to identify all the potential sources discharging and/or affecting their watersheds as well as other items and issues that could not be addressed in this project. The completion of these additional tasks will result in the comprehensive assessment of the watershed as well as identification of any potential sources that may be affecting the watershed other than sanitary sewer overflows. This will result

in the selection and determination of remediation actions necessary to be taken by state, municipal and utility authorities and other stakeholders to remove these streams from the 303(d) list of impaired water bodies in Alabama as well as assist in the comprehensive management of the watershed. A list of items and issues that need to be addressed are discussed below.

Review, evaluate and organize the septic tank permits issued by Mobile County to allow sorting by a key factor. Compile the information into a relational database and identify the location of each permitted septic tank system. Verify the location of each failing septic tank and its potential discharge to the nearby water bodies. Continue digital maintenance of information to keep data up to date. Spatially analyze the septic system locations with water bodies, storm sewer system and other factors to determine their potential to discharge pollutants to the water bodies.

Using manholes and other information collected in this project, establish the horizontal connectivity of the sanitary sewer system. Identify the pipe sizes and capacity of the existing sewer network and establish a hydraulic model of the system. Accurately identify any sanitary sewer overflows using coordinates or latitudes/longitudes rather than street names to accurately pinpoint the location of the discharges and the affected pipe segment.

Identify existing and potential structural controls within the watershed to assist with flow attenuation as well as treatment if necessary.

Obtain building permits and land disturbance information for sites conducting construction activities within the watershed.

Work with the GIS Consortium to acquire digital ortho aerial photography of the few sections missing within the watershed. This would assist in acquiring current and detailed contours as well as ascertain visual changes to the watershed.

Conduct hydrologic and hydraulic analyses of flows in the watershed and capacities of the water bodies to establish existing flows and capacities as well as future (100% build-out) flows and capacities. Establish stream gages and rain gages at critical locations in the watershed to provide flow calibration.

APPENDIX 1: WORKSHOP ATTENDEES

NAME	ORGANIZATION/ADDRESS	PHONE NO.	EMAIL
Phillip Hinesley	ADCNR State Lands Div.-Coastal Stonebrook Executive Complex Suite B-1 Fairhope, AL 36532	(251) 929-0900	PhilipHinesley@noaa.gov
Dr. David Yeager	Mobile Bay National Estuary Program 4172 Commanders Drive Mobile, AL 36615	(251) 431-6409	dyeager@mobilebaynep.com
Jim Duffy	ADCNR, Marine Resources Div. P.O BOX 188 Dauphin Island, AL 36528	(251) 861-2882	Jduffy.amrddi@gulftel.com
Keith Govro	Environmental Services Director County Engineers Office 205 Government St. So. Tower 6 th FL Mobile, AL 36644-1600	(251) 574-8595	kcgmoco@aol.com
Tina Sanchez	Director of Environmental Planning So Ala. Regional Planning Comm. 651 Church St. P.O. Box 1665 Mobile, AL 36633-1665	(251) 433-6541	tsanchez@sarpc.org
Bill Swopes	Prichard Water Works & Sewer Bd. 125, E. Clark St. Prichard, AL 36610	(251) 457-3396	N/A
V.J. Reddy	Mobile Engineering Inc. 1055, Hillcrest Rd, Bldg. F-3 Mobile, AL 36695	(251) 635-1140	vireddy@mobileeng.com
Tony Sneed	MAWSS Collection Systems Engineer 207 N. Catherine St. Mobile, AL 36604	(251) 694-3167	tsneed@mawss.com
Malcolm Steeves	MAWSS 207 N. Catherine St. Mobile, AL 36604	(251) 694-3152	msteeves@mawss.com
Cleophus Tolbert	Storm Water Coordinator City of Prichard P.O. Box 10427 Prichard, AL 36610	(251) 452-7855	N/A
Marilyn King	Prichard Water Works Lab P.O. Box 10455 Prichard, AL 36610	(251) 457-9786	N/A
Jody Scanlan	Auburn University Marine Extension and Research Center 4170 Commanders Drive Mobile, AL 36615	(251) 438-5690	jscanlan@aces.edu
David Wallace	Mobile County Health Dept. P.O BOX 2867 Mobile, AL 36652-2867	(251) 690-8846	dwallace@mobilecountyhealth.org
Liz Langston	U.S. Fish & Wildlife Service P.O. Drawer 1190 Daphne, Alabama 36526-1190	(251) 441-5181 ext 5181	liz_langston@fws.gov

John Carlton	Chief, Mobile Branch Field Operations Division Ala. Dept. of Environmental Mgmt 2204 Perimeter Road Mobile, AL 36615	(251) 450-3400	jcc@adem.state.al.us
Randy Shaneyfelt	Chief, Coastal Programs Field Operations Division Ala. Dept. of Environmental Mgmt 4171 Commanders Drive Mobile, AL 36615	(251) 432-6533	rsc@adem.state.al.us
Tyson Griswold	Permits & Compliance Section Municipal Branch, Water Division Ala. Dept. of Environmental Mgmt P.O. BOX 301463 Montgomery, AL 36130-1463	(334) 271-7700	tmg@adem.state.al.us
Chris Strickland	Water Division Ala. Dept. of Environmental Mgmt P.O. BOX 301463 Montgomery, AL 36130-1463	(334) 271-7700	wcs@adem.state.al.us
Charles Reynolds	Water Division Ala. Dept. of Environmental Mgmt P.O. BOX 301463 Montgomery, AL 36130-1463	(334) 271-7700	cpr@adem.state.al.us
Casi Callaway	Executive Director Mobile Bay Watch, Inc 3280 Dauphin St., Ste. C-104 Mobile, AL 36606-4051	(251) 476-0328	callaway@mobilebaywatch.org
Randy Roach	U.S. Fish & Wildlife Service P.O. Drawer 1190 Daphne, Alabama 36526-1190	(251) 441-5181	randy_roach@fws.gov
Stan Tant	Mobile County Health Dept. P.O Box 2867 Mobile, AL 36652-2867	(251) 690-8103	Stanton@MobileCountyhealth.org
Jason S. Smith	Water Division Ala. Dept. of Environmental Mgmt P.O. Box 301463 Montgomery, AL 36130-1463	(251) 394-4365	jsmith@adem.state.al.us
B. Dickinson	Mobile	(251) 666-4917	
Julie Shiyou-Woodard	Environmental Planner Environmental Planning Dept. SARPC 651 Church St. Mobile, AL 36633-1665	(251) 433-6541	jshiyou@sarpc.org
J. Scott Brown	J. Scott Brown Chief Water Unit, Mobile Branch Field Operations Div. ADEM 2204 Perimeter Rd. Mobile, AL 36615	(251) 450-3400	jsb@@adem.state.al.us

APPENDIX 2: BUSINESSES AND POTENTIAL SOURCE FACILITIES

Name	EXP
A & A AUTO SALVAGE	N
A & B CLEANING SERVICE	N
A & B TIRES	N
A & E AUTO SALES	N
A & W AUTO SALES	N
A FIELD OF DREAMS LANDSCAPING	N
A H & S ENTERPRISES	N
A M L CONSTRUCTORS	N
A R S CUSTOM AUTO TRIM AND ANTIQUE RESTORATION	N
A-1 AUTO	N
A-1 AUTO	N
A-1 AUTO SALES	Y
A-1 TIRE STORE	N
AAA QUICK WAY SEPTIC SERVICE	N
AAA USED AUTO PARTS	N
ABC APPLICATOR INC	N
A-BEARS LAWN CARE	N
ABRAMS, CAROLYN	N
ABSOLUTE BUILDING & CONSTRUCTION	N
ACCURATE HOIST & EQUIPMENT REPAIR	N
ACE METAL BLDG & COMPONENTS INC	N
ACTION MOTORS	N
ADVANCED AUTO PARTS	N
ADVANCED AUTO PARTS NO.5857	N
ADVANCED RESURFACING SYSTEMS	N
ADVANTAGE HOME MAINTENANCE	N
AFFORDABLE LAWN MAINTENANCE THE WOR	N
AGGREKO	N
AGGREKO	Y
AGRO DISTRIBUTION	N
AL TRANS SERVICE	Y
ALA MISS ROOFING	N
ALA. AUTO DISMANTLERS	Y
ALADDIN CARPET, INC	N
ALBERTO AUTO SALES & BODY SHOP	N
ALBERTOS BODY SHOP	N
ALEDA INTERNATIONAL	N
ALEX CONSTRUCTION INC	N
ALL ABOUT FLOORS	N
ALL PRO EXTERIOR	N
ALLENS ENTERPRISES	N
ALLSUPS MINISTORAGE	Y
ALPHA BUILDING CONTRACTORS	N
AMERICAN INSULATION	N
ANDREWS IMPORTS	N
ANJACO	N

ATKINS CONSTRUCTION	N
AUTOMOTIVE RECYCLERS	N
AUTOMOTIVE SALES SPECIALIST	N
AUTOZONE	N
AUTOZONE	N
AYERS CONSTRUCTION	N
AZALEA CITY GLASS	N
AZALEA CITY MOTORS	N
AZALEA CITY PLUMBING	N
B & J CONSTRUCTION	N
B & W WALLPAPER SPECIALISTS	N
B C TRANSPORT	N
B P CONV. STORE AND GAS	N
BAKER CONCRETE CONSTRUCTION	N
BAMA BLOWERS-ATTIC INSULATORS	N
BARNHILL	N
BASSTECH WINDSHIELD REPAIR	N
BATCHELOR, ARCHIE	N
BAY CITY INSTALLERS	N
BAYSHORE CONSTRUCTION	N
BENN FOOD MART	N
BIGGS CUSTOM FRAMING & CONSTRUCTION	N
BILL JONES HYDRAULICS	N
BLACK & VEATH CONSTRUCTION	N
BLACKWELLS AUTO SALES	N
BLUE WATER RIGGING	N
BOLING CARPET	N
BP EXPLORATION AND OIL NO.24269	N
BP EXPLORATORY AND OIL INC. NO.300472	N
BRIGHTS MOWER AND CHAINSAW REPAIR	N
BROWN STAR PALLET FACTORY	N
BROWN, CLYDE SR	N
BRYANT AIR & REFRIGERATION	N
BUC-A-ROOS SANITATION	N
BUCK KELLY GRIFFIN	N
BUFORD CONSTRUCTION COMPANY	N
BUFORDS AUTO SALVAGE	Y
BULLDOG TRUCKING	N
BULLINGTON, C ALAN CONTRACTOR	N
BULLINGTON, H C CONTRACTOR	N
BURNHAM CABINET SHOP	N
C & C CHOICE CONSTRUCTION	N
C & C ENTERPRISES	N
C & M X-PRESS LUBE & CAR WASH INC	N
C CS CLEANING SERVICE	N
C K D DUNNING AUTO GARAGE	N
CALDWELLS AUTOMOTIVE	N
CALVIN GILL MASONRY	N

CAMELLIA CONSTRUCTION COMPANY INC	N
CAPPS MACHINE SHOP	N
CARDINAL CONTRACTING	N
CARLSON CUSTOM CABINETS	N
CARLTTON SILVERS CONSTITUTION	N
CAROLINA HOMES	N
CARPET DEPOT INC	N
CASANOVA HOME REPAIRS	N
CEDARS AUTO EXPORT	N
CHARLEY'S AMERICAN MOTORCYCLE	N
CHICKASAW TRIM AND GLASS	N
CHRIS FREEMAN CONSTRUCTION	N
CIRCLE K / CLOSED	N
CLARK TRUCK REPAIR	N
CLASSIC JANITORIAL	N
CLAUSELL BUIDLERS	N
CLAYS AUTOMOTIVE	N
CLEAN CUT LAWN SERVICE	N
CLEAN RITE	N
CLEM'S AUTO REPAIR	Y
COCHRAN HOMES	N
COCHRAN PLASTERING COMPANY	N
COLEMAN, JULIA ANN	N
COLEYS CREATIONS	N
COMMUNITY CARWASH & AUTO DETAIL	N
COMPLETE JANITORIAL SERVICE	N
CONCRETE RESTORATION	N
CONNER TRUCK REPAIR	N
CONTRACTORS SUPPLY AND FUEL INC.	Y
COPART SALVEGE AUTO AUCTION	N
CORNELSON, WILLIAM CONSTRUCTION CO	N
CORNERSTONE COLLISION CENTER	N
COUNSELMAN AUTOMOTIVE RECYCLING	Y
CRABTREE AUTO SALES	N
CRAWFORD BODY SHOP	N
CUNNINGHAM LAWN SERVICE	N
CUSTOM COLLISION AND AUTO REPAIR	Y
CUSTOM REMODELING	N
D & D CONSTRUCTION	N
D & G WHOLESALE	N
D & J CONCRETE	N
D & S PAINTING & REMODELING	N
D & T CONSTRUCTION	N
D AND D AUTO SALES	Y
D AND M BATTERIES INC.	N
D AND P AUTO WRECKERS INC.	Y
D P C ENTERPRISES	Y
DAVIS & SONS CONSTRUCTION COMPANY	N

DEAL AUTO	Y
DEBORAH SUMERLIN	N
DEEP SOUTH MARBLE AND GRANITE	N
DEESE QUALITY WOODWORKS	N
DENNY MANUFACTURING CO INC	N
DEVINEY CONSTRUCTION CO. INC.	Y
DEWAR,SCOTT D	N
DIAMOND'S CONVENIENCE STORE	N
DIRECTION FLOW INSTALLATION	N
DISCRETIONS LIMOUSINE INC	N
DODDS LANDSCAPING	N
DONALDS ROOFING	N
DONALDSON APPLIANCE REPAIR	N
DOZIER, CHASITY	N
D-RAY AUTOMOTIVE	Y
DREAMS TO REALITY	Y
DRISCOLL ENTERPRISES	N
DRIVER WILDING	N
DRY ROOFING AND REPAIR	N
DUBS AUTO SALES	N
DUKES, ALLEN & HATTIE	N
DUNN CONTRACTORS	N
DUNNAM, HENRY HOME DESIGN	N
DYESS TIRE CENTER	N
DYKES BROTHERS CONSTRUCTION	N
DYKES BROTHERS CONSTRUCTION	N
E J MALLORY	N
E L AND K WHOLESALE AUOT	N
E M S TILE	N
EAGLE PAINTING AND DRYWALL	N
EASY MART SHOP INC	N
ED DAVIS CONSTRUCTION	N
EDWARDS CLEANING SERVICE	N
EIGHT MILE AUTO SALES	N
ELDRIDGE AUTOMOTIVE WHOLESALE	N
ELWOODS HOME REMODELING	N
ENVIRONMENTAL LANDSCAPE SERVICES	N
EQUIPMENT MAINTENANCE AND REPAIR	Y
EUBANKS, HASKEL E	N
EVANS OUTDOOR POWER	N
EVERGREEN TECHNOLOGIES	N
EXPRESS CLEANING SERVICE	N
EXPRESS MART	N
EXQUISITE JANITORIAL	N
EXTREME MOTORSPORTS & REPAIR	N
EXXON ONE STOP FOOD MART NO.5	N
FAIL, J D	N
FAIRVIEW EXPRESS	N

FASCO GENERAL CONTRACTORS	N
FAST LANE AUTOMOTIVE	N
FERGUSON REPAIRS AND REMODELING	N
FERRIS, WILLIAM P III	N
FINAL TOUCH, THE	N
FIRESTONE	N
FIRST CLASS AUTO AND WHOLESALE INC.	N
FLETCHER JANET G ABSTRACTOR	N
FLEXIBLE COATINGS	N
FOR LESS AUTO SALES	N
FORD, ERMA W	N
FOREVER CLEAN AUTO DETAIL	N
FORKLIFT & HYDRAULIC	N
FRANK'S AUTO SALES	N
FREDS AND FREDS	N
FREEDOM MOTORS	N
FREMINS CONTRACTOR SERVICES LLC	N
G AND M AUTO SALES LLC.	N
G AND T CONSTRUCTION	N
GARNER ROOFING AND CONSTRUCTION	N
GARNER ROOFING COMPANY	N
GATLINS TEXACO	N
GENERAL AND MARINE SHEET METAL	N
GENERAL CONTRACTING	N
GENERAL ROOFING, INC	N
GERMAN AUTO HAUS	N
GILLEY BROTHERS	N
GLAUDE, HOWARD F JR BUILDER	N
GRASSWORKS	N
GRIDER' BODY SHOP	N
GTPS INC	N
GULF COAST MOTORS	N
GULF COAST ROOFING	N
GULF COAST TOWING	N
GULF STATE TRAILERS	N
GUY PLUMBING CO II	N
H & W CONTRACTING	N
H AND H CHEVRON	N
H H JORDAN CONSTRUCTION	Y
H M R CONSTRUCTION	N
H O MOTOR SPORTS	N
HALL,NAME PACKING	N
HAMMACS TOWING SVC.	N
HANDS ON JANITORIAL SERVICE	N
HANKS GARAGE	N
HANNICUTTS GARAGE	N
HANSON PIPE AND PRODUCTS INC.	N
HARBIN, VINA L	N

HARPER, GARLAND RAY	N
HARRELSON BODY SHOP AND WRECKER	N
HARRODS BACKHOE SVC.	N
HARRODS PAINT AND BODY	N
HARVEY'S AUTO REPAIR & TIRE SERVICE	N
HIGH MARK ROOFING SERVICE	N
HOEPPNER CONSTRUCTION	N
HOLDERFIELDES ELECTRIC MOTOR REPAIR	Y
HOME INSULATION	N
HOME MAINTENANCE	N
HOME SERVICES	N
HORN TRUCK REBUILDERS	N
HOSEA WEAVER AND SONS INC.	Y
HOUSE JANITORIAL SERVICE	N
HOUSE MECHANIC INC.	N
HOUSTON USED CARS	N
HOVEN STEEL & FABRICATION	N
HOWARD GLAUDE JR BUILDERS	N
HUBBART CONSTRUCTION	N
HUDSON & SON TEXACO STATION	N
HUGHES, ARNIE CONSTRUCTION COMPANY	N
HUGHES, JAMES W ETAL	N
HUNNICUTTS AUTO SALES	N
I & R INC	N
INDEPENDENT PLUMBING SERVICES	N
INTEGRITY ROOFING	N
INTEGRATED WASTE SERVICES	N
IVORY STORE	N
J & B PROPERTIES HOME REPAIR	N
J & J AUTOMOTIVE / PARTNERSHIP	N
J & J ROOFING	N
J & P LAWN CARE	N
J & T AUTO	N
J AND J RACING	N
J AND N CYCLE INC.	N
J B H	N
J B PLUMBING	N
J D AUTO BROKER	N
J L H QUALITY PAINTING	N
J T PLUMBING	N
J. B. CONSTRUCTION	N
J. S. WALTON AND CONSTRUCTION INC.	Y
J.D. AUTO DETAIL	N
JACKSON'S TILE	N
JAMES HAMMAC CONSTRUCTION SERVICES	N
JANCO SALES	N
JANES CONSTRUCTION	N
JANI-KING WOODYARD, M A DBA	N

JARVIS, L E CONSTRUCTION	N
JAY, ROSE B	N
JED PARKER CONSTRUCTION	N
JED'S LAWN CARE	N
JIMBO'S	N
JIMMY'S AUTO SALE	N
J-MAINTENANCE CONTRACTOR	N
J-N-J AUTOMOTIVE RETAILERS	N
JOHN DEERE LANDSCAPES	N
JOHNSON HAULING	Y
JOHNSON PLUMBING	N
JOHNSON, HENRY JR ETAL	N
JONES CONV STORE	N
JONES, J L CONSTRUCTION	N
JONES, LELAND	N
JORDAN - DANIEL CONTRACTING	N
JORDAN, CALVIN SR	N
JOSI'S	N
JS AND G PAINTING	N
J'S E-Z SHOP	N
K S AUTO SALES	N
K & K CLEANING & JANITORIAL SERVICE	N
K. D. AUTOMOTIVE	Y
KARMA CYCLES	N
KELLY ,EVELYN O	N
KELLY'S EXTERMINATING SERVICE	N
KETCHUMS AUTOMOTIVE	Y
KIM S	N
KING BUILT HOMES	N
KLOPNER, WALTER	N
KOCH, EDWARD E ETAL	N
KOSSOW PLUMBING	N
KOSSOW PLUMBING COMPANY	N
L & D CONSTRUCTION CO	N
L & J DIRT PIT INC	N
L & L CONSTRUCTION	N
L A CONSTRUCTION CO	N
LADY BUG LAWN CARE	N
LAMBERT, DARRELL ETAL	N
LANCES AUTOMOTIVE AND REPAIR-CENTER	N
LANDAURA	N
LANE STEEL	N
LANELLE HARPER ENTERPRISES	N
LAWN GIRL	N
LEDER TEC	N
LEE, LESLIE	N
LEEDS CONVENIENCE	N
LEES JANITORIAL SERVICE	N

LEONARD HANCOCK PAINTING & CONTRACT	N
LEWIS , CARL PAINTING	N
LIGHTING PEST CONTROL	N
LOTT ROAD AUTO SALES	N
LOUIS ANDERSON	N
LUCKER, JOHN R	N
M & D EXTERIORS	N
M & J AUTO SALESMAN	N
M AND D AUTO SALES	Y
M AND N AUTO SERVICE	N
M N M PAINTING	N
M. C. WILLIAMS CONTRACTING CO.	Y
MACHINE & INDUSTRIAL ENTERPRISE	N
MAHERG, THOMAS H	N
MAIDS IN WAITING	N
MAIN PLUMBING	N
MAINSTREAM	N
MALLET'S MAINTENANCE	N
MARTIN GAS TRANSPORT	Y
MARUT TRUCKING	N
MAS-CO CONSTRUCTION CO.	N
MASTER HALCO	N
MATTISON SERVICE	N
MATTOX CARPET AND UPHOLSTERY	N
MCD MOTORS	N
MCDONALD MUFFLER INC.	N
MCDUFFIE C M CONSTRUCTION COMPANY	N
MCINTOSH CONSTRUCTION	N
MCKENZIE TANK LINES	N
MCKINION, C L MRS.	N
MELTON, JAMES M ETAL	N
MELVIN PIERCE CO.	N
MERICAL CONSTRUCTION	N
MERRITT, JESSIE M	N
METALS, INC.	N
METRO AUTO SALES INC.	N
MID-GULF EQUIPMENT	N
MIGHTY WORK	N
MILLER, J M PLUMBING & PIPING CO	N
MILLS TRACTOR SERVICE	N
MINUTE STOP	N
MINUTE STOP 160	N
MITCHELL & BENJAMIN CONCRETE SLABS	N
MOBILE AUTO MART	N
MOBILE CO. PUBLIC TRANSPORTATION	Y
MOBILE HYDRAULIC SERVICE	N
MOBILE MARBLE	N
MODIFIED RUBBER INDUSTRIES	N

MOFFETT ROAD AUTO SALES	N
MOORE, PENDLETON GAINES	N
MORGAN, DOTHAN E	N
MORRIS AUTO SALES	N
MOSLEY, CARL F	N
MOSLEY, ENDORA	N
MOUNTS STUMP GRINDING	N
MURPHY OIL NO.6987	N
N & H CONSTRUCTION	N
NEAL'S CLEANING SERVICE	N
NEES, JULIAN CONSTRUCTION	N
NEESE, HERMAN L SR	N
NEW LOOK PAINT AND BODY	N
NEW MOBILE POWERWASHER, T	N
NEWBILL, W A ETAL	N
NITA'S CLEANING SERVICE	N
NORDAN CONTRACTING CO. INC.	Y
O B & J LAWN SERVICE	N
OCCIDENTAL CHEMICAL	Y
OGBURN,CHARLES B	N
OREILLY AUTO PARTS NO.1249	N
OTTO'S AUTO SERVICE	N
OUTBACK DETAIL SHOP	N
OUTBOARD MOTOR AND SALVAGE	N
OUTBOARD RECYCLE PARTS AND MARINE	N
OWENS CONSTRUCTION	N
P & J CONSTRUCTION	N
P M AUTO SALES	N
PACIFIC PEARLS	N
PALLADENO, PAUL F	N
PAMELA PERSONAL TOUCH JANITORIAL SE	N
PARADE GAS STATION	N
PARADE SUPER EXPRESS	N
PARMER CONTRACTING	N
PASCHALL TRUCK LINES INC.	Y
PATS LAWN	N
PAT'S PLUMBING	N
PEAVY CABINET SHOP	N
PEAVY CONSTRUCTION	N
PERINE, TOM	N
PERRY'S AUTOMOTIVE	Y
PETROLEUM INSTALLATION EQUIPMENT SV	N
PHILAW ASSOCIATES	N
PIERCE, BILL STRIPES ETC	N
PIERCE, FRANKLIN D	N
PINKARD, JOEL	N
PIONEER	Y
PIONEER CABINETS	N

PITTS, LILLIE BELL	N
PLEDGER REMODELING	N
PONQUINETTE LAWN SERVICE	N
POPE, R D CONTRACTING COMPANY	N
PORT CITY MARINE	N
PORT CITY PAINTBALL	N
PORTER RADIATOR SERVICE	Y
POYNOR, BRENDA	N
PRATER & PRATER	N
PRECISION CONSTITUTION	N
PRECISION PRESSURE WASHING	N
PRECISION TUNE AUTO CARE	N
PRECISION REMODELERS	N
PRIDE PAINTING INC	N
PRIME AUTOMOTIVE CENTER	N
PRINT & FRAME COMPANY	N
PRO SERVICE	N
QUALITY AUTO CENTER	N
QUALITY CARRIERS	Y
QUALITY CARRIERS	N
QUALITY MOTORS	N
QUIN-CO	N
R & K PORTABLE BUILDINGS	N
R & R CLEANING SERVICE	N
R & R MOTORS	N
R & W MUD LOGGING SERVICES	N
R AND R MOTORS	N
R D PHILLIPS CONSTRUCTION	N
R J JANITORIAL SERVICE	N
RADCLIFF AUTOMOTIVE	Y
RADCLIFF AUTOMOTIVE SERVICE CENTER	Y
RAIN FOR RENT	Y
RAINMAKER ENTERPRISES	N
RAINMAKER IRRIGATION	N
RALPH'S EXTERMINATING SERVICE	N
RAY LAWN CARE	N
RAY SAM SIDING	N
RED'S CONSTRUCTION	N
REED SERVICE	N
REGENCY MOTORS INTERNATIONAL WHOLES	N
RICHARD BULL PLUMBING	N
RICKY'S SMALL ENGINE REPAIR	N
RIGGINS LAWNMOWER AND REPAIR	N
RIVERS TILE	N
ROADWAY GAS	N
ROCKER PAINT AND BODY	N
RODNEY'S AUTO REPAIR	N
ROE ROBERTSON CONSTRUCTION COMPANY	N

ROGERS TRAILER SALES	N
ROYAL SIDING	N
RUDY'S CARS	N
RUSHING, ALLIE M	N
S & H AUTO SALES	N
S & L GENERAL CONTRACTOR	N
S & S CLEANING & LANDSCAPING	N
S K C	N
SAFETY-KLEEN	Y
SANSPREE ROGER	N
SAVANNAH SIDING	N
SCHILLINGER MOTORS	N
SCHULTZ, ELMER	N
SCOTT, BELGIUM ETAL	N
SEMMES AUTO PARTS	N
SEMMES AUTO SALES	N
SEMMES AUTOMOTIVE	Y
SEMMES MUFFLER	N
SEMMES SPARKLE CAR WASH	N
SEMMES TIRE	N
SHELL FOOD MART	N
SHELL FOOD MART	N
SHELL GAS	N
SHERMAN WILLIAMS PAINTS	N
SHONUFF CAR WASH	N
SHO-NUFF CLEAN MOBIL DETAIL & PRESS	N
SIKES, EARNEST CONSTRUCTION INC	N
SIMMONS BODY SHOP	N
SIMS, JOE M ETAL	N
SLATER, CHARLES	N
SMITH RACING SERVICE	N
SMITH, LINDA R	N
SMITH, PEGGY J	N
SMITHS SCRAP METAL AND RECYCLING	Y
SOUTHEASTERN CONCRETE	N
SOUTHERN AUTO SALES	N
SOUTHERN IRRIGATION	N
SOUTHERN QUALITY MOTORS	N
SOUTHERN STYLE HOMES	N
SOUTHERN TIRES	N
SOUTHERN TIRES	N
SPARKLE CLEANING	N
SPECIALTY CONSTRUCTION INC	N
SPECTRUM STORES - 116	N
SPECTRUM STORES - 119	N
SPEEDE MART	N
SPEEDY AUTO TRANSPORT	N
SPRAGGINS AUTO REPAIR	N

SPURLOCK SERVICES	N
STALLWORTH TRIM SHOP	N
STEPHENS AUTO SALES	N
STEPHENS, WILLIAM R	N
STIGALL, REGINA J	N
STOKES ROOFING	N
STOP AND SAVE	N
STORM RECONSTRUCTION SERVICES INC.	Y
STRINGER ASSOCIATES	N
SULLIVAN, FLORENCE	N
SUMERALL REMODELING	N
SYLVESTER,ALVIN ETAL	N
T & B DEVELOPERS INC	N
T & D	N
T & D USED CARS	N
T & G TILE COMPANY	N
T AND G CONSTRUCTION	N
T S JANITORIAL SERVICE	N
TECHNICAL RENOVATORS	N
TECHNIQUE AUTO SALES	N
TELEGRAPH ROAD AUTO REPAIR	N
TENNENT CONSTRUCTION CO	N
TETRA PERFORMANCE CHEM	N
TEXAS PIPE AND SUPPLY	N
THAMES, HENRY ETAL	N
THORNBURG TRUCKING & CONST INC	N
THORNTON AUTO SALES	N
TIMMONS MARION	N
TIMOTHY'S	N
TIRES 4 LESS	N
TODD HOMES	N
TOMS HOME REPAIR	N
TOP OF THE BAY LIMOUSINE	N
TRAWICK PLUMBING	N
TREST, DAVID CONSTRUCTION	N
TRIPLE CROWN CONSTRUCTION	N
TRIPP CONSTRUCTION	N
TUCKER AIR CONDITIONING	N
TURF MASTER LANDSCAPE	N
TURNER BROS CONSTRUCTION	N
TYUS, CAROL	N
U-HAUL	N
UNIVERSAL POWER WASHING	N
W E WEST CONSTRUCTION	N
W L M DISTRIBUTION	N
W T JERNIGAN CONSTRUCTION	N
WALLACE AUTO REPAIR	Y
WALLEY'S AUTO SALES INC	N

WALTERS AUTO BODY	N
WALTERS PAINT	N
WE DO IT ALL SMALL ENGINES	N
WEBB CONSTRUCTION	N
WES CONSTRUCTION	N
WEST MOBILE CUSTOMS	N
WEST SEPTIC TANKS & FIELDS LINES SERVICES	N
WHEAT'S AUTO SALES	N
WHISTLER MACHINE SHOP	Y
WHITWORTH CONSTRUCTION INC	N
WIESE, PAUL	N
WILKINSON BUILT HOMES	N
WILLIAMS POWER WASHING	N
WILLIAMS, WALTER C CONSTRUCTION	N
WILLIAMSON, D L SR	N
WILLINGHAM CRAFTS & WOODWORKS	N
WILTEW FABRICATION	N
WITHERSPOON GARDEN CENTER	N
WITHERSPOON LANDSCAPE & LAWN SERVICES	N
YOUNG'S TOWING	N
Z-BEST UPHOLSTERY	N

APPENDIX 3: REPORTED SANITARY SEWER OVERFLOWS

SSO Reports

and 02/07/2008

Reports Between 01/01/2005

County Name *Mobile*

Facility Name: PRICHARD CARLOS A MORRIS WWTP

Permit Number: AL0023205

FacilityType: Major

ADEM Area: Catrett

Caller	Caller Phone #	Oral Report Date and Time	Overflow Date and Time	Written Report Date	Volume SSO	Length of SSO	Location	Destination SSO	Cause	Corrective Actions Taken	Others Notified
Paul B. David	(251) 457-0229	1/14/2005 9:18 AM	1/13/2005	1/14/2005	300 gallons	under 2 hours	Haig St. @ Martin Luther King Dr.	Hogg Bayou	Grease plug in main	Cleaned and cleared grease in affected main (Faxed in)	
Paul B. David Superintende nt	(251) 457-0229	2/3/2005 12:45 PM	2/2/2005	2/3/2005	15,000 gallons	< 24 hours	Whistler and Patricia Streets	Gum Tree Branch	Excessive heavy rains	Continue to identify and fix infiltration and inflow locations. SSO or leak upstream of treatment plant headwork's in collection system. Manhole-Rain diluted wastewater	
Paul B. David Superintende nt	(251) 457-0229	2/3/2005 12:46 PM	2/2/2005	2/3/2005	20,000 gallons	< 24 hours	Midway down Wasson	Gum Tree Branch	Heavy Rains	Continue to identify and repair areas of infiltration and inflow Manhole Storm water authority was notified	
Paul B. David Superintende nt	(251) 457-0229	2/3/2005 12:46 PM	2/2/2005	2/3/2005	5,000 gallons	< 24 hours	Wood Street at Craft Hwy (MLK)	Hogg Bayou	Heavy Rains	Continue to identify and fix infiltration and inflow locations Manhole (Faxed in)	
Paul B. David Superintende nt	(251) 457-0229	2/3/2005 12:46 PM	2/2/2005	2/3/2005	8,000 gallons	< 24 hours	Prichard Lane at Newsome Ave.	Toulmins Springs Branch	Heavy Rain	Continue to identify and fix areas of inflow and infiltration Manhole (Faxed in)	
			4/1/2005		15,000 gal	<24 Hr	Whistler & Patricia St	Gum Tree Branch	Heavy Rains	Continue to identify and fix I & I locations	
			4/1/2005		5,000 gal	<24 Hrs	Wood St @ Craft	Hogg Bayou	Heavy Rains	Continue to identify and fix I & I	

4/1/2005	20,000 gal	<24 Hrs	Hwy (MLK) Midway down Wasson	Gum Tree Branch	Heavy Rain	Continue to identify repair areas of I & I.
4/1/2005	8,000 gal	<24 Hrs	Prichard Lane @ Newsome Ave	Toulmins Springs Branch	Heavy Rains	Continue to identify and fix areas of I & I
4/2/2005 2 :00 PM	unknown		Wood St at Craft Hwy	Hogg Bayou	heavy rains	continue to identify repair areas of infiltration and inflow
4/2/2005 2 :00 PM	unknown	ongoing		toulmins springs branch	heavy rains	continue to identify and fix areas on inflow and infiltration
4/2/2005 2 :00 PM	unknown	24 hr	midway down wasson	gum tree branch	heavy rains	continue to identify repair areas of infiltration and inflow
4/2/2005 2 :00 PM	unknown	24 hr	Wood St at Craft Hwy	Hogg Bayou	heavy rains	continue to identify repair areas of infiltration and inflow
4/6/2005	6000 gal	24	823 College St	Toulmins Springs Branch	Heavy Rain	identify repairs areas of infiltration
4/6/2005	5000 gal	24	Wood St @ Craft Hwy	Hogg Bayou	Heavy Rain	identify repairs areas of infiltration
4/6/2005	8000 gal	24	Prichard Lane	Toulmins Springs Branch	Heavy Rain	identify repairs areas of infiltration
4/12/2005 9 :00 AM	1000 gal	8 hrs	Prichard Lane at Newsome Ave	Toulmins Springs Branch	Heavy Rain	Scheduled videoing and cleaning to identify any cross connection and remove grease blockage
4/27/2005	2000 gal	2 hr	velma and west highland	toulmins springs branch	pump failure at lift station	restore pumping availability
4/30/2005	5000 gal	6 hr	whistler and patricia st	gum tree branch	heavy rain	continue to identify inflow locations
4/30/2005	3000 gal	6 hr	prichard lane	toulmins springs branch	heavy rain	continue to identify inflow locations

Bill	5/31/2005	5/31/2005	800 gallons	on going		Gum Tree Branch	Heavyrain	on going
	3 :06 PM	12:30 PM						
		6/10/2005	300 gal	4 hr	miday along semler ave	hogg bayou	grease blockage	Cleaned lines
		6/11/2005	15000 gal	<30 hr	whistler and patricia st	gum tree branch	heavy rains	continue to identify and fix infiltration
		7/6/2005	5000 gal	4 hr	velma and west highland	toulmins springs branch	pump failure at lift station due to power outage at lift station	restored pumping availability
		7/6/2005	5000 gal	4 hr	wood st at craft hwy	hogg bayou	pump failure at lift station due to power outage at lift station	restored pumping availability
		7/6/2005	8000 gal	4 hr	whistler and patricia st	gum tree branch	haivy rain	inflow rehab
		7/6/2005	10000 gal	4 hr	midway down wasson	gum tree branch	haivy rain	infill inflow rehab
		7/6/2005	300 gal	4 hr	midway along semler ave	hogg bayou	grease blockage	cleaned lines
		7/10/2005	20,000 gal	8 hr	wasson	gum tree branch	heavy rain	identify infiltration
		7/10/2005	3,000 gal	10 hr	prichard lane at newsome ave	toulmins springs branch	heavy rain	identify infiltration
		7/10/2005	10,000 gal	18 hr	wood st at graft hwy	hogg bayou	heavy rain	identify infiltration
		7/10/2005	5,000 gal	8 hr	whistler and patricia st	gum tree branch	heavy rain	identify infiltration
		7/15/2005	5,000 gal	8 hr	whistler and patricia st	gum tree branch	heavy rain	identify infiltration

	7/15/2005	8,000 gal	6 hr	wasson	gum tree branch	heavy rain	identify infiltration
	7/15/2005	3,000 gal	8 hr	wood st at craft hwy	hogg bayou	heavy rain	identify infiltration
	7/15/2005	10,000 gal	8 hr	wasson	gum tree branch	heavy rain	identify infiltration
	8/4/2005	10000 gal	8 hr	midway down whatley st	gum tree branch	heavy rain	fix infiltration
	8/4/2005	2000 gal	6 hr	prichard lane	toulmins springs branch	heavy rain	fix infiltration
	8/4/2005	5000 gal	8 hr	whistler st	gum tree branch	heavy rain	fix infiltration
	8/4/2005	2000 gal	8 hr	wood st	hogg bayou	heavy rain	fix infiltration
8/30/2005 5 :33 PM	8/30/2005	15000 gallons	3 hrs		3 mile creek	Power Outage	Restore power
	8/31/2005	10000 gal	24 hr	velma and west highland	toulmins springs branch	hurricane katrina	bypassed pumps
	8/31/2005	15000 gal	8 hr	pershing st	hogg bayou	hurricane katrina	bypassed pumps
	9/25/2005	5000 gal	18 hr	wood st	hogg bayou	heavy rains	fix infiltration
	9/25/2005	10000 gal	18 hr	whistler and partricia st	gum tree branch	heavy rains	fix infiltration
	9/25/2005	5000 gal	10 hr	prichard lane	tolmins springs branch	heavy rains	fix infiltration

9/25/2005	2000 gal	18 hr	whathley st	gum tree branch	heavy rains	fix infiltration
2/25/2006	4,000 gallons	6 hours	Whistler & Patricia Streets	Gum Tree Branch		Continue to identify and fix Infiltration & Inflow locations.
8/7/2006	less than 500 gal	Unknown	LS@1st Ave & Haunes	Toulmins Spring Branch	Vandalism of control panel at Lift Station	Re-established power to the lift station.
8/21/2006	under 1500 gal	unknown	Near Intersection of Leeds Ave & Persons St	Toulmins Spring Branch	Grease plug in main.	Cleaned grease from mains in the area.
9/19/2006	100 gallons	<1 hour	Velma & West Highland	Toulmins Spring Branch	Lightning strike at Lift Station	Power restored by resetting breakers
11/15/2006	8,000 gallons	8 hours	1st Ave & Haines @manhole @ LS	Toulmins Spring Branch	Heavy rains	Continue to identify and fix Infiltration & Inflow locations
11/15/2006	2,000 gallons	8 hours	Wood St @ Craft Hwy (MLK)	Hogg Bayou	Heavy rains	Continue to identify and fix Infiltration & Inflow locations
11/15/2006	25,000 gallons	8 hours	Whistler & Patricia Streets	Gum Tree Branch	Heavy rain	Continue to identify and fix Infiltration & Inflow locations
1/23/2007	15,000 gallons	12 hours	Whistler & Patricia Streets	Gum Tree Branch	Heavy rains	Continue to identify and fix infiltration & Inflow locations
6/13/2007	under 500 gallons	<2 hours	Ditch @ Graves & Haynes	Toulmins Spring Branch	Control panel disabled due to electrical outage	Re-established power to the lift station, re-set control panel.
6/20/2007	1,000 gallons	<15 minutes	Carlos Morris WWTP	Three Mile Creek	Chain securing gate of temporary de-gritter broke causing sewage to leak out.	Discharge was immediately vacuumed up and area was disinfected. Replaced chain and re-secured gate of degritter box.
7/3/2007	8000 gallons	<4 hours	Whistler & Patricia Streets	Gum Tree Branch	Heavy rains	Continue to identify and fix infiltration & inflow locations
7/25/2007	500 gallons	< 2 hours	Ditch @ Grant & Haynes	Toulmins Spring Branch	Control panel disabled due to electrical outage	Re-established power to the lift station, re-set control panel.

	8/1/2007	8000 gallons	4 hours	Whistler & Patricia Streets	Gum Tree Branch	Lightning strike at Morris WWTF	Re-established power at Morris WWTF	
	8/1/2007	1000 gallons	2 hours	West Highland	Toulmins Springs Branch	Lightning strike at Morris WWTF	Re-established power to Morris WWTF	
	8/1/2007	3000 gallons	15 minutes	Carlos Morris WWTF	Three Mile Creek	Lightning strike damaged control panel at intermediate lift station	Upon re-establishing power, intermediate pumps placed in manual mode	
	8/1/2007	2000 gallons	2 hours	Lift Station @ 1st Ave & Owens	Toulmins Spring Branch	Electrical Power outage at lift station	Reestablished power to the lift station	
	8/1/2007	2000 gallons	2Hours	Lift Station @ 1st Ave & Haines	Toulmins Spring Branch	Lightning Strike at Lift Station	Reestablished power to lift station	
	8/1/2007	2000 gallons	2 hours	Wood St @ Craft Hwy (MLK)	Hogg Bayou	Electrical power outage at lift station due to storms	Re-established power to lift station	
8/24/2007 12:25 PM	8/24/2007	500 gal	25 minutes	West Highland Ave LS	Toulmin Springs Branch	Discharge hose on bypass pump separated.	Repaired discharge hose	
8/29/2007 10:30 AM	8/29/2007	400 gal	20 minutes	West Highland @ Velma St.	Toulmin Springs Branch	Floats on bypass pump was penned down	Freed up floats	
	9/11/2007	1000 gal	2 hrs	Velma & West Highland	Toulmins Springs Branch	Suction line failure of pump at lift station	Identified pipe failure, replace line and restored pumping availability.	
	10/8/2007	1000 gallons	< 4 hrs.	Miday along Semler Ave	Hogg Bayou	Grease Blockage	Cleaned lines and cleared grease and debris blocking line.	
	10/22/2007	33k gal	7.5 hrs	Whistler & Patricia Streets	Gum Tree Branch	heavy rain	identify & repair infiltration and inflow locations	
	11/4/2007	1500 gal	under 2 hrs	Velma & W Highland	Toulmin Springs Branch	vandalism of pumps at lift station	identified fault & restored pumping availability	
Bill Swopes	11/26/2007	2000 gal	less than 4 hrs	Velma at West Highland Avenue	Toulmin Springs Branch	pumps failed at West Highland Lift Station	install bypass pumps	storm water authority

12/30/2007	16,000 gallons	less than 8 hours	Whistler and Patricia Streets	Gum Tree Branch	heavy rains	continue to identify and repair I&I sources	
1/19/2008	6000	less than 4 hours	Whistler and Patricia Streets	Gum Tree Branch	heavy rains	continue to identify and repair I&I sources	storm water authority
1/28/2008	1000 gallons	less than 4 hours	Midway along Semler Ave.	Hog Bayou	grease blockage		storm water authority
1/30/2008	500 gallons	less than 1 hour	Velma and West Highland	Toulmins Springs Branch	power surge damaged electrical controls	identified fault and restored pumping availability	
2/1/2008	8,000 gallons	less than 6 hours	Whistler & Patricia Streets	Gum Tree Branch	heavy rains	continue to identify and repair I&I sources	

SSO Reports

and 01/01/2008

Reports Between 01/01/2005

County Name *Mobile*

Facility Name: WRIGHT SMITH JR. WWTP

Permit Number: AL0023094

FacilityType: Major

ADEM Area: Catrett

Caller	Caller Phone #	Oral Report Date and Time	Overflow Date and Time	Written Report Date	Volume SSO	Length of SSO	Location	Destination SSO	Cause	Corrective Actions Taken	Others Notified
		1/20/2005 8 :02 AM	1/19/2005 4 :44 PM	1/20/2005	8500 gallons	1.5 hours	1750 Cody Rd N	Clear creek	Break in the force main; main line	The overflow entered the receiving water from open ditch. Point repair (Faxed in)	Moblie County Health Dept.
		2/15/2005	2/15/2005	2/16/2005	120 gal	0.75 hr	465 Prospect Dr.	Threemile Creek	Blockage (grease), also debris	Place on Cleaning Cycle 1. (Fax 2/15/05 & 2/16/05)	
			3/21/2005		1395 Gal	7.75 hrs	2051 Bragg Ave.	Three Mile Creek	Blockage (Grease)	Place on Cleaning Cycle 1	
			3/23/2005		6300 gal	3 hours	1407 Morlee Dr. W.	Eightmile Creek	Blockage (Grease)	Place on Cleaning Cycle 1	
		4/1/2005		4/6/2005	3600 gal	24	bizzel ave	three mile creek	heavy rain	inflow rehab in area	
		4/1/2005		4/6/2005	27000 gal	24	mcvay and navco rd	bolton branch	heavy rain	inflow rehab in area	
		4/1/2005		4/6/2005	8400 gal	24	462 ridge dr	three mile creek	heavy rain	inflow rehab in area	
		4/1/2005		4/6/2005	8400 gal	24	467 ridge dr	three mile creek	heavy rain	inflow rehab in area	
		4/1/2005		4/6/2005	3600 gal	24	siena vista dr	three mile creek	heavy rain	inflow rehab in area	

4/1/2005	4/6/2005	18000 gal	24	mill and mckinney	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	3600 gal	24	lourdes circle	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	3600 gal	24	goodwill ave	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	7200 gal	24	lake dr tridentennial	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	12000 gal	24	2914 berkley ave	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	3600 gal	24	mcvay and navco	bolton branch	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	36000 gal	24	1452 navco rd	bolton branch	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	7200 gal	24	tridentennial park	three mile creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	3600 gal	24	gulffield dr	robinson bayou	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	3600 gal	24	4151 bayfront rd	perch creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	18000 gal	24	4137 morehaven	perch creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	1800 gal	24	880 abilene dr	perch creek	heavy rain	inflow rehab in area
4/1/2005	4/6/2005	8400 gal	24	466 ridge rd	three mile creek	heavy rain	inflow rehab in area
4/6/2005		14000 Gal	8	Mcvay Dr	Bolton Branch	haivy rain	conduct inflow rehab
4/7/2005		12000 Gal	8	1901 Old Shell Rd	Three Mile	haivy rain	conduct inflow rehab

				Creek			
4/7/2005		600 Gal	2	2668 Mill St	Three Mile Creek	haivy rain	conduct inflow rehab
4/7/2005		9600 Gal	2	1100 Gimmon Cir	Eslava Creek	haivy rain	conduct inflow rehab
4/7/2005		13200 Gal	11	766 Johnston Ave	Eslava Creek	haivy rain	conduct inflow rehab
4/7/2005		19000 Gal	12	Contidemouy	Eslava Creek	haivy rain	conduct inflow rehab
4/7/2005		24000 Gal	8	Mcvay Dr	Bolton Branch	haivy rain	conduct inflow rehab
4/12/2005 8 :00 AM		1200 gal	4 hr	Conti St. at Demouy AVE	Eslava Creek	Infil/inflow	Conduct inflow/infil rehab in area
4/12/2005 8 :00 AM		1025 gal	4 hrs	Laurel St. @ Davitt	Eslava Creek	infil/inflow	Conduct inflow/infil rehab in area
4/12/2005 8 :00 AM		1200		Cont. St at Demouy AVE	Eslava Creek	Heavy Rain	Infil/inflow
4/17/2005	5/5/2005	3850 gal	13.5 hr	ridge rd	three mile creek	inflow	conduct inflow rehab in area
4/17/2005	5/5/2005	16200 gal	13.5 hr	462 ridge rd	three mile creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	10500 gal	9 hr	laurel st and davitt	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	12800 gal	5.5 hr	3975 demetropolis rd	moore creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	6600 gal	2.5 hr	broad st at I 10	eslava creek	inflow	conduct inflow rehab in area

4/30/2005	5/5/2005	3100 gal	5.5 hr	1710 gulffield dr	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	2475 gal	2.5 hr	1908 kentwood ln	dog creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	11250 gal	6.5 hr	1901 old shell rd	three mile creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	16100 gal	7.5 hr	mohawk and elizabeth	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	11500 gal	9.5 hr	muray st and demouy av	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	3000 gal	2.5 hr	316 siena vista dr	three mile creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	20400 gal	8.5 hr	4200 riverie du chien rd	moore creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	15000 gal	10 hr	5255 maudelayne dr	spring creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	22575 gal	10.5 hr	1100 gimon cir	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	16050 gal	9 hr	navco rd at mcvey	Bolton creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	550 gal	1.75 hr	202 monterey st	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	2625 gal	9 hr	laurel st and davitt av	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	19600 gal	9 hr	conti st and demouy av	eslava creek	inflow	conduct inflow rehab in area
4/30/2005	5/5/2005	1400 gal	2.5 hr	catherine st and farmer st	eslava creek	inflow	conduct inflow rehab in area

5/12/2005	4630 gal	3.5 hr	2463 cone st.	three mile creek	grease in line	place on cleaning cycle
5/19/2005	400 gal	1 hr	1956 St. stephens rd	three mile creek	Grease Blockage	Place on Cleaning Cycle
6/3/2005	4800 gal	1.25 hr	1900 shilinger rd	clear creek	grease blockage	place on cleaning cycle
6/6/2005	2700 gal	3 hr	6029 scottsdale dr	eightmile creek	grease blockage	place on cleaning cycle
6/9/2005	3600 gal	1 hr	6816 garden ridge	mill house branch creek	grease blockage	cleaned lines
6/27/2005	120 gal		springhill ave and providence st	three mile creek	Grease blockage	placed on cleaning cycle
7/6/2005	300 gal	1 hr	conti/demouy intersection	eslava creek	heavy rain	conduct inflow rehab
7/6/2005	300 gal	1 hr	laurel and davitt	eslava creek	heavy rain	conduct inflow rehab
7/6/2005	3750 gal	6.25 hr	462 ridge rd	three mile creek	heavy rain	conduct inflow rehab
7/6/2005	800 gal	2.75 hr	ridge rd s	three mile creek	heavy rain	conduct inflow rehab
7/6/2005	3750 gal	2 hr	316 siena vista	three mile creek	heavy rain	conduct inflow rehab
7/9/2005	1200 gal	2 hr	laurel and davitt	eslava creek	rain event	inflow rehab in area
7/9/2005	900 gal	1.5 hr	conti and demouy	eslava creek	rain event	inflow rehab in area
7/12/2005	2400 gal	3.75 hr	1660 laurel ave	eslava creek	Heavy Rain	Conduct inflow rehab

7/12/2005		3000 gal	5 hr	462 ridge rd	three mile creek	Heavy Rain	Conduct inflow rehab
7/12/2005		2550 gal	4.25 hr	63 demouy ave	eslava creek	Heavy Rain	Conduct inflow rehab
7/14/2005		4800 gal	4 hr	laurel st and davitt ave	eslava creek	rain event	inflow rehab in area
7/14/2005		4200 gal	3.5 hr	murray st and demoy	eslava creek	rain event	inflow rehab in area
7/14/2005		5400 gal	4.5 hr	conti and demouy	eslava creek	rain event	inflow rehab in area
7/14/2005		2450 gal	2.5 hr	462 ridge rd	three mile creek	rain event	inflow rehab in area
7/15/2005		8100 gal	9 hr	462 ridge rd	three mile creek	rain event	inflow rehab in area
7/15/2005		4800 gal	4 hr	conti st and domouy ave	eslava creek	rain event	inflow rehab in area
7/15/2005		4800 gal	4 hr	laurel st and davitt st	eslava creek	rain event	inflow rehab in area
7/15/2005		240 gal	2 hr	93 sidney phillips rd	three mile creek	rain event	inflow rehab in area
7/16/2005		8100 gal	2 hr	462 ridge rd	three mile creek	heavy rain	inflow rehab in area
8/8/2005		200 gal	.25 hr	wolfridge rd and beau terra dr	eightmile creek	break	point repair
8/20/2005		200 gal	1.25 hr	328 vanderbilt	twelve mile creek	blockage grease	placed on cleaning cycle
8/25/2005	9/9/2005	2400 gal	1 hr	laurel & davitt	elsava creek	rain event	inflow rehab

8/25/2005	9/9/2005	12000 gal	2 hr	conti & demouy	elsava creek	rain event	inflow rehab
8/25/2005	9/9/2005	2500 gal	.75 hr	laurel & davitt	elsava creek	rain event	inflow rehab
8/25/2005	9/9/2005	250 gal	.75 hr	laurel & davitt	elsava creek	rain event	inflow rehab
8/29/2005	9/9/2005	2,000,000 gal	12 hr	treatment plant	three mile creek	hurricane katrina power outage	rehab area
8/30/2005	9/9/2005	600 gal	.5 hr	1801 princeton woods dr	eightmile creek	hurricane katrina	lift station repair
8/31/2005	9/9/2005	600 gal	1 hr	conti and demouy	eslava creek	rain event	rehab area
8/31/2005	9/9/2005	150 gal	3.75 hr	5805 spyglass	eightmile creek	3rd party malfunction of customers private lift statioi	rehab area
8/31/2005	9/9/2005	45900 gal	25.5 hr	7100 cody rd	clear creek	hurricane katrina	lift station repair
8/31/2005	9/9/2005	1800 gal	4 hr	462 ridge rd	three mile creek	inflow	rehab area
9/21/2005		2050 gal	3.5 hr	1728 princeton woods	eightmile creek	blockage sand	place on cleaning cycle
9/25/2005		7500 gal	2.5 hr	conti st/demouy av	eslava creek	infil inflow	infil rehab in area
9/25/2005		2800 gal	2.5 hr	ridge rd	three mile creek	infil inflow	infil rehab in area
9/25/2005		750 gal	2.5 hr	laurel st	eslava creek	infil inflow	infil rehab in area
10/14/2005		4500 gal	4 hr	607 petit ave	three mile creek	blockage grease	place on cleaning cycle

11/3/2005	225 gal	1.25 hr	1517 chesterfield dr	three mile creek	blockage grease	placed on cleaning cycle	
11/10/2005	1260 gal	7 hr	359 N. lafayette st	three mile creek	break	point repair	
11/12/2005	540 gal		419 lexington ave	three mile creek	third party		
11/22/2005	1200 gal		2000 sentor st	contained	possibly a main break or grease	point repair and placed on cleaning cycle	
12/3/2005	2400 gallons	2 hours	240 Suffolk Road	Twelve Mile Creek	Blockage of grease in the line		
12/7/2005	60 gallons	0.25 hours	2304 Tonlours Dr.	Three Mile Creek	Blockage(grease). Grease in mainline.	Place on cleaning cycle 1.	
12/13/2005	660 gallons	22hours	1900 Holt Rd	Three Mile Creek	Mainline Break	Point Repair	Stormwater Authority
12/14/2005	450 gallons		650 Dr. Thomas Ave.	Three Mile Creek	Blockage - grease	Line will be cleaned and video to determine if repairs need to be made. Line will be put on routine maintenance schedule.	
12/15/2005	945 gallons		613 Whitney St.	Three Mile Creek	A line break.		
1/19/2006	3000 gal	2.5 hr	860 memory lane	threemile creek	blockage (grease)	Placed on cleaning cycle	
2/22/2006	148 gallons	1.25 hours	4014 Moffett Ct.	Three Mile Creek	Grease Blockage. Grease in mainline.	MAWSS crews have cleared the blockage and are taking steps to prevent future overflows at this location.	
2/23/2006	1100 gallons	1.75 hours	901 Dr. Thomas Ave.	Three Mile Creek	Blockage (Grease). Grease in mainline - Broken between MH033-032.	Place on Cleaning Cycle 1.	
2/25/2006	475 gallons		DeMorey Ave &		Heavy Rains		

Murray St							
2/25/2006	475 gallons	1.5 hours	65 Monterey St.	Three Mile Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	63,000 gallons	3.5 hours	Conti St & DeMorey Ave	Eslava Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	500 gallons	1 hour	Laurell St & Davitt St	Three Mile Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	600 gallons	2 hours	Laurel St & Davitt St	Three Mile Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	750 gallons	1 hour	Laurel St & Davitt St	Three Mile Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	50 gallons	3 hours	1721 Springhill Ave	Three Mile Creek	Heavy Rains - Infil/Inflow	Conduct Inflow/Infil Rehab in area.	
2/25/2006	300 gallons		Mohawk St & Elizabeth St	Eslava Creek	Heavy Rains		
3/1/2006	960 gallons	8 hours	1621 Springhill Ave	Three Mile Creek	Break. 6" Iron Pipe Leaking in ditch.	MAWSS Crews made repair on 3/2/06. Point Repair.	
3/1/2006	300 gallons	0.5 hours	3600 Springhill Business Park	Montlimar Creek	Lift Station Failure. 3rd Party-Hughes Plumbing (Preston Hughes) - Bypass Pump Failed.	Lift Station Repair and Maintenance.	
3/1/2006	900 gallons	6 hours	6400 Willowbrook Run East	Twelve Mile Creek	Break - Telephone Contractor bored through mainline causing stoppage.	Point Repair	
3/13/2006	200 gallons	1 hour	309 Simington Dr.	Three Mile Creek	Blockage (Debris). 3rd Party - Debris in line - Overflow belongs to Mobile Housing Board.		

3/16/2006	100 gallons	0.75 hours	309 Simington Dr.	Three Mile Creek	Blockage (Grease). 3rd Party - Grease in customers lateral.	
3/21/2006	1000 gallons	1 hour	7260 Lime Court (Off Cody Road)	Clear Creek	Break - FM Break	Point Repair
3/22/2006	1500 gallons	1 hour	9380 Nursery Road	Crooked Creek	Break - Force Main Break	Point Repair
3/29/2006	90 gallons	1.5 hours	305 Simington Dr.	Three Mile Creek	Blockage (grease).	Place on cleaning cycle 1.
3/31/2006	120 gallons	1 hour	534 Belsaw Ave.	Three Mile Creek	Blockage (grease). Grease Blockage.	Place on cleaning cycle 1.
4/13/2006	700 gallons	1 hour	2804 Exter Dr.	Eslava Creek	Break. Mainline Break - Grease blockage exited through mainline break.	Point Repair.
4/30/2006	2,400 gallons	4 hours	Laurel & Davitt St.	Eslava Creek	Infil/Inflow. Heavy rain	Conduct Infil/Inflow rehab in area.
4/30/2006	30,500 gallons	5 hours	Conti & Demouy	Eslava Creek	Infil/Inflow. Heavy rain.	Conduct Infil/Inflow rehab in area.
5/1/2006	900 gallons	1.5 hours	309 Simington Dr.	Three Mile Creek	Blockage (grease).	Place on cleaning cycle 1.
5/1/2006	1650 gallons	2.75 hours	3289 Franklin Court	Eightmile Creek	Break - FM break.	Point Repair
5/5/2006	120 gallons	2 hours	60 Fearnway Dr.	Three Mile Creek	Blockage (roots). Roots in segment.	Place on cleaning cycle 1.
5/8/2006	216 gallons	1 hour	1569 Homestead Dr.	Hamilton Creek	Blockage (debris).	Place on cleaning cycle 1.
5/11/2006	45 gallons	0.75 hours	61 Silverwood St.	Three Mile Creek	Blockage (roots). Roots in seg - also break on the mainline.	Place on cleaning cycle 1.

5/16/2006	2400 gallons	2 hours	3800 Wulff Rd.	Crooked Creek	Break - Broken Force Main	Point Repair
5/22/2006	800 gallons	1.5 hours	1001 Balthrop St.	Three Mile Creek	Blockage (Grease).	Place Cleaning Cycle 1.
5/25/2006	90 gallons	1.5 hours	1000 Woodside Drive	Threemile Creek	Blockage (Grease)	Place on Cleaning Cycle 1.
5/27/2006	375 gallons	1.25 hours	812 Richmond Rd.	Threemile Creek	Blockage (grease). Roots also in segment.	Place on cleaning cycle 1.
5/30/2006	120 gallons	2 hours	561 Reynolds Ave	Threemile Creek	Blockage (grease).	Place on cleaning cycle 1.
5/31/2006	3600 gallons	3 hours	5927 Westhaven Dr. S	Threemile Creek	Blockage (grease). Possible break on mainline.	Place on cleaning cycle 1.
6/6/2006	2400 gallons	7 hours	453 Lovett Rd	Threemile Creek	Blockage (grease)	Place on cleaning cycle 1
6/6/2006	1900 gallons	3.25 hours	1 Country Lane@rear - Colony Apts	Twelve Mile Creek	Blockage (grease)	Place on cleaning cycle 1.
6/7/2006	675 gallons	0.75 hours	453 Lovett Rd	Threemile Creek	Break. 3rd party-plug was removed by contractor (Sunbelt CLS)	Point repair
7/23/2006	300 gallons	1 hour	655 Ridgefield Road	Three Mile Creek	Blockage (grease).	Place on cleaning cycle 1.
7/31/2006	120 gallons	2 hours	4453 Old Shell Road	Three Mile Creek	Blockage (grease)	Place on cleaning cycle 1.
8/8/2006	450 gals	0.5 hours	Laurel & Davitt	Eslava Creek	Infil/Inflow. Heavy rain event.	Conduct infil/inflow rehab in area.
8/8/2006	600 gals	0.5 hours	Hannon Ave @ McGill Ave	Eslava Creek	Infil/Inflow. Heavy rain event.	Conduct infil/inflow rehab in area.

8/8/2006	450 gals	0.5 hours	Laurel & Davitt	Eslava Creek	Infil/Inflow. Heavy rain event.	Conduct infil/inflow rehab in area.
8/8/2006	3000 gallons	1 hour	Conti & Demouy	Eslava Creek	Infil/Inflow. Heavy rain event.	Conduct infil/inflow rehab in area.
8/9/2006	225 gallons	0.75 hours	Laurel St & Davitt St	Eslava Creek	Infil/Inflow. Rain event.	Conduct infil/inflow rehab in area.
8/9/2006	225 gallons		Laurel St & Davitt St	Eslava Creek	Infil/Inflow. Rain event.	Conduct infil/inflow rehab in area.
8/9/2006	225 gallons		Laurel St & Davitt St	Eslava Creek	Infil/Inflow. Rain event.	Conduct infil/inflow rehab in area.
8/9/2006	6000 gals		Conti St & Demouy Ave	Eslava Creek	Infil/Inflow. Rain event.	Conduct infil/inflow rehab in area.
8/9/2006	40 gallons	0.75 hours	1564 Dauphin Street	Three Mile Creek	Blockage (roots)	Place on cleaning cycle 1.
8/15/2006	450 gals	0.5 hours	Laurel & Davitt	Eslava Creek	Infil/Inflow. Heavy rain event.	Conduct infil/inflow rehab in area.
9/28/2006	600 gallons	1 hour	7700 Moffett Rd	Eightmile Creek	Break - FM Break	Point Repair
10/3/2006	1,000+ gallons		2108 Barretts Ln	Three Mile Creek	Roots and line break	
10/3/2006	1000 gallons	2.25 hours	2108 Barretts Lane	Three Mile Creek	Break - FM Break	Point Repair
10/9/2006	120 gallons	2 hours	4600 Springhill Ave	Three Mile Creek	Blockage (grease)	Place on cleaning cycle 1
10/11/2006	1000 gallons	1.25 hours	2109 O'Connor St	did not reach US waters	Blockage (grease). Grease in line	Place on ceaning cycle 1

10/17/2006	2375 gallons	1.5 hours	Laurel St @ Davitt	Eslava Creek	Infil/Inflow. Overtapped w/rainwater	Conduct Inflow/Infil rehab in area.
10/17/2006	5000 gallons	1.75 hours	Conti St & Demouy Ave	Eslava Creek	Infil/Inflow. Overtapped w/rainwater	Conduct inflow/infil rehab in area
10/17/2006	2125 gallons	1.5 hours	Laurel St @ Davitt	Eslava Creek	Infil/Inflow. Overtapped w/Rainwater	Conduct Inflow/Infil rehab in area
10/17/2006	1150 gallons	1.5 hours	Laurel St @ Davitt	Eslava Creek	Infil/Inflow. Overtapped w/rainwater	Conduct inflow/infil rehab in area
10/24/2006	60 gallons	0.5 hours	90 Springdale Blvd	Eslava Creek	Blockage (grease). Grease - Heavy	Place on Cleaning Cycle 1
11/6/2006	5375 gallons	3.5 hours	Laurel & Davitt	Eslava Creek	Infil/Inflow. Rain event	Conduct infil/inflow rehab in area
11/6/2006	5000 gallons	3.25 hours	Laurel & Davitt	Eslava Creek	Infil/Inflow	Conduct infil/inflow rehab in area
11/6/2006	10250 gallons	3.5 hours	Conti & Demouy	Eslava Creek	Infil/Inflow. Rain event	Conduct infil/inflow rehab in area
11/15/2006	8500 gallons	5.75 hours	Laurel & Davitt St	Eslava Creek	Infil/Inflow. Heavy rain	Conduct Infil/Inflow rehab in area
11/15/2006	8750 gallons	4.25 hours	Laurel & Davitt St	Eslava Creek	Infil/Inflow. Rain event	Conduct infil/inflow rehab in area
11/15/2006	37,500 gallons	4.25 hours	Conti St & Demouy Av	Eslava Creek	Infil/Inflow. Rain event	Conduct infil/inflow rehab in area
11/15/2006	14,000 gallons	4.75 hours	Laurel & Davitt St	Eslava Creek	Infil/Inflow. Heavy rain	Conduct infil/inflow rehab in area
11/17/2006	60 gallons		4130 Blackwell Dr	Red Creek		

11/17/2006	Unknown			Cody Rd N(dead end) @ QMS LS	Clear Creek	Evidence found on site believed to be a result of the rain event on 11-15-06. Infil/Inflow (received second fax on 11-21-06 stating the same reason)	Conduct infil/inflow rehab in area
11/19/2006	240 gallons			600 Heaman Drive	Three Mile Creek		
11/27/2006	2100 gallons	2.25 hours		3201 Franklin Ct	Eightmile Creek	Break - FM Break	Point repair
11/30/2006	720 gallons	6 hours		1155 Anders Dr	Three Mile Creek	mainline stopped up (Blockage - roots; heavy roots in mainline)	Place on cleaning cycle 1
1/11/2007	375 gallons	1.25 hours		4174 Benson Dr	Three Mile Creek	Blockage (grease)	Place on cleaning cycle 1
1/22/2007	26,250 gal	3 hours		100 Demouy Av/Conti St	Eslava Creek	Infil/Inflow - Steady rain over 24-hour period caused MH to surcharge	Conduct Infil/Inflow rehab in area
1/22/2007	3000 gal	3.5 hours		1657 Laurel St/Davitt St	Eslava Creek	Infil/Inflow - Steady rain over 24-hour period caused MH to surcharge	Conduct Infil/Inflow rehab in area
2/7/2007	300 gallons	1 hour		3200 Franklin Ct	Eightmile Creek	Break - 3rd party-FM Break	Point Repair
2/10/2007	230 gallons	1.75 hrs		4161 ursuline dr	3 mile creek	blockage (grease), other fax says mainline break	place on cleaning cycle 1
2/15/2007	350 gallons	45 minutes		2801 Shell Street (manhole)	Three Mile Creek	grease (blockage)	placed on cleaning cycle 1
2/18/2007	95 gallons	1.5 hours		663 Petit Ave	Three Mile Creek	Break	Point Repair

2/25/2007	2/26/2007	1,980 gallons	2 hrs	6871 Airport Blvd	Twelve Mile Creek	Blockage (grease)	MAWSS crews have cleared the blockage and are taking steps to prevent future overflows at this location. Placed on cleaning cycle 1
3/3/2007		90 gallons	0.5 hours	1915 Oak Knoll Dr	Three Mile Creek	Break. Break and Blockage on mainline	Point Repair
3/19/2007		600 gallons		Franklin Ct. Lot 25	Red Creek	Force main broken by Contractor	
3/30/2007		6,000 gallons	122 hrs	Macy Place between Gov't Blvd & Dauphin St	Three Mile Creek/Eslava Creek	leaking public laterals	point repair (date of SSO orig reported as 4/4/07 but traced back as ongoing since 3/30/07--see length of occurrence at 122 hrs)
4/2/2007		100 gallons	0.25 hours	3800 Illinois St	Eightmile Creek	Break. Force Main Break.	Point Repair
6/19/2007		450 gallons	1.5 hours	Laurel St & Davitt St	Eslava Creek	Infil/Inflow. Heavy rains	Conduct infil/inflow rehab in area
6/26/2007		1800 gallons	1.5 hours	5338 Zeigler Blvd	Threemile Creek	Blockage (debris). 2 small tree logs were removed from MH049.	Place on cleaning cycle 1
6/29/2007		20 gallons	1.75 hours	2836 Saddlebrook Dr W	Eslava Creek	Break. 3rd party-broken valve	Point Repair
7/3/2007		2600 gallons	2.25 hours	Laurel St/Davitt St	Eslava Creek	Infil/Inflow. Heavy rain	Conduct Inflow/Infil rehab in area
7/30/2007		300 gallons	1 hour	Upham St - Lift Station	Three Mile Creek	Lift Station Failure - Power Outage	Lift Station Repair and Maintenance
9/1/2007		3 gallons	1 hour	8919 Moffett Rd	Crooked Creek	Break - 3rd party ran over C/O - cracking pipe	Point Repair
9/12/2007		450 gal	1.5 hours	Laurel St & Davitt Ave	Eslava Creek	Infil/Inflow - Heavy rainfall	Conduct inflow/infil rehab in area

9/16/2007	300 gallons	1 hour	359 Charleston Ct	Three Mile Creek	Blockage (grease)	Place on cleaning cycle 1
9/19/2007	unknown	2.75 hours	7100 Cody Rd/QMS LS #34	Clear Creek	Lift Station Failure. Power outage confirmed by LS	Lift Station repair and maintenance
9/25/2007	400 gallons	0.5 hours	613 Canton St	Three Mile Creek	Blockage (grease).	Place on cleaning cycle 1
9/29/2007	300 gal	1.75 hours	6661 Hounds Run S	Twelve Mile Creek	Blockage (roots)	Place on cleaning cycle 1
9/29/2007		1.75 hours	667		Blockage (roots)	Place on cleaning cycle 1
10/5/2007	200 gal		6673 Hounds Run S	Twelve Mile Creek		
10/22/2007	850 gal	1.5 hrs	Conti St / Demouy Ave	Eslava Creek	Inflow & Infiltration	conduct inflow/infil rehab in area
10/22/2007	1250 gal	2 hrs	Laurel St/Davitt Ave	Eslava Creek	inflow/infiltration	conduct inflow/infil rehab in area
10/22/2007	750 gal	2.5 hrs	Laurel St/Davitt Ave	Eslava Creek	inflow/infiltration heavy rainfall	conduct inflow/infil rehab in area
10/22/2007	1350 gal	2.25 hrs	202 Monterey Street	Eslava Creek	Inflow & Infiltration	conduct inflow/infil rehab in area
10/22/2007	500 gal	1.5 hrs	3527 Firetower Road	Hamilton Creek	air relief valve leak -- force main	point repair
10/22/2007	4500 gal	4.5 hrs	Laurel St/Davitt Ave	Eslava Creek	Inflow & Infiltration 2 m/h overflowed	conduct inflow/infil rehab in area
10/25/2007	7500 gal	2.5 hrs	5151 Museum Drive	Twelve Mile Creek	mainline break / mainline failure	point repair

Kerry Hyatt	12/22/2007	52 gallons		1108 Garland Drive	Three Mile Creek	debris and grease		
	12/22/2007	75 gallons		54 Hillside Lane	Montlimap Creek	grease and debris		
	12/25/2007	37 gallons		10270 Southland Way	Crooked Creek	broken valve		
	12/30/2007	18000 gal	6 hours	Pecan St. and Butcher Lane	Three Mile Creek	infil/inflow	lift station repair and maintenance	storm water authority
	12/30/2007	unknown		Laurel Street	Eslava Creek	infil/inflow		storm water authority
	12/30/2007	unknown		Conti St. and DeMouy St.	Eslava Creek			storm water authority
	12/30/2007	9000 gallons	3 hours	Butcher St. and Pecan Street	Three Mile Creek	infil/inflow		storm water authority

SSO Reports

Facility Name:

WRIGHT SMITH JIL WWTF

Permit Number: AL0025026

Time	Overflow Date and Written	Volume Report Date	Length of Destination SSO	SSO	Location SSO	Others SSO	Cause SSO	Corrective Actions Taken	Notified
1	1/13/2005 4:44 PM	1/20/2005	8200 gallons	1.5 hours	1750 Cody Rd N	Clear creek	Break in the force main; main line	The overflow entered the receiving water from open ditch. Point report (boxed in)	Mobile County Health Dept.
2	3/23/2005		6300 gal	1 hour	1407 Monroe Dr. W.	Eightmile Creek	Blockage (Grease)	Place on Cleaning Cycle	
3	4/9/2005		4800 gal	1.25 hr	1900 shifter rd	clear creek	grease blockage	place on cleaning cycle	
4	6/6/2005		2700 gal	3 hr	6029 southside dr	eightmile creek	grease blockage	place on cleaning cycle	
5	8/8/2005		300 gal	15 hr	wollridge rd and beau terra dr	eightmile creek	blockage	point report	
6	8/30/2005	9/9/2005	600 gal	.5 hr	1891 princeton woods dr	eightmile creek	hurricane katrina	lift station repair	
7	8/31/2005	9/9/2005	150 gal	3.75 hr	3805 spyglass	eightmile creek	3rd party malfunction of customers private lift station	rehab area	
8	8/31/2005	9/9/2005	43900 gal	25.5 hr	7100 cody rd	clear creek	hurricane katrina	lift station repair	
9	9/21/2005		2000 gal	2.5 hr	1738 princeton woods	eightmile creek	blockage sand	place on cleaning cycle	

SSO Reports

Facility Name:

CHICKASAW LAGOON

Permit Number: A10020885

	Overflow Date and Time	Written Report Date	Volume SSO	Length of SSO	Location	Destination SSO	Cause SSO	Corrective Actions Taken	Others Notified
1	6/30/2003		300 gal	2 hrs	Black Foot	Eight Mile Creek	Heavy Rain		
2	6/2/2005	6/7/2005	5500 gal	12 hr	gatorino and 6th ave	gum tree branch	collapse of sewer line from gas bore	repaired line	
3	6/12/2005		1500 gal	1 hr	300 11th Ave and Geronimo	Gum Tree Branch	Broken line	repair line	
4	7/10/2005		1,500 gal	1 hr	manhole by gum tree branch	gum tree branch	power outage hurricane dennis	restored power	
5	7/11/2005		1500 gallons	1 hr	Manhole by Gum Tree Branch	Gum Tree Branch	Power outage (hurricane Dennis)		

SSO Reports

Facility Name:

PRICHARD CARLOS A MORRIS WWTP

Permit Number: AL0027304

Facility Type:

Water Plant

ADEM Area:

A00000

	Overflow Date and Time	Written Report Date	Volume SSO	Length of SSO	Location SSO	Destination SSO	Cause SSO	Corrective Actions Taken	Others Notified
1	3/17/2003 5:30 AM			on going	Prichard and Newsome Street	Gum tree		in continue to work correcting all the problems	
2	2/23/2004		10,000 gal	12 hrs	Watson St	Gum tree	Heavy rain	Identify fix it	
3	2/23/2004		12,000 gal	12 hrs	Patricia & Whistler	Gum tree	Heavy rain	Identify fix it	
4	6/25/2004	6/26/2004	10,000 gallons	on going	Whistler & Patricia Street	Gum Tree Branch	heavy rains	continue to identify and fix infiltration & inflow locations (fax 6/26/04)	
5	6/29/2004	6/30/2004	Appx. 8000 gal	< 12 hrs	Whistler & Patricia Streets	Gum Tree Branch	Heavy Rains	Continue to identify and fix infiltration & inflow locations. (Entered from fax)	
6	8/30/2004		4000 gallons	4 hrs	Whistler & Patricia Street	Gum Tree Branch	heavy rain	Continue to identify and fix infiltration & inflow locations.	
7	9/16/2004		15000 gallons	12 hours	Whistler & Patricia Streets	Gum Tree Heavy rain associated with Hurricane Ivan		Continue to identify and fix infiltration & inflow locations.	
8	9/18/2004		20,000 gallons	less than 24 hrs	Midway down Watson	Gum Tree Branch	Excessive Heavy rain due to hurricane Ivan		
9	9/16/2004		10,000 gallons	< 2 hrs	Whistler Street & Freida	Gum Tree Branch	Power Outage associated with Hurricane Ivan	Power Outage due to hurricane Ivan bypassed pumped	
10	12/4/2004		8000 gallons	8 hrs	Whistler and Patricia Streets	Gum Tree Branch	Heavy Rain	Continue to identify and fix infiltration & inflow locations	
11	12/4/2004		10,000 gallons	8 hrs	Midway Down Watson	Gum Tree Branch	Heavy Rain	Continue to identify repair areas of infiltration and inflow	
12	2/2/2005	2/1/2005	15,000 gallons	< 24 hours	Whistler and Patricia Streets	Gum Tree Branch	Excessive heavy rains	Continue to identify and fix infiltration and inflow locations. SSO or leak upstream of treatment plant headworks in collection system.	

								Manhole-Rain related wastewater (Fixed in)
13	2/2/2005	2/3/2005	20,000 gallons	<24 hours	Midway down Wasson	Gum Tree Branch	Heavy Rains	Continue to identify and repair areas of infiltration and inflow Manhole Storm water authority was notified (Fixed in)
14	4/1/2005		20,000 gal	<24 hrs	Midway down Wasson	Gum Tree Branch	Heavy Rain	Continue to identify repair areas of I & I
15	4/1/2005		15,000 gal	<24 Hr	Whistler & Patricia St	Gum Tree Branch	Heavy Rains	Continue to identify and fix I & I locations
16	4/2/2005		unknown	24 hr	midway down Wasson	gum tree branch	heavy rains	continue to identify repair areas of infiltration and inflow
17	2:00 PM 4/2/2005		2000 gal	2 hr	valms and west highland	teuchmans springs branch	pump failure at lift station	restore pumping availability
18	4/30/2005		5000 gal	6 hr	whistler and patricia st	gum tree branch	heavy rain	continue to identify inflow locations
19	4/30/2005		3000 gal	6 hr	griffard lane	teuchmans springs branch	heavy rain	continue to identify inflow locations
20	5/31/2005 12:30 PM		800 gallons	on going		Gum Tree Branch	Heavy rain	on going
21	6/10/2005		300 gal	4 hr	midway along scenic ave	hogg hays	grass blockage	Cleaned lines
22	6/11/2005		15000 gal	<30 hr	whistler and patricia st	gum tree branch	heavy rains	continue to identify and fix infiltration
23	7/6/2005		10300 gal	4 hr	midway down	gum tree branch	heavy rain	infil inflow rehab
24	7/6/2005		8000 gal	4 hr	whistler and patricia st	gum tree branch	heavy rain	inflow rehab
25	7/10/2005		20,000 gal	8 hr	Wasson	gum tree branch	heavy rain	identify infiltration
26	7/13/2005		5,000 gal	8 hr	whistler and	gum tree branch	heavy rain	identify infiltration

				particle at			
27	7/15/2005	8,000 gal	6 hr	wasson	gum tree branch	heavy rain	identify infiltration
28	7/15/2005	10,000 gal	8 hr	wasson	gum tree branch	heavy rain	identify infiltration
29	8/4/2005	3000 gal	8 hr	whisper st.	gum tree branch	heavy rain	fix infiltration
30	8/4/2005	10000 gal	8 hr	midway down whisper st.	gum tree branch	heavy rain	fix infiltration
31	9/25/2005	2000 gal	18 hr	whisper st.	gum tree branch	heavy rains	fix infiltration
32	9/25/2005	10000 gal	18 hr	whisper and particle at	gum tree branch	heavy rains	fix infiltration

8/21/2005	8/21/2005	10,000 gallons		Panola St	8 Mile Creek		
5:34 PM							
12	8/21/2005	10000 gal	12 hr	Wrightester st	gum tree branch	humane society	bypassed pumps

APPENDIX 4: STORMWATER OUTFALLS

LOCATION	TYPE	Dia	Rise	Span	Bottom	Top	Depth	Flow
STATION ST	PIPE	96	0	0	0	0	0	Yes
STATION ST	OPEN CHANNEL	0	0	0	16	76	40	No
STATION ST DOWNSTREAM FROM STATION ST	OPEN CHANNEL	0	0	0	96	204	56	Yes
DOWNSTREAM FROM STATION ST	PIPE	0	11	54	0	0	0	No
DOWNSTREAM FROM STATION ST	PIPE	12	0	0	0	0	0	Yes
DOWNSTREAM FROM STATION ST	OPEN CHANNEL	0	0	0	36	44	6	No
CALEDONIA CT	DROP BOX	0	6	128	0	0	0	No
CALEDONIA CT	DROP BOX	0	6	96		0	0	No
CALIDONE CT	DROP BOX	0	6	96	0	0	0	No
CALIDONE CT	PIPE	18	0	0	0	0	0	No
CALIDONE CT	DROP BOX	0	6	128	0	0	0	No
SMIELY	PIPE	24	0	0	0	0	0	No
SMIELY	PIPE	0	0	0	0	0	0	No
DOWNSTREAM FROM CALEDONIA CT	OPEN CHANNEL	0	0	0	12	26	14	No
WHISTLER ST	PIPE	30	0	0	0	0	0	No
UPSTREAM FROM WHISTLER ST	OPEN CHANNEL	0	0	0	55	70	8	No
WHISTLER ST	PIPE	16	0	0	0	0	0	No
WHISTLER ST	PIPE	16	0	0	0	0	0	No
DOWNSTREAM FROM WHISTLER ST	OPEN CHANNEL	0	0	0	36	108	24	Yes
TURNER ST	PIPE	16	0	0	0	0	0	No
TURNER ST	PIPE	36	0	0	0	0	0	No
TURNER ST	PIPE	72	0	0	0	0	0	No
TURNER ST	PIPE	19	0	0	0	0	0	No
I-165	OPEN CHANNEL	0	0	0	192	360	72	Yes
I-165	OPEN CHANNEL	0	0	0	60	96	36	No
I-165	OPEN CHANNEL	0	0	0	36	84	16	No
UPSTREAM FROM I-65	OPEN CHANNEL	0	0	0	84	108	48	Yes
I-65 & I-165	OPEN CHANNEL	0	0	0	60	144	44	No
I-65 & I-165	OPEN CHANNEL	0	0	0	48	60	36	No
I-65 & I-165	CHANNEL	0	0	0	36	54	10	No
I-65	PIPE	0	12	24	0	0	0	No
I-65	PIPE	0	12	24	0	0	0	No
I-65	OPEN CHANNEL	0	0	0	36	70	36	No
I-65	OPEN CHANNEL	0	0	0	36	48	40	No

10TH AVE	OPEN CHANNEL	0	0	0	156	192	36	No
R.V. BROWN DR.	OPEN CHANNEL	0	0	0	45	82	12	No
WEST GRANT	PIPE	15	0	0	0	0	0	No
WASSON AVE.	OPEN CHANNEL	0	0	0	96	120	48	No
WASSON AVE.	OPEN CHANNEL	0	0	0	48	76	36	No
DOWN STREAM FROM WASSON AVE.	PIPE	6	0	0	0	0	0	No
DOWN STREAM FROM WASSON AVE.	OPEN CHANNEL	0	0	0	12	36	16	No
ACROSS FROM WHATLEY AVE.	PIPE	24	0	0	0	0	0	No
WHATLEY AVE.	OPEN CHANNEL	0	0	0	16	60	20	No
OFF EMILY AVE DOWN POWER LINES	OPEN CHANNEL	0	0	0	168	192	36	Yes
4TH AVE.	PIPE	0	19	116	0	0	0	No
NORTH OF LEE ST.	OPEN CHANNEL	0	0	0	60	80	24	No
LEE ST	OPEN CHANNEL	0	0	0	276	324	84	Yes
LEE ST	PIPE	12	0	0	0	0	0	No
532 WOOD LORE DR.	PIPE	24	0	0	0	0	0	No
508 WOOD LORE DR.	PIPE	30	0	0	0	0	0	No
I-65	OPEN CHANNEL	0	0	0	96	130	24	No
I-65	PIPE	24	0	0	0	0	0	No
	PIPE	8	0	0	0	0	0	Yes
	OPEN CHANNEL	0	0	0	156	180	12	No
	OPEN CHANNEL	0	0	0	24	36	12	Yes
	OPEN CHANNEL	0	0	0	80	108	20	Yes
	BOX							
MOFFET RD.	CULVERT	0	0	0	72	240	240	Yes
	BOX							
MOFET RD.	CULVERT	0	0	0	80	360	360	No
MOFFET RD.	PIPE	36	0	0	0	0	0	No
OAK HILL DR.	PIPE	24	0	0	0	0	0	No
OAK HILL DR.	PIPE	60	0	0	0	0	0	No
OAK HILL DR. N.	PIPE	12	0	0	0	0	0	No
OAK HILL DR. N.	PIPE	16	0	0	0	0	0	No
OAK HILL LN.	PIPE	48	0	0	0	0	0	No
RED CREEK RD.	PIPE	24	0	0	0	0	0	No
	OPEN							
RED CREEK LN.	CHANNEL	0	0	0	16	24	12	No
	OPEN							
SCHILLINGER HIGHTS DR.	CHANNEL	0	0	0	84	96	24	No
SCHILLINGER RD.	PIPE	16	0	0	0	0	0	No
RENEE RD. N.	PIPE	16	0	0	0	0	0	No

S	PIPE	12	0	0	0	0	0	No
HARVEST BLVD. E.	PIPE	36	0	0	0	0	0	No
	OPEN							
HARVEST BLD. E.	CHANNEL	0	0	0	24	36	16	No
CAVALIER DR.	PIPE	0	64	96	0	0	0	Yes
HAVEST BLVD. S.	PIPE	36	0	0	0	0	0	No
9000 VICK LN.	PIPE	24	0	0	0	0	0	Yes
McCARY RD.	PIPE	56	0	0	0	0	0	No
OFF McCARY RD.	PIPE	42	0	0	0	0	0	No
McCORY RD.	PIPE	18	0	0	0	0	0	No
	BOX							
McCARY RD.	CULVERT	0	0	0	108	108	82	No
McCARY RD.	PIPE	18	0	0	0	0	0	No
	OPEN							
McCARY RD.	CHANNEL	0	0	0	64	72	30	Yes
EASTWOOD DR.	PIPE	18	0	0	0	0	0	No
EASTWOOD CT.	PIPE	24	0	0	0	0	0	No
EASTWOOD DR.	PIPE	46	0	0	0	0	0	No
8888 RED CREEK DR. S.		8	0	0	0	0	0	No
RED CREEK DR. S.	PIPE	18	0	0	0	0	0	No
EASTWOD DR.	PIPE	8	0	0	0	0	0	Yes
RED CREEK DR.	PIPE	24	0	0	0	0	0	No
RED CREEK DR.	PIPE	36	0	0	0	0	0	No
OFF OF LOTT RD.	PIPE	24	0	0	0	0	0	No
GIBSON PL. W.	PIPE	48	0	0	0	0	0	No
SCHILLINGERS AND RENEE RD. N.	PIPE	21	0	0	0	0	0	Yes
SCHILLINGERS RD.	PIPE	24	0	0	0	0	0	No
	OPEN							
SCHILLINGERS RD.	CHANNEL	0	0	0	48	60	16	No
FRANK MAPLES RD.	PIPE	8	0	0	0	0	0	Yes
	OPEN							
	CHANNEL	0	0	0	48	60	32	Yes
	OPEN							
	CHANNEL	0	0	0	36	120	12	No
	OPEN							
	CHANNEL	0	0	0	72	72	2	No
	OPEN							
	CHANNEL	0	0	0	48	108	48	Yes
JARRET RD.	PIPE	24	0	0	0	0	0	No
	OPEN							
REMINGTON DR.	CHANNEL	0	0	0	48	72	6	Yes
REMINGTON DR.	PIPE	24	0	0	0	0	0	No
REMINGTON CT.	PIPE	16	0	0	0	0	0	No
CHING DAIRY RD.	PIPE	12	0	0	0	0	0	No
CHING DAIRY RD.	PIPE	12	0	0	0	0	0	No
	OPEN							
CHING DAIRY RD.	CHANNEL	0	0	0	24	60	12	No
	OPEN							
CHING DAIRY LOOP	CHANNEL	0	0	0	26	48	12	No
CHING DAIRY LOOP	PIPE	30	0	0	0	0	0	No
	OPEN							
CHING DAIRY LOOP	CHANNEL	0	0	0	84	128	24	Yes

LACOSTE RD.	PIPE	8	0	0	0	0	0	Yes
LACOSTE RD.	PIPE	26	0	0	0	0	0	No
ALABAMA POWERLINE	OPEN							
CELESTE DR.	CHANNEL	0	0	0	48	96	24	Yes
	PIPE	24	0	0	0	0	0	No
	OPEN							
HALEY DR.	CHANNEL	0	0	0	60	84	12	No
HALEY DR.	PIPE	44	0	0	0	0	0	Yes
	OPEN							
SHERRY DR.	CHANNEL	0	0	0	36	60	4	No
KINGS GATE DR. W.	PIPE	40	0	0	0	0	0	No
	OPEN							
SHELTON BEACH RD.	CHANNEL	0	0	0	60	96	24	Yes
	OPEN							
ST. STEVENS RD.	CHANNEL	0	0	0	120	160	28	Yes
	OPEN							
WINCHESTER DR.	CHANNEL	0	0	0	32	48	16	Yes
	OPEN							
WINCHESTER DR.	CHANNEL	0	0	0	192	216	36	Yes
GAY AVE.	PIPE	32	0	0	0	0	0	No
	OPEN							
SALEM ST.	CHANNEL	0	0	0	36	60	24	No
WISPERING PINES CEMETERY	PIPE	16	0	0	0	0	0	No
ST. STEVENS RD.	PIPE	18	0	0	0	0	0	No
W. MAIN ST.	PIPE	46	0	0	0	0	0	Yes
ALDOCK RD.	PIPE	54	0	0	0	0	0	No
ALDOCK RD.	PIPE	30	0	0	0	0	0	No
	BOX							
ALDOCK RD.	CULVERT	0	0	0	120	120	48	No
WHISTLER ST.	PIPE	12	0	0	0	0	0	No
WHISTLER ST.	PIPE	33	0	0	0	0	0	No
WHISTLER ST.	PIPE	42	0	0	0	0	0	No
WHISTLER ST.	PIPE	12	0	0	0	0	0	No
	OPEN							
I-65	CHANNEL	0	0	0	48	76	36	Yes
N. MANVILLA DR.	PIPE	12	0	0	0	0	0	No
	OPEN							
S MAUVILLA DR.	CHANNEL	0	0	0	84	108	16	No
HILLSIDE DR.	PIPE	18	0	0	0	0	0	No
W. VALLEY RD.	PIPE	18	0	0	0	0	0	No
W. VALLEY RD.	PIPE	24	0	0	0	0	0	No
SOUTHERLAND DR.	PIPE	54	0	0	0	0	0	No
IDLEWOOD DR.	PIPE	24	0	0	0	0	0	No
OFFUT CT.	PIPE	24	0	0	0	0	0	No
OFFUT CT.	PIPE	16	0	0	0	0	0	No
W. BARATARA DR.	PIPE	12	0	0	0	0	0	No
BELL CT.	PIPE	18	0	0	0	0	0	No
	OPEN							
BEAR FORK RD.	CHANNEL	0	0	0	60	84	28	Yes
BEAR FORK RD.	PIPE	16	0	0	0	0	0	No
BEAR FORK RD.	PIPE	16	0	0	0	0	0	No
WHATLEY AVE.	PIPE	12	0	0	0	0	0	No

ANNA DIXON CT.	PIPE	12	0	0	0	0	0	No
ANNA DIXON CT.	PIPE	16	0	0	0	0	0	No
WARREN ST.	PIPE	24	0	0	0	0	0	No
WARREN ST.	PIPE	12	0	0	0	0	0	No
WHATLEY AVE.	PIPE	36	0	0	0	0	0	No
WHISTLER AVE.	PIPE	18	0	0	0	0	0	No
WHISTLER AVE.	PIPE	24	0	0	0	0	0	No
WHISTLER AVE.	PIPE	24	0	0	0	0	0	No
W. TURNER RD.	PIPE	16	0	0	0	0	0	No
WHATLEY AVE.	PIPE	48	0	0	0	0	0	Yes
WHATLEY AVE.	PIPE	48	0	0	0	0	0	Yes
S. WASSON AVE.	PIPE	24	0	0	0	0	0	No
W. MAIN ST.	PIPE	24	0	0	0	0	0	No
W. MAIN ST.	PIPE	24	0	0	0	0	0	No
W. MAIN ST.	PIPE	24	0	0	0	0	0	No
	OPEN							
ELBA AVE.	CHANNEL	0	0	0	68	84	48	Yes
ELBA AVE.	PIPE	16	0	0	0	0	0	No
ST. STEPHENS RD.	DROP BOX	0	0	0	16	16	18	No
ST. STEPHENS RD.	PIPE	18	0	0	0	0	0	No
ST. STEPHENS RD.	PIPE	30	0	0	0	0	0	No
ST. STEPHENS RD.	PIPE	24	0	0	0	0	0	No
ST. STEPHENS RD.	DROP BOX	0	0	0	27	27	6	No
ST. STEPHENS RD.	DROP BOX	0	0	0	150	150	6	No
ST. STEPHENS RD.	PIPE	24	0	0	0	0	0	No
LAWSHE AVE.	PIPE	16	0	0	0	0	0	No
GASTON AVE.	PIPE	15	0	0	0	0	0	No
ACROSS FROM GASTON AVE.	PIPE	12	0	0	0	0	0	No
	OPEN							
OPP AVE.	CHANNEL	0	0	0	20	60	16	No
OPP AVE.	PIPE	60	0	0	0	0	0	Yes
	BOX							
ST. STEPHENS RD.	CULVERT	0	0	0	68	68	41	Yes
HAND AVE.	PIPE	0	48	80	0	0	0	Yes
DOWN STREAM FROM HAND AVE.								
	OTHER	0	0	0	28	36	6	No
	OPEN							
UPSTREAM FROM HAND AVE.	CHANNEL	0	0	0	96	156	72	Yes
UPSTREAM FROM HAND AVE.	PIPE	36	0	0	0	0	0	Yes
HAND AVE.	PIPE	24	0	0	0	0	0	No
END OF NORTH CODY RD.	PIPE	0	48	72	0	0	0	No
WEST OF NORTH CODY RD.	PIPE	24	0	0	0	0	0	No
	OPEN							
MAGNOLIA GOLF COURSE	CHANNEL	0	0	0	48	84	8	Yes
	OPEN							
MAGNOLIA GOLF COURSE	CHANNEL	0	0	0	48	84	8	Yes
MOFFET RD.	PIPE	20	0	0	0	0	0	No
MOFFET RD.	PIPE	18	0	0	0	0	0	No
	OPEN							
MOFFET RD.	CHANNEL	0	0	0	36	80	12	Yes
	OPEN							
MOFFET RD.	CHANNEL	0	0	0	36	80	12	Yes

MOFFET RD.	OPEN CHANNEL	0	0	0	36	80	12	No
UNIVERSITY BLVD.	OPEN CHANNEL	0	0	0	36	56	12	No
UNIVERSITY BLVD.	OPEN CHANNEL	0	0	0	36	56	12	No
BEAR FORK RD.	OPEN CHANNEL	0	0	0	168	180	36	Yes
BEAR FORK RD.	PIPE BOX	48	0	0	0	0	0	No
BEAR FORK RD.	CULVERT	0	44	120				Yes
DICKSON LN.	PIPE	12	0	0	0	0	0	No
AT THE END OF ROLLINS DR. / MAWSS TRAIL	OPEN CHANNEL	0	0	0	120	132	20	Yes
END OF ERHARD DR. / NORTH DOWN CREEK	OPEN CHANNEL	0	0	0	180	228	28	Yes
MOBILE POLICE SHOOTING RANGE	PIPE	15	0	0	0	0	0	No
MOBILE POLICE SHOOTING RANGE	PIPE	18	0	0	0	0	0	No
MOBILE POLICE SHOOTING RANGE	PIPE	18	0	0	0	0	0	No
UNIVERSITY BLVD.	OPEN CHANNEL	0	0	0	72	84	12	Yes
UNIVERSITY BLVD. / NORTHSIDE BIBLE CHURCH	OPEN CHANNEL	0	0	0	84	120	24	Yes
EAST OF UNIVERSITY BLVD. / MAWSS TRAIL	OPEN CHANNEL	0	0	0	48	72	24	Yes
EAST OF MAGNOLIA GOLF COURSE AT RAILROAD TRACK	PIPE	216	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	PIPE	12	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	274	274	48	Yes
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	40	48	33	No
MAGNOLIA GOLF COURSE	PIPE	40	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	PIPE	108	0	0	0	0	0	Yes
MAGNOLIA GOLF COURSE	PIPE	20	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	50	60	16	Yes
MAGNOLIA GOLF COURSE	PIPE	72	0	0	0	0	0	Yes
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	20	57	7	No
MAGNOLIA GOLF COURSE	PIPE	72	0	0	0	0	0	Yes
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	20	57	7	No
MAGNOLIA GOLF COURSE	PIPE	20	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	PIPE	12	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	PIPE	15	0	0	0	0	0	No
MAGNOLIA GOLF COURSE	PIPE	216	0	0	0	0	0	Yes
MAGNOLIA GOLF COURSE	OPEN CHANNEL	0	0	0	20	58	7	No
MOFFET RD.	OPEN CHANNEL	0	0	0	36	72	16	Yes

