

TRENDS IN WATER RESOURCES WITHIN USFWS NATIONAL WILDLIFE REFUGES IN THE SOUTHEAST

by

DOROTHY HOLLORAN HUTCHESON

(Under the Direction of Adam Milewski)

ABSTRACT

The United States Fish and Wildlife Service's (USFWS) Inventory and Monitoring program initiated a project with the University of Georgia to develop Water Resource Inventories and Assessments (WRIAs). The project was created to assist the National Wildlife Refuges (NWRs) in managing their water resources and aid in achieving the refuges overall goals and mission. The WRIA reports document and catalog all available data pertaining to water resources on the refuge and in a greater Region of Hydrologic Influence (RHI). This project focuses on the construction of a workflow to create WRIAs, then creating multiple WRIAs in the Southeast. Finally, this project documents water resource trends in the Southeast shown in the WRIAs. The WRIA process is beneficial to the USFWS refuges in the Southeast, and when used together, the WRIAs can provide important guidance pertaining to data collection at the refuge scale for multiple southeastern refuges.

INDEX WORDS: Water Resources, National Wildlife Refuges

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CHAPTER ONE

INTRODUCTION

The United States Fish and Wildlife Service (USFWS) is focused on protecting water resources on National Wildlife Refuges (NWRs) because water quantity and quality affect and dictate the habitats for their wildlife. In 2016, the USFWS partnered with The University of Georgia to protect freshwater resources through a comprehensive data inventory and monitoring program assessment, more specifically, the creation of Water Resource Inventory and Assessments (WRIAs). The long-term goal of the National Wildlife Refuge System (NWRS) WRIA effort is to provide refuge management with accurate, current data on water quantity and quality to support refuge missions and purposes, and aid in long-term planning.

Within the Southeast Region of the USFWS, there are 134 NWRs that are in 37 different complexes. This project focuses on 12 refuges of varying size, spanning three states and complexes, and a variety of different habitats. For example, refuges in the Wheeler Complex are in areas with karst, which is a different hydrogeologic setting than the refuges in the Piedmont Complex located in the Georgia piedmont. Although the refuges have different natural settings, the WRIA process has identified several similarities for the refuges, such as the lack of baseline water studies at many refuges. This information on a regional scale can be brought to the attention of the directors of the southeast region, and potentially initiate a region wide baseline of water resources.

The WRIA product for each refuge includes: a WRIA report, a geodatabase, map packages, additional reports, raw data, and an interactive PDF map of all the geospatial data. The

product in its entirety is designed to create a “one stop shop” database with readily available and user-friendly data for refuge management and to indicate potential water resource issues. Using data that is mined from several state and federal agencies, such as the U.S. Army Corps of Engineers (USACE), the Arkansas Department of Environmental Quality (ADEQ), and the U.S. Geological Survey (USGS), information is gathered and presented on two scales: the refuge and a Region of Hydrologic Influence (RHI). The RHIs are created with the help of the refuge staff to examine outside areas that are most likely affecting the water quality and quantity on the refuges. The RHIs provide management with additional data to observe water quantity and quality which generally isn’t measured directly on the refuge but still impact them. Information presented in the WRIAs, such as streamgage data, climate stations, groundwater wells, and potential point sources for pollution in the RHI, are used as a tool for the refuge staff to use to improve their management practices and can be used as a resource for future funding to support their mission.

A typical WRIA has four main sections, (1) facility information, (2) natural setting, (3) inventory and discussion, and (4) assessment. The natural setting section includes information such as geology, hydrology, topography, land use, and climate. The inventory and discussion, the largest section, provides the most essential information for the report and has several subcategories: water resource inventory (i.e. streams and rivers, waterbodies, and wetlands), water resource infrastructure (i.e. dams and levees), water monitoring stations (both surface water and groundwater stations), species on the refuge, water quantity and timing (hydrographs from water monitoring stations within the RHI), and state and federal water laws. The final section of the WRIA, the assessment section, identifies threats facing the refuge that were either already of concern as noted from the refuge staff, or were identified from the information

provided in the WRIA. The assessment also includes a list of recommendations, which are normally a direct response to the threats listed, for the refuge staff to either do themselves, or to apply for additional funding to complete.

This project can be separated into three parts. The first is the creation of the workflow of the WRIAs. This included identifying the national and regional datasets that were used, processing and formatting the data, and developing a set of guidelines to create the WRIA reports. The workflow was developed to be as streamlined as possible using ArcGIS map templates and R scripts so that the process could be easily repeated by UGA. The second part of the project was executing the workflow and creating multiple WRIAs in the southeast. Since 2016, 11 full WRIA products for 12 USFWS refuges in three complexes, South Arkansas, Wheeler in Alabama, and Piedmont in Georgia were completed. The third part of this project is observing overall trends in the WRIAs to detect trends in water resources in the southeast.

Creating WRIAs for refuges in the USFWS Southeast Region lays the ground work for understanding current and future threats to water resources that the refuges face, as well as assisting management of the refuges by providing essential information to aid with fulfilling the mission of the refuges. In addition to aiding management practices, the WRIAs can be compared to each other within the Southeast to give greater insight on the similarities and differences of the refuges. The comparison shows a common threat of water pollution and a common need for better water monitoring data collection plans on the refuges.

The following thesis is broken up into five chapters: (1) Introduction, (2) Literature Review, (3) a WRIA example for Wheeler NWR in Northern Alabama, (4) a regional assessment of selected NWRs in the southeast, and (5) Conclusion.

CHAPTER TWO

LITERATURE REVIEW

Global change, such as population growth and climate change, is making the earth's freshwater resources more stressed to meet their high demands (Perry & Kite, 1999; Richey et al., 2015). As it stands, surface water, with its unpredictability, is considered to be one of the most valuable resources as well as groundwater, which is the main freshwater resource for around two billion people worldwide (Alley, 2006; Kundzewicz & Döll, 2009; Richey et al., 2015). It is also thought that with the growing populations and continuing unpredictability of surface water that there will be more dependence on groundwater (Famiglietti, 2014; Kundzewicz & Döll, 2009). Not only is water necessary for basic existence, but it is also essential for household use, hydroelectric plants, and agriculture; these uses cause even greater strain on the water resources and impact the idea of water delegation (Perry & Kite, 1999). With climate change looming over the southeast, water resources are predicted to become more stressed by 2050 due to hydrologic changes and increase in water usage (Ingram, Dow, Carter, & Anderson, 2013).

In the southeast, significant increases in streamflow have been observed in the Appalachians and Mississippi Alluvial Valley Regions and less substantial increases have been observed in the Coastal Plain and Piedmont Regions (Lins & Slack, 2005, 1999). These increases are a result of the increase in precipitation since 1970 (Groisman et al., 2004; McCabe & Wolock, 2002). Looking forward, climate prediction in the eastern United States is uncertain, because less than two thirds of the precipitation predictions for the southeast agree with one another (IPCC, 2007). An overview of several coupled global circulation models (CGCM) over

the southeast found that there was the most disagreement during the summer months, which tend to be the most influential months for water resources in the southeast (Moreau, 2007). The lack of model agreement increases the need for precautions for water resources in the southeast. In addition to these climate models, there have been several studies on the current and future stress of several southeastern basins (Caldwell, Sun, McNulty, Cohen, & Moore Myers, 2012; Sun, McNulty, Moore Myers, & Cohen, 2008).

Arguably, the main threat climate change poses to the southeast is sea-level rise; because two feet of sea level rise is predicted by 2050, the coast of the southeast will be altered in the coming decades (Obeysekera et al., 2011; Titus et al., 2009). Although the refuges examined here are not coastal, the threat to their water resources is of concern. Climate change is predicted to increase water temperatures, precipitation intensity, the duration of low-flow regimes, and accelerate the hydrologic cycle. These scenarios increase the pollution of freshwater (i.e. excess sediments and nutrients) that will affect the drinkability of the water, the surrounding ecosystems, and the reliability of water resources (IPCC, 2007).

For example, increasing water temperatures coupled with soil erosion and sedimentation can alter water quality, which will affect freshwater species and habitats (Ingram et al., 2013). These changes can decrease dissolved oxygen concentrations and potentially decrease flow rates, both of which would negatively impact the aquatic species (Ingram et al., 2013). The changes in quality and quantity will also impact water in the basin that is extracted for a variety of reasons (irrigation, industrial and domestic use, environmental protection and fisheries). Additionally, if there are changes in water quantity, but extraction points continue to extract the same amount of water, the water downstream of extraction sites will be severely depleted (Perry & Kite, 1999).

One way to observe and regulate water quality, quantity and other hydrologic changes is through data collection and analysis (Ingram et al., 2013).

Observation of water resources and creation of water resource datasets inform scientists about the complexities of ecosystems and how one variable can influence another (such as the scenario above). Another example is how soils are controlling water flow or how the variability of flow can affect the types of and life cycles of stream species (Cordery, 2003). Therefore, there should be as much invested in the development of water resources datasets as there is for vegetation, geology and land use datasets because of its important nature (Cordery, 2003). Like other developed nations, the United States has good quality hydrologic datasets that are well maintained; however, there is always room for improvement (Perry & Kite, 1999).

One improvement for water resources in the southeast is having more water monitoring programs. Water monitoring programs are essential in the continuation and betterment of the hydrologic sciences. One of the main reasons to implement a water monitoring study on the USFWS refuges is to be in “compliance with objectives or standards” (Whitfield, 1988); most of the NWRs’ would be in this category because the NWRs’ missions are to protect the ecosystem so that it continues to protect its wildlife. Another purpose of water monitoring is to be able to increase sustainability and enhance the management of water resources in general and on the refuges to prepare for potential changes (Cordery, 2003).

An emphasis on water resource data collection and assimilation enables us to have accurate representation of the variability and nature of our water resources, which is necessary for conducting studies on the current freshwater situation and to predict future freshwater conditions (Cordery, 2003). The potential changes in water quality and quantity are of great concern for the USFWS NWRs because of their commitment to the protection of their

ecosystems and aquatic species richness and biodiversity, all of which are sensitive to these water changes (Kwak & Freeman, 2010; Spooner, Xenopoulos, Schneider, & Woolnough, 2011). Through creating WRIAs, the United States Fish and Wildlife Service is taking the initial steps in analyzing the current water resource condition to prepare for potential changes in water quality and quantity.

CHAPTER THREE

WATER RESOURCE INVENTORY AND ASSESSMENT FOR WHEELER NATIONAL WILDLIFE REFUGE

The following chapter is an example WRIA for Wheeler National Wildlife Refuge in Northern Alabama.

3.1 Executive Summary

This Water Resource Inventory and Assessment (WRIA) Report for the Wheeler National Wildlife Refuge (NWR) summarizes the results of data mining from national, regional, and local sources for information on hydrology, water rights, water availability, and water quality. This initial draft inventory report is a compilation and summary of available and relevant information for refuge water resources within the region of hydrologic influence (RHI). Topics addressed within this report include facility information, natural setting (geology, soils, climate, hydrology, topography), and a catalog/inventory of relevant hydrologic factors (water resources, water infrastructure, water rights). Information was compiled from national and regional databases, geographically referenced to the same projection, and presented within a Geographic Information System framework.

3.1.1 Findings

- According to the Comprehensive Conservation Plan (CCP), Wheeler NWR, located on the Wheeler Reservoir on the Tennessee River, is 58.125 square miles, or 37,200 acres.

- The Region of Hydrologic Influence (RHI) for Wheeler NWR is based on the HUC-8 surrounding the refuge (060030002) and is 2,424.78 square miles in northern Alabama and southern Tennessee.
- Due to the location next to the reservoir, the topography is relatively flat to rolling hills, with a few abrupt hills on the outer edges of the refuge.
- The general geology of the refuge is limestone with a few areas of clay or mud. The limestone is Tuscumbia limestone which is blue/gray in color and has many caves and sink holes in the area.
- The refuge is located over Mississippian aquifers which are dominated by karstic features such as caves and sink holes in the greater Northern Alabama area.
- The soil orders on the refuge by frequency are: inceptisols (41.4%), ultisols (37.3%), alfisols (12.6%), mollisols (5.9%), and entisols (2.6%). Of these soils, they are primarily classified as Groups B and B/D in hydrologic soil groupings (25.56% and 36.53%, respectively).
- The main surface water of interest is the Tennessee River which flows east to west through the refuge. There are several tributaries for the Tennessee River which travel through the refuge, such as: Flint Creek, Cotaco Creek, Piney Creek, Limestone Creek, and Indian Creek to name a few.
- Within the RHI of Wheeler NWR there are predominantly Deciduous Forest, and Pasture/Hay land cover classifications (28.79% and 25.19% respectively).
- There are 178 Global Historical Climatology Network (GHCN) stations across the RHI of Wheeler NWR and one is located within the acquisition boundary of Wheeler NWR.

- Within the total RHI of Wheeler NWR there is a total of 6,772.91 miles of flowlines (2,283.91 miles are named and 4,489.01 miles are unnamed).
- Within the RHI of Wheeler NWR, there is a total of 106.65 miles² waterbodies (86.77 miles² named and 19.88 miles² unnamed). Wheeler NWR has 19.08 miles² of waterbodies in the acquisition boundary.
- There are 241 springs/seeps in the RHI of Wheeler NWR; 137 of the springs are named. Within five miles of the refuge there are 33 springs and 21 of them are named.
- Wheeler NWR has 19.27 miles² of Freshwater Wetlands and the RHI has 215.01 miles². Over 90% of the wetlands in the Region of Hydrologic Influence are categorized as Freshwater Forested/Shrub Wetland.
- There are 88 manmade dams in the RHI of Wheeler NWR. Twenty-seven of them are named, 59 are estimated dams, and two are unnamed, according to the Southeast Aquatic Resources Partnership (SARP) dataset. One of the estimated dams is located within the acquisition boundary of Wheeler NWR. In addition, there are 27 beaver dams on the refuge that impound up to 23.38 miles² of Wheeler NWR.
- According to the Wheeler refuge staff, there are 32 different water control structures on the refuge; six are pumping stations, two are classified as “other,” 20 are screw gates, three are stop logs and one is listed as just a “water control structure.”
- There are 3,931.13 acres or 6.14 miles² of manmade impoundments on the refuge with different soil characteristics.
- Within the RHI there are 1,712.24 miles of roads and 15.97 of those are located within the acquisition boundary of Wheeler NWR, according to the U.S. Census Bureau.

- There are 1,216 water monitoring stations in the RHI of Wheeler NWR, but 211 of them do not have accessible data and only 40 of them are considered to be significant.
- Within the RHI of Wheeler NWR there are 529 water monitoring stations measuring either discharge or gage height, or both. Eleven of these stations are considered to be significant stations. Of the 439 surface water quality monitoring stations, 14 of them are significant.
- In the Region of Hydrologic Influence, there are 238 stations measuring groundwater levels; 20 are significant. A total of 137 stations have measured groundwater quality in the RHI, and 18 of those stations are significant.
- There are 16 endangered or threatened species and 13 migratory birds within the acquisition boundary of Wheeler NWR.
- There are twelve impaired waters within the RHI and 2,298 facilities that have NPDES permits; 16 of them are “Major”, 2,170 are “Non-Major”, two are “Minor”, and there are also an additional 110 facilities that are “Unpermitted” but are listed.

3.1.2 Key Water Resources Issues of Concern

For Wheeler National Wildlife Refuge, there are 12 water resource issues of concern. These can be summed up into a few different categories: Management Capability, Excess or Insufficient Water, Contaminants/Excess Nutrients/Pathogens, Sedimentation, and Potential Legal Problems. An issue that must be addressed is the lack of resources for the management of Wheeler NWR to oversee the refuge’s health and overall goal. There are several structures within the refuge that need to be repaired and other structures that need to be built in order to achieve the overall goals of the refuge. The refuge also suffers from an excess of water at times (early raising of the water level in Wheeler Reservoir) which can inhibit plant growth that is used

to feed waterfowl; and conversely, sometimes there is too little water in drought years, because the impoundments on the refuge are only recharged with rainwater. Wheeler NWR is also threatened by excess nutrients and contaminants entering the refuge through urban and agricultural runoff, contaminants from the Superfund Site Redstone Arsenal, and also the presence of the Chytrid fungus on the refuge. Agricultural and Urban runoff also causes sedimentation on the refuge. Finally, there is a potential future threat of irrigators pushing to have right-of-way across the refuge to draw water from the Tennessee River. More information on these threats can be found in Appendix A.

3.1.3 Needs and Recommendations

In order to combat the threats facing Wheeler NWR, there are five recommendations for the refuge. The first recommendation is to conduct a baseline water monitoring study. Through this study, the refuge staff can have a better understanding of how the threats listed above are impacting the refuge. The next two recommendations can be categorized as Coordination/Support for the refuge. Wheeler NWR needs additional funding and or an increase in the management staff in order to perform all of the tasks for the upkeep of the refuge. The other recommendation is to build partnerships with other organizations and people who own and operate different water control structures that will affect the refuge. Finally, there are two recommendations pertaining to water-related infrastructure. The first is to gain access to the pumps that are located on the refuge and repair infrastructure that is no longer viable. The second recommendation is to install wells on the refuge impoundments, so the impoundments are not solely reliable on rain water. More information on these recommendations can be found in Appendix A.

3.2 Introduction

The long-term goal of the National Wildlife Refuge System (NWRS) Water Resource Inventory and Assessment (WRIA) effort is to provide up-to-date, accurate, reconnaissance-level data on water quantity and quality to support management NWRS planning and management actions to fulfill the NWRS mission and individual refuge purposes and management goals. An accurate water resources inventory is essential to prioritize issues and tasks, and to take prescriptive actions that are consistent with the established purposes of the refuge. WRIAs evaluate significant water resources (including rivers and streams, lakes and ponds, springs, wetlands, and groundwater), known water quality issues, water management infrastructure and practices, water rights, threats to water supplies, and other water resource issues for each field station.

This Water Resource Inventory and Assessment (WRIA) Report for Wheeler National Wildlife Refuge (Wheeler NWR or “the refuge”) summarizes available information relevant to refuge water resources. Major topics addressed in this report include the natural setting of the refuge (topography, climate, geology, soils, hydrology), impacts of development and climate change, significant water resources and associated infrastructure within the refuge, past and current water monitoring activities on and near the refuge, water quality information, and state water use regulatory framework. Information was compiled from publicly available reports, databases, and geospatial datasets from federal, state, and local agencies; published research reports; websites maintained by government agencies, academic institutions, and non-governmental organizations; and from files and geospatial data layers maintained by the refuge.

This WRIA report is presented on two scales: intermediate (within a Region of Hydrologic Influence (RHI) encompassing the refuge), and local (within the NWR). The

inventory and assessment process includes data assimilation at the local level and the assessment of key water resource issues of concern (threats or stressors) and needs. The WRIA report will synthesize the intermediate and local water resources inventory data and provide a summary of the threats and needs associated with water resources for ongoing water resource management and strategy development.

3.2.1 Document Organization

This WRIA report is partitioned into several categories and sub-categories according to a nationally adopted format for conducting water resource inventory and assessments through the US Fish & Wildlife Service (USFWS). This document follows this same format for easy inter-refuge operability, and is organized as follows:

- Facility information and habitats
- Natural Setting: topography, geology, hydrogeology, soils, hydrology and climate
- Inventory: water resources, water resource infrastructure, water quality, and water monitoring
- Assessment: threats and needs

The WRIA report contains general information and maps describing the natural setting of the refuge. More detailed information can be found in the inventory section about water resources, water infrastructure, water quality, and water monitoring. The inventory also contains information about federal and state regulations for Wheeler NWR and the surrounding area's water resources. Some of the information, such as data sources and links to the information are provided in Appendix B.

3.2.2 Data Processing

The data sources collected for this inventory were accessed by downloads and access requests from public agency websites. Unless specified otherwise in a table or figure caption or footnote, data presented in this WRIA report are the latest available as of September 30, 2018. Geospatial data were processed using ArcGIS and summarized within two spatial domains: within the acquisition boundary for Wheeler National Wildlife Refuge and outside the refuge boundary but within the Region of Hydrologic Influence (RHI). ArcGIS datasets and non-geospatial datasets (e.g. climate data) were analyzed in Microsoft Excel and RStudio to extract information for the inventory.

3.3 Facility Information

The Wheeler National Wildlife Refuge (NWR) was established in 1938 by Executive Order 7926 to protect the breeding ground for migratory birds and other wildlife. It was the first refuge on a hydro-electric impoundment and was used as an experimental site for attracting migratory birds (USFWS, 2019). This refuge serves as the Wheeler Complex headquarters. The Wheeler Complex has seven refuges, including Wheeler NWR, in northern Alabama, spanning over 38,900 acres (USFWS, 2007). Due to their proximity and similarity of habitats, Wheeler NWR Key Cave NWR, Sauta Cave NWR, and Fern Cave NWR are all under the same management of the Wheeler Complex as a single unit under the Lower Tennessee-Cumberland Ecosystem (LTCE) (USFWS, 2007).

Wheeler NWR was given additional purposes, from the Migratory Bird Conservation Act of 1929 and the Refuge Recreation Act of 1962 (USFWS, 2007). The refuge surrounds the Wheeler Reservoir, which is owned and operated by the Tennessee Valley Authority (TVA). The

TVA purchased some areas in Wheeler NWR to be a buffer for the reservoir which was impounded in 1936 (USFWS, 2007).

The refuge is a winter habitat for Alabama's largest duck population and was previously a home to wintering Canadian Geese (USFWS, 2007). On the refuge, there are bottomland hardwoods, mixed hardwoods, pine uplands, agricultural fields, 295 species of birds, interesting flora, and a variety of other types of animals (USFWS, 2007). There are also a few karst formations on the refuge, including these caves: Cave Springs, Copperhead, and Rockhouse (USFWS, 2019).



Wheeler National Wildlife Refuge

Landscape Conservation Cooperatives



Produced by the Water Resources and Remote Sensing Laboratory at the University of Georgia, Athens, GA
Map Date: August 2018
File Name: LCC_wheeler

0 62.5 125 250 Miles
0 62.5 125 250 Kilometers

Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree



Figure 1. Landscape Conservation Cooperatives around Wheeler NWR. (Landscape Conservation Cooperatives Network, 2015).

3.4 Natural Setting

The following information about the natural setting for Wheeler NWR will be presented at two different spatial scales: the Region of Hydrologic Influence (RHI), a hydrologically defined region of interest containing the refuge (see below), and the Wheeler NWR approved acquisition boundary (Figure 2).

3.4.1 Region of Hydrologic Influence

The Region of Hydrologic Influence (RHI) describes the watershed that the refuge site is located. The RHI represents the potential drainage impact on water resources flowing to the refuge.

For the purpose of this Inventory and Assessment, the RHI has been described as “HUC-10s and upstream.” “HUC-10” refers to a set of divisions of the watershed within the National Watershed Boundary Database (NWD). The NWD divides basins into Hydrologic Units (HU) which are assigned Hydrologic Unit Codes (HUC). At the HUC largest regional scale, they are assigned two-digit codes, also known as HUC-2. As the regional scale decreases, the codes increase in numbers and establish 4-, 6-, 8-, 10-, and 12-digit HUC.

The RHI for Wheeler NWR was created using the surrounding HUC-8 (060030002) which includes 12 HUC-10s (Figure 3).



Wheeler National Wildlife Refuge

Wheeler Region of Hydrologic Influence

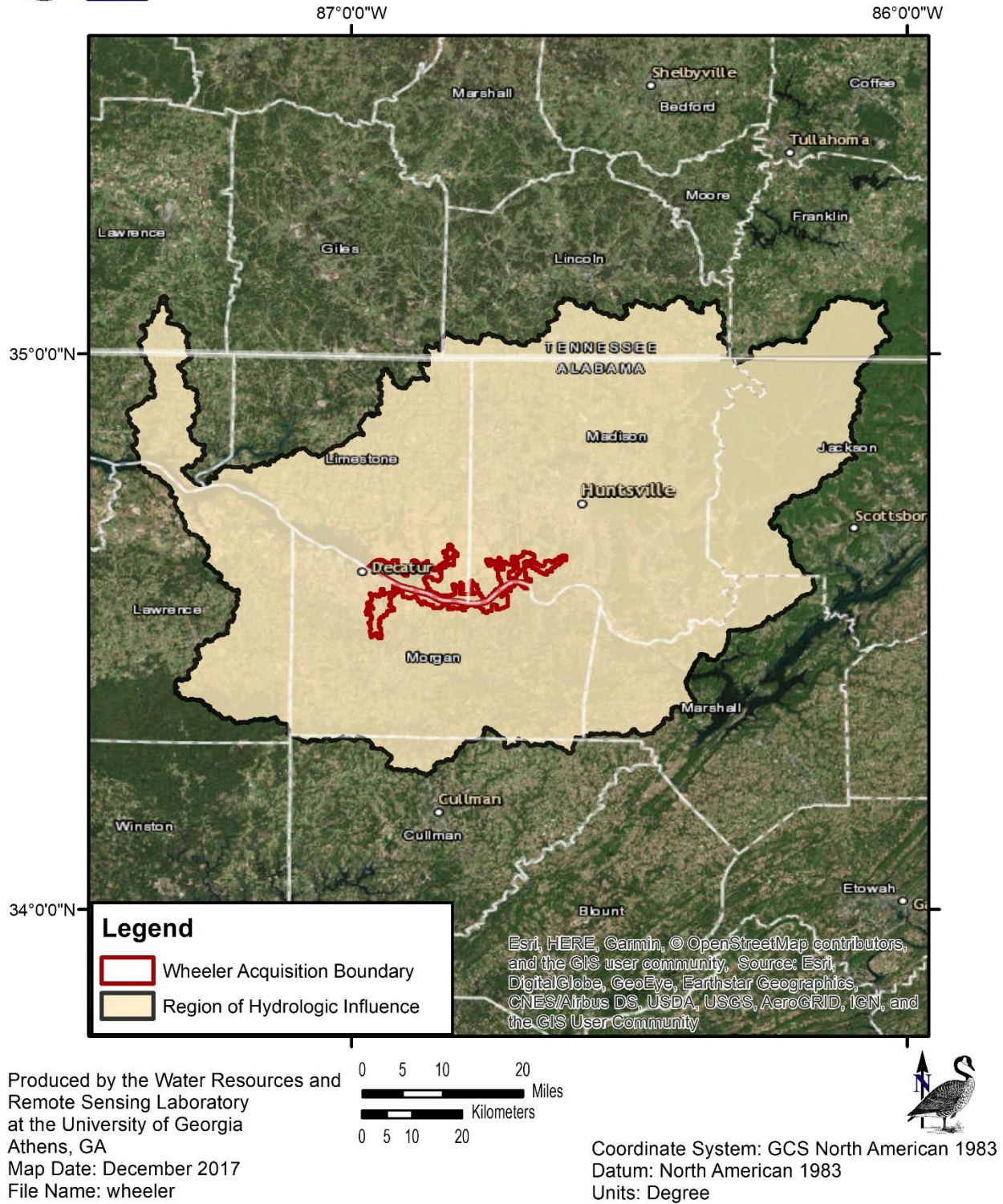


Figure 2. The Region of Hydrologic Influence of Wheeler NWR. (USFWS, 2018).



Wheeler National Wildlife Refuge Hydrologic Unit Codes (HUCs)

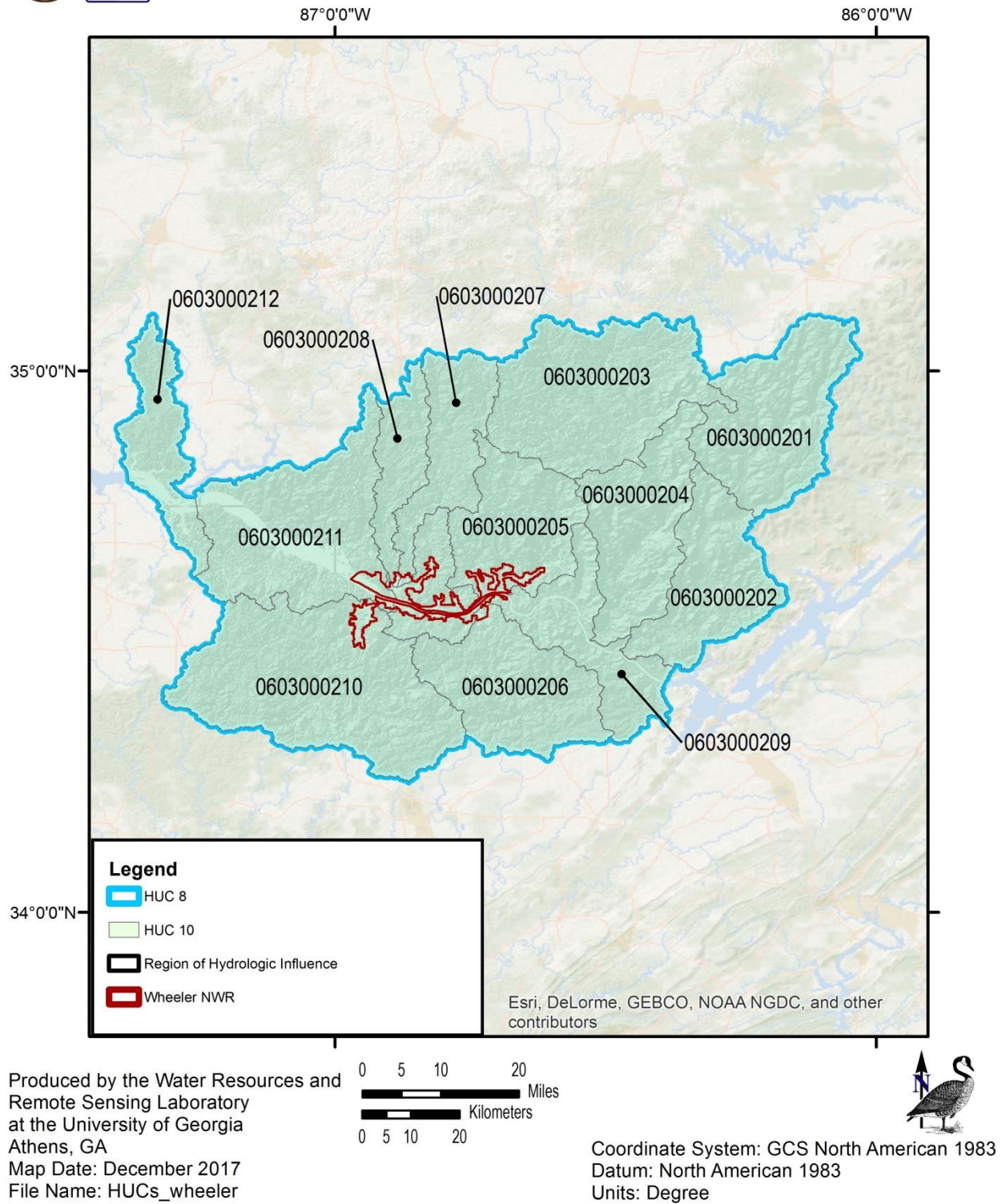


Figure 3. Hydrologic Unit Codes (HUCs) around Wheeler NWR. (USGS, 2013)

3.4.2 Topography and Landforms

Wheeler NWR is located in the Highland Rim physiographic section which is part of the greater Interior Low Plateaus province (Figure 4). Due to its location surrounding the Tennessee River, the general topography of the refuge is flat (0-2 percent slopes) to gently rolling (3-6 percent slopes), with a few abrupt hills (Swenson et al., 1958). The boundaries of the refuge tend to be much higher in elevation (Figure 5).



Wheeler National Wildlife Refuge

Physiographic Sections

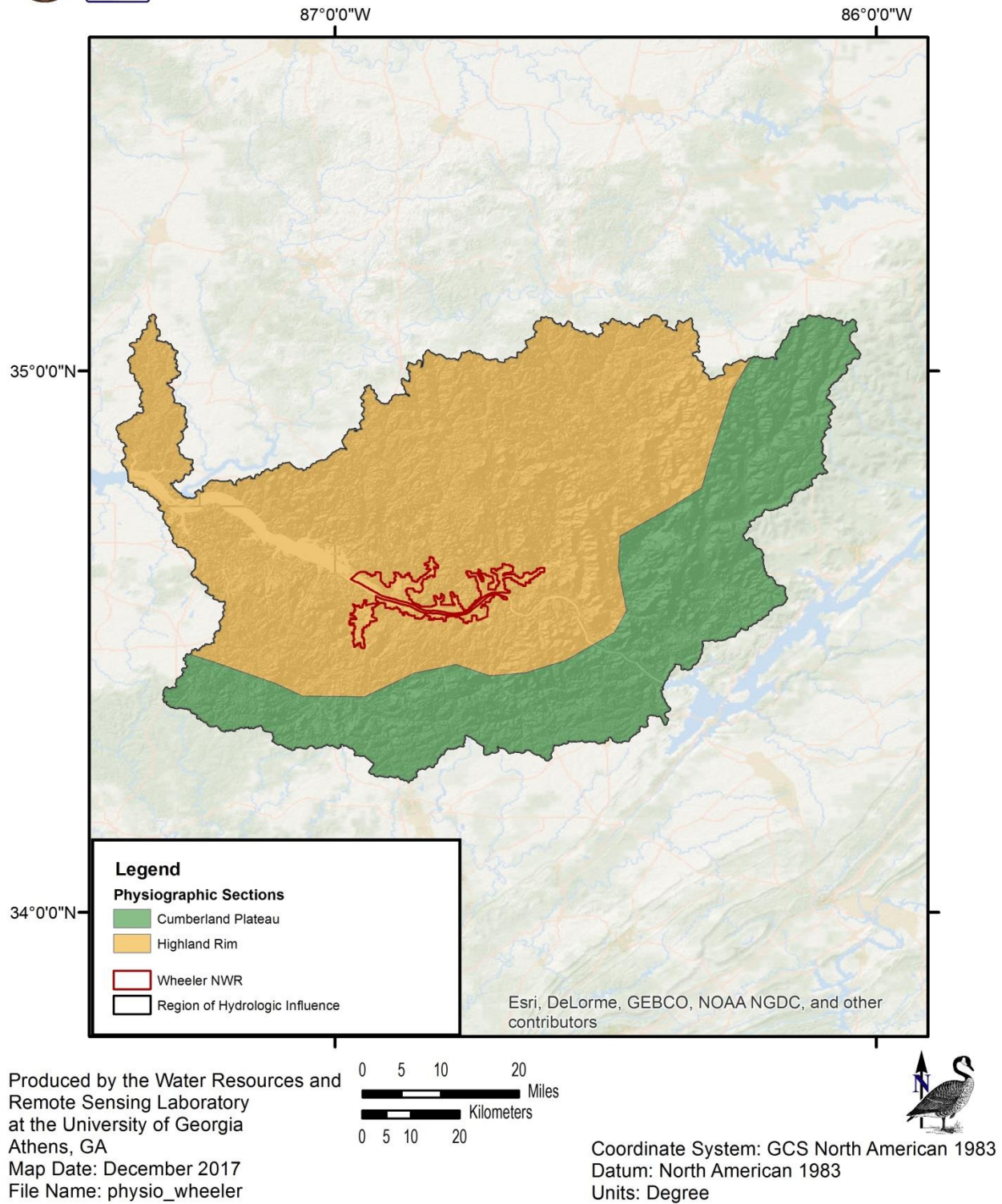
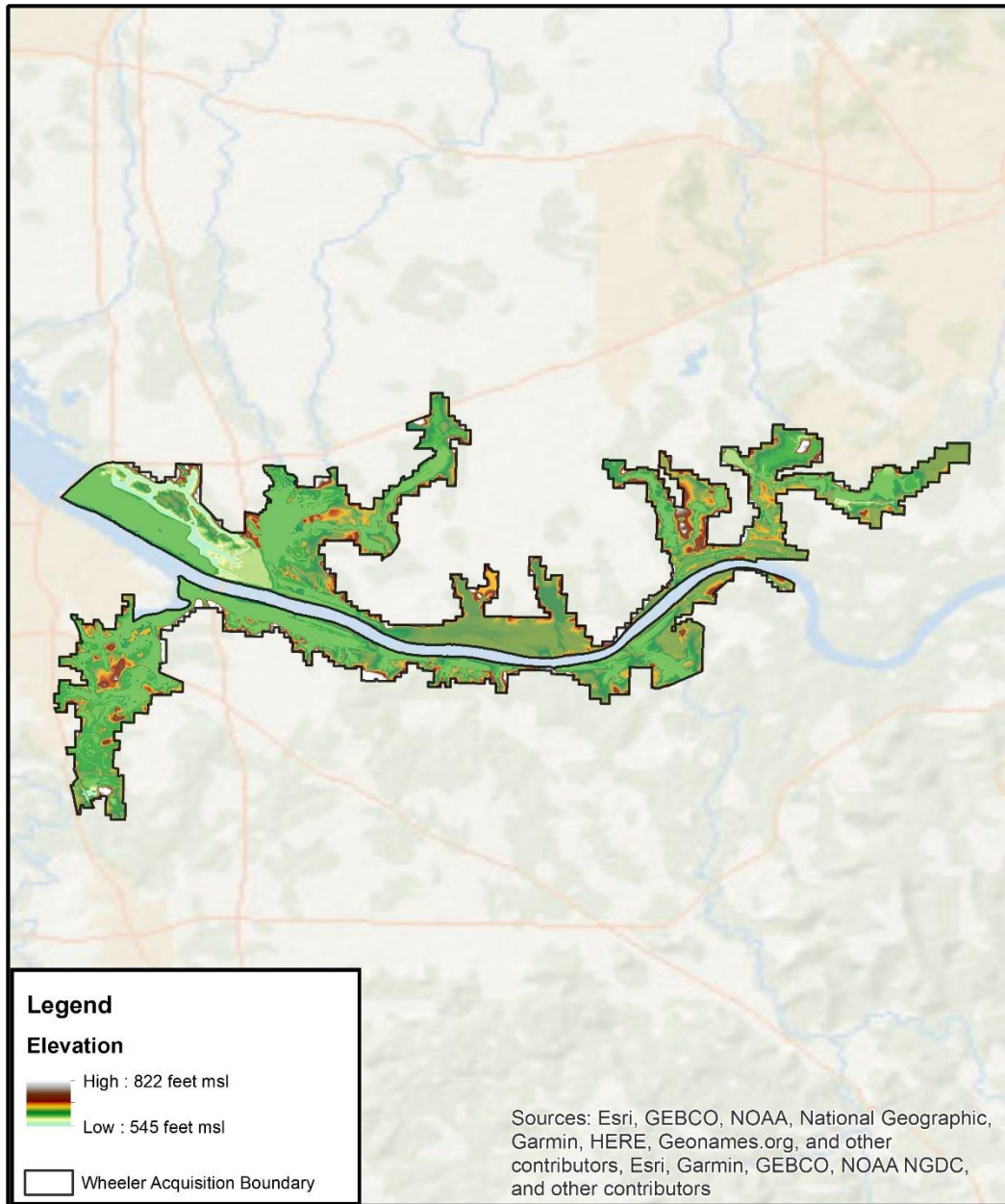


Figure 4. Physiographic sections in the RHI of Wheeler NWR. (USGS, 1946).

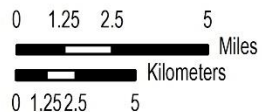


Wheeler National Wildlife Refuge

Topography



Produced by the Water Resources and
Remote Sensing Laboratory
at the University of Georgia
Athens, GA
Map Date: November 2018
File Name: topo_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Figure 5. Topography of Wheeler NWR. (USGS).

3.4.3 Geology and Hydrogeology

3.4.3.1 Geology

Wheeler NWR is underlain by the Tuscumbia limestone which is gray to blue in color and contains some interstratified chert (USFWS, 2007). On the refuge, there are some outcrops of this limestone, but the greatest presence of the limestone is the red upland soils that has a large amount of the weathered Tuscumbia limestone (USFWS, 2007). The Tennessee River Valley is home to many different karst formations, which are formed by the dissolution of limestone; as mentioned before, Wheeler NWR has several karst formations including caves and sinkholes. The Tennessee River in this area lies on top of mostly limestone (Figure 6).

3.4.3.2 Hydrogeology

Wheeler NWR lies over Mississippian aquifers (Figure 7) and is formed of primarily limestone that has been weathered into karst. Due to the nature of karst, the surface water and groundwater have a lot of interaction in the area, and as the water moves through fractures made larger by acidic water in the limestone, the water is discharged into streams, springs and wells (USGS, 1995). This type of aquifer tends to have groundwater that is somewhat contaminated due to the sinkholes. Sinkholes can be used to dispose of waste, and water that recharges the aquifer through sinkholes tend to bring the contaminants into the aquifer (USGS, 1995).



Wheeler National Wildlife Refuge

Geology

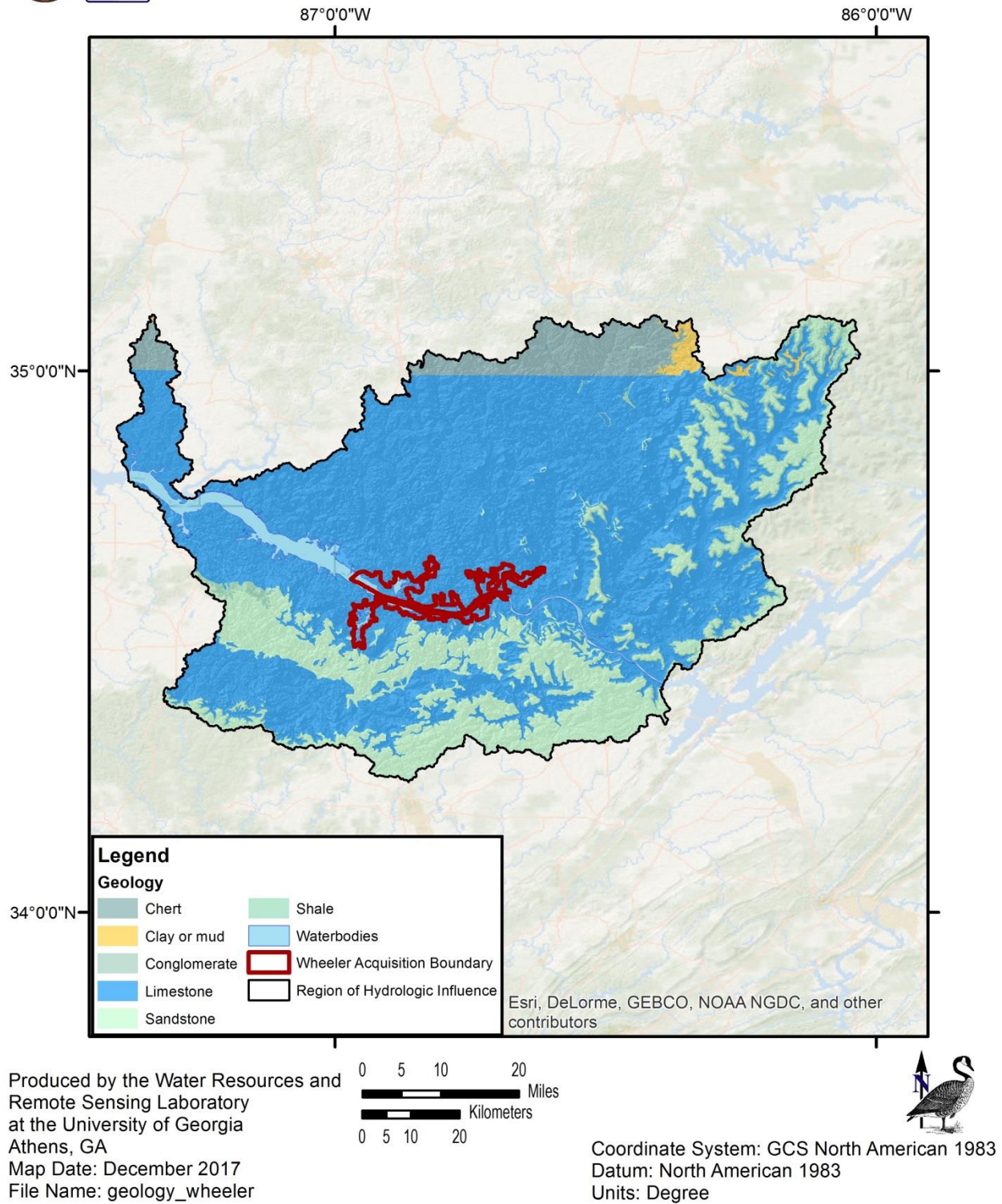
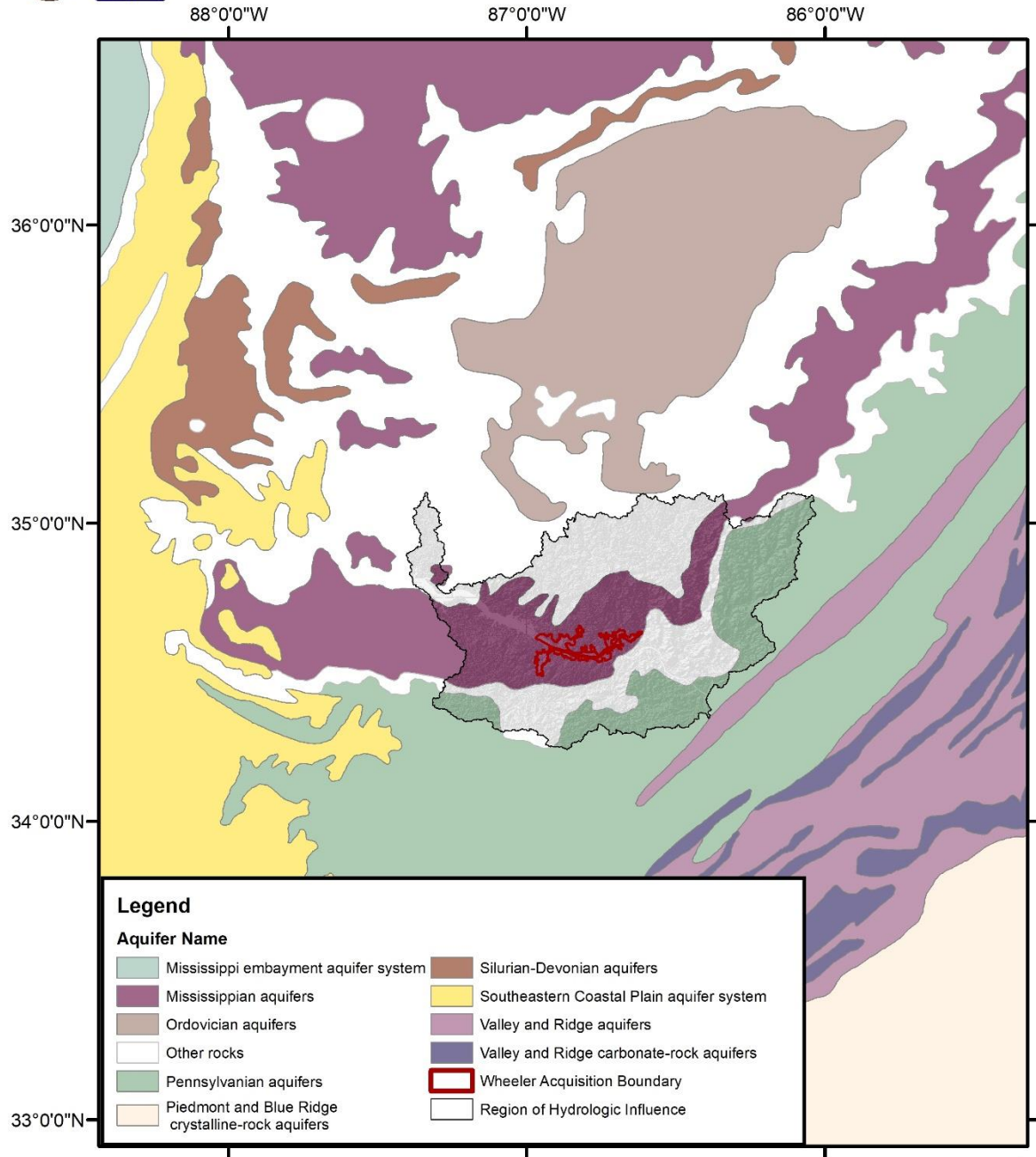


Figure 6. Geology of the RHI of Wheeler NWR. (USGS, 2009).



Wheeler National Wildlife Refuge

Aquifers



Produced by the Water Resources and Remote Sensing Laboratory at the University of Georgia Athens, GA
Map Date: December 2017
File Name: aquifers_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree



Figure 7. Aquifers around the RHI of Wheeler NWR. (USGS, 2003).

3.4.4 Soils

This refuge is composed almost entirely by the floodplain of the river, and as a result, is entirely overlain by alluvial material. Many young soils dominate this site due to the high influx of alluvial material, although older soils are also observed. The soil orders range from entisols to ultisols due to the highly variable landscape (Figure 8). Many rocky slopes and rock outcrops are found within the Wheeler NWR as evidence of the river's erosional capacity. The soil orders by frequency are: inceptisols (41.4%), ultisols (37.3%), alfisols (12.6%), mollisols (5.9%), and entisols (2.6%). Nine soil series compose the inceptisol portion of the refuge, but the Melvin series is the most common. The typical Melvin pedon is very deep, poorly drained, slightly alkaline, and contains iron depletions along with iron and manganese concretions. The ultisol proportion of Wheeler is subdivided into 23 separate soil series with the Decatur series being the most prolific (Table 1). The typical Decatur pedon is very deep and well drained with brown to black concretions. The alfisol proportion is subdivided into 8 soil series, mollisol proportion is subdivided into 3 soil series, and the entisol proportion is subdivided into 2 soil series.

Additional information on the soil series can be found in Appendix C.

3.4.4.1 Hydrologic Soil Groups

According to the NRCS Web Soil Survey, hydrologic soil groups indicate the soil's potential for runoff, and are classified based on infiltration rates for wetted, bare soil. Each soil series is classified into one of four hydrologic soil groups (A,B,C,D), and those classified into Group D may be classified into one of three dual classes (A/D, B/D, C/D).

Group A has soils that have high infiltration and low runoff potential even when thoroughly wet, and typically have sandy to gravelly textures. Soils classified as Group B have moderate infiltration rates and runoff potential when wet, and are generally moderately fine to

moderately coarse textured. Group C consists of soils with slow infiltration rates when wet, and generally indicates either a subsurface layer impeding water infiltration or a moderately fine to fine soil texture. Group D indicates soils with very slow infiltration rates and high runoff potentials when wet, and have high water tables, shrink-swell clays, or clay pans near the surface.

Dual classifications indicate that the soil series is classified into Group D in its natural state, but fits into a different group when drained. For example, a very sandy soil in a Coastal Plain may be naturally classified into Group D because of the presence of a high water table, but its dual classification would be A/D because of the infiltration rate in the absence of the water table.

Wheeler NWR's acquisition boundary is primarily composed of soils in the Hydrologic Soil Groups B and B/D, which make up 25.56% and 36.52% of the refuge, respectively (Figure 9). Group C makes up 11.27% of the soils, and Group C/D makes up 17.18% of the acquisition boundary. Groups D and A comprise 3.40% and 6.07% of the refuge, and 0.21 acres (<0.01%) of the Acquisition Boundary are clay pits, which are not given a Hydrologic Soil Group.

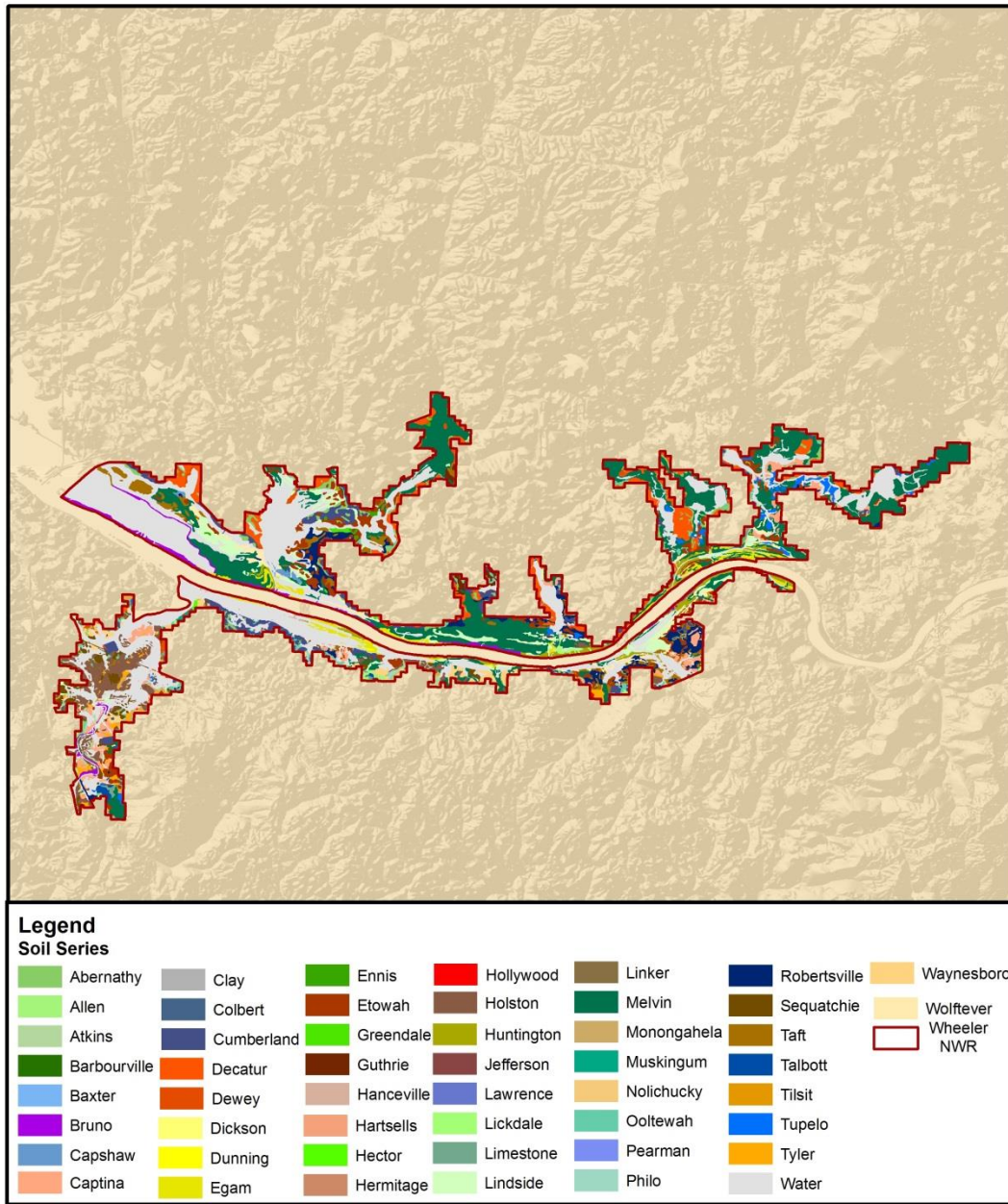
Table 1. Soil series with the largest areas in Wheeler NWR. (Soil Survey Staff & NRCS, 2017).

Series Name	Acres within Acquisition Boundary	Slope	Drainage	Hydro-logic Soil Group	Surface Texture	Subsurface Texture	Location	Parent Material
Abernathy	877.12	0-6%	Well-drained	C	Silt loam	Silt loam to Silty clay loam	Depression Toeslopes	Alluvium over Limestone Residuum
Bruno	608.05	0-2%	Excessively Drained	A	Fine sandy loam	Sand	Stream terrace footslopes	Sandy sedimentary Alluvium
Captina	968.10	0-6%	Moderately well-drained	C	Silt loam	Silty clay loam to Clay	Terrace footslopes	Silty sedimentary Loess over Clayey sedimentary Alluvium
Cumberland	1350.50	2-6%	Well-drained	B	Silty clay loam	Silty clay loam to Clay	Ridge backslopes	Alluvium over Limestone Residuum
Decatur	1,823.85	2-6%	Well-drained	B	Silty clay loam	Silty clay loam to Clay	Interfluvial shoulders	Clayey limestone Residuum
Egam	665.42	0-2%	Well-drained	C	Silty clay loam	Silty clay to Silty clay loam	Stream terrace footslopes	Clayey sandstone, limestone, and shale Alluvium
Etowah	1,452.64	0-2%	Well-drained	B	Silt loam	Silty clay loam	Ridge backslopes	Sedimentary Alluvium
Holston	1,250.23	0-2%	Moderately well-drained	C/D	Gravelly fine sandy loam	Loam to Gravelly Loam	Ridge summits	Loamy sandstone and shale Alluvium
Huntington	698.38	0-2%	Well-drained	A	Silt loam	Silt loam to Very gravelly sandy loam	Floodplain toeslopes	Loamy sedimentary Alluvium
Lindside	1,185.10	0-2%	Somewhat poorly drained	B/D	Silt loam	Sandy loam to Silty clay loam	Floodplain toeslopes	Loamy sedimentary Alluvium
Melvin	6,646.74	0-2%	Somewhat poorly drained	B/D	Silt loam	Sandy loam to Silty clay loam	Depression footslopes	Loamy sedimentary Alluvium
Robertsville	1,024.85	0-2%	Poorly drained	C/D	Silt loam	Silt loam to Silty clay loam	Depression footslopes	Clayey sedimentary Alluvium
Sequatchie	437.58	0-6%	Well-drained	B	Fine sandy loam	Loam to Fine sandy loam	Terrace toeslopes	Loamy sedimentary Alluvium
Taft	779.22	0-2%	Somewhat poorly drained	C/D	Silt loam	Silt loam to Gravelly silty clay loam	Terrace footslopes	Loamy limestone Alluvium
Waynesboro	468.99	2-6%	Well-drained	B	Fine sandy loam	Clay loam to Clay	Ridge summits	Clayey sandstone and shale Alluvium
Wolftever	514.71	0-2%	Moderately well-drained	D	Silt loam	Silty clay loam to Clay	Terrace footslopes	Loamy sedimentary Alluvium

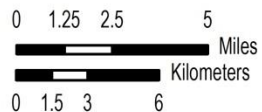


Wheeler National Wildlife Refuge

Soil Series



Produced by the Water Resources and
Remote Sensing Laboratory
at the University of Georgia
Athens, GA
Map Date: November 2017
File Name: soil_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Figure 8. Soil series in Wheeler NWR. (Soil Survey Staff & NRCS, 2017).



Wheeler National Wildlife Refuge

Hydrological Soil Groups

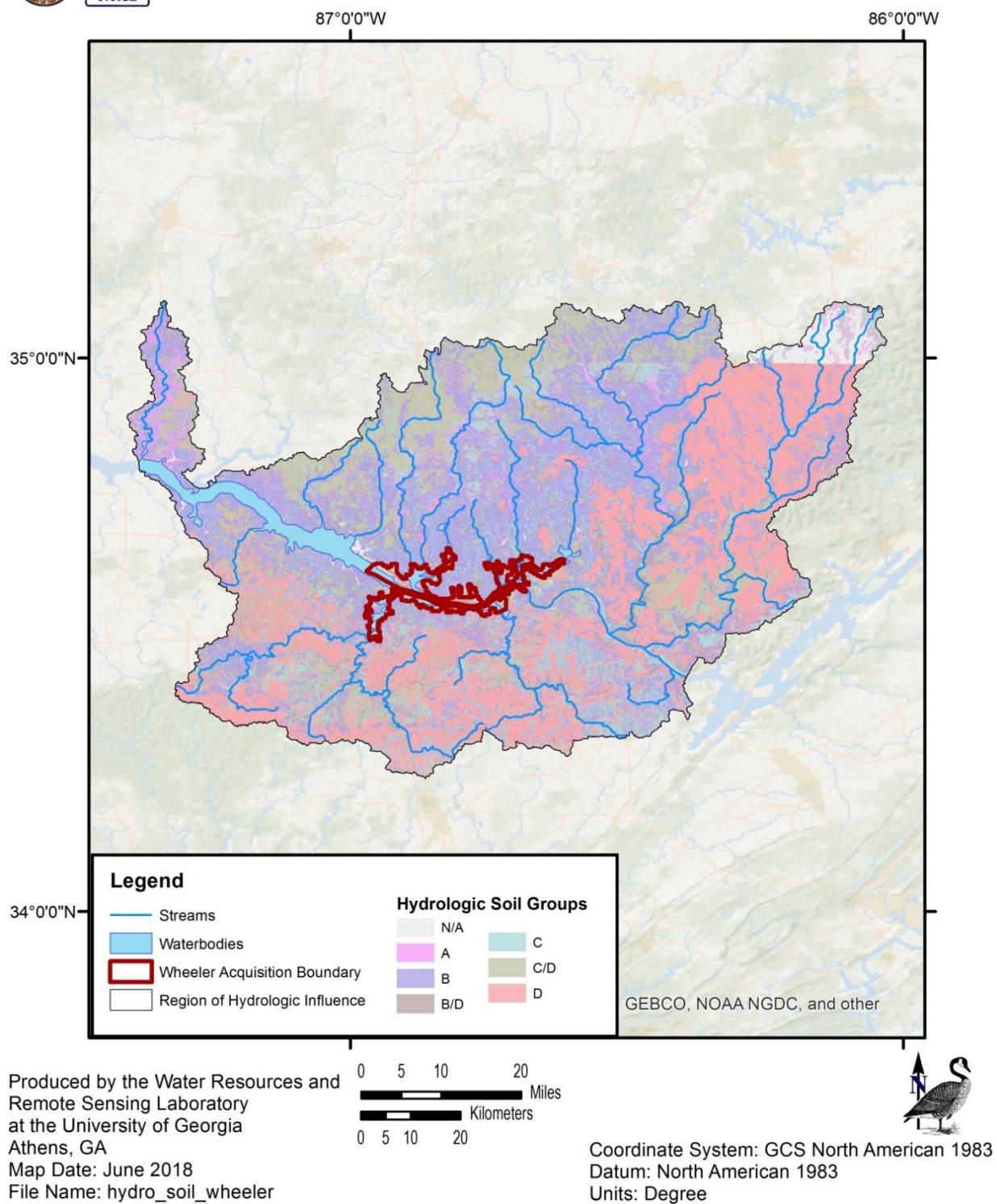


Figure 9. Hydrologic soil groups in the RHI of Wheeler NWR. (Soil Survey Staff & NRCS, 2017).

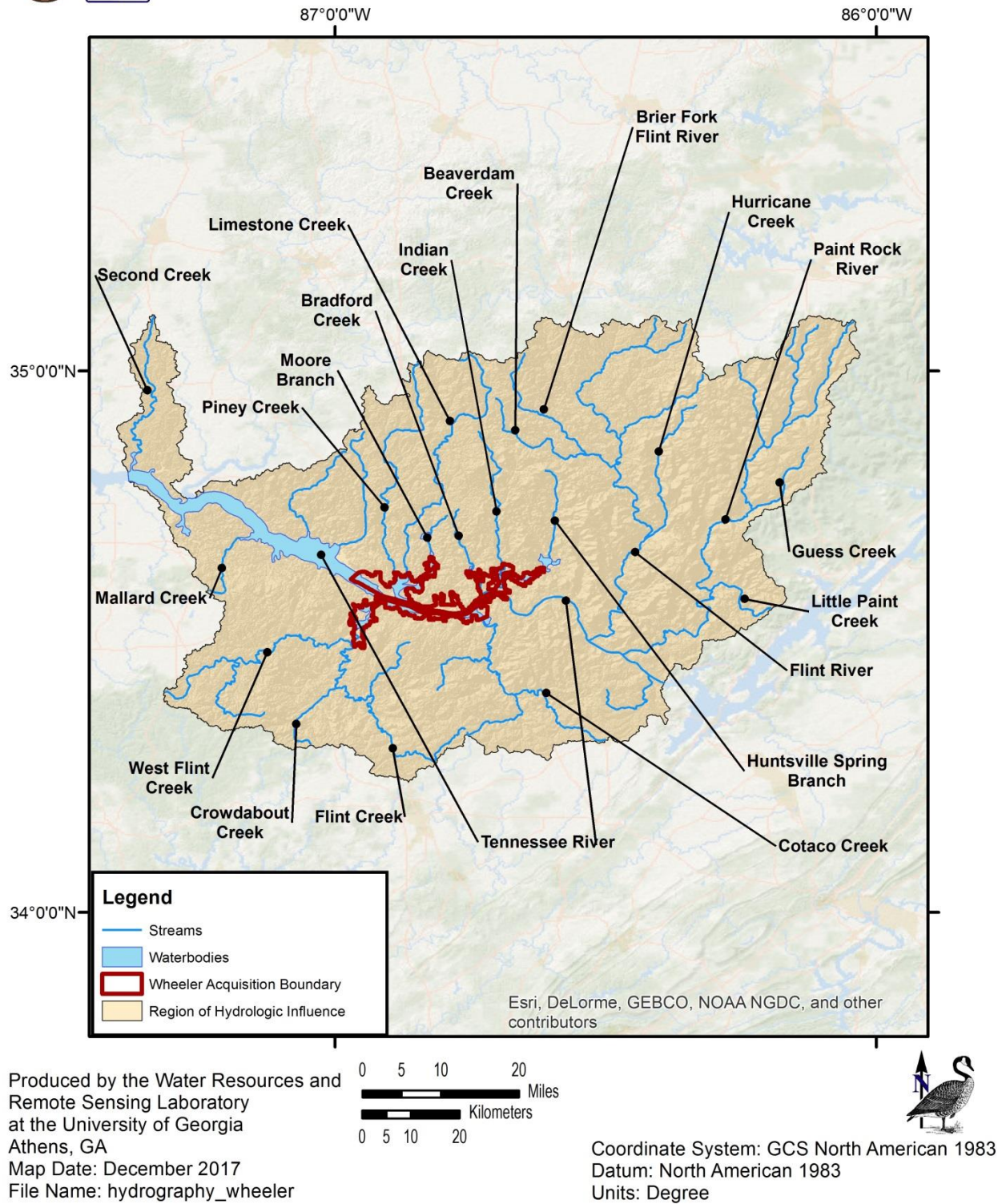
3.4.5 Hydrology

Located in the Tennessee River Valley, Wheeler NWR surrounds the Tennessee River that flows through the refuge east to west. As the Tennessee River flows through the refuge, the water enters the Wheeler Reservoir, which is owned and operated by the Tennessee Valley Authority (TVA). The Flint and the Cotaco Creeks on the south side and Piney, Limestone, Beaverdam and Indian Creeks on the north side of the Tennessee River are all tributaries that flow across the refuge lands into the river (Figure 10). While there are some small branches that connect, these are the main tributaries. Wheeler Reservoir normally has an elevation of 556 feet in the summer (USFWS, 2007). While the pool is at normal elevation, the refuge has approximately 15,500 acres of open water (USFWS, 2007).



Wheeler National Wildlife Refuge

Hydrography



Produced by the Water Resources and
Remote Sensing Laboratory
at the University of Georgia
Athens, GA
Map Date: December 2017
File Name: hydrography_wheeler

0 5 10 20 Miles
0 5 10 20 Kilometers

Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Figure 10. Hydrography of the RHI of Wheeler NWR. (USGS, 2013a)

3.4.6 Land Use and Land Cover

Due to its mild winters and fish and wildlife resources, northern Alabama has been settled by humans for a long time. Within Wheeler NWR there are four archaeological sites that are considered culturally significant (USFWS, 2007). The Tennessee Valley was settled by the Shawnee, Chickasaw, or Cherokee tribe (Joiner, 1987). Europeans took control over the land in the early 1800s and formed a county in 1809. The Europeans found a lush forest in the valley and used the timber for developing Madison County (USFWS, 2007).

Within the RHI of Wheeler NWR the largest percentages of land cover are: Deciduous Forest (28.79%), Pasture/Hay (25.19%) and Cultivated Crops (13.26%) (Table 2). Surrounding Wheeler NWR there are highly developed areas to the southwest and northeast (Figure 11).

Table 2. Land cover classifications in the RHI of Wheeler NWR. (USGS, 2014).

Classification	Percentage
Open Water	3.22
Developed, Open Space	6.85
Developed, Low Intensity	3.90
Developed, Medium Intensity	1.24
Developed High Intensity	0.44
Barren Land (Rock/Sand/Clay)	0.13
Deciduous Forest	28.79
Evergreen Forest	3.09
Mixed Forest	3.20
Shrub/Scrub	4.77
Grassland/Herbaceous	1.85
Pasture/Hay	25.19
Cultivated Crops	13.26
Woody Wetlands	3.94
Emergent Herbaceous Wetlands	0.12



Wheeler National Wildlife Refuge

Land Cover

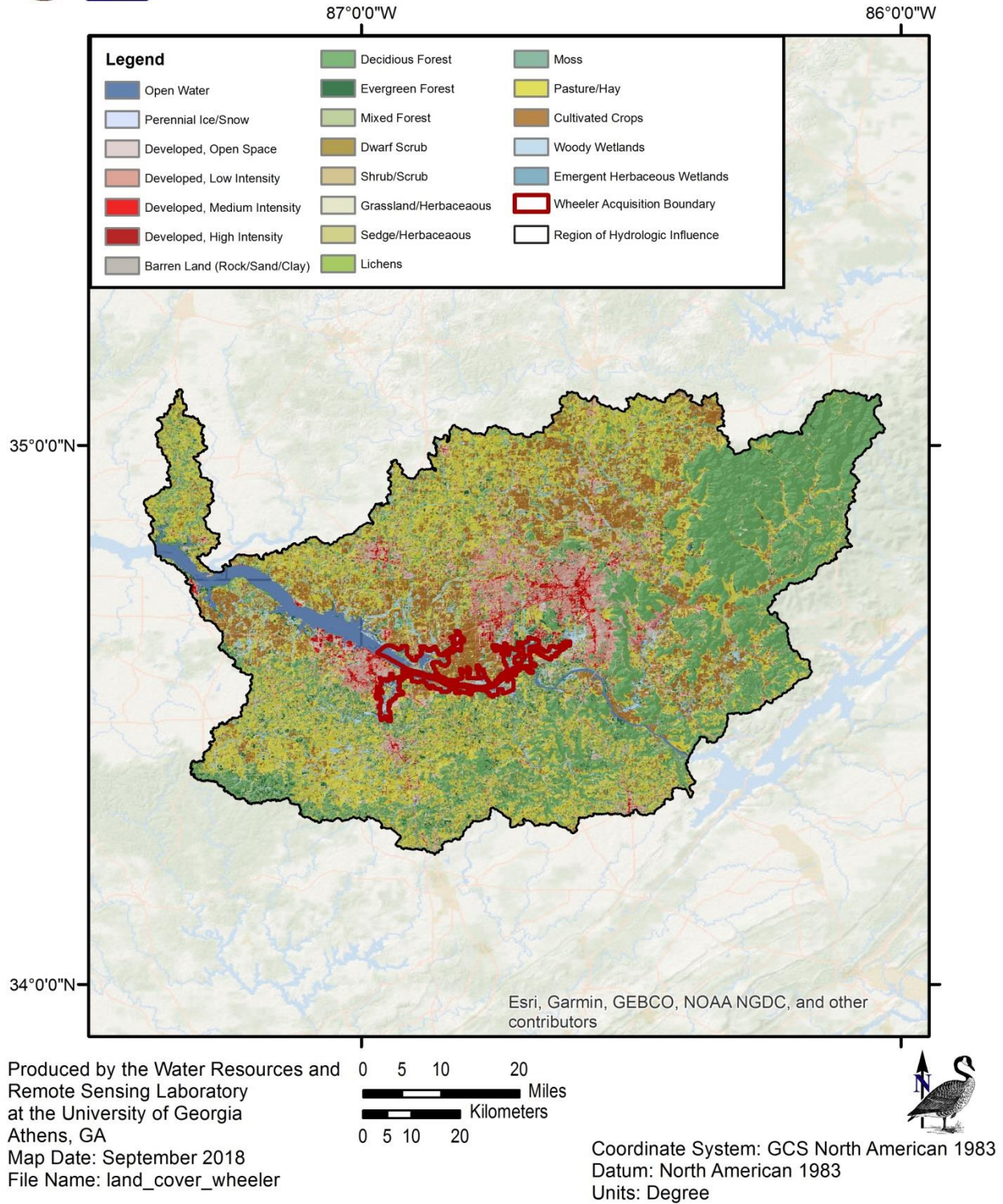


Figure 11. Land cover in the RHI of Wheeler NWR. (USGS, 2014).

3.4.7 Climate

The Global Historical Climatology Network (GHCN) has 178 stations across the Region of Hydrologic Influence, and one (USC00012209) is located within the boundary of Wheeler NWR. The GCHN-Daily was used for this report and is a collection of over 100,000 climate stations around the globe (Menne, Durre, Vose, Gleason, & Houston, 2012). This database uses climate stations from various sources and therefore is a large variation in length of record and data collected. The GHCN station USW00003856 was used for further analysis because of its proximity to the refuge and its amount of data. Locations and information about all of the stations can be found in Figure 12 and in Appendix D.

Station USW00003856 is located just to the north of the center of the refuge and has collected data since 1937 (Figure 12). The years that were analyzed had at least 300 days with data. The most recent year (2017) had an average, minimum, and maximum daily temperatures, 64.26 °F, 53.75 °F, and 74.77 °F respectively, that was higher than the averages over the period from 1937 to 2017 (Table 3). The average temperatures in the 4th quarter were also higher than the average over the whole time period (Table 4). The average yearly temperatures have been steadily increasing since the 1990s. The yearly precipitation appears to not have had any major trends. On average, March has the most precipitation with 5.96 inches of rain and October has the least amount of rain with 3.11 inches (Figure 13). The year 2007 had the lowest total rainfall with 28.65 inches of rain recorded at this station, and 1989 had the highest total rainfall at 73.58 inches (Figure 14). The year with the lowest average temperature is 1976, the three years with the highest average temperatures are 2016, 2015, and 2017 (Figure 15). Over the period from 1937 to 2017, July is the hottest month with an average of 79.69 °F and January is the coolest month with an average of 40.84 °F (Figure 16).

Table 3. Overview of the precipitation and temperature data from station USW00003856.
(NOAA Regional Climate Center, 2018).

Type of Data	Years	Amount of Years with Data	Total Average	Most Recent Year (2017)
Average Temperature (°F)	1937-2017	71	61.15	64.26
Maximum Temperature (°F)	1937-2017	75	72.08	74.77
Minimum Temperature (°F)	1937-2017	71	50.27	53.75
Yearly Precipitation (in)	1938-2017	68	54.29	53.57

Table 4. Precipitation and temperature data from station USW00003856. (NOAA Regional Climate Center, 2018).

Type of Data	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total Average
Average Temperature (°F)	1937-1962	1962-1980	1980-1999	1999-2017	1937-2017
	61.08	60.45	60.89	62.25	61.15
Maximum Temperature (°F)	1937-1960	1960-1979	1979-1999	1999-2017	1937-2017
	72.64	71.15	71.40	73.09	72.08
Minimum Temperature (°F)	1937-1962	1962-1980	1980-1999	1999-2017	1937-2017
	49.53	49.80	50.25	51.49	50.27
Yearly Precipitation (in)	1938-1966	1966-1983	1983-2000	2000-2017	1938-2017
	50.41	57.56	56.97	51.71	54.29



Wheeler National Wildlife Refuge

Historical Climatology Network (HCN) Stations

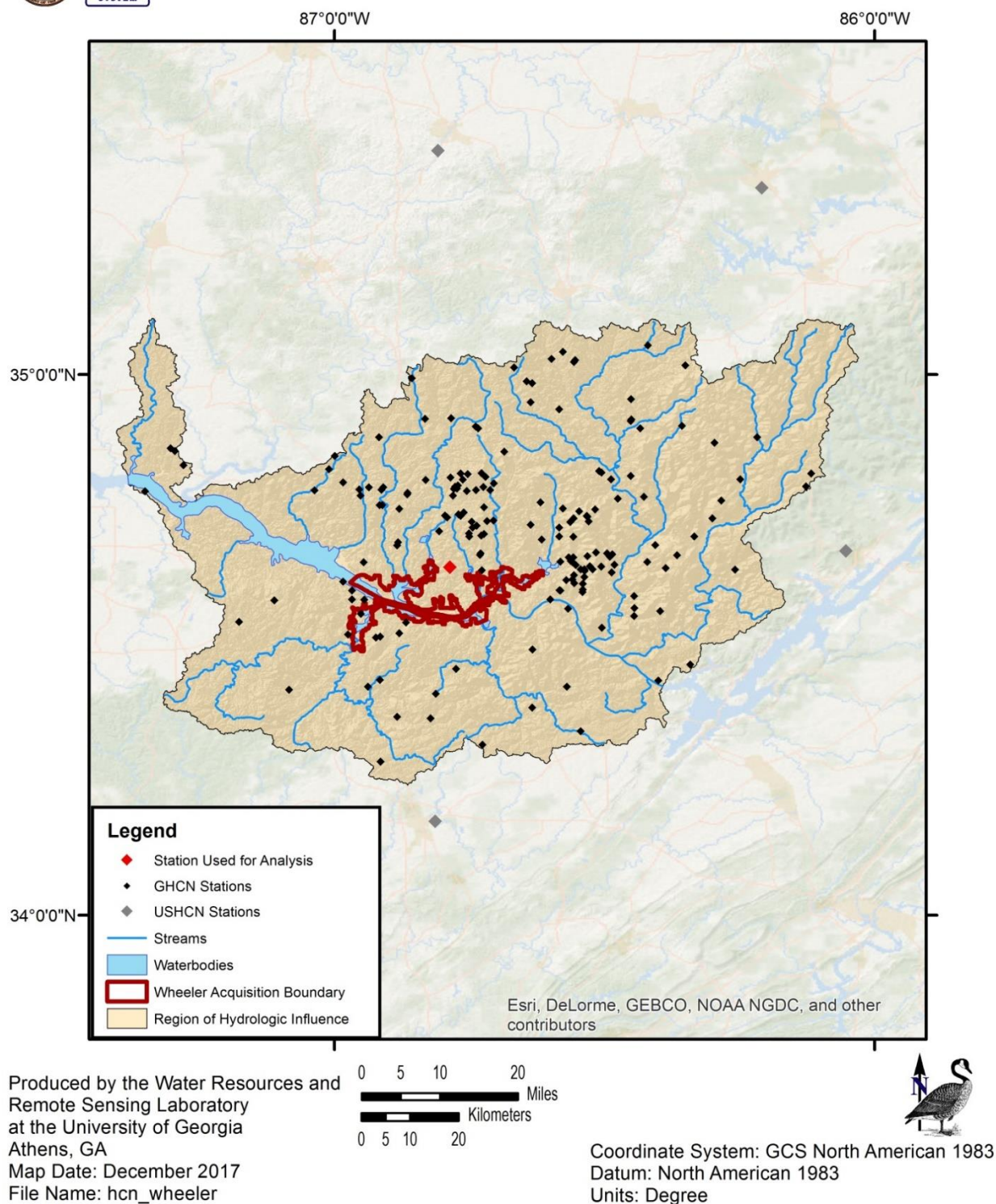


Figure 12. Historical Climatology Network (HCN) stations in the RHI. More information about these station locations can be found in Appendix D. (Menne et al., 2012)

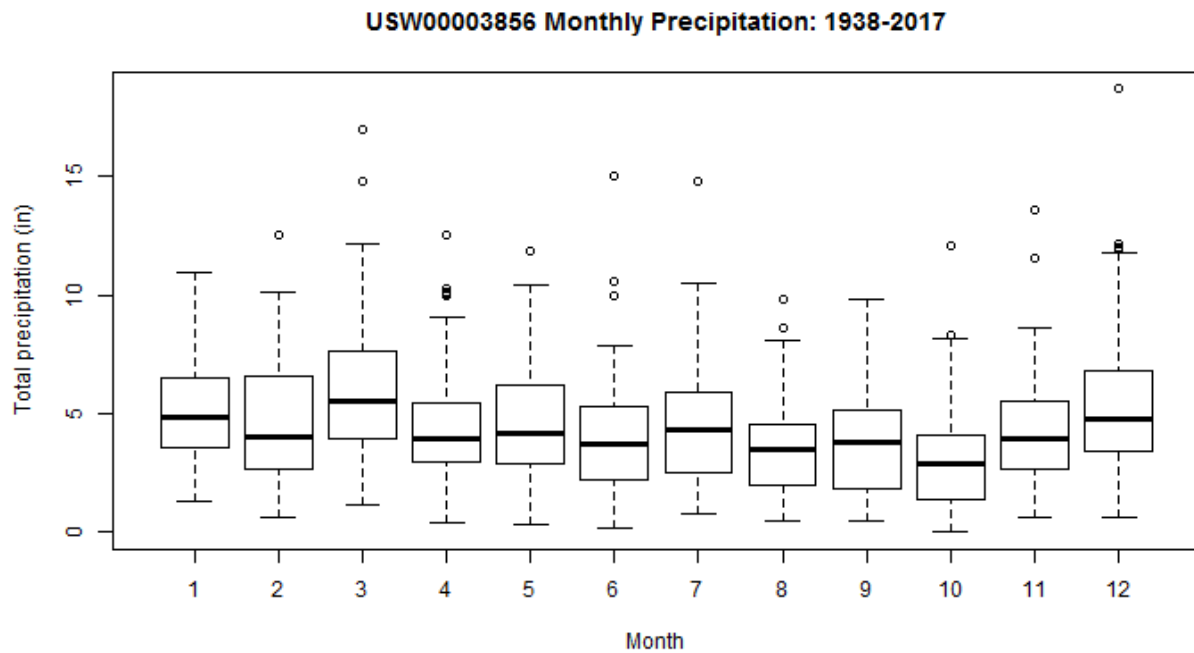


Figure 13. Average monthly precipitation at station USW00003856 from 1938 to 2017. (NOAA Regional Climate Center, 2018).

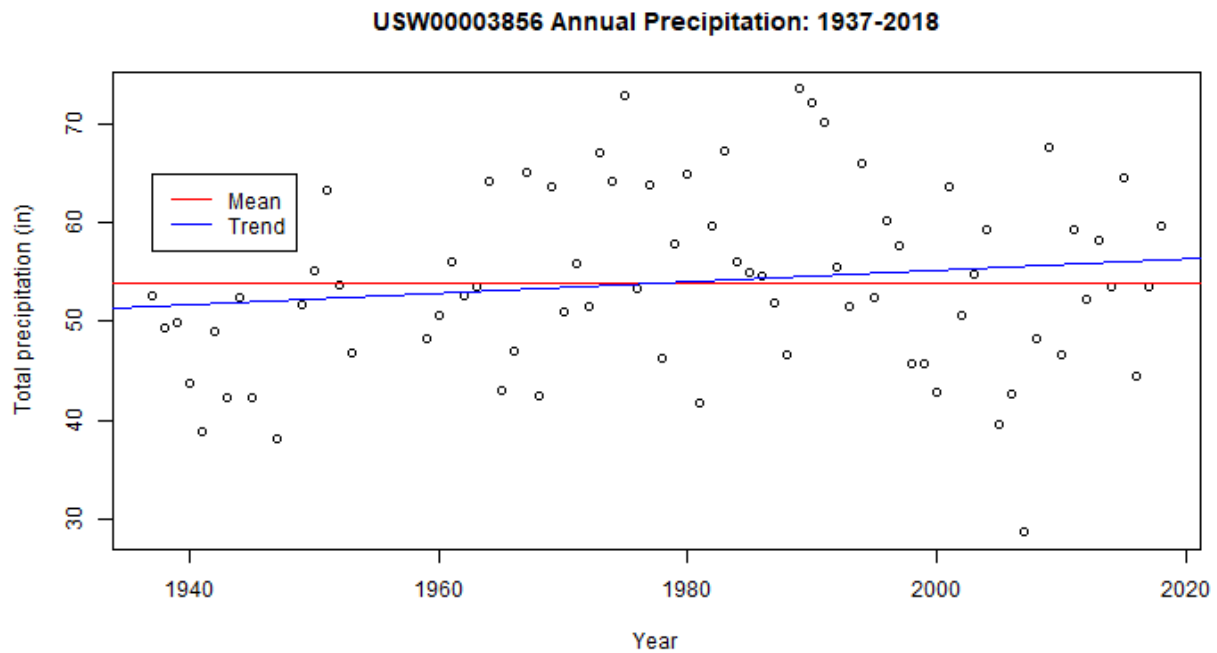


Figure 14. Annual precipitation at station USW00003856 from 1938 to 2017. (NOAA Regional Climate Center, 2018).

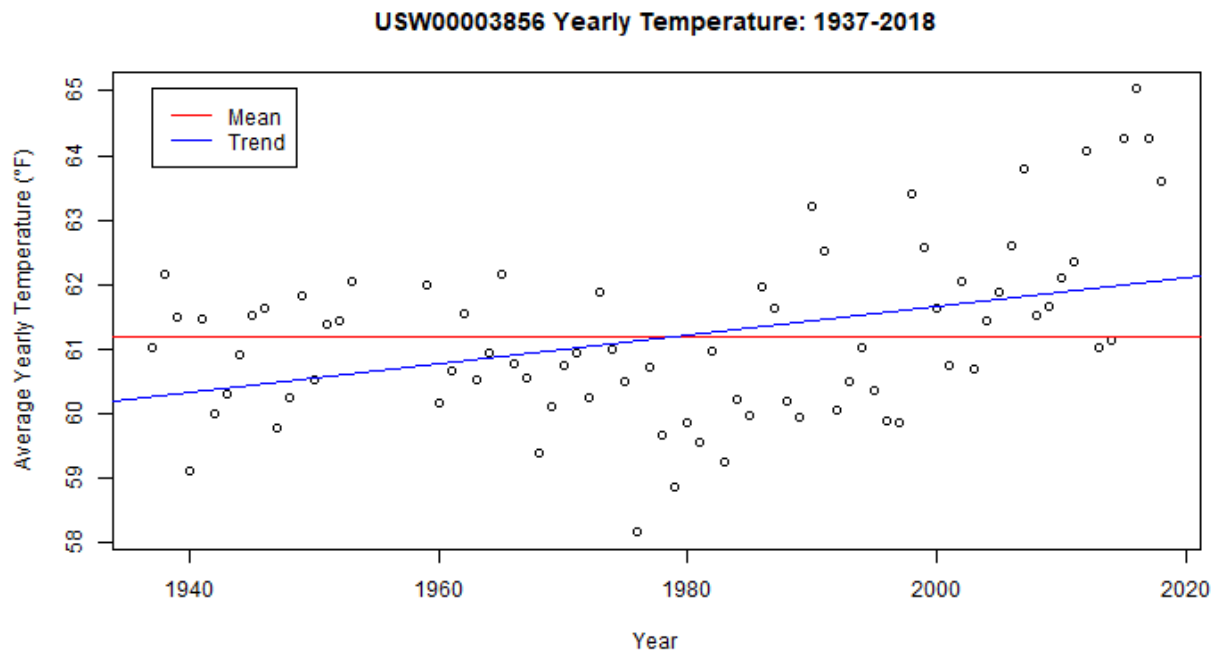


Figure 15. Average yearly temperature at station USW00003856 from 1937 to 2017. (NOAA Regional Climate Center, 2018).

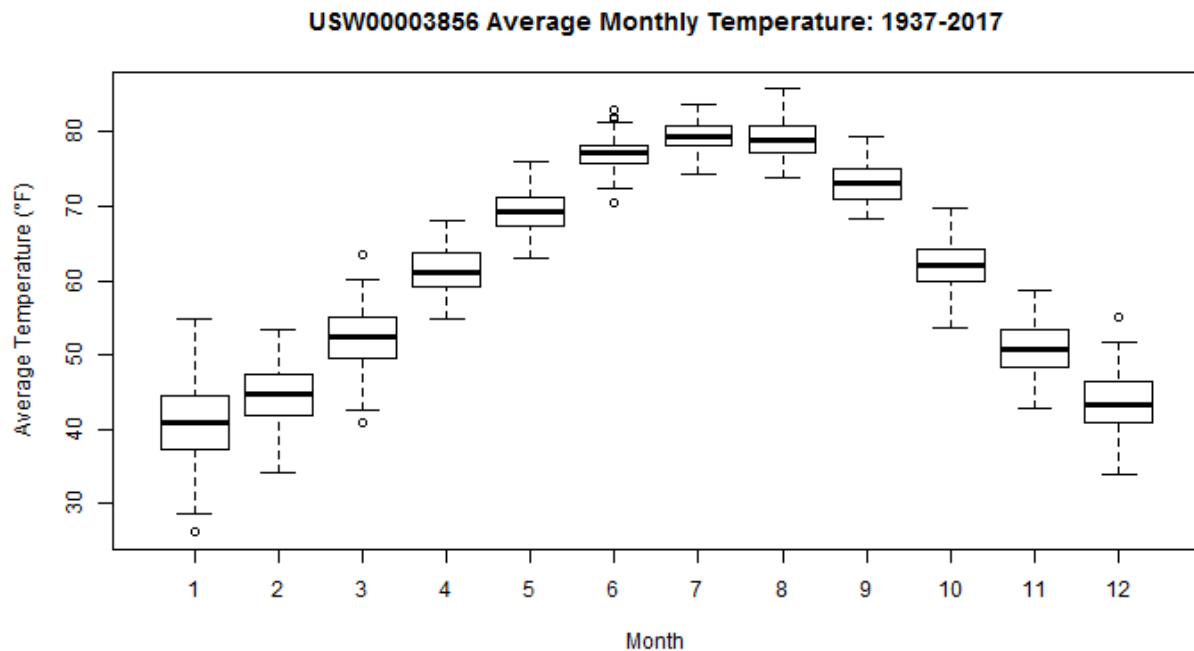


Figure 16. Average monthly temperature at station USW00003856 from 1937 to 2017. (NOAA Regional Climate Center, 2018).

3.5 Inventory Summary and Discussion

This section will summarize the findings of the water resources inventory for both surface water and groundwater for the RHI around Wheeler NWR. This inventory includes physical water resources, monitoring records, water quantity, and water quality conditions.

3.5.1 Water Resources

Using a variety of databases, this section will examine the water resources on Wheeler NWR and within the RHI. Some of the information was provided by the refuge staff at Wheeler NWR.

3.5.1.1 Rivers, Streams, and Creeks

The U.S. Geologic Survey (USGS) and the Environmental Protection Agency (EPA), started assembling the National Hydrography Dataset (NHD) in 1997. The most recent update to the database was in March 2014. According to the NHD, there are four different categories of streams in the RHI: connectors, artificial paths, intermittent and perennial (33400, 55800, 46003, and 46006 respectively). Streams can have different areas that are in different categories. Artificial paths represent a surrogate for general flow direction within a reservoir, estuary, or wide river that is represented as an area rather than a line within NHD. Connectors represent a known but nonspecific connection between two nonadjacent network segments, such as between an artificial path segment upstream of a dam and a perennial stream segment downstream of the dam. The table below shows the “FCode” that each stream has in the RHI which correspond to different categories.

Due to the shape of the acquisition boundary and the NHD dataset, the Tennessee River is not included in the acquisition boundary of Wheeler NWR (Figure 17). However, the Tennessee River is accounted for as Wheeler Lake in Section 3.5.1.3. Of the named streams, the

Flint Creek has the longest length of 8.54 miles with the next longest streams: Indian Creek (7.46 miles), Beaverdam Creek (7.12 miles), and Huntsville Spring Branch (6.64 miles). Within the total RHI of Wheeler NWR there is a total of 6,772.91 miles of flowlines (2,283.91 miles are named and 4,489.01 miles are unnamed) (Table 6).

Table 5. Streams and rivers in the acquisition boundary of Wheeler NWR. (USGS, 2013a).

Name	Artificial Path	Connector	Intermittent	Perennial	Total
Barren Fork Creek	4.14			0.48	4.62
Beaverdam Creek	5.65			1.46	7.12
Black Branch	0.36			0.11	0.47
Blackwell Run	0.27			2.38	2.65
Blue Hole Branch	0.82			0.33	1.15
Brakes Branch	0.10			1.90	2.00
Brush Creek	2.37			0.16	2.53
Cave Spring Branch	1.26			0.53	1.79
Cotaco Creek	1.82				1.82
Crowder Slough	0.62			0.17	0.78
Flint Creek	8.54				8.54
Ginhouse Branch	3.76			0.43	4.19
Huntsville Spring Branch	6.64				6.64
Indian Creek	5.94			1.52	7.46
Limestone Creek	4.51				4.51
Madden Branch	2.33			0.62	2.94
Martin Branch	0.91			0.40	1.31
Matney Branch	0.69			0.44	1.13
Miller Branch	0.08			0.06	0.14
Muddy Branch	1.65	0.01		0.29	1.96
Piney Creek	1.63				1.63
Village Branch	0.71			1.13	1.84
Withers Spring Branch				0.80	0.80
Unnamed	30.38	0.07	0.25	53.14	83.84
Total	85.21	0.08	0.25	66.32	151.87

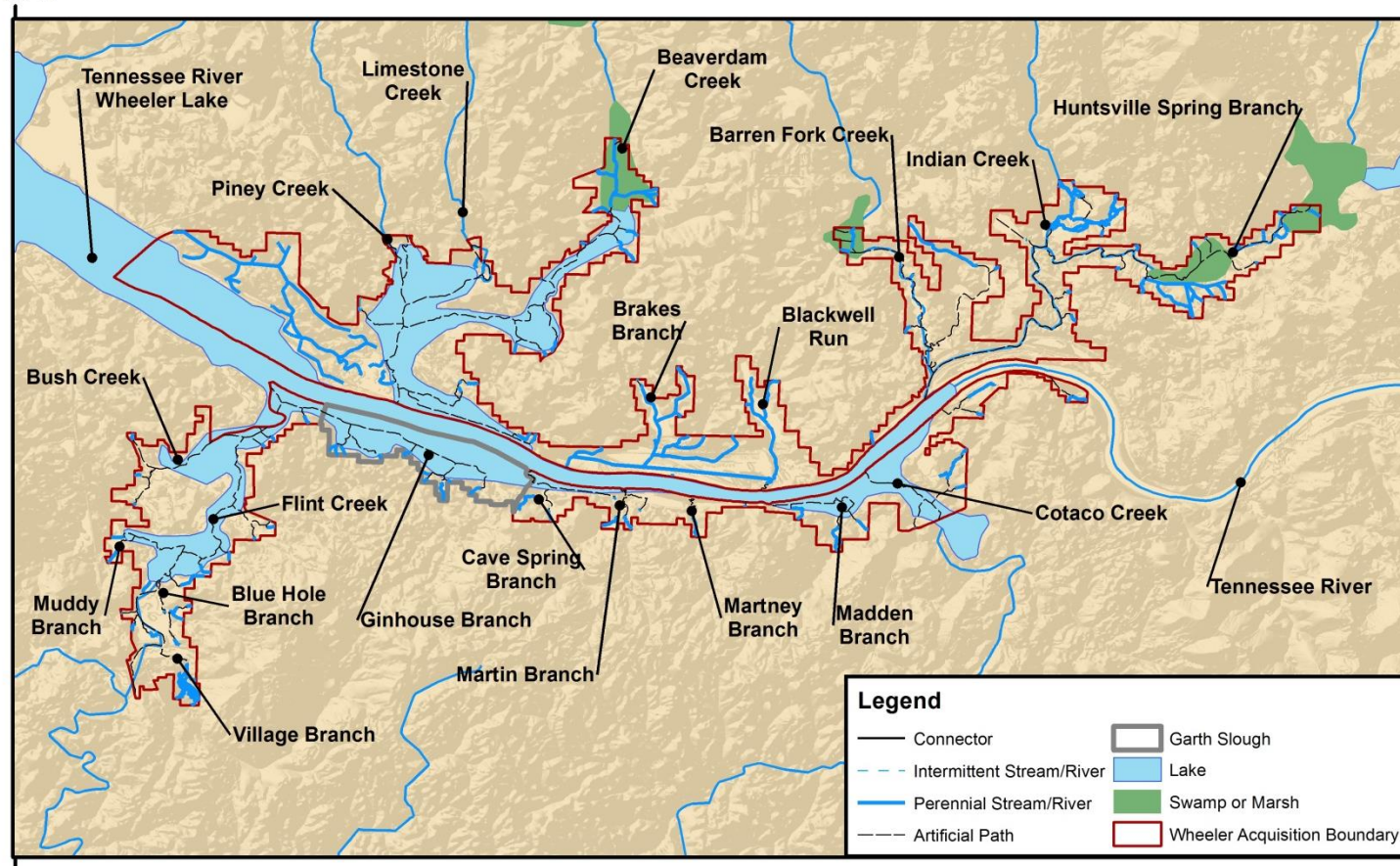
Table 6. Streams and rivers in the RHI and acquisition boundary of Wheeler NWR. (USGS, 2013a).

FCode	Miles within the RHI	Miles within the Acquisition Boundary
Artificial Path (Named)	492.83	54.83
Artificial Path (Unnamed)	219.02	30.38
Connector (Named)	1.28	0.01
Connector (Unnamed)	1.91	0.07
Intermittent (Named)	40.07	NA
Intermittent (Unnamed)	1,078.28	0.25
Perennial (Named)	1,749.72	13.19
Perennial (Unnamed)	3,189.79	53.14
Total Named	2,283.91	68.03
Total Unnamed	4,489.01	83.84
Total	6,772.91	151.87



Wheeler National Wildlife Refuge Streams and Rivers

87°0'0"W



Produced by the Water Resources and
Remote Sensing Laboratory
at the University of Georgia
Athens, GA
Map Date: August 2018
File Name: streams_wheeler

0 1.25 2.5 5
Miles
0 1.25 2.5 5
Kilometers

Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree



Figure 17. Streams in the acquisition boundary of Wheeler NWR. (USGS, 2013a).

3.5.1.2 Canals

Within the RHI there is a total of 38.81 canals/ditches according to the NHD. However, none of these are located within the acquisition boundary of Wheeler NWR.

Table 7. Canals and ditches in the RHI of Wheeler NWR. (USGS, 2013a).

FCode	Miles within the RHI
Canal/Ditch (aqueduct) (Named)	0.59
Canal/Ditch (aqueduct) (Unnamed)	2.52
Canal/Ditch (no attributes) (Named)	14.83
Canal/Ditch (no attributes) (Unnamed)	20.87
Total Named	15.42
Total Unnamed	23.39
Total	38.81

3.5.1.3 Lakes and Ponds

Within the acquisition boundary of Wheeler NWR, there are eight named waterbodies according to the NHD (Table 8). Three of the waterbodies are categorized as “Swamp/Marsh” (Beaverdam Swamp, Blackwell Swamp, and Talley Bottom), while the other five are listed as “Perennial” waterbodies. Wheeler Lake is the largest waterbody on the refuge, which makes up 13.4 of the 14.84 miles² of perennial waterbodies on the refuge. There are also 3.64 mi² of unnamed waterbodies on the refuge (Table 9). The NHD does not include Garth Slough which is an important feature of Wheeler NWR (Figure 17). Garth Slough is 3.18 miles², and the NHD classifies some portions of it as Wheeler Lake, Unnamed Perennial Waterbody and Unnamed Swamp/Marsh; therefore, only 1.47 miles² of Garth Slough are unaccounted for on the refuge. Within the RHI of Wheeler NWR, there is a total of 106.65 miles² waterbodies (86.77 miles² named and 19.88 miles² unnamed) (Table 9).

Table 8. Lakes and ponds in the acquisition boundary of Wheeler NWR. (USGS, 2013a).

Name	FCode	Area in the Acquisition Boundary (mi ²)
Beaverdam Swamp	Swamp/Marsh	0.12
Blackwell Swamp	Swamp/Marsh	0.08
Crabtree Slough	Perennial	0.20
Dinsmore Slough	Perennial	0.17
Garth Slough	NA	1.47
Mitchell Pond	Perennial	0.10
Swan Pond	Perennial	0.02
Talley Bottom	Swamp/Marsh	0.06
Wheeler Lake	Perennial	13.40
Unnamed	Perennial	0.66
Unnamed	Perennial	0.28
Unnamed	Swamp/Marsh	2.52
Total	Perennial	14.84
Total	Swamp/Marsh	2.78
Total	All	19.08

Table 9. Lakes and ponds in the RHI and acquisition boundary of Wheeler NWR. (USGS, 2013a).

FCode	Area in the RHI (mi ²)	Area in the Acquisition Boundary (mi ²)
Intermittent (Unnamed)	0.48	NA
Lake/Pond- no attributes (Named)	0.14	NA
NA (Named)	1.47	1.47
Perennial (Named)	83.50	13.90
Perennial (Unnamed)	9.18	0.94
Swamp/Marsh (Named)	1.66	0.25
Swamp/Marsh (Unnamed)	10.22	2.52
Total Named	86.77	15.62
Total Unnamed	19.88	3.46
Total	106.65	19.08

3.5.1.4 Springs and Seeps

According to the NHD, there are 241 springs/seeps in the RHI of Wheeler NWR; 137 of the springs are named. Within five miles of the refuge there are 33 springs, of which 21 are named (Figure 18).

3.5.1.5 Wetlands

The US Fish and Wildlife Service published the National Wetland Inventory (NWI) for the entire United States in 1974. The NWI keeps track of the wetlands and provides reports of the trends and statuses of the different wetlands. The acquisition boundary of Wheeler NWR has a total of 19.27 square miles of Freshwater Wetlands and the RHI has 215.01 square miles of Freshwater Wetlands according to the NWI (Table 10). Over 90% of the wetlands in the Region of Hydrologic Influence are categorized as Freshwater Forested/Shrub Wetland.

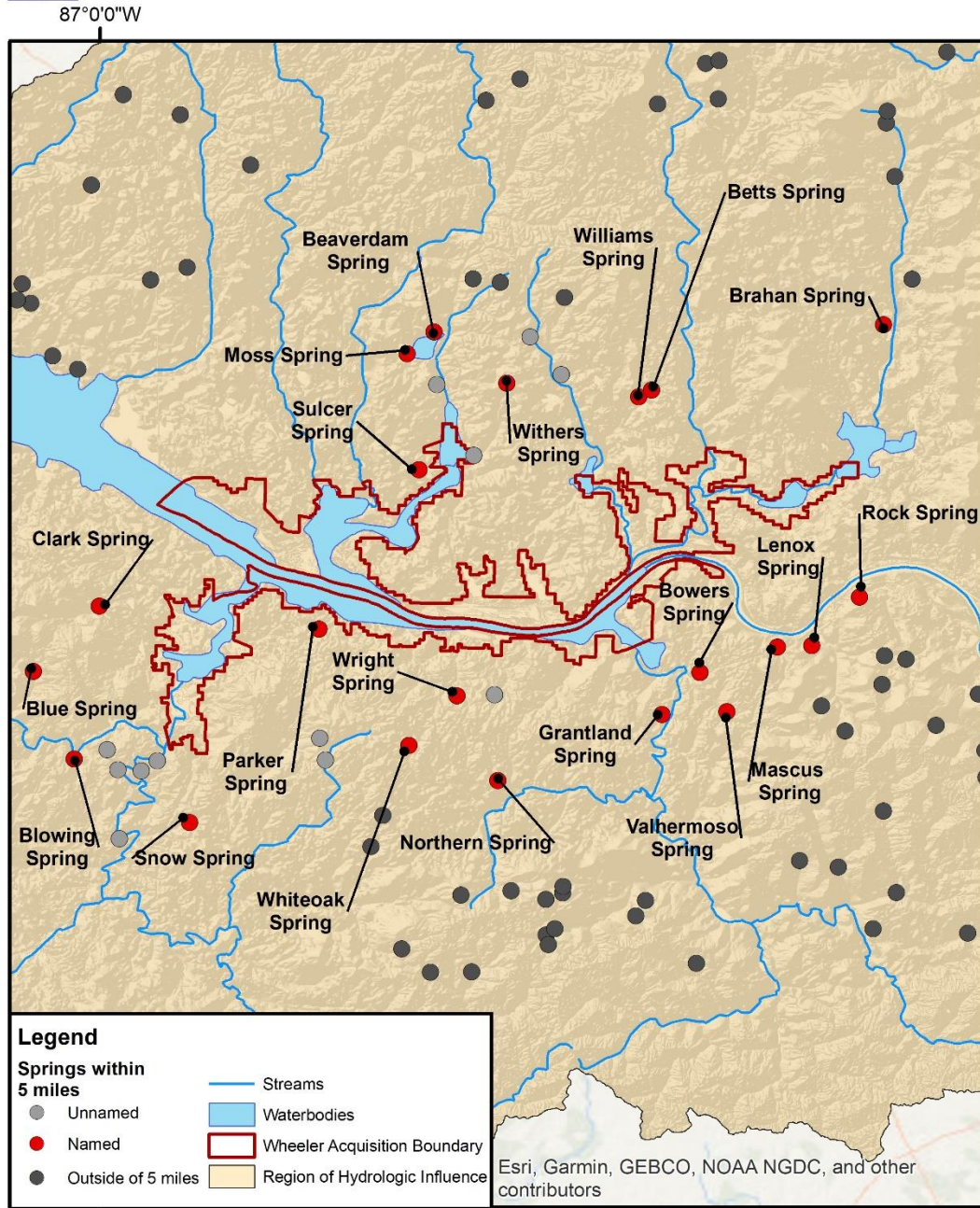
Table 10. Types of wetlands in the RHI and acquisition boundary of Wheeler NWR. (USFWS, 2015)

Type of Wetland	Area in the RHI (mi ²)	Area in the Acquisition Boundary (mi ²)
Freshwater Emergent Wetland	16.54	3.93
Freshwater Forested/Shrub Wetland	198.48	15.33
Freshwater Pond	10.60	0.27
Lake	83.43	13.84
Riverine	28.45	0.28
Total Freshwater Wetland	215.01	19.27
Total	337.49	33.65



Wheeler National Wildlife Refuge

Springs



Produced by the Water Resources and Remote Sensing Laboratory at the University of Georgia Athens, GA
Map Date: August 2018
File Name: springs_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

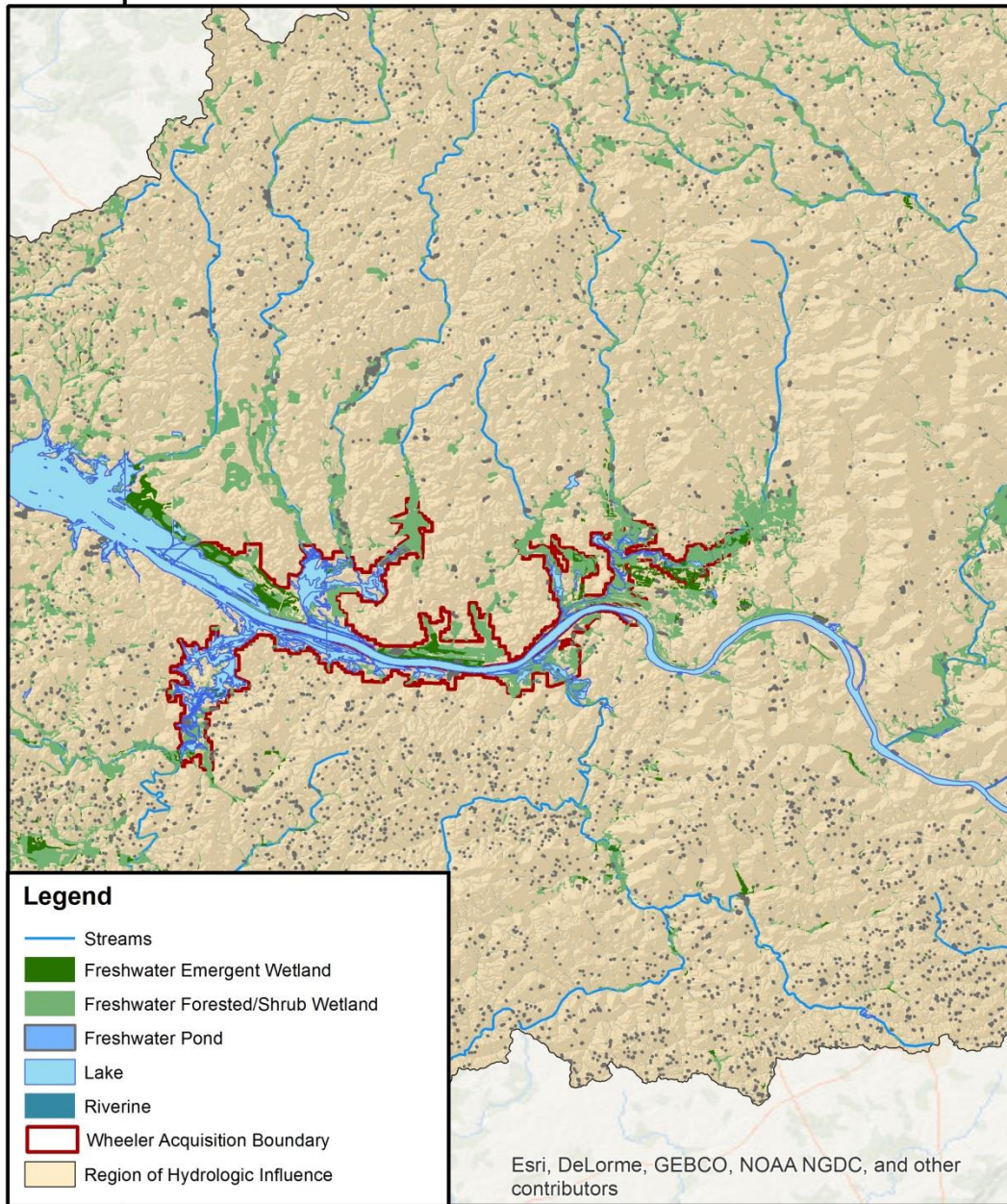
Figure 18. Springs surrounding Wheeler NWR. (USGS, 2013a).



Wheeler National Wildlife Refuge

Wetlands

87°0'0"W



Produced by the Water Resources and
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at the University of Georgia
Athens, GA
Map Date: August 2018
File Name: wetlands_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Figure 19. Wetlands within Wheeler NWR. (USFWS, 2015).

3.5.2 Infrastructure

Infrastructure on Wheeler NWR or within the boundaries of the RHI can potentially alter the water resources to varying degrees. The following is an inventory of infrastructure, both man and naturally made, relevant to water resources within Wheeler NWR and the RHI.

3.5.2.1 Dam Inventory

There is a total of 88 dams in the Region of Hydrologic Influence listed as a part of the Southeast Aquatic Resources Partnership (SARP) dataset. Of the 88 dams, 27 of them are named (Figure 20 and Table 12), 59 are estimated dams, and two are unnamed. The “estimated” dams are modeled by the SARP using the NHD plus waterbody dataset (SARP, 2017). There is one dam on the refuge according to the SARP database, but that dam is estimated and is not included in this section. More information on the dams can be found in Appendix E.

According to the Wheeler refuge staff, there are 27 dams made by beavers on the refuge. These dams create 27 areas of impounded waters that add up to a total of 14,960.77 acres, or 23.38 square miles of Wheeler NWR. White Springs can be split into 7 different sections and is located in the northwestern corner of the refuge (Figure 21). Talley Bottoms is the largest area at 1,673.70 acres; however, when added together, all of the White Springs are the largest (2,196.50 acres) (Table 11).

Table 11. Beaver dam areas in Wheeler NWR. To keep the data consistent with what the refuge staff provided, the areas are listed in acres. (Wheeler National Wildlife Refuge Staff).

Name	Area in Wheeler NWR (ac)
Bean Place Road	632.89
Black Branch	972.18
Blackwell Swamp	1,048.78
Brake Springs	44.84
Buckeye	375.21
Cave Springs	470.13
Crabtree Slough/ Blue Hole	416.91
Crowder Slough	499.64
Dinsmore Slough	687.74
Garth Slough/ Banding Slough	726.12
Gin House Branch	328.65
Madden Branch	883.22
Martin Branch	542.05
McCloskey's Branch	248.97
Observation Pond	291.56
Penney Bottoms	852.72
Redbank/ Dancey Bottoms	798.37
Rockhouse	1,099.45
Talley Bottoms	1,673.70
Turkey Mountain	171.13
White Springs #1A	126.77
White Springs #1B	667.60
White Springs #2	216.81
White Springs #3	292.99
White Springs #4	197.04
White Springs #5	67.33
White Springs #6	627.96
Total	14,960.77

Table 12. Named dams in the RHI of Wheeler NWR. Map ID corresponds to locations in Figure 20. (SARP, 2017).

Map ID	Name	Year Completed	NIDID
1	PAUL RIGSBY DAM	1952	AL00993
2	MONTGOMERY LAKE	1964	AL01009
3	LAWSON LAKE NO. 1	1961	AL01011
4	LAWSON LAKE NO. 2	1963	AL01012
5	JIMMY JOHNSTON LAKE DAM	1958	AL01014
6	SMITH,WALKER,AND JOHNSON LAKE DAM	1963	AL01015
7	MT. LAKE RESORT	1956	AL01016
8	MADISON COUNTY PUBLIC LAKE DAM	1958	AL01020
9	MARY ANN DRAKE	1956	AL01021
10	LITTLE PAINT CREEK W/S SITE 9	1962	AL01022
11	PINE LAKE DAM	1972	AL01023
12	LAKE CHULAVISTA DAM	1958	AL01028
13	GUY ROBERTS DAM	1968	AL01029
14	ROMINE LAKE DAM	1966	AL01533
15	HILL POND DAM	1979	AL01754
16	LITTRELL DAM	1960	AL01902
17	LAWSON LAKE NO. 3	1961	AL02209
18	RICHARD CRIBBS	1998	AL02536
19	Pine Lake Dam	NA	
20	Sims Lake Dam	NA	
21	Lynn Dam	NA	
22	BROOKWOOD FOREST LAKE	1969	AL01010
23	LAKE GARY DAM	1962	AL01013
24	Madison County Nature Trail Dam	NA	
25	Randall Mullins Lake Dam	NA	
26	Charles Head Pond Dam	NA	
27	Seeburn Hezerig Dam	NA	



Wheeler National Wildlife Refuge

Named Dams

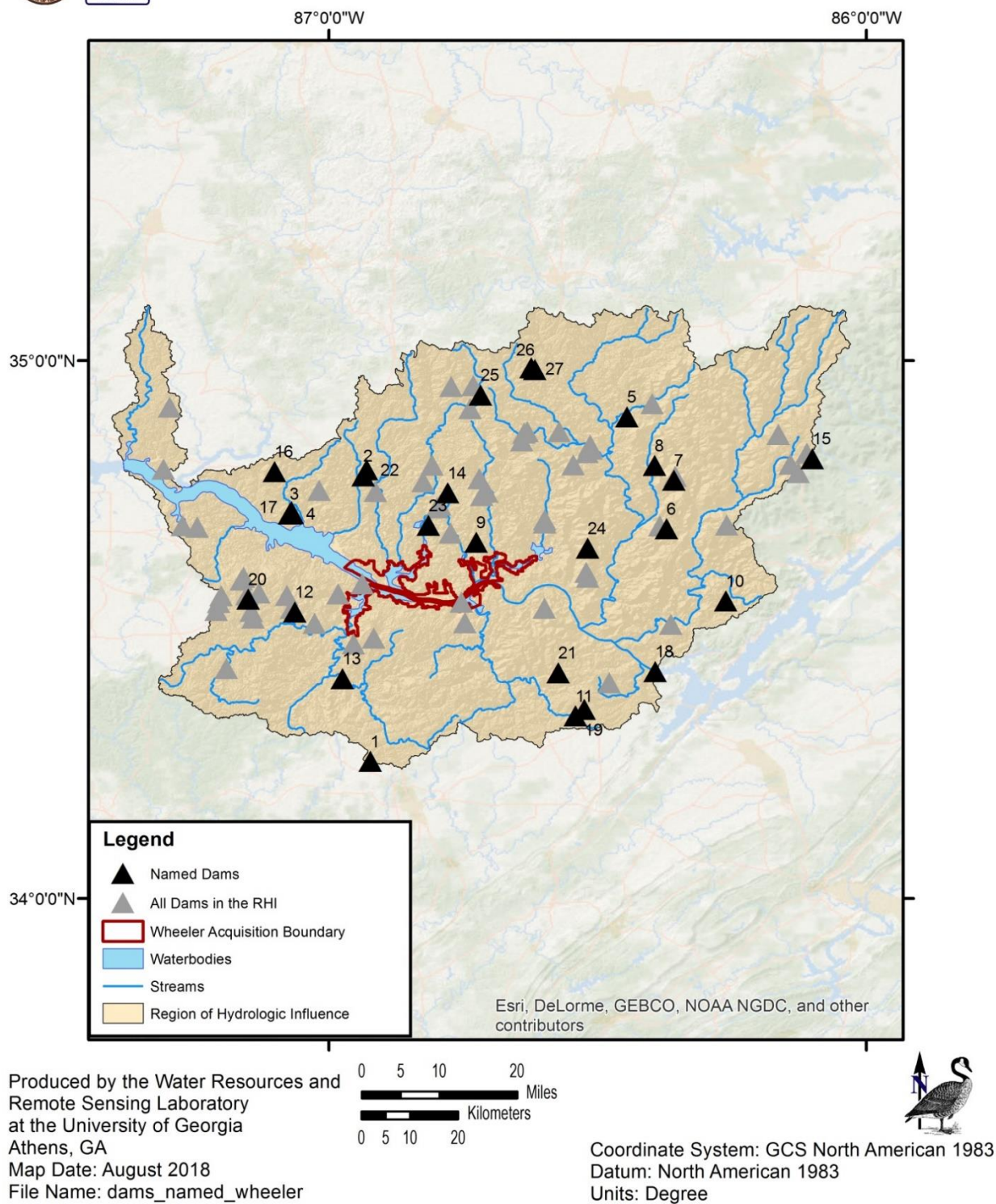


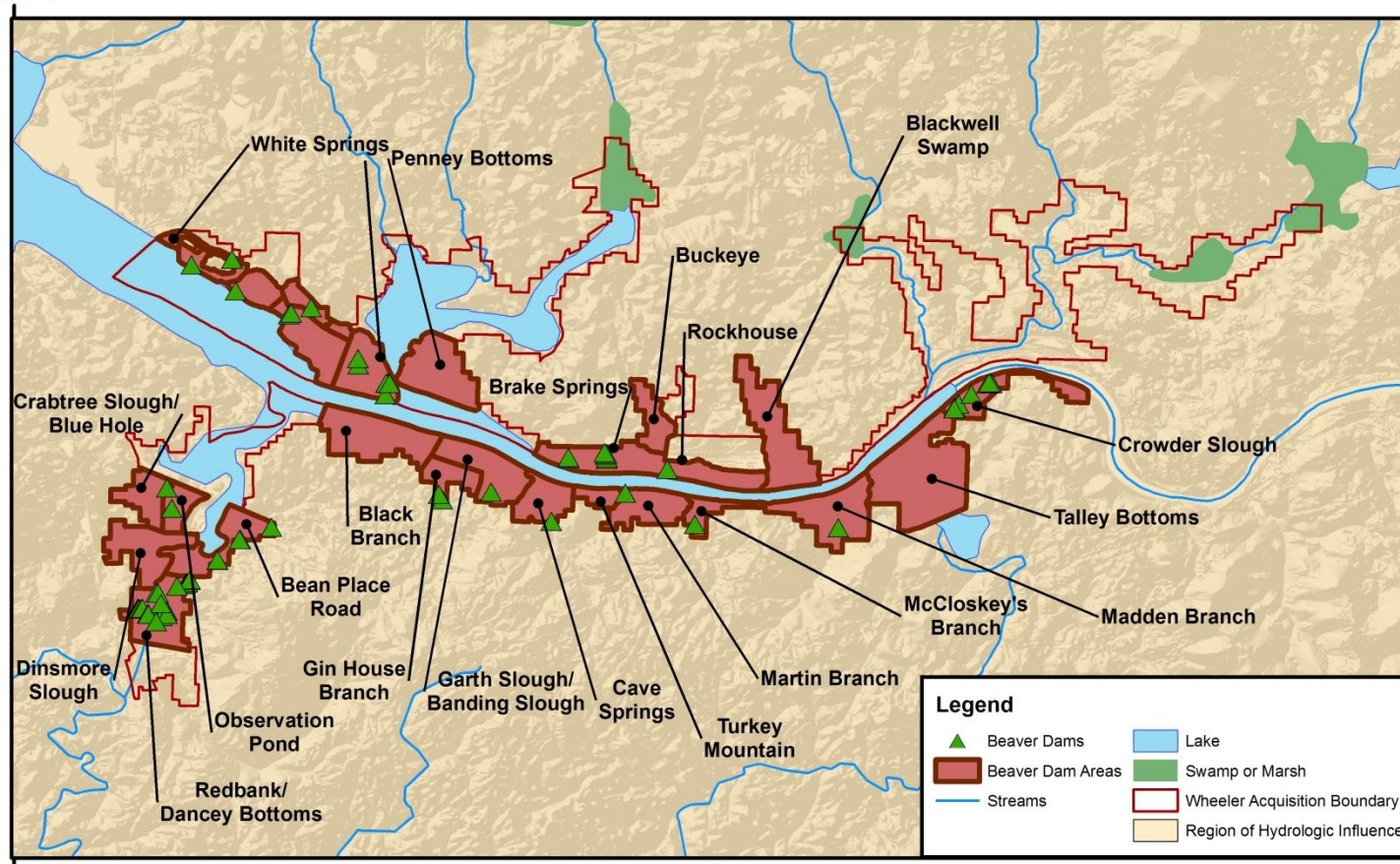
Figure 20. Named dams in the RHI of Wheeler NWR. Numbered items correspond to Map ID in Table 12. (SARP, 2017).



Wheeler National Wildlife Refuge

Beaver Dams

87°0'0"W



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File Name: beaver_infrastructure_wheeler

Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree



Figure 21. Beaver dams and dam areas in the acquisition boundary of Wheeler NWR. (Wheeler National Wildlife Refuge Staff).

3.5.2.2 Water Control Structures

According to the refuge staff of Wheeler NWR there are water control structures such as: impoundments, pumping stations, and screw gages. From the information that they provided, there are 32 different structures on the refuge; six are pumping stations, two are classified as “other,” 20 are screw gates, three are stop logs and one is listed as just a “water control structure.”

3.5.2.3 Impoundments

According to the information provided by the Wheeler refuge staff, there are 18 major impoundments on the refuge. All of these impoundments are given a rating for moist soil. These impoundments make up 3,931.13 acres or 6.14 square miles. The moist soil ratings are: Good, No Potential, and Potential. Some of the impoundments have soil that falls into the three different categories (Table 13). The largest impoundment on the refuge is Blackwell Swamp (442.41 acres) that has a soil rating of “No Potential.” Impoundments with a “good” soil moisture rating have the largest area (1,150.70 acres), followed by “No Potential” (457.97 acres), and finally “Potential” (288.46 acres).

3.5.2.4 Canals and Ditches

According to the NHD, there are no Canals/Ditches within the acquisition boundary of Wheeler NWR; however, there is a total of 38.81 miles of Canals/Ditches in the RHI (Table 14).

3.5.2.5 Pipelines

Within the Region of Hydrologic Influence of Wheeler NWR, there is a total of 2.57 miles of pipelines according to the NHD (Table 15).

Table 13. Impoundments and their moist soil ratings in Wheeler NWR. To keep the data consistent with what the refuge staff provided, the areas are listed in acres. (Wheeler National Wildlife Refuge Staff).

Name	Moist Soil Rating (ac)			
	Good	No Potential	Potential	Total
Blackwell Swamp		442.41		442.41
Buckeye	242.08			242.08
Crabtree Slough			129.61	129.61
Devany Tract	59.93			59.93
Dinsmore Slough	92.43		13.88	106.31
Display Pool	19.60	0.44	5.73	25.77
Kimbrough Slough	14.67			14.67
Penny Bottoms	39.96	11.37	14.41	65.74
Rockhouse #1	89.08	0.75		89.82
Rockhouse #2	77.63		9.56	87.20
Thorson Arm	95.22		5.69	100.92
White Springs #1	165.58	3.01	34.13	202.72
White Springs #2	103.42			103.42
White Springs #3	35.05		24.39	59.43
White Springs #4	45.85		4.03	49.89
White Springs #5	20.85			20.85
White Springs #6	49.37		47.01	96.38
Total	1,150.70	457.97	288.46	1,897.13

Table 14. Canals/ditches in the Region of Hydrologic Influence of Wheeler NWR. (USGS, 2013a).

FCode	Miles within the RHI
Canal/Ditch (aqueduct) (Named)	0.59
Canal/Ditch (aqueduct) (Unnamed)	2.52
Canal/Ditch (no attributes) (Named)	14.83
Canal/Ditch (no attributes) (Unnamed)	20.87
Total Named	15.42
Total Unnamed	23.39
Total	38.81

Table 15. Pipelines in the RHI of Wheeler NWR. (USGS, 2013a).

FCode	Miles within the RHI
Pipeline (Named)	1.02
Pipeline (Unnamed)	1.55
Total	2.57

3.5.2.6 Roads, Bridges, and Boat Ramps

Within the RHI there are 1,712.24 miles of roads and 15.97 of those are located within the acquisition boundary of Wheeler NWR, according to the U.S. Census Bureau. However, this dataset does not include Garth Slough Road which has been subjected to continuous wear and erosion (USFWS, 2007). The Wheeler CCP included a proposed project to fund the repairs to Garth Slough Road.

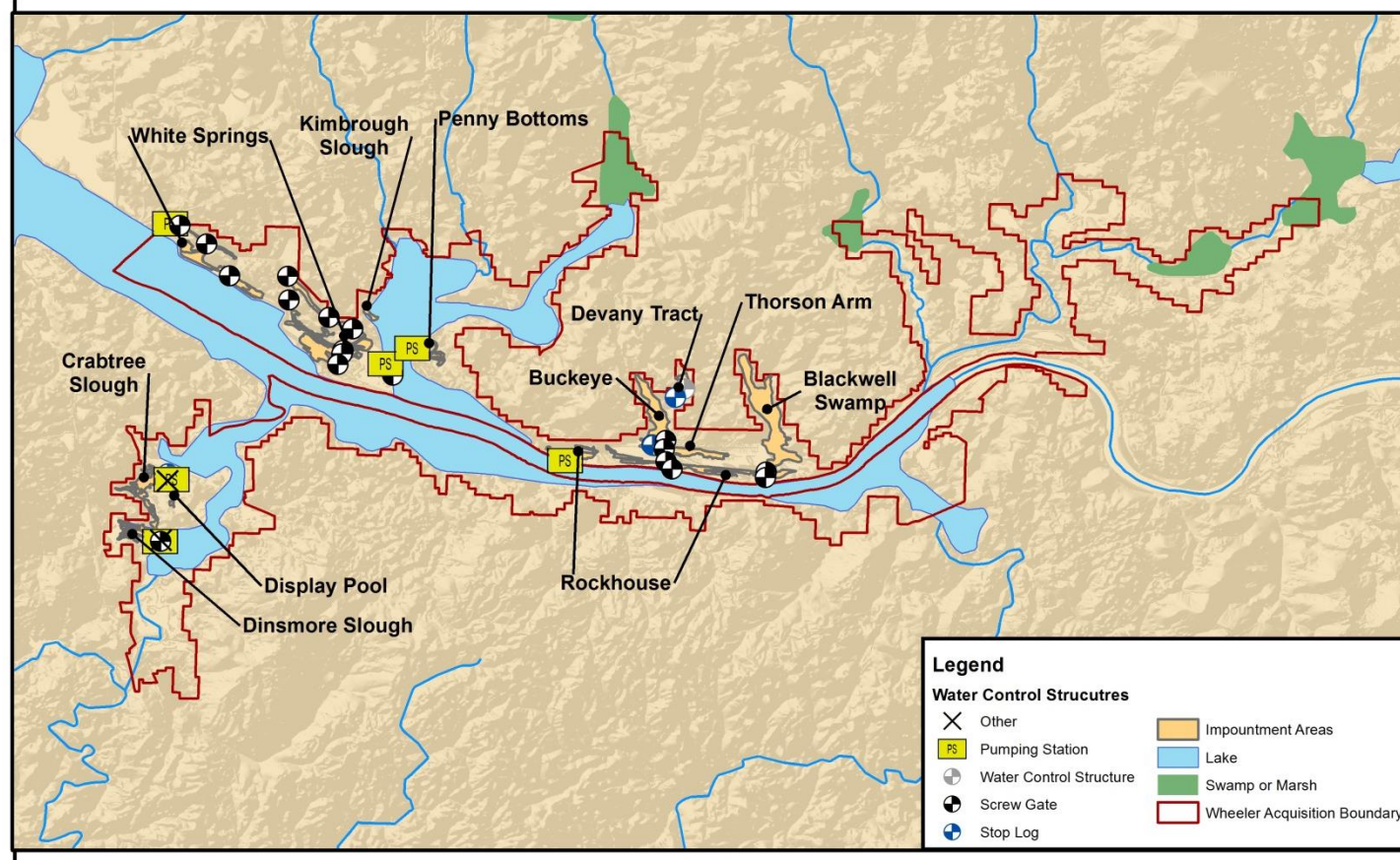
Table 16. Types of roads in the RHI and acquisition boundary of Wheeler NWR. (U.S. Census Bureau and USDC, 2015).

Type of Road	Miles within the RHI	Miles within the Acquisition Boundary
Common Name (Secondary Road)	446.59	2.17
Interstate (Primary Road)	144.00	5.21
State recognized (Secondary Road)	633.52	5.36
U.S. (Primary Road)	31.92	0.90
U.S. (Secondary Road)	456.21	2.33
Total Secondary Road	1,536.32	9.86
Total Primary Road	175.92	6.11
Total	1,712.24	15.97



Wheeler National Wildlife Refuge Water Control Structures

87°0'0"W



Produced by the Water Resources and
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Athens, GA
Map Date: August 2018
File Name: infrastructure_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Figure 22. Water control structures within the acquisition boundary of Wheeler NWR. Wheeler National Wildlife Refuge Staff.

3.5.3 Water Monitoring

This section examines the streamgages and water quality stations that exist on the refuge and in the RHI for both surface water and groundwater. Additional information on individual stations can be found at the Water Quality Portal (WQP) which is sponsored by the USGS and the EPA. Stations that are listed as a part of the USGS have URLs attached to individual websites for the different stations. There are 1,216 water monitoring stations in the RHI of Wheeler NWR, but 211 of them do not have accessible data and only 40 of them are significant and will be discussed in the following sections (Figure 23). Additional information about all of the water monitoring stations, including the stations without accessible data can be found in Appendix F.



Wheeler National Wildlife Refuge

Significant Water Monitoring Stations

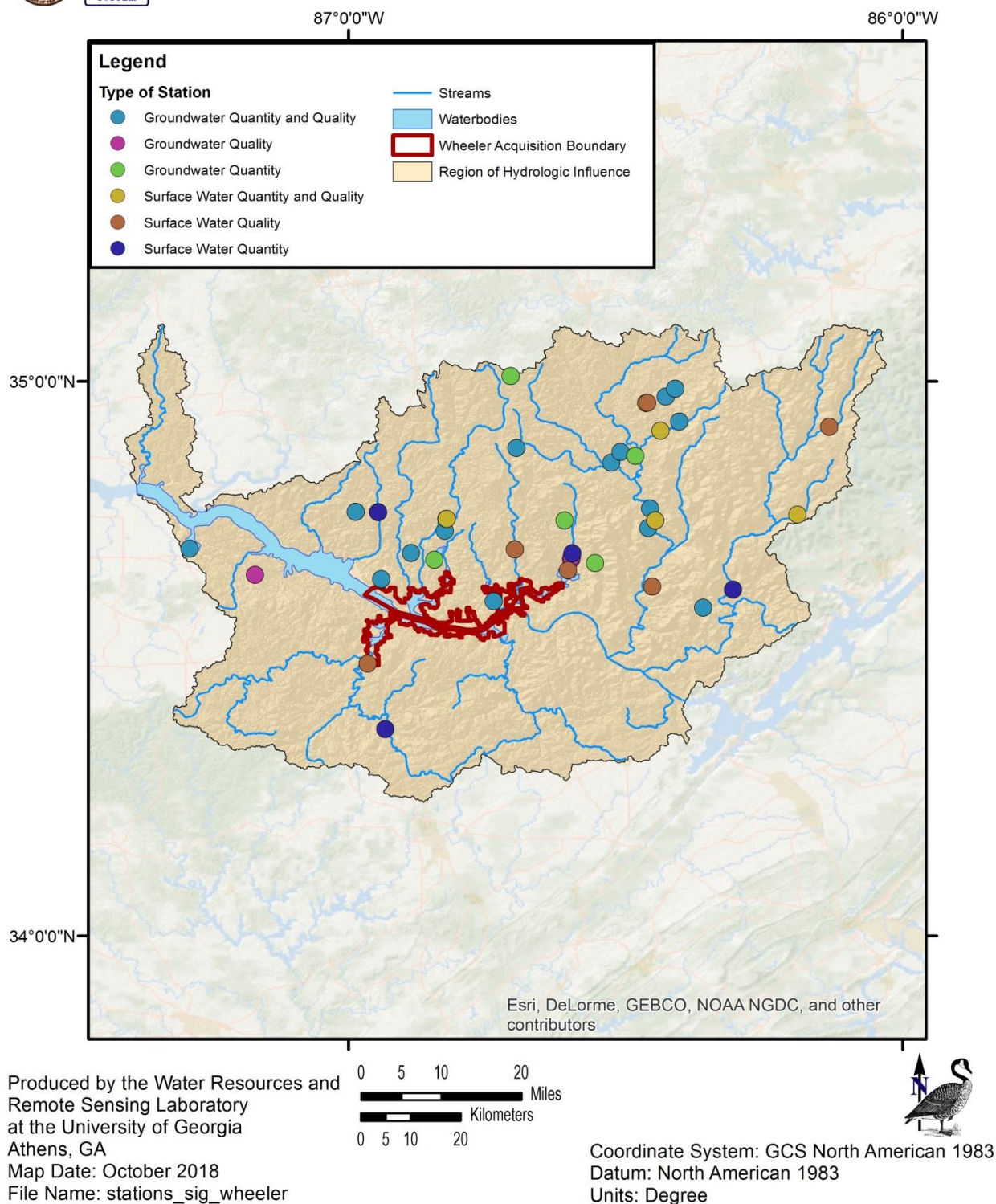


Figure 23. Significant water monitoring stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

3.5.3.1 Surface Water Quantity Monitoring

Within the RHI of Wheeler NWR there are 529 water monitoring stations measuring either discharge or gage height, or both. Eleven of these stations are considered to be significant stations because they have either taken daily measurements, or they have had at least 50 site visits and one of those site visits had to be later than 2010 (Table 17). Seven of the 11 stations have taken daily measurements and all except one (USGS Stations 0357479650, Map ID 2 in Table 17 and Figure 24) are still collecting daily data. The seven stations that collect the daily data are operated by the USGS, while the other stations are operated by the Alabama Department of Environmental Management (ADEM). The ADEM station numbers begin with “21AWIC-”. USGS Site 03575100 has the longest record of site visits starting in 1906, and USGS Site 03576250 has the longest record of daily data starting in October 1939. There are two couples of stations that overlap each other: USGS 03576250 and 21AWIC-1078, and USGS 03575100 and 21AWIC-1027 (Map IDs 5 and 9, and 3 and 8 in Table 17 and Figure 24). More information about stations measuring surface water quantity can be found in Figure A- 2, Table A- 8, and Table A- 9 in Appendix F.

Table 17. Significant surface water quantity stations in the RHI of Wheeler NWR. Map ID references locations shown in Figure 24. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Map ID	Site Number	Station Name	Type of Data	Start Date	End Date	Count
1	03574500	PAINT ROCK RIVER NEAR WOODVILLE AL	Site Visit	1935-02-18	2018-07-30	1,010
			Discharge, cubic feet per second	1936-01-01	Present	30,245
			Gage height, feet	1974-08-23	Present	15,540
2	0357479650	HESTER CREEK AT BUDDY WILLIAMSON RD NR PLEVNA, AL	Site Visit	1998-08-06	2013-11-20	139
			Discharge, cubic feet per second	1998-10-01	2013-10-15	5,494
			Site Visit	1906-05-12	2018-07-30	158
3	03575100	FLINT RIVER AT BROWNSBORO, AL.	Discharge, cubic feet per second	1998-10-01	Present	7,326
			Gage height, feet	2000-10-01	Present	6,413
4	03575950	HUNTSVILLE SP BR AT JOHNSON ROAD, HUNTSVILLE AL	Site Visit	1948-06-07	2016-01-27	57
			Gage height, feet	1984-10-01	Present	11,497
5	03576250	LIMESTONE CREEK NEAR ATHENS AL	Site Visit	1961-09-22	2018-08-07	238
			Discharge, cubic feet per second	1939-10-01	Present	20,109
			Gage height, feet	1994-11-03	Present	8,641
6	03576500	FLINT CREEK NEAR FALKVILLE AL	Site Visit	1952-08-14	2018-08-08	378
			Discharge, cubic feet per second	1952-08-01	Present	11,714
			Gage height, feet	1992-10-28	Present	4,900

Map ID	Site Number	Station Name	Type of Data	Start Date	End Date	Count
7	03577225	SWAN CREEK BELOW ATHENS, ALA	Site Visit	1967-04-19	2018-08-07	65
			Discharge, cubic feet per second	2009-06-25	Present	3,406
			Gage height, feet	2009-06-25	Present	3,379
8	21AWIC-1027	FLIM-2A	Site Visit	2005-03-15	2018-04-04	122
9	21AWIC-1078	LIML-300	Site Visit	1998-05-12	2017-10-10	54
10	21AWIC-594	GUES-1	Site Visit	1997-07-23	2018-05-23	72
11	21AWIC-612	HESM-1	Site Visit	1998-07-08	2017-10-04	59



Wheeler National Wildlife Refuge

Significant Surface Water Quantity Stations

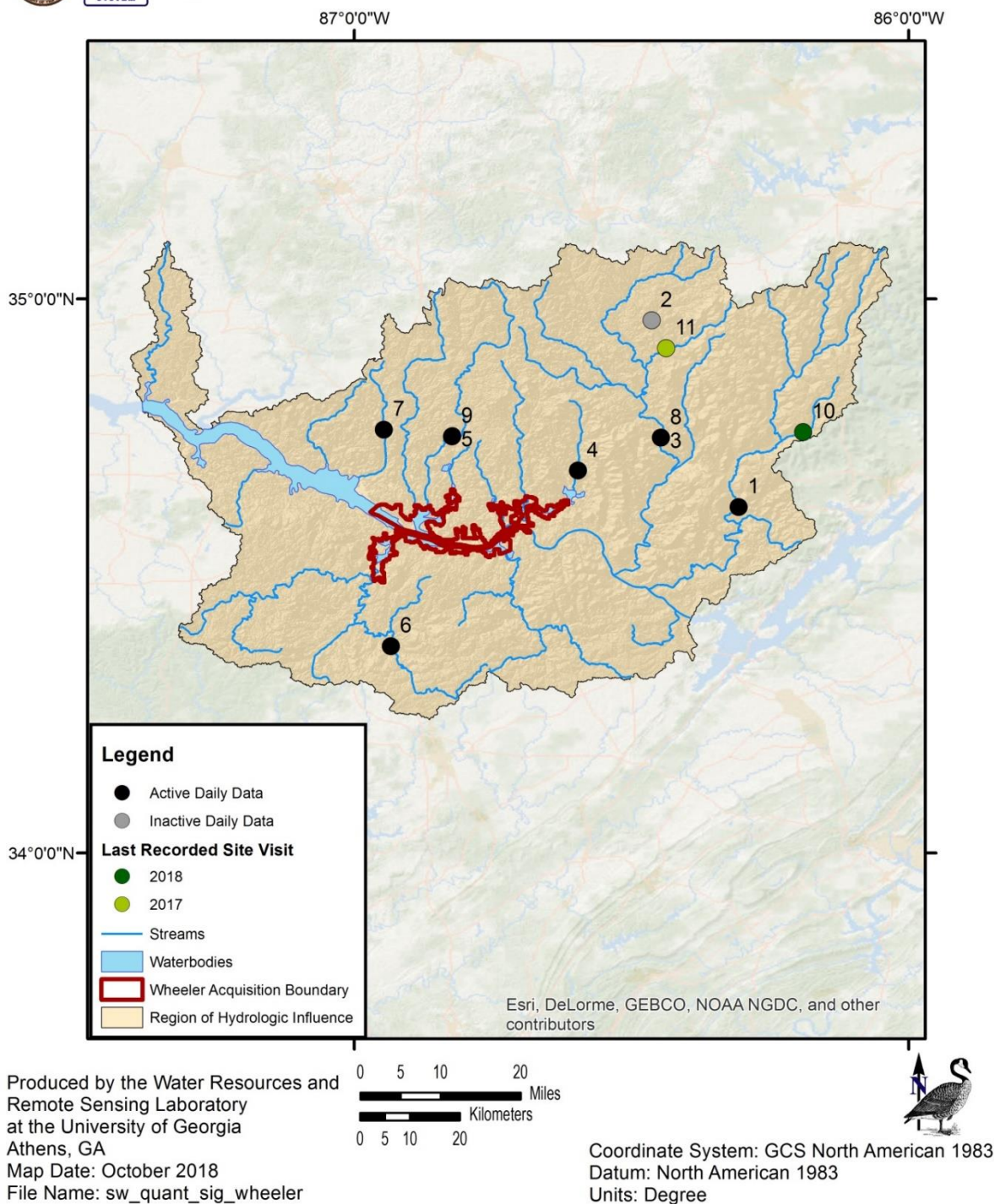


Figure 24. Significant surface water quantity stations in the RHI of Wheeler NWR. Information about numbered locations is summarized in Table 17. (USGS, 2018; National Water Quality Monitoring Council, 2018).

3.5.3.2 Surface Water Quality Monitoring

The Region of Hydrologic Influence has 439 surface water quality monitoring stations and 14 of them are significant. The significant stations have taken either daily measurements, has over 50 site visits with one of them taken since 2010 (Table 18). USGS Site 03574100 is the only one of the stations that has taken daily measurements of water quality, specifically turbidity (Map ID 16 in Table 18 and Figure 25). Ten of the 14 water quality stations are operated by the ADEM and the other four are operated by the USGS. More information about stations measuring surface water quality can be found in Figure A- 3 and Table A- 10 in Appendix F.

Table 18. Significant surface water quality stations in the RHI of Wheeler NWR. Map ID references locations shown in Figure 25. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Map ID	Site Number	Station Name	Type of Data	Start Date	End Date	Count
1	03574100	ESTILL FORK AT ESTILLFORK AL	Daily Turbidity	2015-12-08	Present	956
			Site Visit	1943-12-04	2018-10-02	34
2	0357479650	HESTER CREEK AT BUDDY WILLIAMSON RD NR PLEVNA, AL	Site Visit	1998-08-19	2011-04-25	179
3	03575100	FLINT RIVER AT BROWNSBORO, AL.	Site Visit	1973-09-19	2011-09-21	199
4	03576250	LIMESTONE CREEK NEAR ATHENS AL	Site Visit	1961-09-22	2014-05-20	130
5	21AWIC-1027	FLIM-2A	Site Visit	2005-03-15	2018-04-04	127
6	21AWIC-1064	INDM-249	Site Visit	2005-06-16	2017-10-10	77
7	21AWIC-1078	LIML-300	Site Visit	1998-05-12	2017-10-10	54
8	21AWIC-1511	HURR-1	Site Visit	1997-07-22	2018-05-23	58
9	21AWIC-2448	FTCM-6	Site Visit	2010-04-13	2018-04-05	97
10	21AWIC-585	GOOM-1	Site Visit	2003-03-26	2015-08-26	56
11	21AWIC-594	GUES-1	Site Visit	1997-07-23	2018-05-23	92
12	21AWIC-612	HESM-1	Site Visit	1998-05-13	2017-10-04	71
13	21AWIC-613	HESM-2	Site Visit	2003-03-20	2017-09-06	68
14	21AWIC-629	HSBM-240	Site Visit	1998-05-11	2014-11-21	53



Wheeler National Wildlife Refuge Significant Surface Water Quality Stations

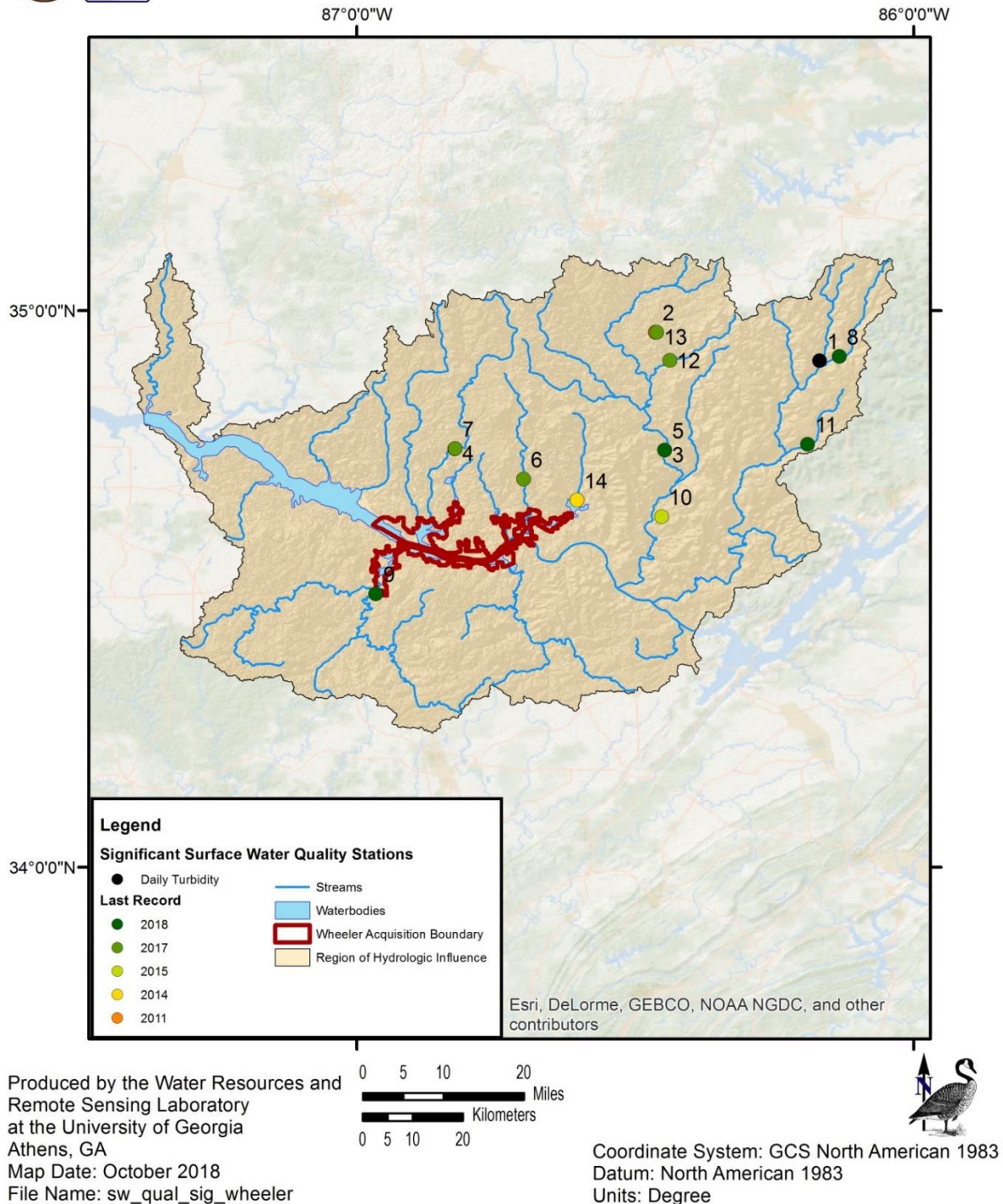


Figure 25. Significant surface water quality stations in the RHI of Wheeler NWR. Information about numbered locations is summarized in Table 18. (USGS, 2018; National Water Quality Monitoring Council, 2018).

3.5.3.3 Groundwater Quantity Monitoring

In the Region of Hydrologic Influence, there are 238 stations measuring groundwater levels; 20 are significant. The significant stations have taken at least one measurement since 2010 or have taken over 100 measurements (Table 19). All of the significant stations are north of or parallel to the refuge (Figure 26). One station (USGS Site 350034086422800, Map ID 20 in Table 19 and Figure 26) used to take daily measurements of the groundwater level from 1975 to 2013. More information about stations that have measured groundwater levels can be found in Figure A- 4 and Table A- 11 in Appendix F.

Table 19. Significant groundwater quantity stations in the RHI of Wheeler NWR. Map ID references locations shown in Figure 26. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Map ID	Site Number	Station Name	Type of Data	Start Date	End Date	Count
1	344020086332001	MAD 3-USGS 344020086332001	Site Visit	1955-03-08	1985-04-22	219
2	344124086531401	EHR-LUS18	Site Visit	1999-12-07	2016-05-31	17
3	344348086493401	EHR-LUS35	Site Visit	1999-12-07	2016-05-31	19
4	344457086363701	MAD 4-USGS 344457086363701	Site Visit	1956-06-18	2013-10-23	136
5	344615086272201	EHR-LUS31	Site Visit	1999-12-07	2016-05-31	18
6	345112086313401	EHR-LUS13	Site Visit	1999-12-07	2016-06-01	19
7	345156086285901	EHR-LUS38	Site Visit	2014-06-04	2016-06-01	3
8	345822086254001	EHR-LUS11	Site Visit	1999-12-07	2016-06-01	18
9	343530086213801	EHR-LUS34	Site Visit	1999-12-07	2012-04-16	18
10	343613086441701	EHR-LUS36	Site Visit	1999-12-07	2012-04-18	12
11	343836086562901	EHR-LUS20	Site Visit	1999-12-06	2012-04-17	18
12	344042086504301	EHR-LUS21	Site Visit	2001-04-11	2010-05-26	5
13	344154087171201	EHR-LUS24	Site Visit	1999-12-06	2012-04-11	19
14	344407086273401	EHR-LUS9	Site Visit	2000-01-06	2012-04-18	13
15	344553086591301	EHR-LUS17	Site Visit	1999-12-06	2012-04-19	17
16	345222086303301	EHR-LUS12	Site Visit	1999-12-07	2012-03-27	17
17	345247086415001	EHR-LUS14	Site Visit	1999-12-08	2012-03-29	18
18	345539086241301	EHR-LUS10	Site Visit	1999-12-08	2012-03-28	18
19	345912086243901	EHR-LUS16	Site Visit	1999-12-08	2012-03-29	18
20	350034086422800	LI:G-001	Site Visit Daily Depth to water level	1973-10-23 1975-08-27	2013-10-22 2013-09-29	86 19,156



Wheeler National Wildlife Refuge

Significant Groundwater Quantity Stations

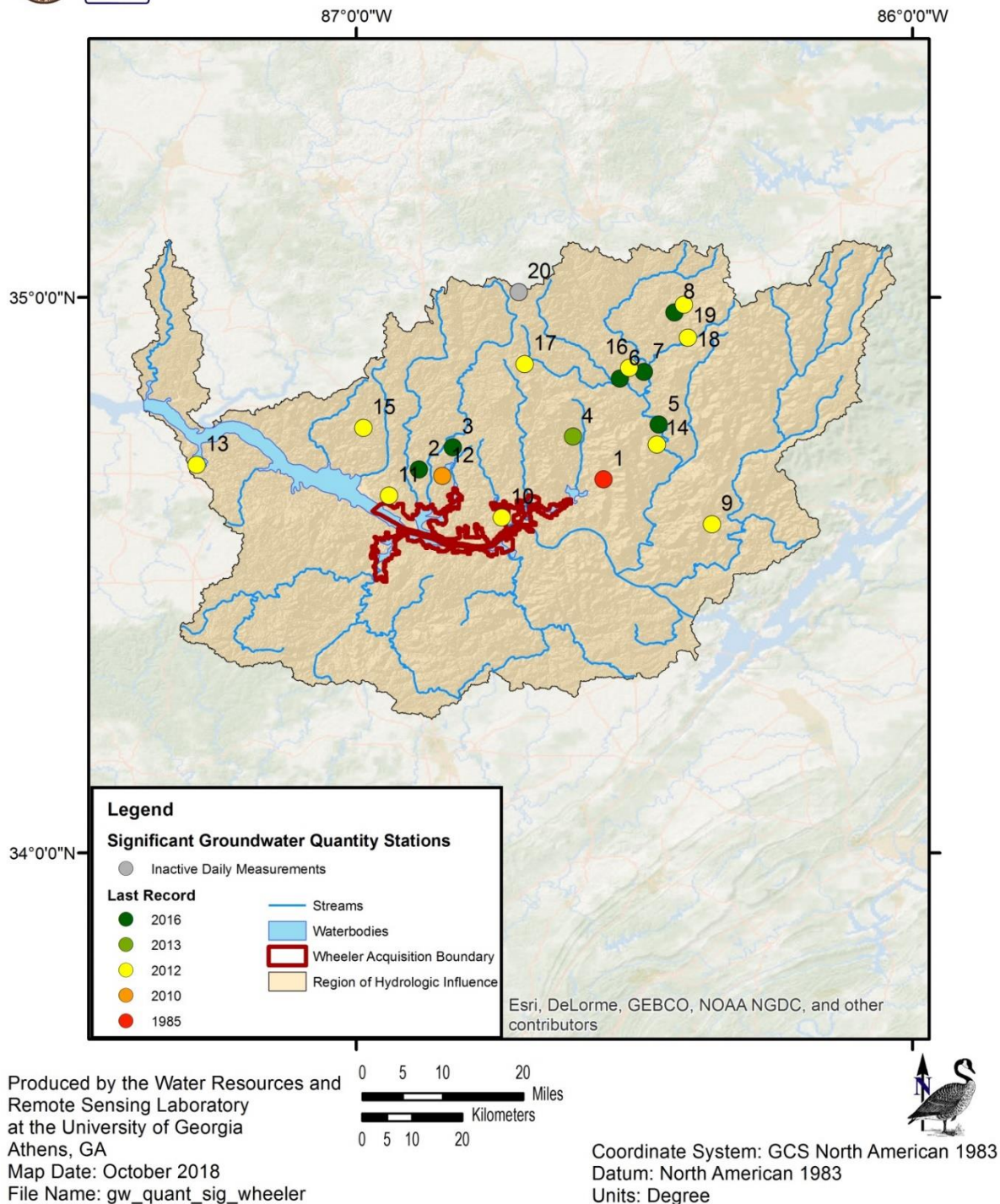


Figure 26. Significant groundwater quantity stations in the RHI of Wheeler NWR. Information about numbered locations is summarized in Table 19. (USGS, 2018; National Water Quality Monitoring Council, 2018).

3.5.3.4 Groundwater Quality Monitoring

Wheeler NWR's Region of Hydrologic Influence has a total of 137 stations that have measured groundwater quality, and 18 of those stations are significant. Significant stations have either taken a measurement since 2010 or have 25 or more measurements in its history (Table 20). Twelve of the 18 stations took their last measurement in 2012, but the oldest last measurement is in 1974. No stations are located south of the refuge (Figure 27). All of the stations are operated by the USGS. Station number 344059086355001 has taken the most about of measurements (34) and station number 343904087100701 has taken the least (3) (Map IDs 2 and 11 respectively in Table 20 and Figure 27). More information about stations measuring groundwater quality can be found in Figure A- 5 and Table A- 12 in Appendix F.

Table 20. Significant groundwater quality stations in the RHI of Wheeler NWR. Map ID references locations shown in Figure 27. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Map ID	Site Number	Station Name	Start Date	End Date	Count
1	344044086355401	Q-208 LANDFILL TEST HOLE-CITY OF HUNTSVILLE	1972-09-28	1974-07-16	25
2	344059086355001	Q-199 LANDFILL TEST HOLE-CITY OF HUNTSVILLE	1971-08-06	1974-08-14	32
3	344124086531401	EHR-LUS18	2000-05-24	2015-06-11	11
4	344348086493401	EHR-LUS35	2000-05-25	2016-06-21	19
5	344615086272201	EHR-LUS31	2000-06-01	2012-04-17	13
6	345112086313401	EHR-LUS13	2000-06-01	2016-06-21	19
7	345822086254001	EHR-LUS11	2000-06-06	2016-06-21	20
8	343530086213801	EHR-LUS34	2000-06-01	2012-04-16	4
9	343613086441701	EHR-LUS36	2000-05-25	2012-04-18	6
10	343836086562901	EHR-LUS20	2000-05-25	2012-04-17	6

Map ID	Site Number	Station Name	Start Date	End Date	Count
11	343904087100701	EHR-SUS8 (H-02)	1999-06-30	2012-04-13	3
12	344154087171201	EHR-LUS24	2000-05-24	2012-04-11	6
13	344407086273401	EHR-LUS9	2000-06-01	2012-04-18	4
14	344553086591301	EHR-LUS17	2000-05-25	2012-04-19	4
15	345222086303301	EHR-LUS12	2000-06-07	2012-03-27	6
16	345247086415001	EHR-LUS14	2000-05-31	2012-03-29	6
17	345539086241301	EHR-LUS10	2000-05-31	2012-03-28	6
18	345912086243901	EHR-LUS16	2000-05-31	2012-03-29	6



Wheeler National Wildlife Refuge Significant Groundwater Quality Stations

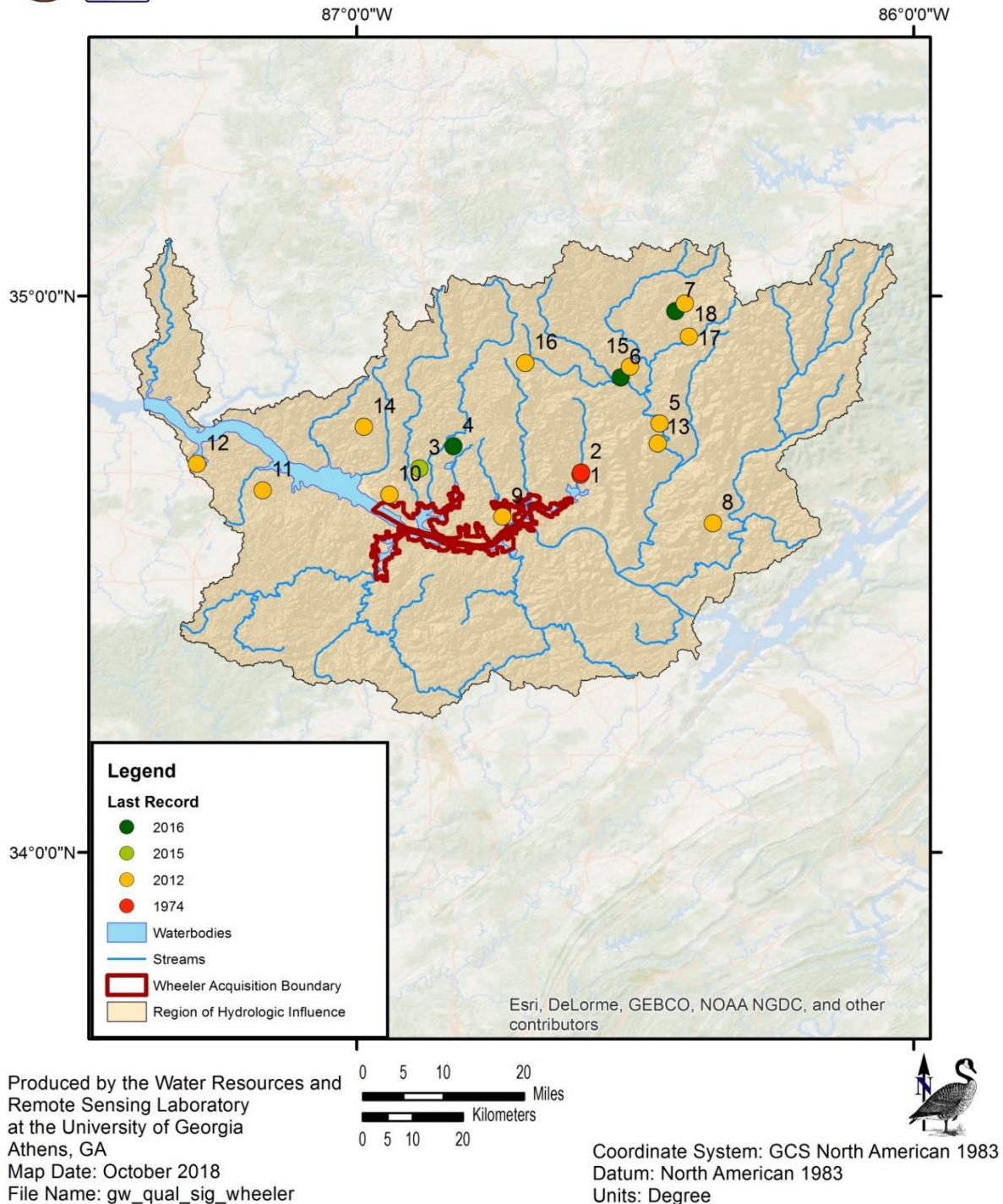


Figure 27. Significant groundwater quality stations in the RHI of Wheeler NWR. Information about numbered locations is summarized in Table 20. (USGS, 2018; National Water Quality Monitoring Council, 2018).

3.5.3.5 Aquatic Habitat, Biota, and Species

The USFWS department of Information for Planning and Consultation (IPaC) has a database of all endangered species in the area as well as all the migratory birds within the RHI of Wheeler NWR (Table 21 and Table 22). There are 16 endangered or threatened species within the acquisition boundary of Wheeler NWR. There are 13 migratory birds in the acquisition boundary of the refuge. The migratory birds have different levels of concern that are Non-BCC Vulnerable, BCC Rangewide (CON), and BCC – BCR. The Non-BCC Vulnerable indicates species that are not a Bird of Conservation Concern (BCC) but they need to have some special attention. The BCC Rangewide (CON) means that the bird is a BCC for the whole continental United States and Alaska. Finally, the BCC – BCR level indicates a BCC only in certain Bird Conservation Regions (BCR). A full list of all of the threatened and endangered species and migratory birds from IPaC within the Region of Hydrologic Influence can be found in Appendix G.

Table 21. Threatened or endangered species in the acquisition boundary Wheeler NWR. The “CH” represents the species that have a final critical habitat by the USFWS. (USFWS, 2011).

Group	Common Name	Scientific Name	Status
Mammals	Gray Bat	<i>Myotis grisescens</i>	Endangered
Mammals	Indiana Bat (CH)	<i>Myotis sodalis</i>	Endangered
Mammals	Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Threatened
Fishes	Spring Pygmy Sunfish (CH)	<i>Elassoma alabamae</i>	Threatened
Clams	Pink Mucket (pearlymussel)	<i>Lampsilis abrupta</i>	Endangered
Clams	Rough Pigtoe	<i>Pleurobema plenum</i>	Endangered
Clams	Sheepnose Mussel	<i>Plethobasus cyphus</i>	Endangered
Clams	Snuffbox Mussel	<i>Epioblasma triquetra</i>	Endangered
Clams	Spectaclecase (mussel)	<i>Cumberlandia monodonta</i>	Endangered
Snails	Anthony's Riversnail	<i>Athearnia anthonyi</i>	Endangered
Snails	Armored Snail	<i>Pyrgulopsis (=Marstonia) pachyta</i>	Endangered
Snails	Slender Campeloma	<i>Campeloma decampi</i>	Endangered
Crustaceans	Alabama Cave Shrimp	<i>Palaemonias alabamae</i>	Endangered
Flowering Plants	Fleshy-fruit Gladecress (CH)	<i>Leavenworthia crassa</i>	Endangered
Flowering Plants	Morefield's Leather Flower	<i>Clematis morefieldii</i>	Endangered
Flowering Plants	Price's Potato-bean	<i>Apios priceana</i>	Threatened

Table 22. Migratory birds within the acquisition boundary of Wheeler NWR. (USFWS, 2011).

Common Name	Scientific Name	Level of Concern	Breeding Season
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Non-BCC Vulnerable	Breeds Sep 1 to Jul 31
Blue-winged Warbler	<i>Vermivora pinus</i>	BCC - BCR	Breeds May 1 to Jun 30
Golden Eagle	<i>Aquila chrysaetos</i>	Non-BCC Vulnerable	Breeds elsewhere
Henslow's Sparrow	<i>Ammodramus henslowii</i>	BCC Rangewide (CON)	Breeds May 1 to Aug 31
Kentucky Warbler	<i>Oporornis formosus</i>	BCC Rangewide (CON)	Breeds Apr 20 to Aug 20
King Rail	<i>Rallus elegans</i>	BCC Rangewide (CON)	Breeds May 1 to Sep 5
Le Conte's Sparrow	<i>Ammodramus leconteii</i>	BCC - BCR	Breeds elsewhere
Lesser Yellowlegs	<i>Tringa flavipes</i>	BCC Rangewide (CON)	Breeds elsewhere
Prairie Warbler	<i>Dendroica discolor</i>	BCC Rangewide (CON)	Breeds May 1 to Jul 31
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	BCC Rangewide (CON)	Breeds May 10 to Sep 10
Rusty Blackbird	<i>Euphagus carolinus</i>	BCC Rangewide (CON)	Breeds elsewhere
Semipalmated Sandpiper	<i>Calidris pusilla</i>	BCC Rangewide (CON)	Breeds elsewhere
Wood Thrush	<i>Hylocichla mustelina</i>	BCC Rangewide (CON)	Breeds May 10 to Aug 31

3.5.4 Water Quantity and Timing

This section further examines data from a streamgage and a well that were discussed in Sections 3.5.3.1 and 3.5.3.3, respectively, and provides insight to overall trends.

USGS Site Number 03575950 (Map ID #4 in Figure 24 and Table 17) is located northeast of the refuge and has taken daily gage height measurements since 1984. However, there are a few months when no data was collected (Figure 28). The average monthly gage height is 419.73 feet and the average yearly gage height from 1984 to 2018 is 413.78 feet (Figure 28 and Figure 29). Over the months there is not much variation with September having the lowest gage height (383.6 feet) and March with the highest average gage height (444.18 feet) (Figure 30).

USGS Site Number 343836086562901, which is located to the north of the western part of the refuge, collected sporadic groundwater levels from 1999 to 2012. The average depth to water table over that time was 21.54 feet below land surface (Figure 31). In May of 2009, the shallowest depth was recorded at 3.9 feet below land surface. In August of 2000, the deepest measurement was collected at 26.16 feet below land surface. The most recent measurement was taken in April 2012 with a depth of 24.02 feet below land surface.

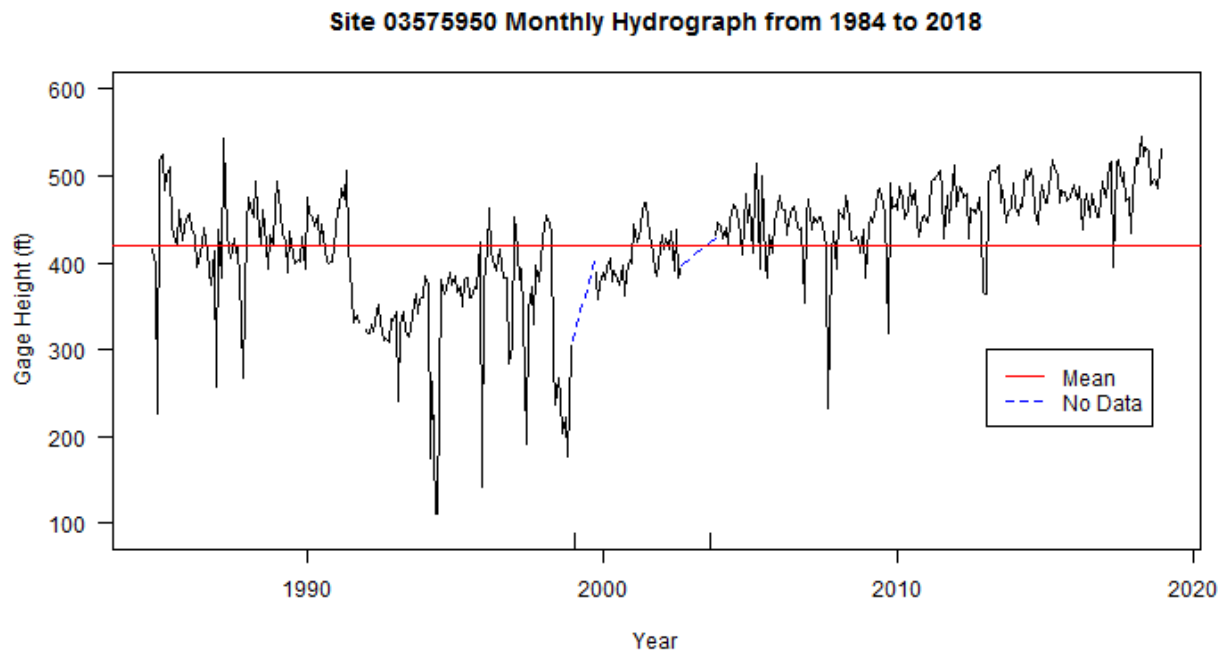


Figure 28. Mean monthly hydrograph at USGS site number 03575950 from 1984 to 2018. (USGS, 2018).

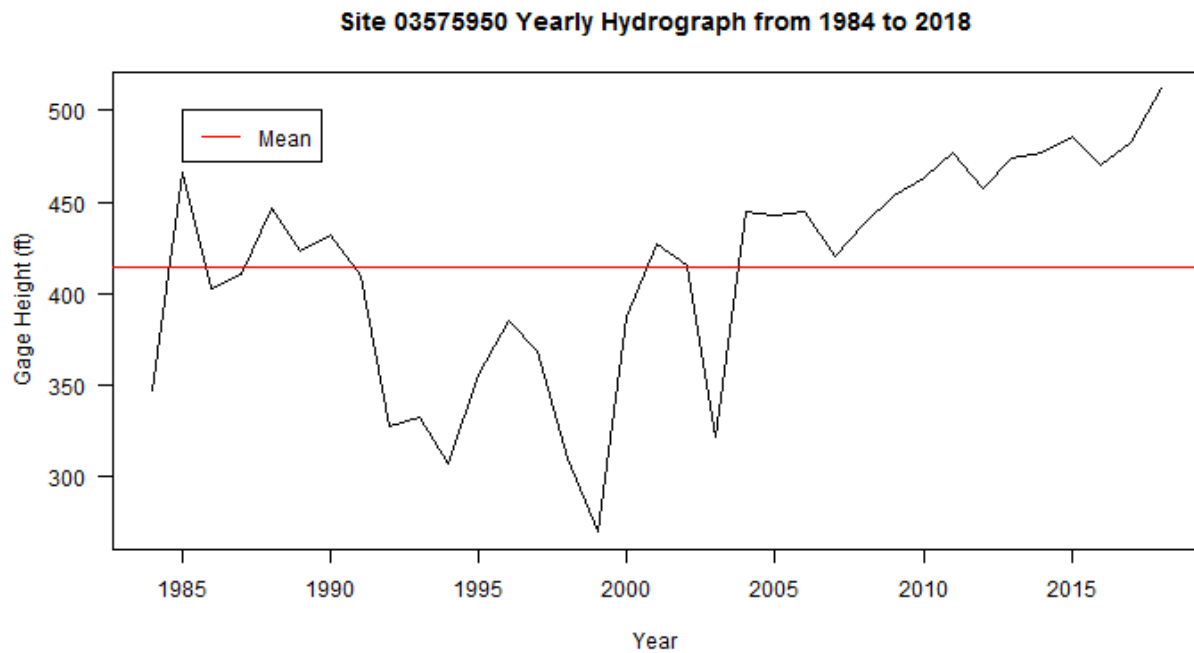


Figure 29. Yearly hydrograph at USGS site number 03575950 from 1984 to 2018. (USGS, 2018).

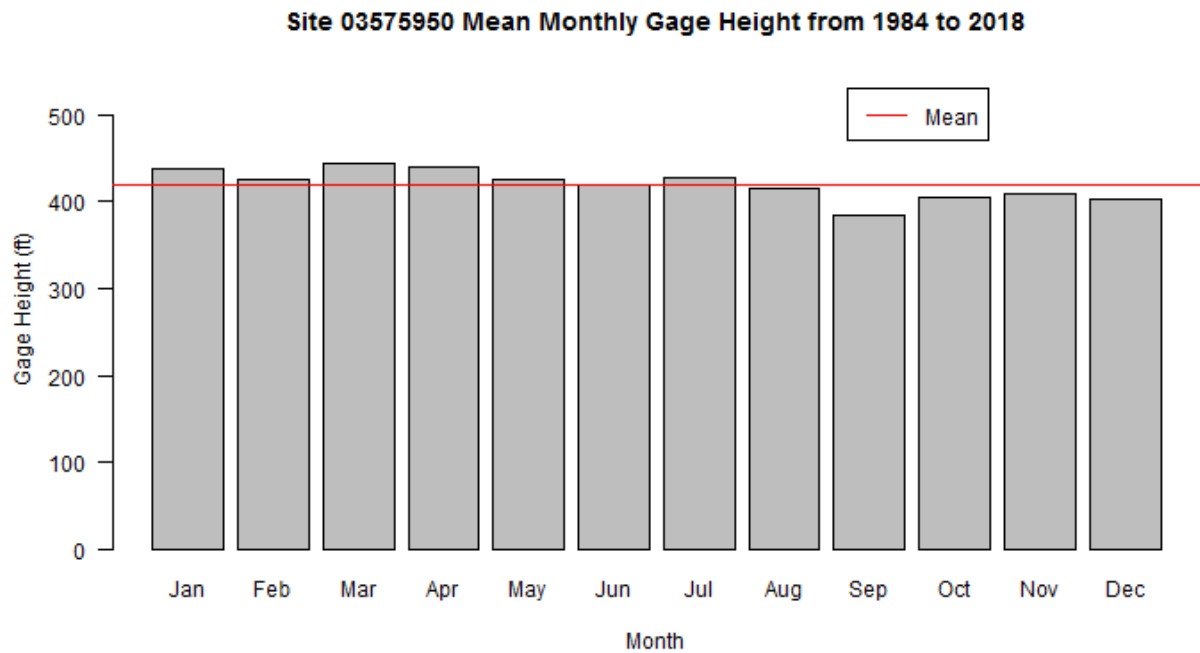


Figure 30. Mean monthly gage height at USGS site number 03575950 from 1984 to 2018. (USGS, 2018).

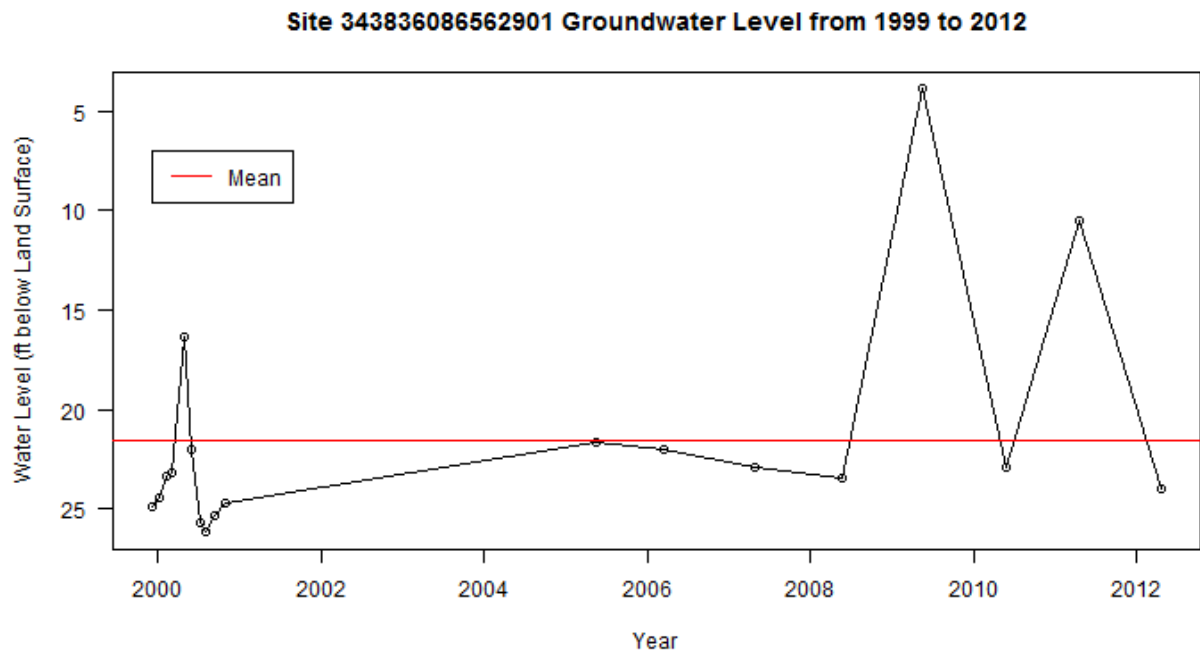


Figure 31. Groundwater levels from USGS site number 343836086562901 from 1999 to 2012. (USGS, 2018).

3.5.5 Federal and State Water Quality Regulations

The following section examines the federal and state laws surrounding water quality (both surface and groundwater).

The Environmental Protection Agency (EPA) is the national organization responsible for establishing and maintaining water quality regulations. The EPA monitors the enforcement of national environmental policies such as the Clean Water Act (CWA) and the Safe Drinking Water Act (SDWA). In most cases, the EPA delegates oversight and enforcement of these national policies to state agencies. In Alabama, the agency in charge of enforcing these federal policies is the Alabama Department of Environmental Management.

3.5.5.1 Surface Water Quality Standards

Responsibility for water quality regulation and CWA reporting falls to the ADEM. Water Quality regulations are outlined in the ADEM Administrative Code Division 6, which includes three volumes: (1) Water Quality Program (NPDES), (2) Water Quality Program (UST), and (3) Reclaimed Water Reuse Program. There are three minimum requirements that are applicable to all state waters (ADEM Admin. Code r. 335-6-10-.06). The three different sections of the minimum requirements instruct that the State Waters should be free of floating debris, sewage and or industrial waste, and any substances that are toxic to humans, animals, or aquatic life.

The Alabama Environmental Management Commission (AEMC) can adopt revisions to the ADEM Administrative Code and reviews it every three years in compliance with the U.S. EPA regulations. In agreement with the Clean Water Act, the ADEM annually collects chemical, physical, and biological data for surface and groundwater quality across the state. Basins are tested on a five-year rotating schedule. The reports of the water quality assessments are submitted to the U.S. EPA.

The Alabama Department of Environmental Management has seven distinct water use classifications: Outstanding Alabama Water, Public Water Supply, Swimming and Other Whole Body Water-Contact Sports, Shellfish Harvesting, Fish and Wildlife, Limited Warmwater Fishery, and Agriculture and Industrial Water Supply (ADEM Admin Code 335-6-10-.03). Each of these designations has their own Specific Water Quality Criteria (ADEM Admin Code 335-6-10-.03).

3.5.5.2 Groundwater Regulations

Laws at both the federal and state levels protect groundwater. The Safe Drinking Water Act (SDWA), nationally regulated through the EPA, is responsible for groundwater protection. The SDWA was intended to protect the quality of groundwater serving as a source for municipal water supply wells by establishing maximum allowable contaminant level standards for drinking water. Despite the fact that the Clean Water Act primarily regulates surface water quality, the EPA recommends that states apply 15% of CWA funding for point-source contamination (CWA section 106 grants) toward developing and implementing groundwater protection programs, and funding from non-point source contamination (CWA section 319 funds) can also be used (EPA 2009).

Protection of groundwater is also addressed in several statewide acts such as the Alabama Water Pollution Control Act, the Hazardous Waste Management and Minimization Act, the Alabama Underground Storage Tank and Wellhead Protection Act, and the Hazardous Substances Cleanup Fund (USFWS, 2013). These regulations are overseen by the ADEM. In 1993, Alabama released a Comprehensive State Groundwater Protection Program that protects groundwater for drinking water and other beneficial uses (USFWS, 2013).

3.5.5.3 Impaired Water, TMDLs, and NPDES Permits

The following examines regulations in place for impaired waters, TMDLs and NPDES permits, all of which can directly impact the water resources in the RHI.

3.5.5.3.1 Impaired Water and TMDLs

Impaired waters and TMDLs (total maximum daily loads) are administered by the ADEM in order to protect the water quality in the surrounding area. Impaired waters are waterbodies that do not meet the standards for water quality applicable to the water use classification for that waterbody. Waterbodies designated as impaired are then prioritized for development of a TMDL to remedy the impairment. A TMDL is the maximum amount of pollutants that ADEM has determined can be discharged to a water body and still allow it to meet water quality standards. The TMDL may be used to determine necessary load reductions from pollutant sources.

Alabama divides their Environmental Regulations and Laws into 17 different divisions. Division 6 Volume 1 of the ADEM Administrative Codes discusses the regulations for the national NPDES program in the state of Alabama and talks about TMDLs for the state. The most recent revision of these regulations was put in effect on February 3, 2017.

Within the RHI of Wheeler there are several different sections of streams that are impaired and are being looked at by the EPA to understand the pollutants nature and capacity of the water resources (Table 23). A complete list of all of the impaired waters in the RHI can be found in Appendix H.

Table 23. Impaired waters surrounding Wheeler NWR. The asterisk indicates that a TMDL is needed. (EPA, 2015).

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Distance in the RHI (mi)
AL06030002-0903-100	Aldridge Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	11.66
AL06030002-0902-200	Cane Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	6.77
AL06030002-1014-103	Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Mercury*, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	9.04
AL06030002-1014-102	Flint Creek (Wheeler Lake)	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	4.86
AL06030002-0503-102	Huntsville Spring Branch	Arsenic*, Mercury*	2016	2014, 2012, 2010, 2008, 2006	2.20
AL06030002-0906-600	Limestone Creek (Wheeler Lake)	Mercury*	2016	2014, 2012, 2010, 2008, 2006	3.29
AL06030002-1008-101	No Business Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	7.13
AL06030002-1005-100	Shoal Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	10.96
AL06030002-1101-101	Swan Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Phosphorus (Total)*, Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	8.10
AL06030002-0604-100	Town Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD)	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000	8.39
AL06030002-1014-702	Village Branch	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	5.73
AL06030002-1013-100	West Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	22.70

3.5.5.3.2 NPDES Permits

The National Pollutant Discharge Elimination System (NPDES) is a permit program authorized by the Clean Water Act, which regulates point sources of pollutants. NPDES permits are required to operate domestic or industrial wastewater facilities and associated activities. In Alabama, NPDES permits are handled through ADEM via the U.S. Environmental Protection Agency (EPA) (USFWS, 2013).

Within the RHI, there are 2,298 facilities that have NPDES permits; 16 of them are “Major” (Table 24), 2,170 are “Non-Major”, two are “Minor”, and there are also an additional 110 facilities that are “Unpermitted” but are listed. All of the facilities can be found in Appendix I. The EPA separates the point sources into different categories based on the severity of the pollutants and quantity of discharge allowed under their NPDES permits. “Major” facilities are municipal sewage treatment plants that have a design flow of one million gallons per day or greater, serve a population of 10,000 or more, or cause significant water quality impacts; or non-municipal facilities that are classified as major on the basis of toxic pollutant potential, flow volume, and receiving water characteristics (EPA, 2010). Non-Major facilities are permitted facilities that do not meet these criteria. Unpermitted facilities are tracked in the EPA’s Facility Registry Service but do not require permits according to Title 40 of The Code of Federal Regulations (EPA, 2010).

Chapter 335-6-6 in Division 6 Volume 1 of the ADEM Administrative Codes discusses the National Pollutant Discharge Elimination System. The NPDES program is used to enforce the regulations set forth by the Alabama Water Pollution Control Act (AWPCA). According to ADEM Admin. Code r. 335-6-6-.03, in order to discharge pollutants into Alabama state waters, you must have an NPDES permit. There are several pollutants that are not allowed to be

discharged at any time, such as: radiological, chemical, or biological warfare agents and any pollutant that is in conflict with the Area Wide Waste Treatment Management Plan (ADEM Admin. Code r. 335-6-6-.04). Each of the NPDES permits will last no longer than 5 years, unless otherwise approved.



Wheeler National Wildlife Refuge

Major NPDES Permit Facilities and Selected Impaired Waters

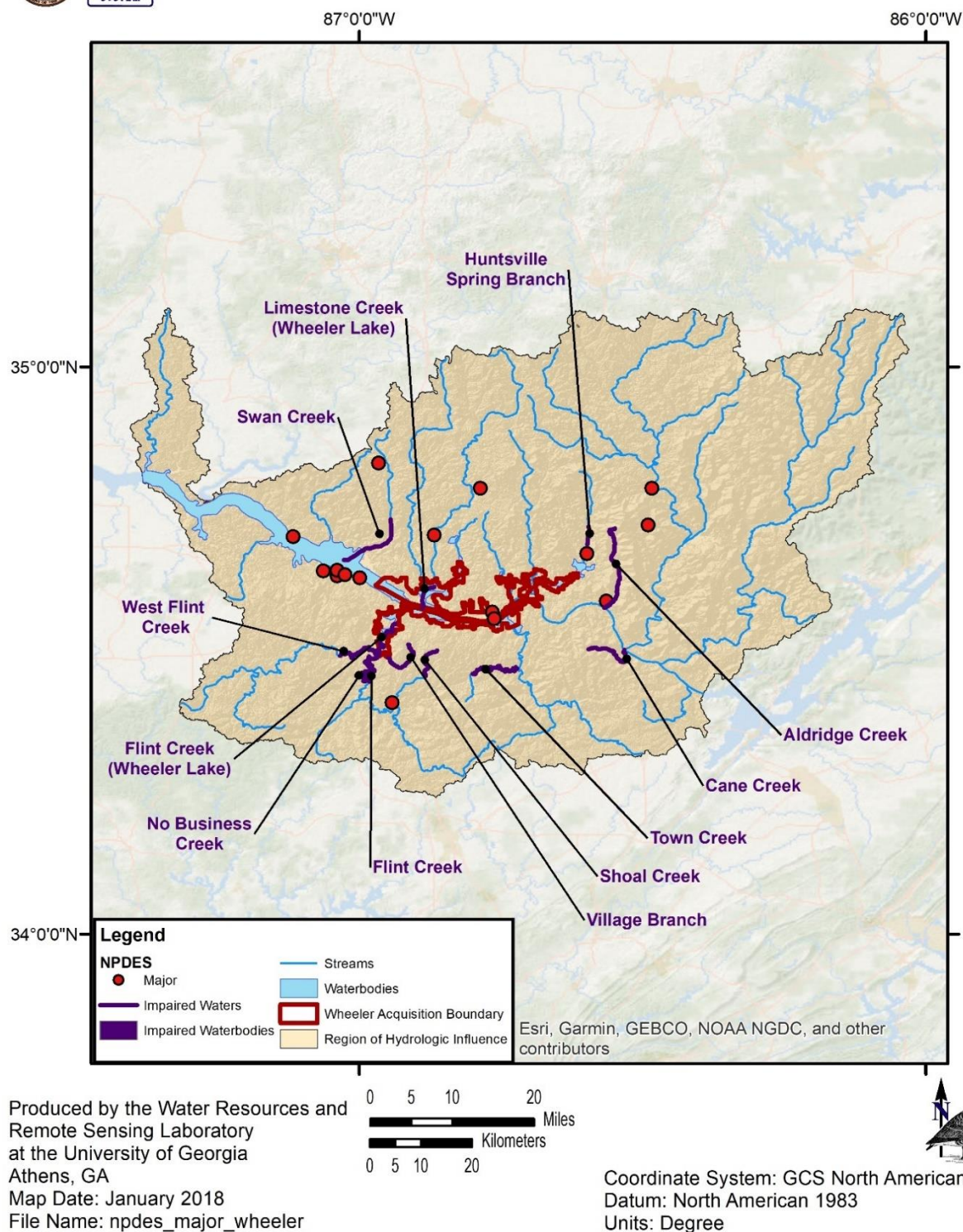


Figure 32. Major NPDES permit facilities and selected impaired waters in the RHI. (EPA, 2015, 2016).

Table 24. Facilities with NPDES permits listed as "major." (EPA, 2016)

Registry ID	Name	Type	City	Latitude	Longitude
110064258137	HUNTSVILLE WESTERN AREA WWTP	Major	MADISON	34.567911	-86.764384
110000589355	US TVA BROWNS FERRY NUCLEAR PLANT	Major	ATHENS	34.700611	-87.116111
110045447469	DAIKIN AMERICA INC	Major	DECATUR	34.63147	-87.03843
110056961417	BP AMOCO CHEMICALS	Major	DECATUR	34.640326	-87.062543
110014464739	ALDRIDGE CREEK WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.586885	-86.563373
110030772830	MORRESVILLE WWTP	Major	BELLE MINA	34.703361	-86.866889
110002040381	HARTSELLE WWTP	Major	HARTSELLE	34.408333	-86.941667
110013684085	MADISON WWTP	Major	MADISON	34.555833	-86.761389
110001934211	SPRING BRANCH WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.670861	-86.597917
110000367567	3M COMPANY	Major	DECATUR	34.641667	-87.038611
110011890604	ATHENS WWTP	Major	ATHENS	34.830179	-86.965201
110055975583	HUNTSVILLE BIG COVE WWTP	Major	BROWNSBORO	34.72109	-86.4899
110007235269	ASCEND PERFORMANCE MATERIALS	Major	DECATUR	34.633889	-87.024444
110014464748	CHASE AREA WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.78591	-86.48303
110009123849	MAGNOLIA SPRINGS WWTP	Major	HARVEST	34.785984	-86.785622
110055974557	DECATUR DRY CREEK WWTP	Major	DECATUR	34.628333	-86.998611

3.5.6 Water Laws/Water Rights

This section examines the federal and state laws surrounding water and borrows heavily from a recent WRIA report for Cahaba River NWR (USFWS, 2013) and the ADEM's Administrative Codes.

3.5.6.1 State Water Law Overview

Despite the connectedness of groundwater and surface water, most states consider these two types of water separate from each other, Alabama is no different. For surface waters, Alabama follows the guidelines set forth by the “riparian” common-law doctrine of England (Elliott, 2012; Sax, Thompson, Leshy, & Abrams, 2006). For groundwater laws, Alabama follows the “American Reasonable Use Rule” (Elliott, 2012; Sax et al., 2006).

The “riparian” practice came from England in the 1700s and has been modified by the United States and attempts to address changes in the waters from the Industrial Revolution and other modern developments. The main idea of this practice is that the right to use the water in a stream or lake is based on who owns the land adjacent to the water. The property owners can use some of the water for private domestic and irrigation uses (Elliott, 2012; Sax et al., 2006). This also transfers to groundwater usages, while the term “reasonable” from the “American Reasonable Use Rule” is determined on a case by case basis.

3.5.6.1.1 Water Withdrawals

The State of Alabama runs a reporting system for withdrawing water that is overseen by the Alabama Water Resources Commission through the Alabama Office of Water Resources (OWR) and a part of the Alabama Department of Economic and Community Affairs (USFWS, 2013). All individuals that have the capacity to withdraw 100,000 gallons of water per day or

more must register with the OWR and obtain a Certificate of Use. This is for both surface and groundwater withdrawals.

The OWR puts water use for drinking as its higher priority and has several standards that must be met in order to use that water. The water designated for human consumption must be monitored for contaminants and the reports are monitored by the ADEM. The water must always be up to regulation 335-7 at all times (ADEM). The water that is withdrawn for human consumption can be defined as “beneficial use” unless it is in a “capacity stress area”.

“Beneficial use” means the “diversion, withdrawal, or consumption of the waters of the state in such quantity as is necessary for economic and efficient utilization consistent with the interests of this state” (Ala. Code § 9-10B-3 (2)). “Capacity stress area” is the area where the Water Resources Commission determines that the use of water requires coordination, management, and regulation (Ala. Code § 9-10B-3 (3)). There are two situations where the water does not need to be declared “beneficial use” and have a certificate: “1) in-stream uses of water, including, but not limited to, recreation, navigation, water oxygenation system, and hydropower generation, or 2) Impoundments covering not more than 100 acres in surface area confined and retained completely upon the property of the person (“person” includes USFWS) and used solely for recreational purpose, including sport fishing” (USFWS, 2013).

3.5.6.2 Aspects of State Water Law that May Affect the Refuge

The USFWS is prohibited from receiving a certificate of use for the water on the refuges if the area of interest is the instream flows, unless the USFWS meets the definition of “beneficial use” (USFWS, 2013). However, a certificate does not transfer any right to the holder, so this is something of a moot point. In addition, there is no possible way for the USFWS to protest the giving of a certificate that might negatively affect the refuge waters except for litigation.

Currently, Alabama does not have a specific entity that comprehensively manages water resources even though the OWR has limited power (USFWS, 2013). The Alabama Water Resources Act (AWRA) states that the state “does not have an agency devoted to the conservation and management of its water resources.” While Alabama has certain regulations for times of drought, there are fewer regulations for times of abundance, which can be dangerous when it comes to sustainability (USFWS, 2013).

Groundwater laws in Alabama do not address sustainability or potential side effects of climate change (USFWS, 2013). Unfortunately, the “reasonable use” law does not have clauses that address these situations, therefore as climate change continues, groundwater in Alabama could potentially be at risk.

3.6 Assessment

3.6.1 Threats

There are twelve threats facing Wheeler National Wildlife Refuge. The threats can be separated into eight different groups: Compromised Water Management Capability, Excess or Insufficient Surface Water, Legal Challenges, Nutrient Pollution, Other Contaminants/Altered Water Chemistry, Pathogens, and Sedimentation. More information about the threats facing Wheeler NWR can be found in Table A- 1 in Appendix A.

Within the Compromised Water Management Capability category, there are two threats. The first is the insufficient resources to perform management tasks, such as: clearing debris jams, maintaining infrastructure, expanding monitoring efforts, and assessing and planning for longer-term water resource threats. The refuge has two TVA pumps in two key areas on the refuge, but sometimes has insufficient funds to operate the pumps to control excess water. The other threat is the limitations to the existing water management infrastructure. Several of these structures, such

as levees, are either damaged, or not in areas where they need to be. Therefore, there needs to be more levees put into the refuge and some levees need to be fixed.

The management of the Wheeler Reservoir can severely affect the refuge. The reservoir is occasionally raised prematurely to account for recreation and this early raising leaves the refuge unable to empty impoundments via gravity. This is also an issue when there is natural flooding on the reservoir as well. The flooding on the refuge either ruins crops that were planted for the waterfowl, or it deters the refuge staff from planting preferred crops such as corn. Conversely, the lack of water on the refuge is also a problem. The impoundments on the refuge are currently only being filled with rainwater; in years that are dry, there can be an insufficient amount of water for the impoundments.

There is a current request by irrigators in the area surrounding Wheeler NWR to have a right-of-way across the refuge to withdraw water from the Tennessee River. If successful, this may have major implications for the refuge. The refuge needs a certain amount of water to maintain its duties, and potential water extraction from the Tennessee River may alter the water provided to the refuge from the river.

Wheeler NWR is currently dealing with excess nutrients from agricultural and urban sources. These excess nutrients can cause several problems with the water quality and can potentially lead to problems such as harmful algal blooms that can disrupt entire ecosystems. In addition to excess nutrients, Wheeler NWR is also faced with contaminants from Redstone Arsenal, a Superfund site. The contaminants found on the refuge from Redstone Arsenal include arsenic, perchlorate, mercury, polycyclic aromatic hydrocarbons (PAHs), and Trichloroethylene (TCE).

Under Pathogens, the refuge faces a threat from the Chytrid fungus and miscellaneous pathogens from urban sewage making their way onto the refuge. Chytridiomycota, more commonly known as chytrid, is a fungus that infects amphibians and is believed to be responsible for global declines in amphibian populations, especially frogs. This fungus has been observed currently on the refuge and poses a threat to all amphibian habitats on the refuge. Other pathogens from urban sewage

Finally, the refuge is also threatened by sedimentation on the refuge from both agricultural and urban runoff. Sedimentation in the streams can lead to changes in the natural balance of stream ecosystems and can lead to destabilizing a stream. In addition, this sedimentation can lead to severe problems in vegetation, soils, and water quality.

3.6.2 Needs

There are five recommendations for Wheeler NWR to help combat the threats facing the refuge and help with the day to day activities. Most of these recommendations were developed through personal communication with the refuge staff. The needs can be split into three main categories: Water Monitoring/ Measurements, Coordination/Support, and Water-Related Infrastructure. More information about all of these needs and recommendations can be found in Table A- 2 in Appendix A.

The first recommendation is to conduct a baseline water monitoring study. The water monitoring study on the refuge can be used to observe the impact of nutrients, sediments, and agricultural and urban runoff on the refuge. By having an in-depth study of the water resources, the refuge staff can be better prepared to some of the threats to the natural resources and can monitor the overall trends on the refuge.

The next two recommendations fall into the Coordination/Support category. The first need is to increase the refuge staff and or funding. This is one of the most important if not the most important recommendation. As of right now, the refuge is understaffed to meet all of the habitat management needs. The other recommendations in this category is partnership building. Due to the size and location of the refuge, there are some things that are out of the USFWS's control, therefore creating partnerships with other organizations to aid in the protection of the refuge is essential. Partnerships could also potentially help the refuge when it is understaffed to still meet the goals of the refuge management.

The last category, Water-Related Infrastructure, has two recommendations. The first is to repair and replace the water infrastructure already on the refuge. This recommendation includes water infrastructure as a whole as well as gain access to the Tennessee Valley Authority (TVA) pumps to remove excess water from the refuge impoundments. Therefore, this recommendation has two parts: obtain funding to repair and replace certain infrastructure and build a partnership with the TVA. The next recommendation is to install wells on the refuge's impoundments, so the impoundments are not solely relying on rain to fill them.

CHAPTER FOUR

REGIONAL ASSESSMENT OF THE USFWS SOUTHEAST COMPLEXES

4.1 Introduction

The following section examines data from the 12 NWRs in the USFWS Southeast Region. Spanning over three states, the following refuges represent a handful of different natural settings and water resources throughout the southeast. Although this chapter does not cover every section that is included in a WRIA, it contains the most pertinent sections and information that can be easily compared.

4.2 Natural Setting

4.2.1 RHIs

The first step in creating a WRIA for a refuge is to define the RHI. The definition of the RHI can and has changed throughout the twelve NWRs, thus causing the RHIs to vary in size because of the different definitions used (Table 25).

The RHIs for the South Arkansas Complex which includes: Felsenthal, Overflow, and Pond Creek NWRs, were created by delineating a watershed that included the HUC-10s intersecting the refuges with ArcSWAT. Based on the WRIA that was completed for Cahaba River, the RHIs for the Wheeler Complex were created by the HUC-10s surrounding the refuge. Mountain Longleaf and Wheeler's RHIs were created by the encompassing HUC-8 because of the importance of the greater area. The refuges in Piedmont Complex had a bit of a different approach. Bond Swamp NWR's RHI was created by using the three upstream HUC-10s and a 5-mile buffer around the southern end of the refuge to not include a lot of the downstream water.

Due to Piedmont NWR's location in three separate HUC-10s and at the request of the refuge staff the RHI was created using the 7 surrounding HUC-12s.

Table 25. Size of the refuges' RHIs compared to the acquisition boundary of the refuge.

Refuge	Region of Hydrologic Influence (square miles)	Percent of RHI Included in the Acquisition Boundary	Abbreviation
Bond Swamp	811.68	4.10	bs
Cahaba River	912.26	1.32	cr
Felsenthal	3,527.48	4.31	fel
Fern Cave	683.56	0.16	fc
Key Cave	347.69	0.47	kc
Mountain Longleaf	2,582.14	0.83	ml
Overflow	3,198.30	0.94	of
Piedmont	227.72	29.03	pied
Pond Creek	4,463.45	1.25	pc
Sauta Cave	666.11	0.06	sc
Watercress Darter	256.80	0.02	wd
Wheeler	2,890.92	1.84	whe

4.2.2 Topography

Physiographic provinces are sections of the US that were created based on the similar landforms and geology in the area. The 12 RHIs are in six different physiographic provinces: Coastal Plain, Piedmont, Appalachian Plateaus, Interior Low Plateaus, Valley and Ridge, and the Ouachita Mountains (Table 26). The Coastal Plain is where the most (five) refuges are located and no refuges are located within the Ouachita Mountains, but the RHI for Pond Creek is partly located within the province. The Coastal Plain province extends from New York to the Georgia-Florida section of the Eastern Continental Divide. This is primarily a wet region which includes swamps, rivers, and marshes. The geology of the region is comprised mostly of sedimentary rock and unlithified sediments.

The Appalachian Plateaus province is the northwestern part of the Appalachian Mountains that stretches from Alabama to New York and gently slopes northwest. From the east, the plateau has formed an escarpment that gives the appearance of a mountain range. During the Pennsylvania period (323-298Ma), a large portion of the area formed into a coalfield. The plateau merges into the major physiographic division of the Interior Plains. Located between the Atlantic Coastal Plain and the Appalachian Mountains, the Piedmont province is bound by the Atlantic Seaboard Fall Line on its eastern side and by the Blue Ridge Mountains to its west.

The Valley and Ridge province is a belt within the Appalachian Mountains that extends from southeastern New York west to Pennsylvania and south to Alabama and Georgia and gained its name from being predominantly comprised of long, even ridges with continuous valleys in between the ridges. The ridges and lowlands of the province trend northeast to southwest. In the north of the province the ridges are slightly more elevated than the ridges in the south. The range of the elevation of the ridges throughout the province is 1,100 to 1,500 feet and the valleys are 700 to 1,000 feet above sea level.

The Interior Low Plains province has a diverse landscape that can be very steep and rugged in places but also gentle and rolling in others. Although the surrounding areas are covered in glacial till, the Interior Low Plateaus were never overlain by glaciers. The province is mainly covered in sedimentary bedrock close to the surface which dictates the topography. The area does not have any mountain ranges but has dissected plateaus. Located in Arkansas and Oklahoma, the Ouachita province has prevalent faulting and folding that occurred at the same time as the Appalachians' faulting and folding which suggests that they used to be part of the same continuous mountain range. Coal, novaculite and aluminum are mined within the Ouachita province.

Table 26. Physiographic provinces of the RHIs and NWRs. (USGS, 1946).

Physiographic Province	RHIs	Refuges
Coastal Plain	Bond Swamp, Cahaba River, Felsenthal, Key Cave, Overflow, Pond Creek	Bond Swamp, Cahaba River, Felsenthal, Overflow, Pond Creek
Piedmont	Bond Swamp, Mountain Longleaf, Piedmont	Piedmont
Appalachian Plateaus	Fern Cave, Key Cave, Mountain Longleaf, Sauta Cave, Watercress Darter, Wheeler	Fern Cave, Sauta Cave
Interior Low Plateaus	Fern Cave, Key Cave, Wheeler	Key Cave, Wheeler
Valley and Ridge	Cahaba River, Mountain Longleaf, Watercress Darter	Mountain Longleaf, Watercress Darter
Ouachita Mountains	Pond Creek	

In addition to the physiographic provinces, information on the local topography can be estimated using Digital Elevation Models (DEMs). The DEMs obtained from the USGS have a resolution of 10 m and were used to calculate the elevation range in feet on the refuge and within the RHI (Figure 33). Mountain Longleaf has the most change in relief within its acquisition boundary with a 1,380 ft change in elevation and its RHI has a change in elevation of 2,066 ft. The RHI of Pond Creek has the largest change in elevation (2,144 ft), but its acquisition boundary has one of the smallest changes in elevation (207 ft).

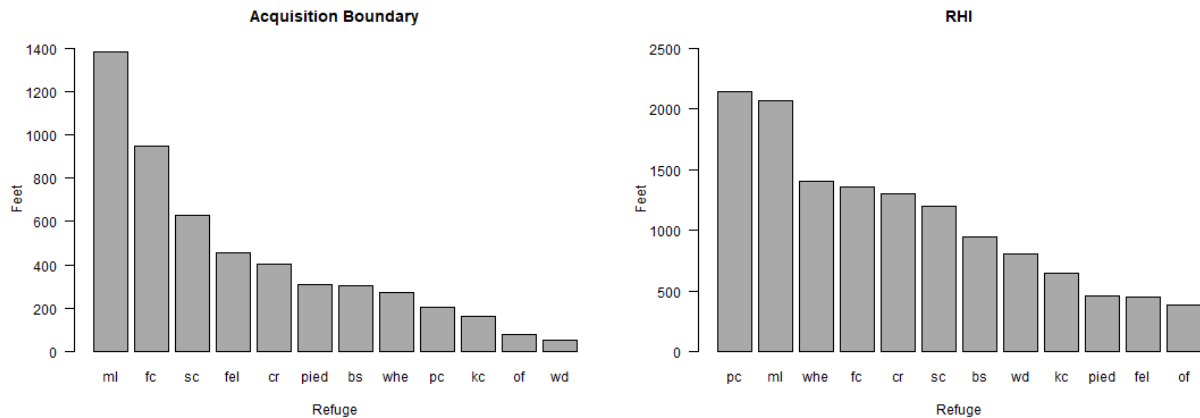


Figure 33. Difference between the maximum and minimum elevation (ft) in the acquisition boundaries and RHIs. (USGS).

4.2.3 Geology and Hydrogeology

Within the acquisition boundary of the refuges in the southeast, most of the refuges are comprised of either sedimentary rocks, or unconsolidated sediments. Five of the refuges also contain metamorphic rocks and two of them consist of metamorphic rocks (Cahaba River and Piedmont NWRs). Although there are no igneous rocks within the acquisition boundaries of the refuges, the Piedmont and Pond Creek RHIs have a small percent of igneous rocks (Figure 34 and Figure 35).

Sedimentary rocks and unconsolidated sediments generally indicate more productive aquifers on the refuges which is important for groundwater on the refuges. The Wheeler Complex is mostly underlain by sedimentary rocks, more specifically limestone. In the region, the limestone is prone to chemical weathering and creating karst which creates the existence of the caves that are within the Wheeler Complex (Fern Cave, Key Cave, and Sauta Cave, as well as several others located within the other refuges). Fractures and joints are common in metamorphic rocks given the processes necessary for their formation, and allow for macropore

flow. Piedmont NWR is located on the Georgia Piedmont which is known for its lack of groundwater yield because of the metamorphic rocks.

According to the USGS database, there are eight different principal aquifers that are located within the acquisition boundaries; there are an additional three aquifers that are located within a few RHIs, but not in the acquisition boundaries. While most of the refuges are located completely in one aquifer system, Watercress Darter, Key Cave, and Mountain Longleaf are in two different systems (Table 27). The estimated water use from these aquifers can be found in Table 28.

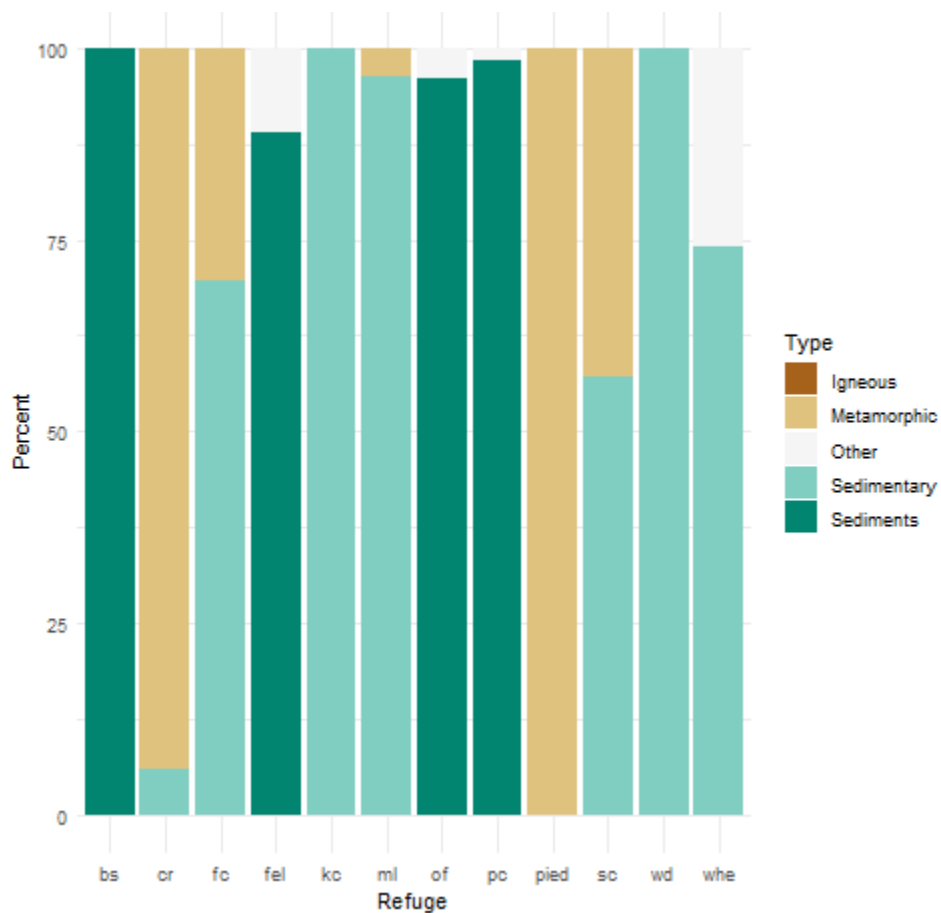


Figure 34. Percent of rock types in each acquisition boundary. (USGS, 2009).

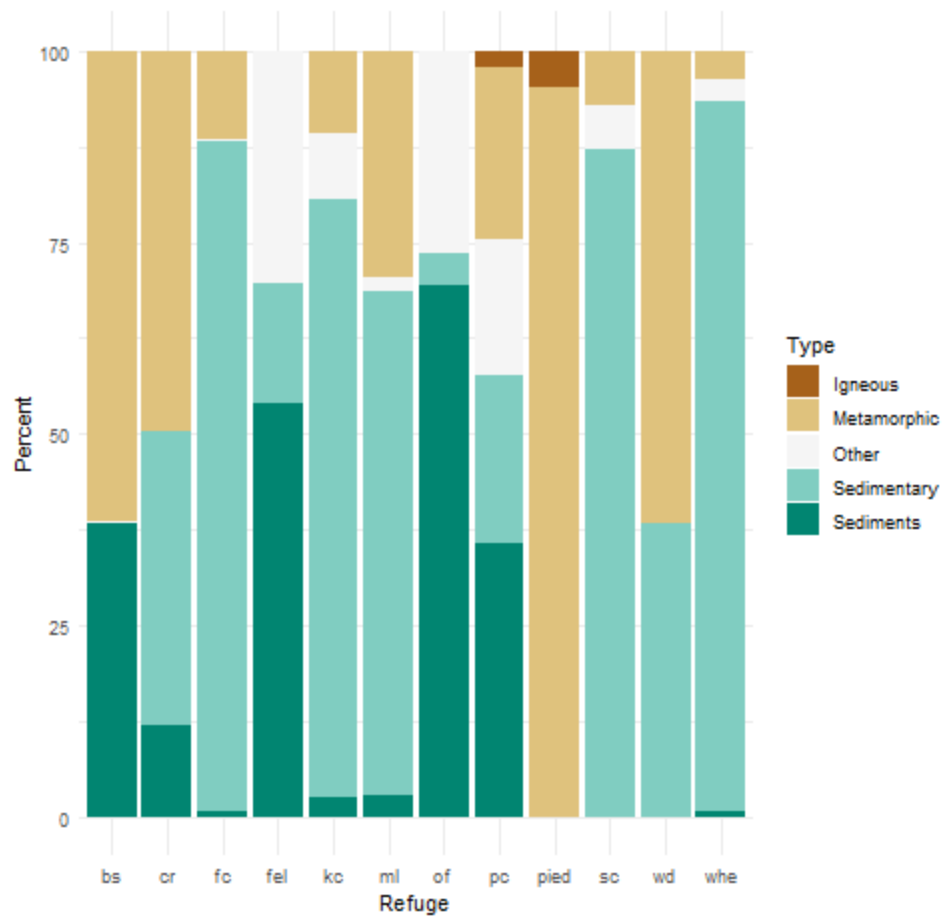


Figure 35. Percent of rock types in each RHI. (USGS, 2009).

Table 27. Principal aquifers in the RHIs and acquisition boundaries. The “Other rocks” category by the USGS indicates that there are no productive aquifers in the area, the surficial aquifers are the primary aquifer, or the local aquifers dictate the groundwater. (USGS, 2003).

Principal Aquifer	Rock Type	RHI	Refuge
Piedmont and Blue Ridge crystalline-rock aquifers	Igneous and metamorphic-rock aquifers	Bond Swamp, Cahaba River, Mountain Longleaf, Piedmont	Piedmont
Southeastern Coastal Plain aquifer system	Semiconsolidated sand aquifers	Bond Swamp, Cahaba River, Key Cave	Bond Swamp
Valley and Ridge aquifers	Sandstone and carbonate-rock aquifers	Cahaba River, Mountain Longleaf, Sauta Cave, Watercress Darter	Cahaba River, Mountain Longleaf, Watercress Darter
Valley and Ridge carbonate-rock aquifers	Sandstone and carbonate-rock aquifers	Cahaba River, Mountain Longleaf, Watercress Darter	Mountain Longleaf, Watercress Darter
Mississippian aquifers	Sandstone and carbonate-rock aquifers	Fern Cave, Key Cave, Wheeler	Key Cave, Wheeler
Other rocks	Other rocks	Fern Cave, Key Cave, Pond Creek, Wheeler	Key Cave, Pond Creek
Mississippi embayment aquifer system	Semiconsolidated sand aquifers	Felsenthal, Overflow, Pond Creek	
Mississippi River Valley alluvial aquifer	Unconsolidated sand and gravel aquifers	Felsenthal, Overflow	Felsenthal, Overflow
Pennsylvanian aquifers	Sandstone aquifers	Fern Cave, Mountain Longleaf, Sauta Cave, Watercress Darter, Wheeler	Fern Cave, Sauta Cave
Edwards-Trinity aquifer system	Sandstone and carbonate-rock aquifers	Pond Creek	
Texas coastal uplands aquifer system	Semiconsolidated sand aquifers	Pond Creek	

Table 28. Estimated principal aquifer withdrawals in millions of gallons per day (mgd) in 2000.
(Maupin & Barber, 2005)

Aquifer	Irrigation	Municipal	Industrial	Total
Mississippi River Valley alluvial aquifer	9,150	69.8	70.4	9,290
Mississippi embayment aquifer system	195	576	175	946
Southeastern Coastal Plain	382	340	138	860
Surficial	364	263	23.1	650
Mississippian aquifers	6.26	226	129	362
Valley and Ridge carbonate-rock aquifers	5.65	177	83.9	267
Ozark Plateaus	20.5	131	14	165
Piedmont and Blue Ridge (non-carbonate)	29.9	92.1	23.6	146
Pennsylvanian aquifers	5.67	77.7	49.3	132
Valley and Ridge aquifers	0.64	48.9	45.5	95
Piedmont and Blue Ridge crystalline-rock aquifers	29.9	92.1	23.6	146
Texas coastal uplands aquifer system	188	148	45	381
Edwards-Trinity aquifer system	282	411	47.2	740

4.2.4 Soils

While all the refuges have unique collections of soil series, all soil series can be categorized into different hydrologic groupings provided by the NRCS Soil Survey. The groups A, B, C, and D all correspond to run off capabilities, with group A having the least amount of potential runoff and D with the greatest. Groups A, B, and C can all be a hybrid group with group D which is due to the elevation of the water table. In the hybrid groups, A, B, and C indicate the soil group when the area is drained, and the letter D is when the soil is not drained. Five of the refuges have over 50% of their soils in group D which makes group D the largest percent of soils on average (Figure 36 and Figure 37).

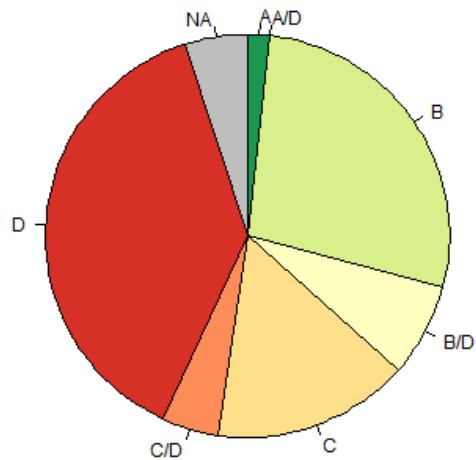


Figure 36. Average percent of the hydrologic soil groups in the acquisition boundaries. (Soil Survey Staff & NRCS, 2017).

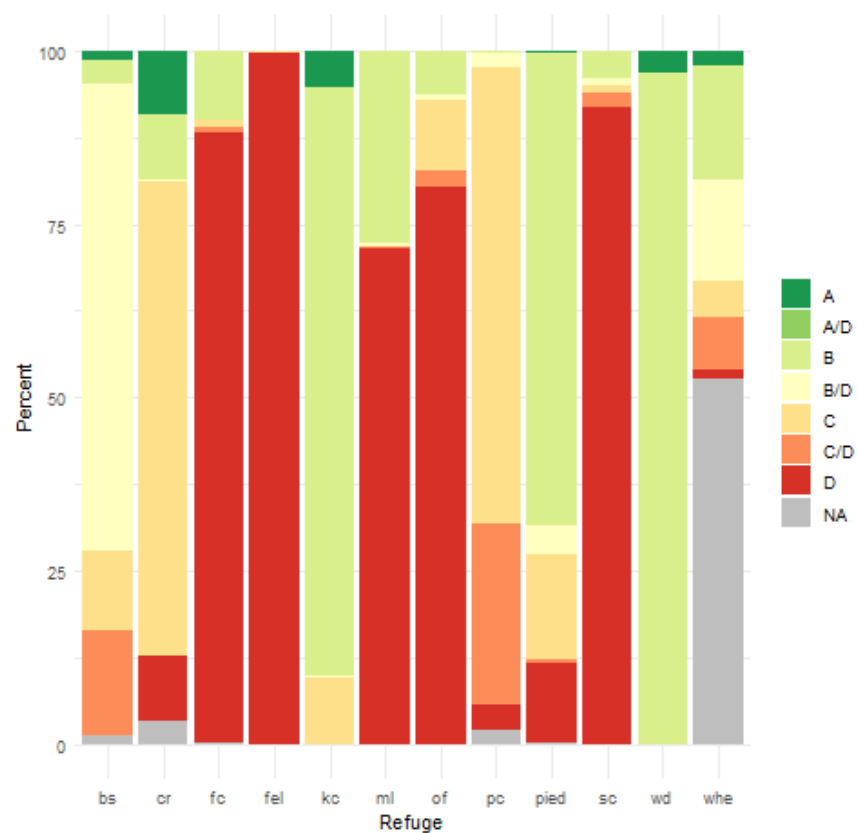


Figure 37. Percent of the hydrologic soil groups in each acquisition boundary. (Soil Survey Staff & NRCS, 2017).

4.2.5 Land Use

The land use for the acquisition boundaries and RHIs were calculated using the 2011 National Land Cover Dataset (NLCD). Created by the Multi-Resolution Land Cover Characteristics (MRLC) Consortium (a group of federal agencies), the NLCD uses Landsat imagery to categorize different land covers at 30 m resolution. While the NLCD separates land cover into over 16 categories, these have been grouped into six larger groups. Forests were, on average, the largest land use in both the acquisition boundaries and RHIs (Figure 38). Only two RHIs had more land in a different category (agriculture) than in forests (Table 29).

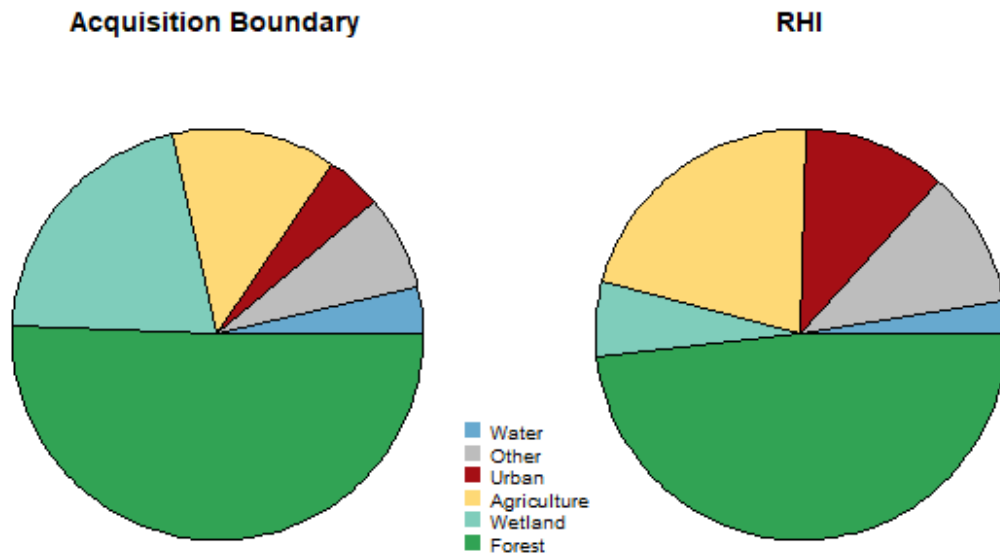


Figure 38. Average land use classifications in the acquisition boundary and RHIs. (USGS, 2014).

Table 29. Percent of land use classifications in the RHIs. (USGS, 2014).

Refuge	Water	Other	Urban	Agriculture	Wetland	Forest
BS	1.37	15.42	14.37	11.12	9.8	47.92
CR	1.02	12.24	22.2	7.81	1.39	55.33
FC	0.45	4.91	6.03	22.31	2.13	64.17
FEL	1.44	14.27	4.66	3.7	23.01	52.92
KC	9.08	9.71	12.11	35.14	3.07	30.9
ML	2.1	9.75	11.08	16.72	1.81	58.54
OF	2.12	6.28	5.94	49.65	13.24	22.76
PC	2.49	13.91	5.28	24.07	6.59	47.66
PIED	1.43	16.98	6.31	3.12	3.2	68.97
SC	6.36	8.1	5.92	33.1	2.34	44.18
WD	0.69	10.73	30.94	2.07	1.03	54.54
WHE	3.22	6.75	12.43	38.46	4.06	35.09
Average	2.65	10.75	11.44	20.61	5.97	48.58

4.2.6 Climate

The climate for the different refuges was analyzed using annual averages from Global Climatology Historical Network (GCHN) stations. The closest station to the refuge with at least 30 years of complete data was used for the analysis. The averages of the slopes showed a decrease in average temperature and an increase in minimum temperature and precipitation (Table 30). The largest change in over a 25-year period (calculated by the slope of the averages) was an increase of 0.37 inches of rain (Figure 39). The temperature changes over 25 years were a decrease in the average temperature by 0.03°F, decrease in maximum temperature by 0.07 °F, and an increase in average minimum temperature by 0.04 °F.

Overall, 25% of the refuges showed a decrease in average, maximum, and minimum temperature (Felsenthal, Piedmont, Pond Creek and Overflow), 50% showed an increase in maximum temperature, 50% had an increase in minimum temperature and 66% had an increase in precipitation. When separated into complexes, Wheeler, had an increase in average

temperature, minimum temperature and maximum temperature, and South Arkansas and Piedmont showed a decrease in all those parameters. Wheeler and Piedmont had a decrease in precipitation (0.2 and 0.3 inches per 25 years respectively). Watercress Darter had the largest increase (0.87 °F) over 25 years in average temperature and Felsenthal had the largest decrease (-0.65 °F) (Figure 39). All the refuges, except Bond Swamp NWR, had at least one value that was statistically significant.

Table 30. Slopes calculated by annual climate data near refuges. Slopes with statistical significance are found in bold. (NOAA Regional Climate Center, 2018).

Refuge	Average Temperature Slope	Daily Maximum Temperature Slope	Daily Minimum Temperature Slope	Annual Precipitation Slope
Bond Swamp	-0.0019	0.0033	-0.0070	0.0413
Cahaba River	-0.0213	0.0318	-0.0727	-0.0812
Fern Cave	-0.0048	0.0025	-0.0112	0.0634
Felsenthal	-0.0259	-0.0266	-0.0244	0.0771
Key Cave	0.0170	0.0258	0.0084	0.0870
Mountain Longleaf	0.0155	-0.0044	0.0345	-0.0035
Overflow	-0.0102	-0.0167	-0.0015	0.0864
Pond Creek	-0.0162	-0.0271	-0.0042	0.0927
Piedmont	-0.0188	-0.0075	-0.0280	-0.0663
Sauta Cave	-0.0048	0.0025	-0.0112	0.0634
Watercress Darter	0.0347	-0.0223	0.0993	-0.2421
Wheeler	0.0222	0.0067	0.0378	0.0583

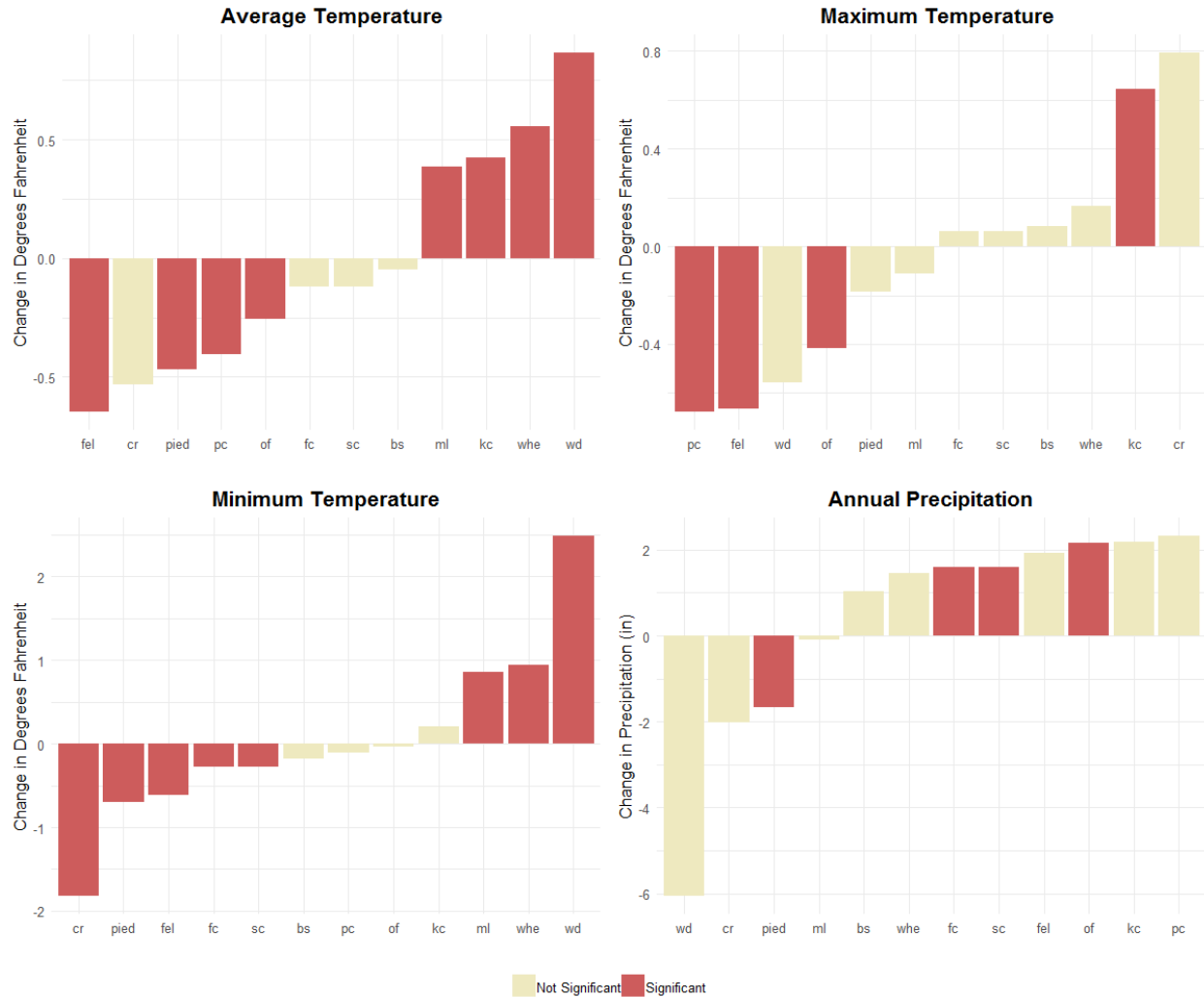


Figure 39. Projected changes in temperature and precipitation in 25 years. The red bars indicate slopes that were statistically significant. (NOAA Regional Climate Center, 2018).

4.3 Inventory

4.3.1 Rivers and Streams

The National Hydrography Dataset (NHD) was used to define areas of water within the acquisition boundaries and RHIs of the refuges. Within the RHIs there are six different types of flowlines indicating streams. The ephemeral stream classification is only found in the RHI of

Pond Creek, and the “Stream/River”, a classification that has no other identifier such as “Intermittent” or “Perennial” is only found in the RHI of Felsenthal.

Within acquisition boundaries, Felsenthal has the most miles of NHD flowlines (351.55 miles or 33% of the total); however, Watercress Darter has the greatest concentration of flowlines in its area even though it only has 0.3 miles of flowlines (Figure 40). Within the acquisition boundaries, there are 1,060.04 miles of flowlines, 45% are intermittent, 29% are artificial paths, about 26% are perennial and the rest are connectors. The highest percentage of flowlines for seven refuges is intermittent. When normalized by the area of the refuges, there is a total of 31.46 miles per square mile (44% are perennial, 40% are intermittent and 15% are artificial paths).

Table 31. Miles of NHD flowlines within the acquisition boundaries. (USGS, 2013a).

Total Miles of Flowlines	Refuges
Less than 5	Fern Cave, Key Cave, Sauta Cave, Watercress Darter
30-60	Cahaba River, Mountain Longleaf, Overflow
100-200	Bond Swamp, Piedmont, Pond Creek, Wheeler
300+	Felsenthal

Within the RHIs, there are 50,426.06 miles of flowlines: 50% are intermittent, 33% are perennial, and 11% are artificial paths. Pond Creek’s RHI has the most flowlines overall (10,390 miles or 20.7% of the total), but when normalized over its area it has 2.32 miles per square mile of flowlines (Figure 40). When normalized over the areas of the RHIs, there are 27.21 miles per square miles of flowlines: 47% are intermittent, 40% are perennial, and 13% are artificial paths.

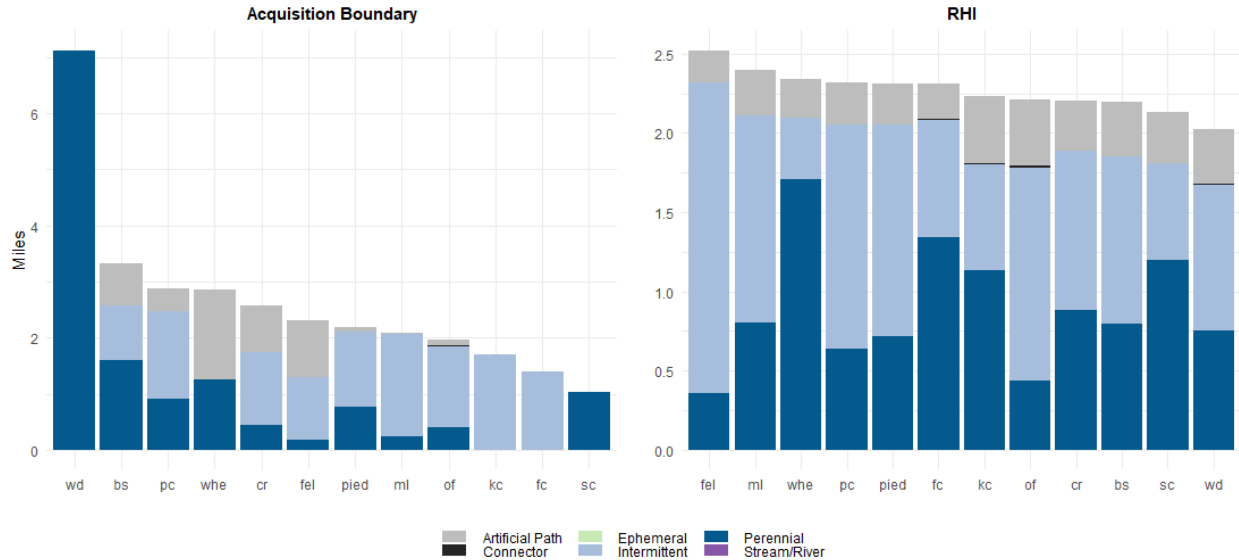


Figure 40. Length of NHD flowlines (mi) in the acquisition boundaries and RHIs, normalized by the areas (mi²). (USGS, 2013a).

The NHD flowlines can also be categorized by their Strahler stream orders. The stream order classifications can determine where a refuge is within a watershed. The smaller stream orders indicate being closer to the headwaters and the larger stream order is more likely to be close to a larger body of water. Overall, first order streams are the most common in both the acquisition boundaries and RHIs (Figure 41). The highest stream order within the acquisition boundaries is eight which falls within Wheeler NWR. This is most likely because of the refuge's proximity to the Tennessee River. Only five refuges have stream orders greater than six within their acquisition boundaries, however, eight RHIs have stream orders greater than six (Figure 42 and Figure 43).

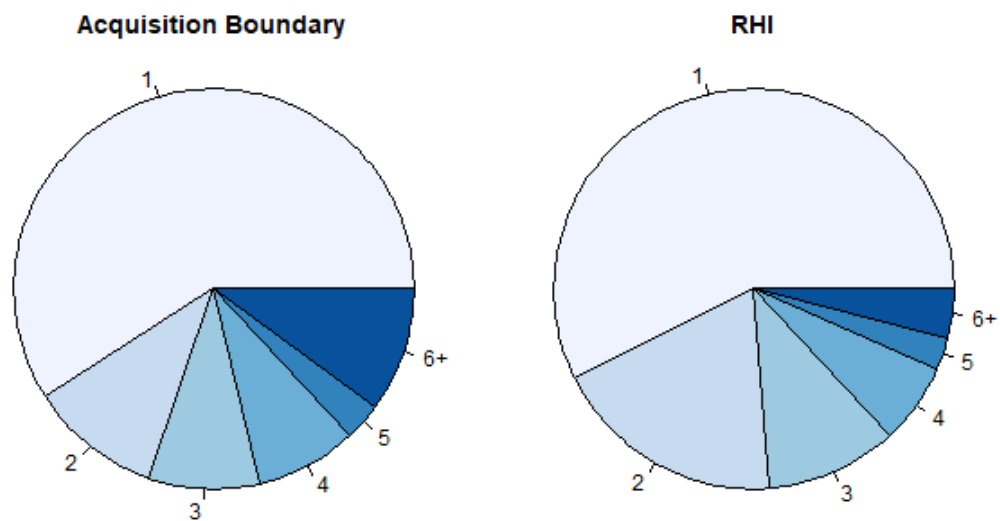


Figure 41. Comparison of the length of different stream orders in the aquisition boundaries and RHIs normalized by the areas. (USGS, 2013a).

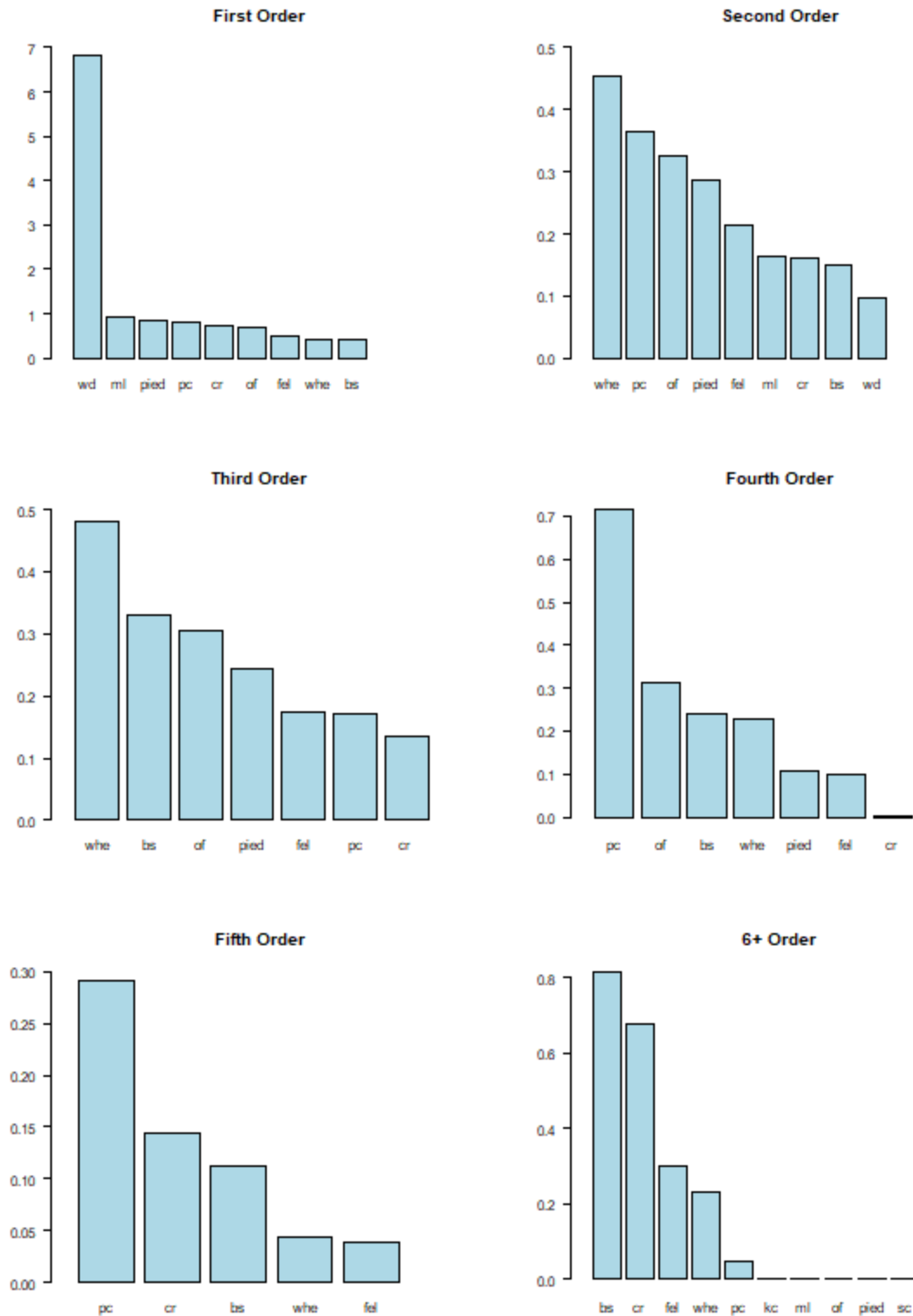


Figure 42. Length of stream orders (mi) normalized by the areas of the acquisition boundaries (mi²). (USGS, 2013a).

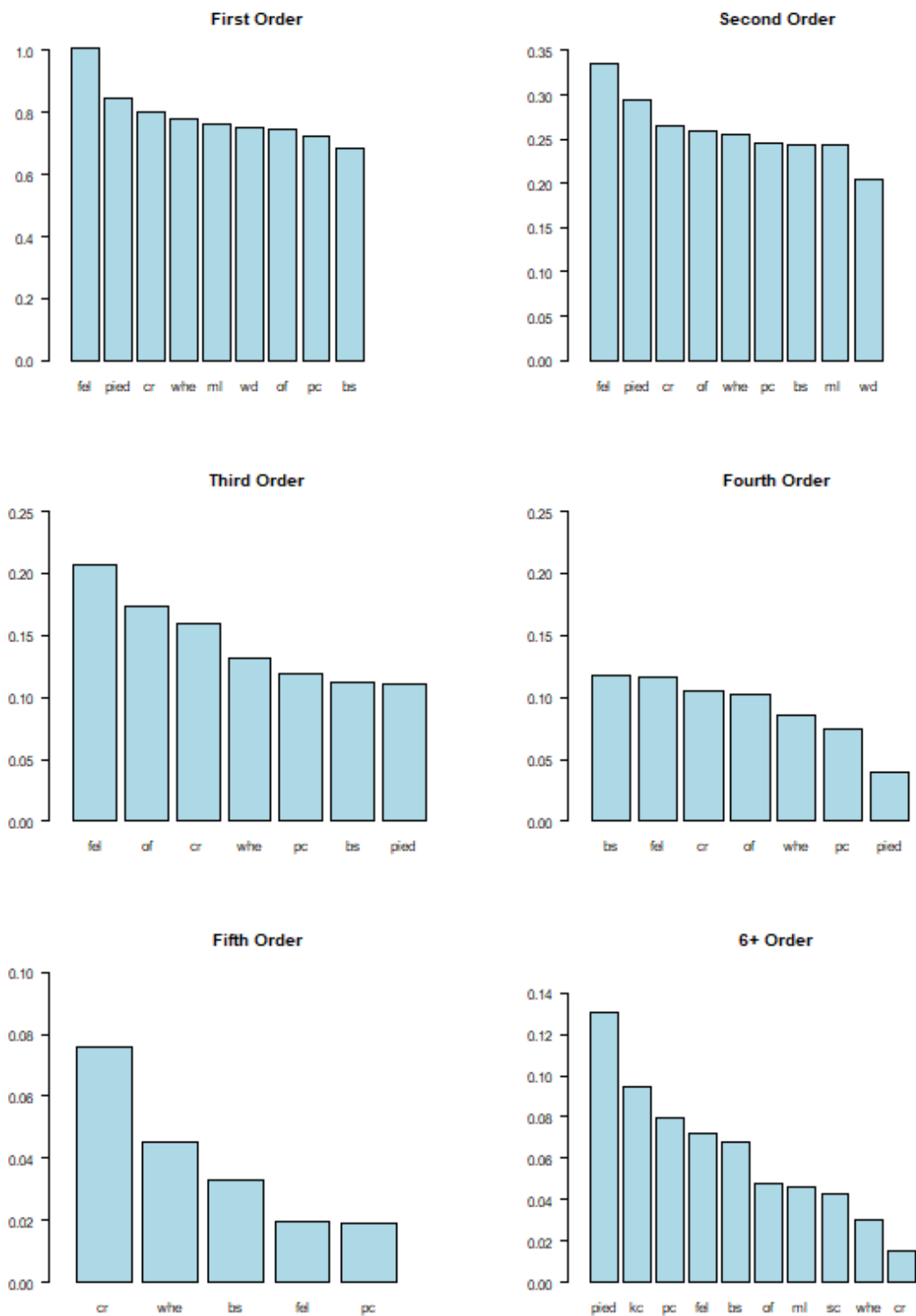


Figure 43. Length of stream orders (miles) normalized by the areas of the RHIs (mi²). (USGS, 2013a).

4.3.2 Lakes and Ponds

The NHD Waterbodies within these RHIs can fall into one of six categories; however, some of the waterbodies on the refuges are not present in the NHD. Wheeler NWR has the largest area of waterbodies (17.61 square miles), but when normalized by the area of the refuge, Overflow has the largest percentage covered by NHD waterbodies categorized as swamps/marshes (Figure 44). Within the RHIs, Overflow and Wheeler have the largest areas of waterbodies (192 and 106 square miles, respectively), however, Key Cave and Santa Cave have the largest percentage of area covered with waterbodies (Figure 44).

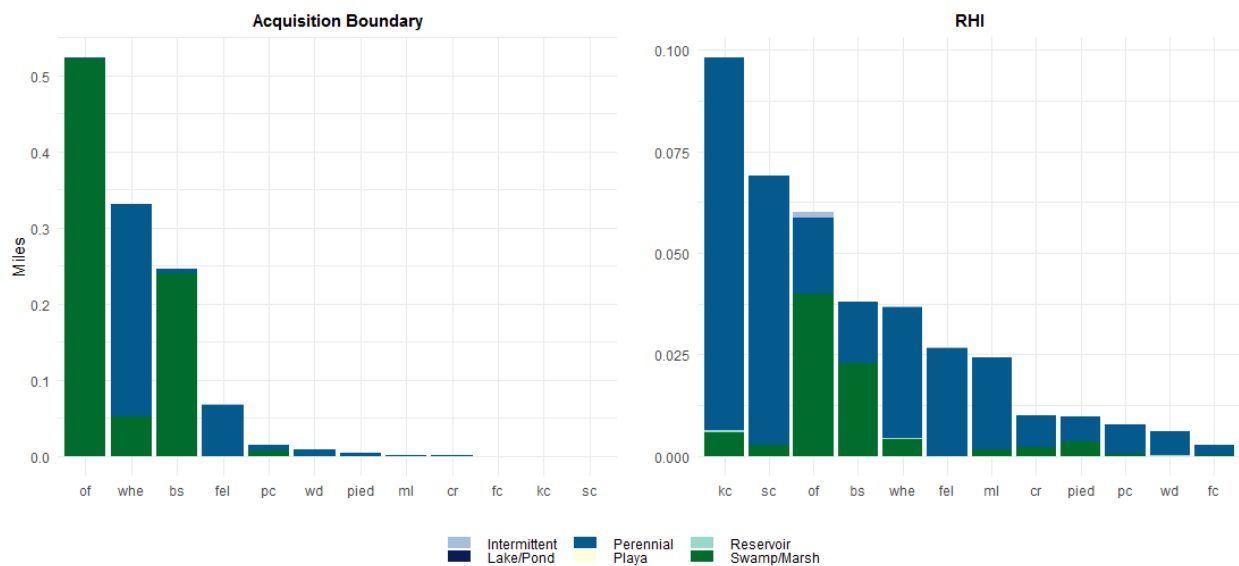


Figure 44. NHD waterbodies in the acquisition boundaries and RHIs normalized by area. (USGS, 2013a).

4.3.3 Wetlands

The National Wetland Inventory (NWI) run by the USFWS has categorized about 90% of the conterminous United States. On average, 29% of the acquisition boundaries can be categorized in the NWI (Table 32). Felsenthal NWR has the highest percentage (80.93%) and

Sauta Cave has the least (0.49%). Of the area that is classified in the NWI, almost 90% is Freshwater Wetlands on average (Figure 45). The freshwater wetlands are separated into two groups, Freshwater Emergent Wetlands and Freshwater Forested/Shrub Wetlands. Within the RHIs and refuges, the Freshwater Forested/Shrub Wetlands are the more prevalent than the Freshwater Emergent Wetlands (Table 32, Figure 45, and Figure 46). Bond Swamp has the largest area of Freshwater Forested/Shrub Wetlands in its refuge and its RHI normalized by both areas (Figure 46). Wheeler is the refuge with the largest area of the Freshwater Emergent Wetlands and the RHI of Key Cave has the largest area.

Table 32. Wetland categories percent of total area of the acquisition boundaries. (USFWS, 2015).

Refuge	Freshwater Emergent Wetland	Freshwater Forested/Shrub Wetland	Freshwater Pond	Lake	Riverine	Total
Bond Swamp	0.46	72.95	0.20	0.22	1.75	75.59
Cahaba River	0.01	1.63	0.37	0.00	3.23	5.23
Fern Cave	0.00	0.00	0.06	0.00	0.64	0.70
Felsenthal	3.08	72.81	0.18	4.31	0.56	80.93
Key Cave	0.26	3.88	0.14	0.00	0.16	4.44
Mountain Longleaf	0.03	0.08	0.12	0.00	0.80	1.03
Overflow	0.42	51.47	0.01	0.00	0.20	52.11
Pond Creek	2.37	53.58	0.21	0.35	1.29	57.80
Piedmont	0.11	2.27	0.25	0.08	0.87	3.59
Sauta Cave	0.00	0.00	0.00	0.00	0.49	0.49
Watercress Darter	0.00	0.64	0.73	0.00	2.72	4.09
Wheeler	7.40	28.83	0.51	26.02	0.52	63.27
Average	1.18	24.01	0.23	2.58	1.10	29.11

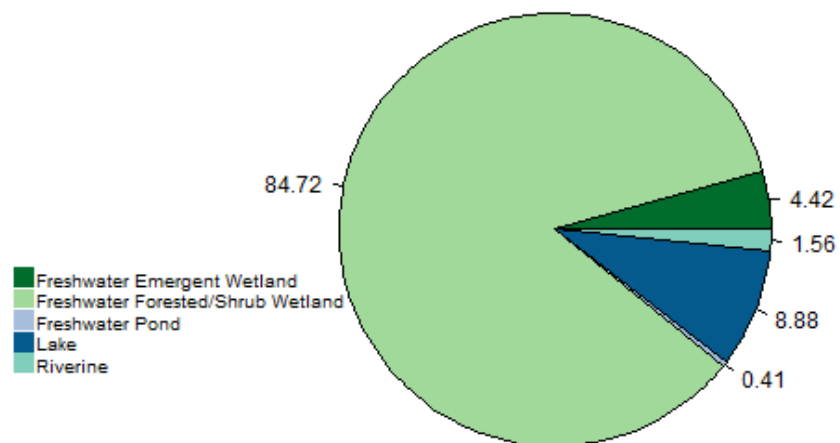


Figure 45. Percent of the wetland classifications in the acquisition boundaries. (USFWS, 2015).

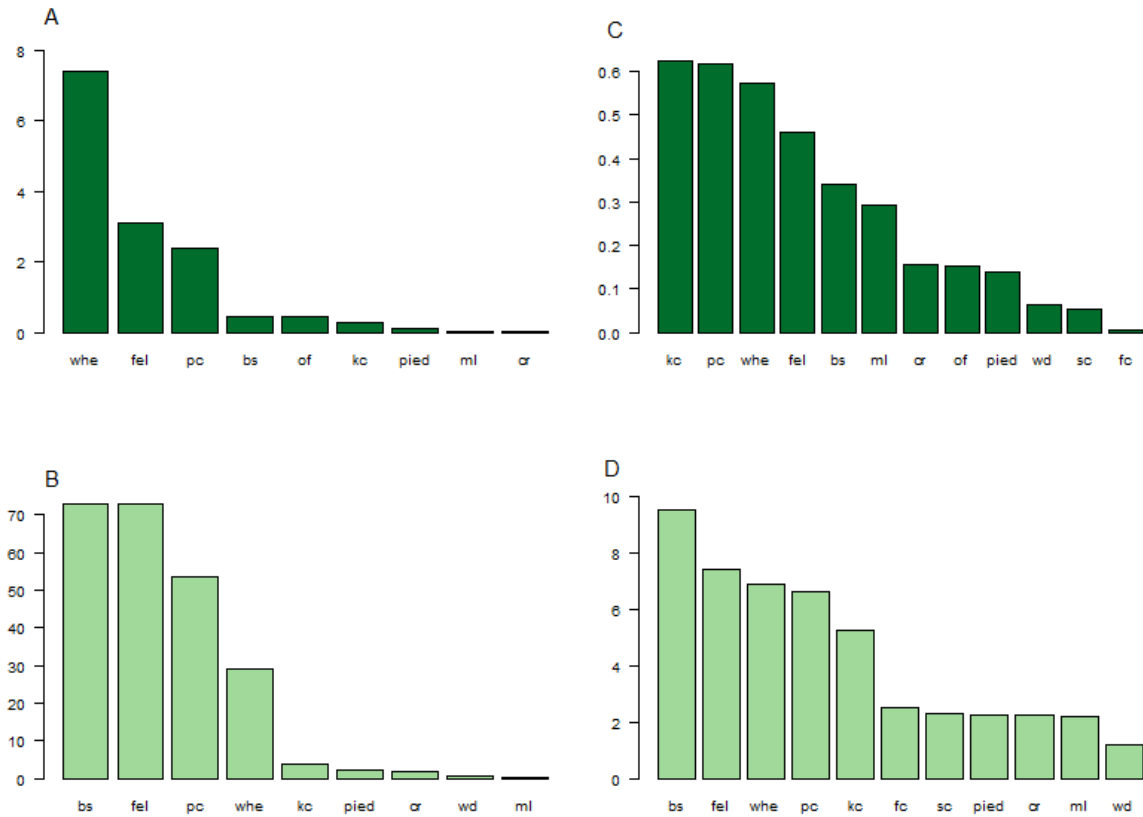


Figure 46. Freshwater wetlands in the acquisition boundary and RHIs. **A.** Freshwater Emergent Wetlands area in the acquisition boundaries normalized by the area of the acquisition boundaries. **B.** Freshwater Forested/Shrub Wetland area in the acquisition boundaries normalized by the area of the acquisition boundaries. **C.** Freshwater Emergent Wetlands area in the RHIs normalized by the area of the RHIs. **D.** Freshwater Forested/Shrub Wetland area in the RHIs normalized by the area of the RHIs. (USFWS, 2015).

4.3.4 Springs

According to the NHD, the following RHIs have springs, however, this database is not 100% accurate. For example, the NHD does not have any springs identified within the acquisition boundary or RHI of Watercress Darter, however, Watercress Darter is a refuge that is a collection of springs. Piedmont and Bond Swamp also do not have any springs present in their RHIs. Fern Cave NWR is the only refuge that is said to have a spring in its acquisition boundary.

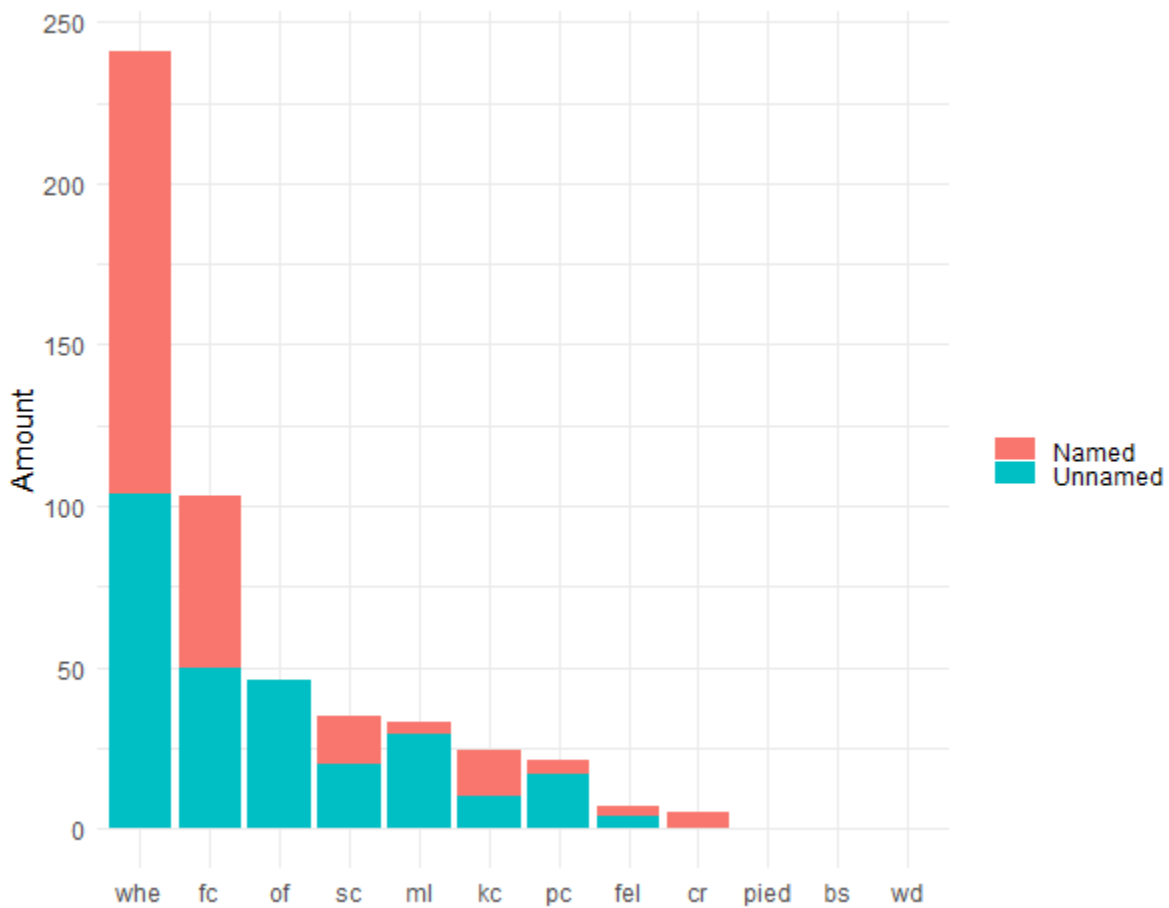


Figure 47. Abundance of springs within the RHIs. (USGS, 2013a).

4.3.5 Dams

Dams and their impoundments can alter water resources up and downstream through changing flow regimes, water temperature, flooding capabilities, concentration of dissolved oxygen, and sediment transport. These changes can also affect the species in the rivers and on the banks. Half of the refuges have dams within their acquisition boundaries, and all of them have dams within their RHIs. The alterations that a dam can make to a river impact the water quality of that water and thus can impact the refuge indirectly. The estimated dams were identified through models used by the Southeastern Aquatic Research Partnership (SARP), and the unnamed dams are normally dams that have been catalogued by states or counties.

According to the dataset, Mountain Longleaf has the greatest amount of named dams (162) and the most estimated dams (34). Piedmont has the most dams within its acquisition boundary (13). The SARP dataset combines several dam inventories, however, it is still not a complete dataset, because the United States Army Corps of Engineers (USACE) and the Tennessee Valley Authority (TVA) do not release the location of all of their dams because for security. These agencies oversee major dams that affect the refuges, such as the dams operated by the TVA located on the Tennessee River. Although Wheeler NWR has information about the beaver dams on the refuge, the other NWRs did not have any information; therefore, beaver dams were not included in the regional assessment.

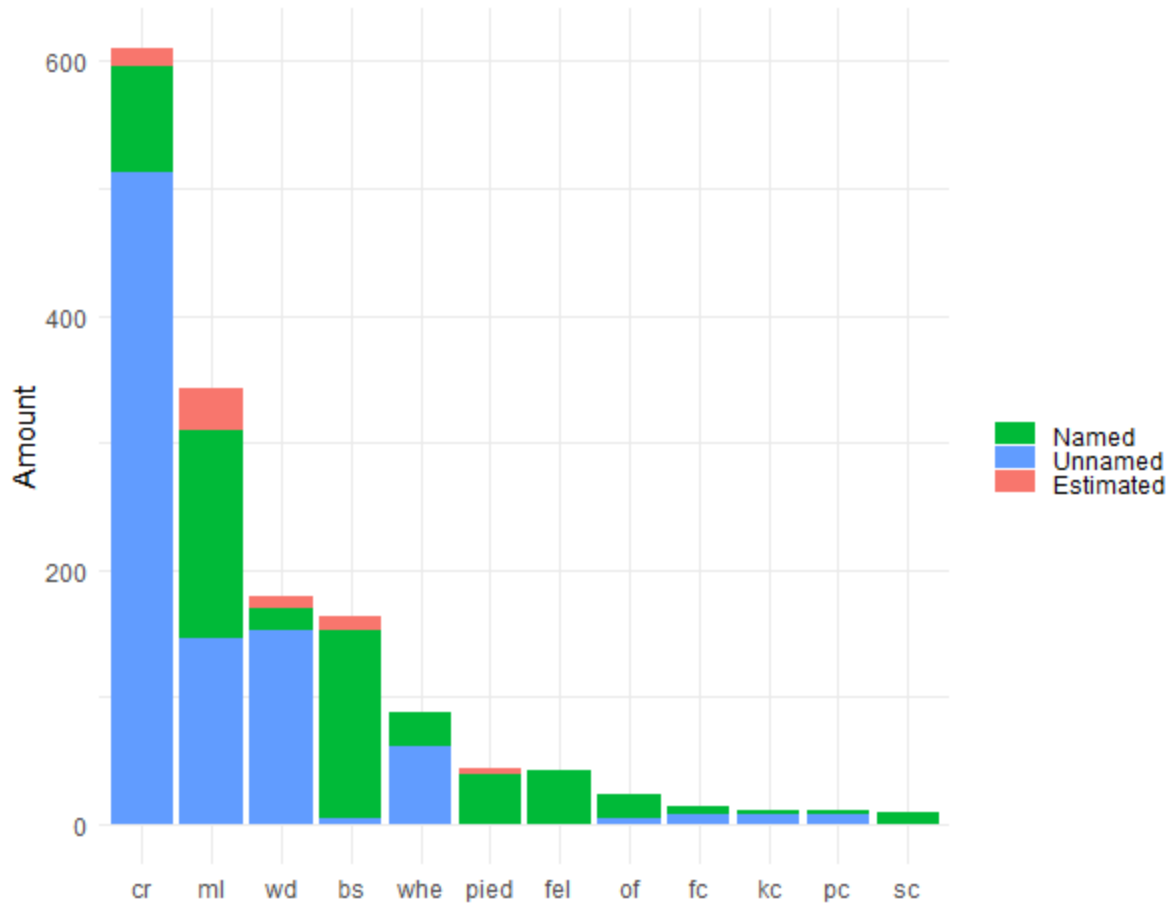


Figure 48. Number of dams in the RHIs. (SARP, 2017).

4.3.6 Species

The USFWS IPaC identifies species that are threatened or endangered within the United States. Southeastern refuges, such as Watercress Darter NWR, were created to protect specific species. Cahaba River has the most species that are on the list (22), and Overflow has the least (3). Threatened and endangered mammals are present in 83% of the refuges, while crustaceans and amphibians are only in one (Wheeler and Watercress Darter, respectively) (Figure 49). Wheeler NWR, Key Cave NWR, and Cahaba River NWR, have the most endangered species (13) and Cahaba River has the most threatened species (9). All the refuges have at least one

endangered species. On these 12 refuges, there are 69 species that are either threatened or endangered and one that is a candidate (the Gopher Tortoise in Bond Swamp) (Figure 50). Clams are the group that has the most species threatened or endangered (27), and Key Cave has the most of these species (10) (Figure 49 and Figure 50).

Several species that are on the threatened or endangered lists in the southeast also have “Critical Habitats” that are in acquisition boundaries or RHIs. There are 15 critical habitats that are in one or more of the RHIs of Cahaba River, Fern Cave, Felsenthal, Mountain Longleaf, Pond Creek and Wheeler. Six of the habitats are for threatened species and nine are for endangered species (Table 33). Cahaba River’s RHI has the most critical habitats overall and for threatened species (nine and four, respectively); and Mountain Longleaf’s RHI has the most critical habitats for endangered species (seven).

In addition to the threatened and endangered species list, IPaC also offers a list of migratory birds that are present in each of the acquisition boundaries. Overall, there are 28 different migratory birds that are present on the refuges: two are Non-BCC Vulnerable, seven are BCC-BCR and 19 are BCC Rangewide (CON). Bond Swamp NWR has the most migratory birds (16) and the most that are categorized as BCC Rangewide (CON) and BCC-BCR (twelve and three, respectively) (Figure 51). Piedmont and Wheeler both have the most Non-BCC Vulnerable birds (two) (Figure 51).

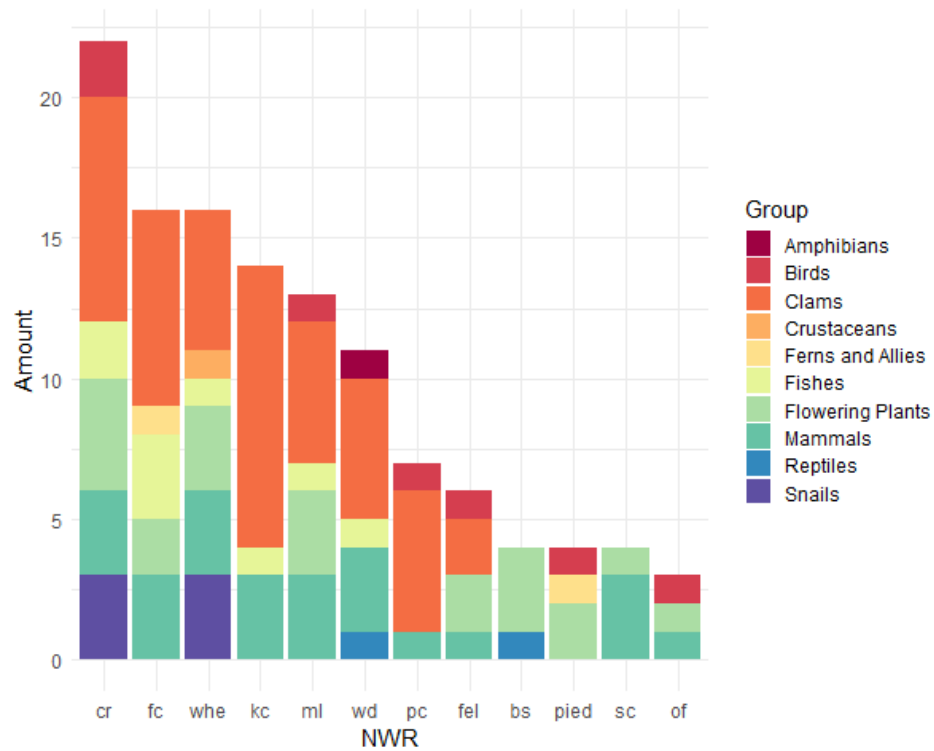


Figure 49. Threatened and endangered species within the acquisition boundaries. (USFWS, 2011)

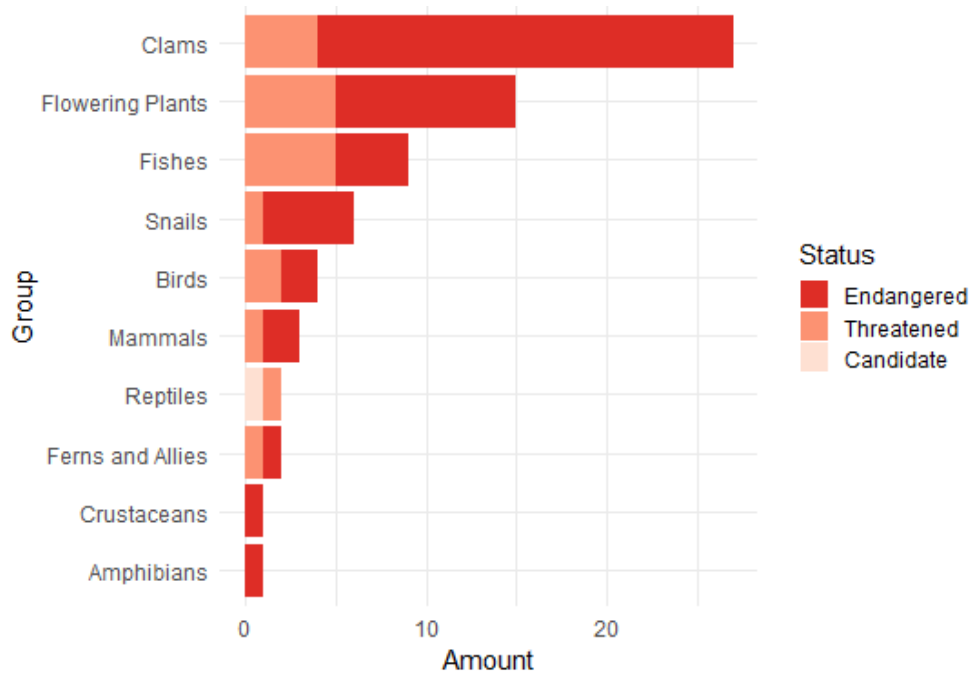


Figure 50. Threatened and endangered species in the acquisition boundaries. (USFWS, 2011)

Table 33. Critical habitats located in RHIs.

Common Name	Scientific Name	Status	Where
Alabama moccasinshell	<i>Medionidus acutissimus</i>	Threatened	Cahaba River acquisition boundary
Coosa moccasinshell	<i>Medionidus parvulus</i>	Endangered	Mountain Longleaf RHI
Finelined pocketbook	<i>Lampsilis altilis</i>	Threatened	Cahaba River acquisition boundary, Mountain Longleaf RHI
Georgia rockcress	<i>Arabis georgiana</i>	Threatened	Cahaba River acquisition boundary
Fleshy-fruit gladeceess	<i>Leavenworthia crassa</i>	Endangered	Wheeler RHI
Orangenacre mucket	<i>Lampsilis perovalis</i>	Threatened	Cahaba River acquisition boundary
Ovate clubshell	<i>Pleurobema perovatum</i>	Endangered	Cahaba River acquisition boundary, Mountain Longleaf RHI
Leopard darter	<i>Percina pantherina</i>	Threatened	Pond Creek acquisition boundary
Slabside Pearlymussel	<i>Pleuroaia dolabelloides</i>	Endangered	Fern Cave RHI, Wheeler RHI
Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Threatened	Felsenthal RHI, Pond Creek RHI, Fern Cave RHI, Wheeler RHI
Southern acornshell	<i>Epioblasma othcaloogensis</i>	Endangered	Cahaba River acquisition boundary, Mountain Longleaf RHI
Southern clubshell	<i>Pleurobema decisum</i>	Endangered	Cahaba River acquisition boundary, Mountain Longleaf RHI
Southern pigtoe	<i>Pleurobema georgianum</i>	Endangered	Mountain Longleaf RHI
Triangular Kidneyshell	<i>Ptychobranhus greenii</i>	Endangered	Cahaba River acquisition boundary, Mountain Longleaf RHI
Upland combshell	<i>Epioblasma metastriata</i>	Endangered	Cahaba River acquisition boundary, Mountain Longleaf RHI

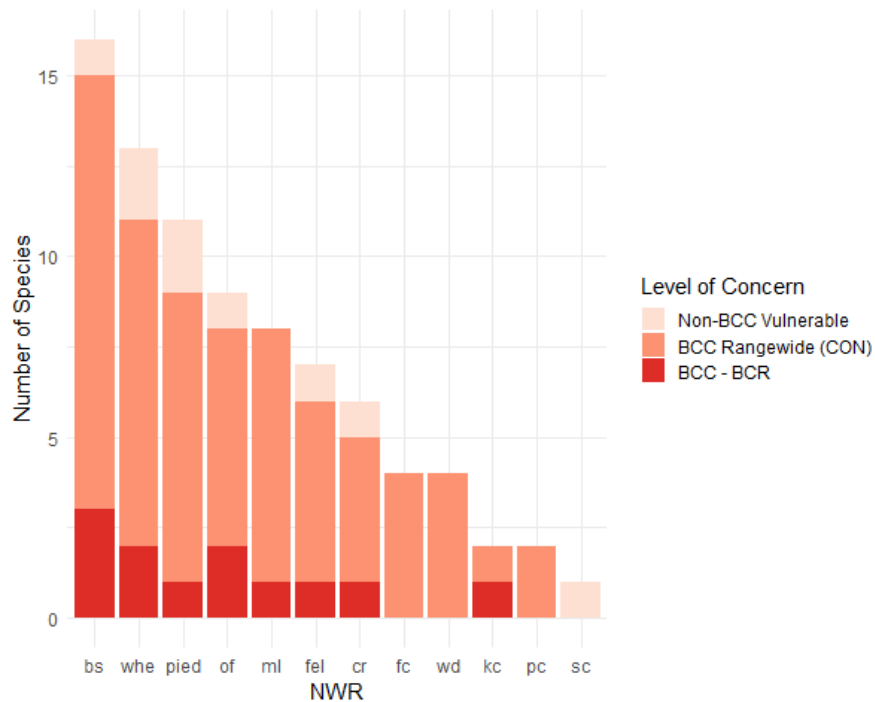


Figure 51. Migratory birds within the acquisition boundaries. (USFWS, 2011).

4.3.7 Water Monitoring

There are 5,879 water monitoring stations across the 12 RHIs; 3,827 stations monitor groundwater and 2,052 stations monitor surface water. Of the stations, 157 are in more than one RHI. Overflow's RHI has the most stations overall with 2,310 which is almost 40% of the total stations (Table 34), and 74% of the stations in the RHI measure groundwater quantity.

Piedmont's RHI has the least amount of water monitoring stations, but Pond Creek's RHI has the lowest concentration of water monitoring stations (Figure 52). The RHI for Wheeler NWR has the most surface water quality and quantity stations; however, Cahaba River has a higher concentration of surface water monitoring stations in its RHI.

4.3.7.1 Groundwater Monitoring Stations

Of the 3,827 groundwater monitoring stations, 1,911 stations report groundwater quality and 2,972 report groundwater quantity; therefore 1,136 stations have measured both quality and quantity. On average, the last data collected at these stations was 1972, and there is an average of about six visits per groundwater station (Table 35). The groundwater stations (both quality and quantity) in Overflow's RHI have the most overall site visits (1,944 and 25,544, respectively); however, the average amount of site visits at each station is 1.98 and 14.87, meaning that although there are thousands of stations, many of the stations have only taken one measurement (Figure 53). In fact, the most site visits at one groundwater quality station in Overflow's RHI is 58 and at groundwater quantity stations is 2,652. The average site visits for groundwater quality stations range from one for Sauta Cave to 4.47 for Wheeler. The stations measuring groundwater quantity have a range of average site visits of one to 42.36 (Piedmont to Sauta Cave). Watercress Darter's RHI is the only area without a station measuring groundwater quality. Since the year 2000, groundwater monitoring in the majority of the RHIs has declined (Figure 52).

4.3.7.2 Surface Water Monitoring Stations

The RHIs combined have 1,546 stations measuring surface water quality and 1,354 stations measuring surface water quantity; there are 1,860 stations that measure both quality and quantity. The average last year data was collected is 1994, over 20 years after the average groundwater last year. The average visits per site is almost 44 which is about 38 more than the average groundwater site visit per station (Table 35). Key Cave's RHI has the highest concentration of surface water quality stations (0.7 per square mile) and Fern Cave and Watercress Darter's RHIs have the highest concentration of surface water quality stations (0.69 per square mile) (Figure 52). Bond Swamp's RHI has the highest average visit per site for surface water quality (119) and Pond Creek's RHI has the highest for surface water quantity (132) (Figure 53).

Table 34. Water monitoring stations in the RHIs. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Refuge	Groundwater Quality	Groundwater Quantity	Surface Water Quality	Surface Water Quantity	Total
bs	35	64	21	33	111
cr	56	185	227	234	497
fc	19	12	63	108	156
fel	363	279	78	14	441
kc	16	3	65	45	93
ml	97	290	220	239	668
of	980	1,718	130	79	2,310
pc	217	158	253	63	575
pied	5	4	20	16	35
sc	7	22	51	59	101
wd	0	12	40	44	64
whe	137	238	440	529	985
All	1,911	2,971	1,546	1,354	5,879

Table 35. Average water monitoring data across the RHIs. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Type of Data	Amount of Stations	Average Total Visits	Average End Year	Average Visits per Site
Groundwater Quality	1,911	367.18	1972	2.17
Groundwater Quantity	2,972	2,843.08	1972	9.79
Surface Water Quality	1,546	4,894.75	1999	42.98
Surface Water Quantity	1,354	3,288.00	1990	44.85
All Groundwater Stations	3,827	1,605.13	1972	5.98
All Surface Water Stations	2,052	4,091.38	1994	43.92
Total	5,879	2,848.25	1983	24.95

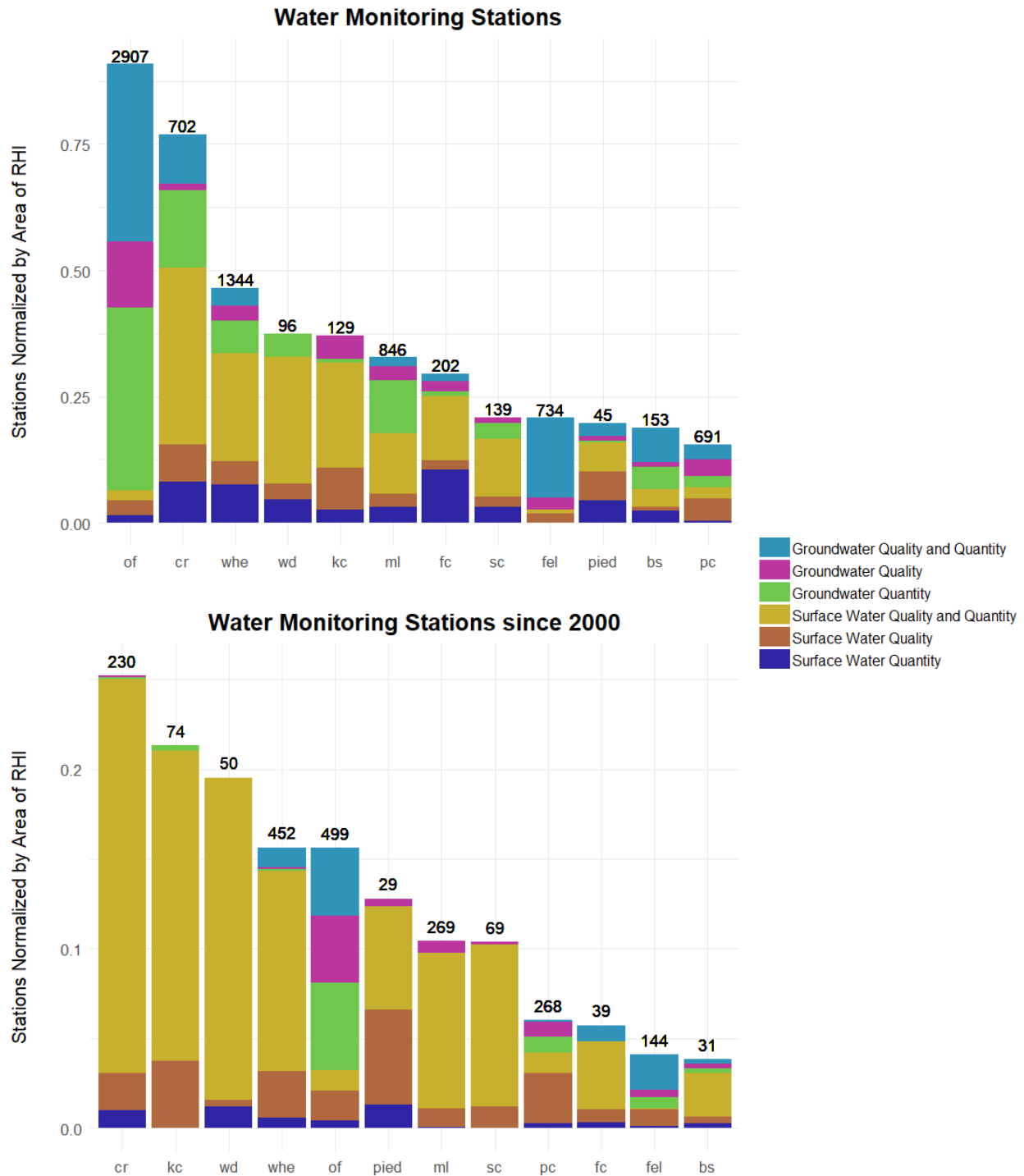


Figure 52. Water monitoring stations normalized by area and the total number of stations in each RHI. (USGS, 2018; National Water Quality Monitoring Council, 2018).

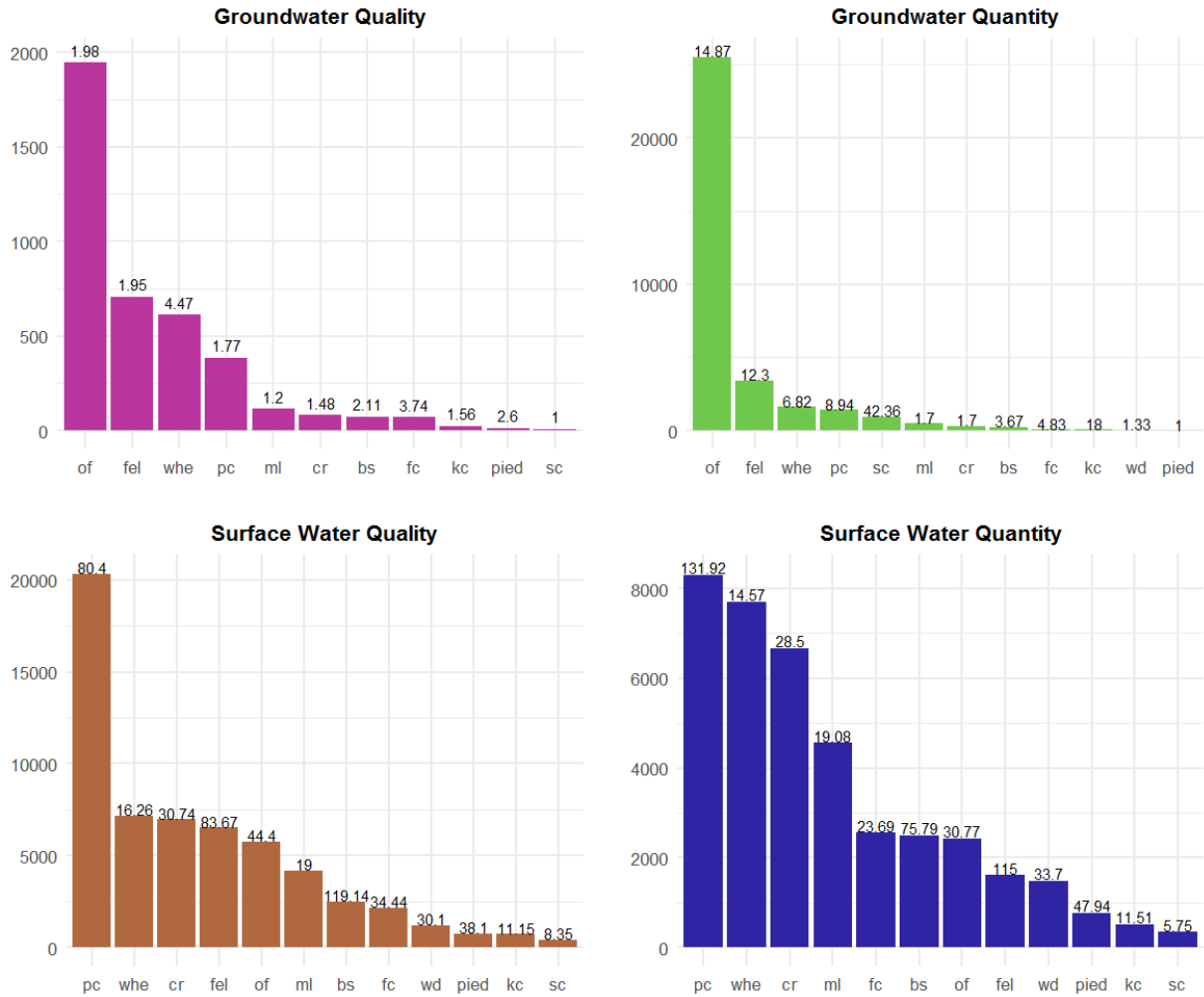


Figure 53. The total number of site visits in the RHIs which the average amount of site visits per station in the RHI. (USGS, 2018; National Water Quality Monitoring Council, 2018).

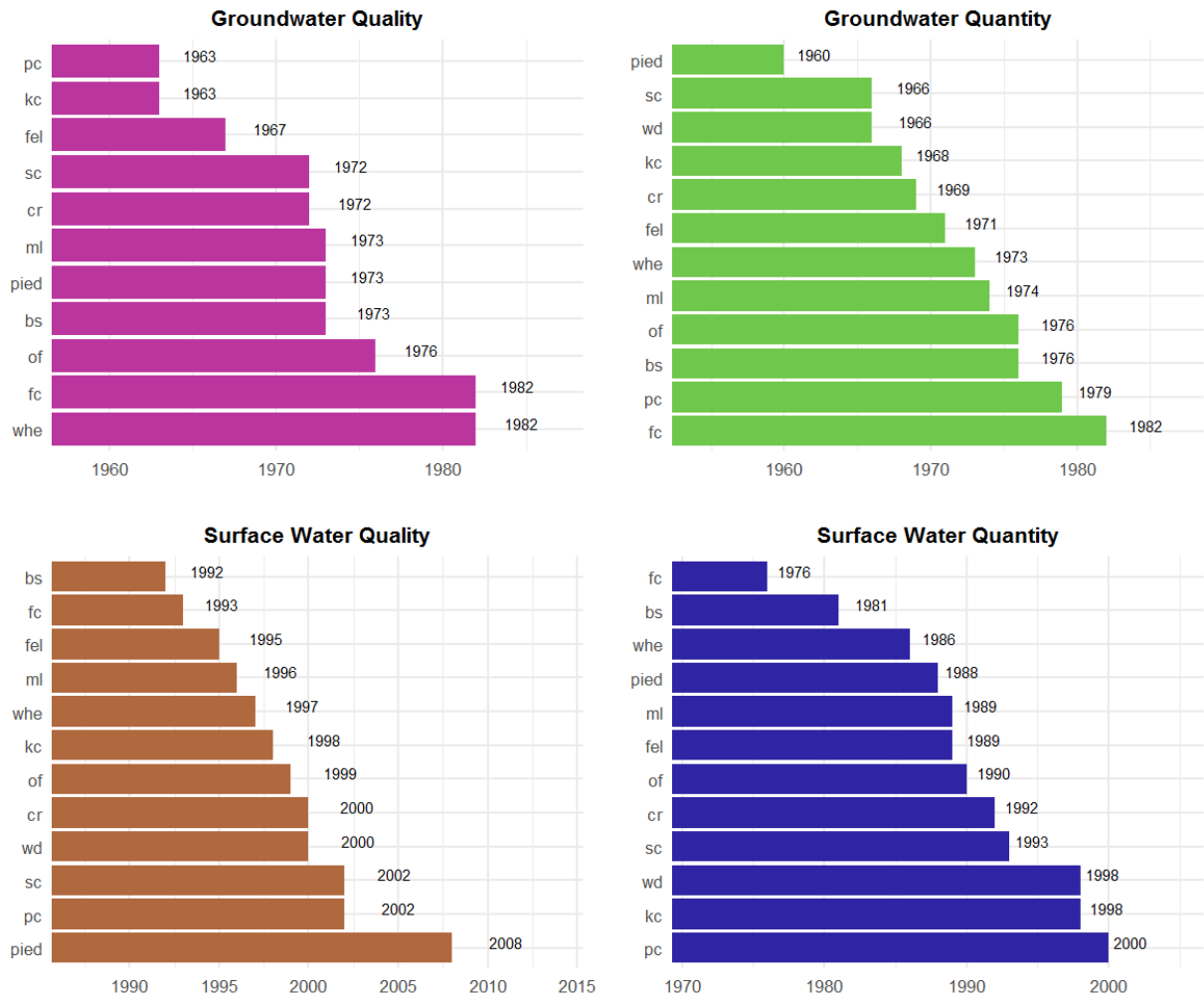


Figure 54. Average last year data was collected at water monitoring stations in the RHIs.

(USGS, 2018; National Water Quality Monitoring Council, 2018).

4.3.7.3. Daily Water Monitoring

In addition to the site visits to stations, there are 106 water monitoring stations that have measured daily data; eight of these stations do not have information on data collection during site visits so they are not included in the information below (six are in Overflow’s RHI and Wheeler and Mountain Longleaf’s RHI each have one). Fourteen different parameters have been measured daily, such as depth to groundwater table, pH, discharge, and gage height. Eight sites

have also collected precipitation data. Currently there are 89 active stations that together measure 181 different parameters. Fern Cave and Wheeler's RHIs have five of the same stations. Sauta Cave, Key Cave and Felsenthal's RHIs only have one station currently collecting daily data, which is all surface water quantity data (Table 36). Overflow and Pond Creek's RHIs are the only location where daily groundwater measurements are actively being taken (Table 36); Wheeler used to have a station measuring daily groundwater, but it is now inactive.

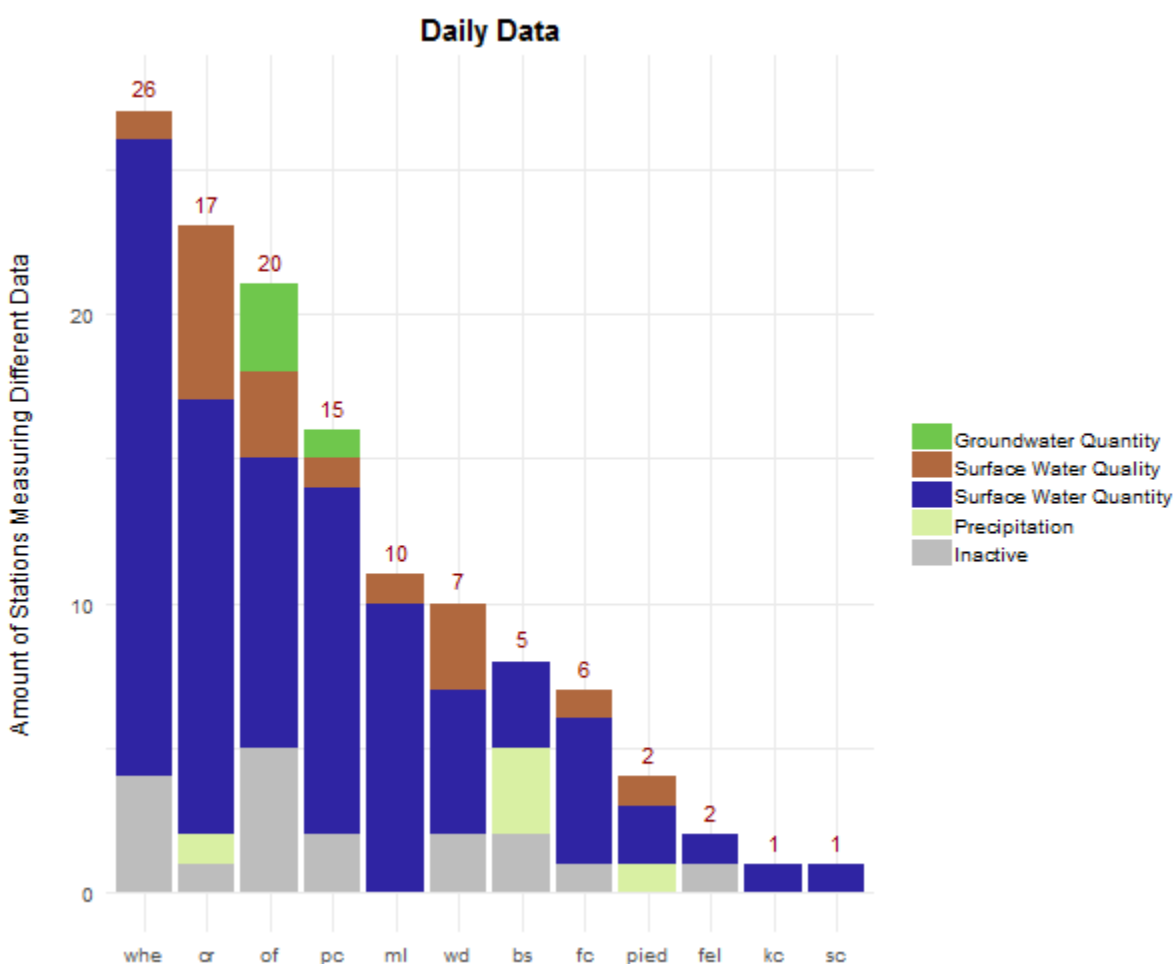


Figure 55. Water monitoring stations measuring daily data. The numbers in red are the total number of stations that are currently taking measurement. Some of the stations are measuring multiple parameters. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Table 36. Water monitoring stations actively recording daily data. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Refuge	Groundwater Quantity	Precipitation	Surface Water Quality	Surface Water Quantity	Total Active Stations
bs		3		3	3
cr		1	6	15	16
fc			1	5	5
fel				1	1
kc				1	1
ml			1	10	10
of	3		3	10	15
pc	1		1	12	13
pied		1	1	2	2
sc				1	1
wd			3	5	5
whe			1	22	22
Total	4	5	20	84	89

4.3.8 Impaired Waters

Water quality in the RHIs is of great interest to the USFWS. In addition to the water quality monitoring in the RHIs, water quality information can be obtained through the EPA's catalog of impaired waters. The water is classified as impaired if it does not meet the regulations of the Clean Water Act. Once the waters are listed as impaired, Total Maximum Daily Loads (TMDLs) are developed to attempt to remove the waters from the impaired list. All the RHIs, except for Piedmont's, have either waterbodies or streams that have been listed as impaired. The reason for the impairment can be the presence of mercury, lead, chloride, or have to do with the sedimentation/siltation or turbidity of the stream. Mountain Longleaf's RHI has the largest area of impaired waterbodies (normalized by the area of the RHI) and most impaired waterbodies (Figure 56). Although Wheeler has the most stream segments that are impaired (56), the RHI of Overflow has the most impaired water in miles per square mile (Figure 57).

Facilities with NPDES Permits are another way to examine the quality of the water in the RHIs. These permits are given to facilities regulate their discharges and require the permit holders to monitor their water quality and quantity being discharged into streams. The facilities with the permits are a good indicator of point source pollutants. The contaminated water within the RHIs from these facilities could eventually make its way to the refuges if it hasn't already. Although Piedmont has the least number of permits (six), the RHI has the largest concentration of permits (Figure 58). Wheeler's RHI has the most permits (2,441) but has one of the lowest concentrations (0.84 permits per square mile).

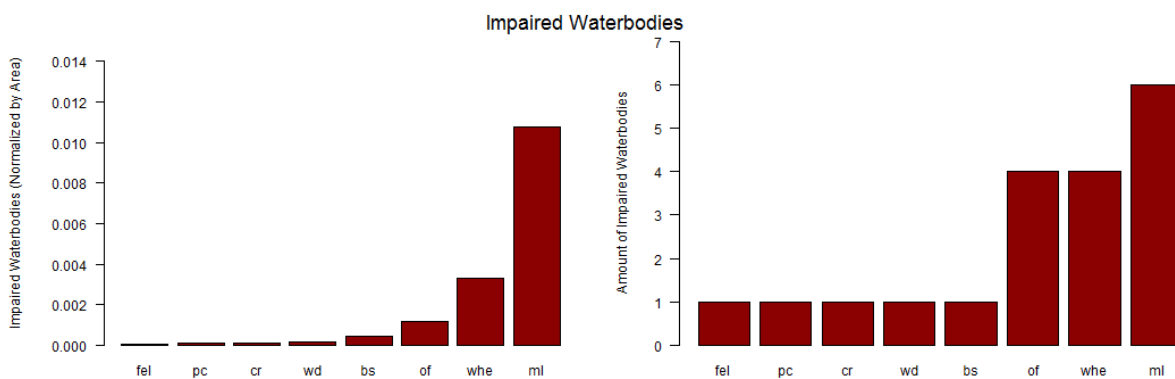


Figure 56. Impaired waterbodies within the RHIs. Left: Area of the impaired waterbodies normalized by the area of the RHI. Right: Number of impaired waterbodies in the RHI. (EPA, 2015).

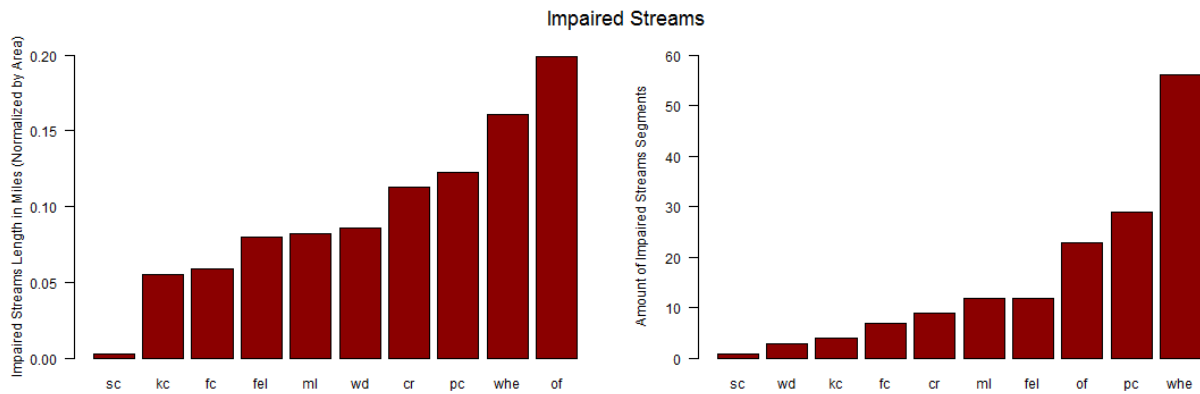


Figure 57. Impaired streams within the RHIs. Left: Length of the Impaired Streams normalized by the area of the RHI. Right: Number of impaired streams in the RHIs. (EPA, 2015).

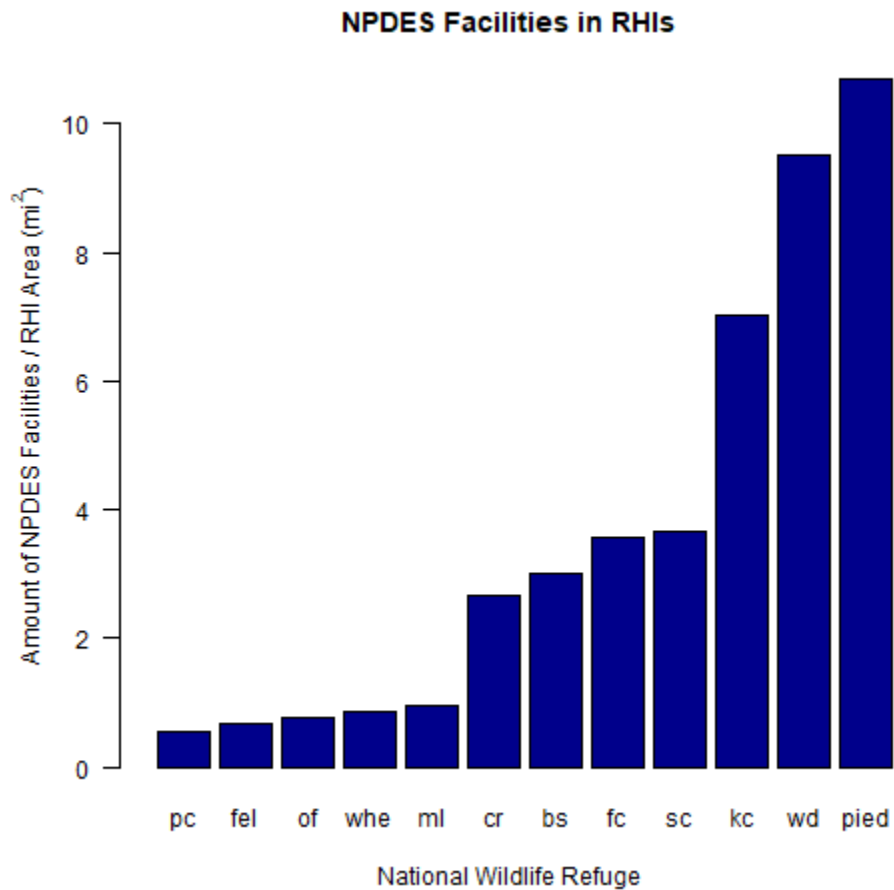


Figure 58. NPDES facilities in the RHIs normalized by the area of the RHIs. (EPA, 2016)

4.4 Threats and Needs

The twelve refuges in the southeast have a total of 78 threats and 35 needs. Cahaba River has the most identified threats (16) and Mountain Longleaf has only one known threat (metal contamination in its soils). Wheeler, Piedmont and Felsenthal NWRs all have five listed needs. The assessment of the threats and needs for the refuges can be grouped into different categories. The most common threat facing the refuges is contaminants (Figure 59). The causes for the contamination on the individual refuges are from sources such as: agricultural and urban runoff, waste water treatment facilities, oil and gas development, or are unknown. Wheeler NWR has the most diverse group of threats that are in five different categories (Figure 60).

The most common need or recommendation for the refuges is to either introduce a water monitoring plan or do a baseline study of the water quality and quantity (Figure 59). Eight of the twelve refuges have indicated that they need something in the monitoring/measurement category.

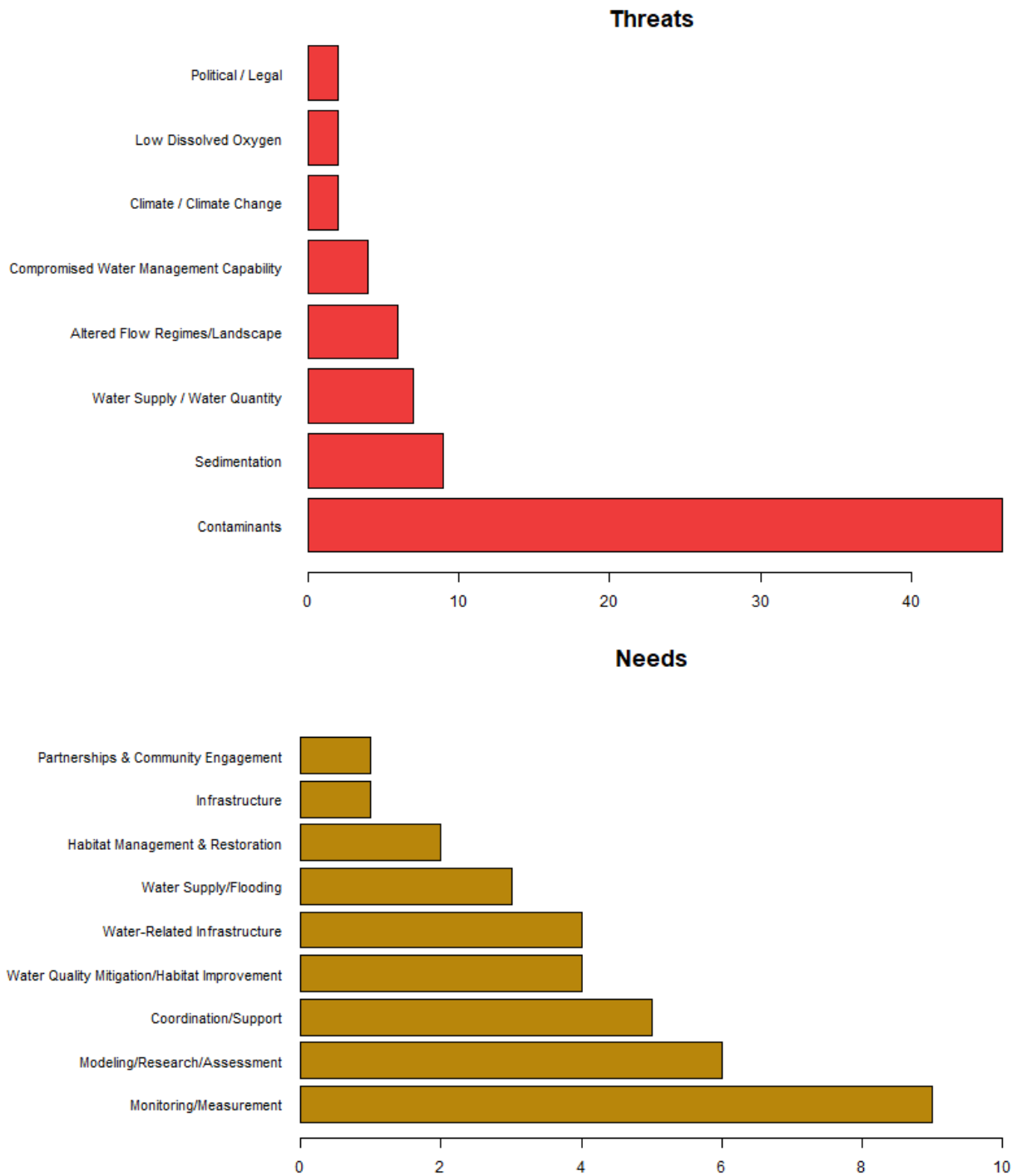


Figure 59. Most common threats and needs for the refuges. (USFWS Refuge Staff).

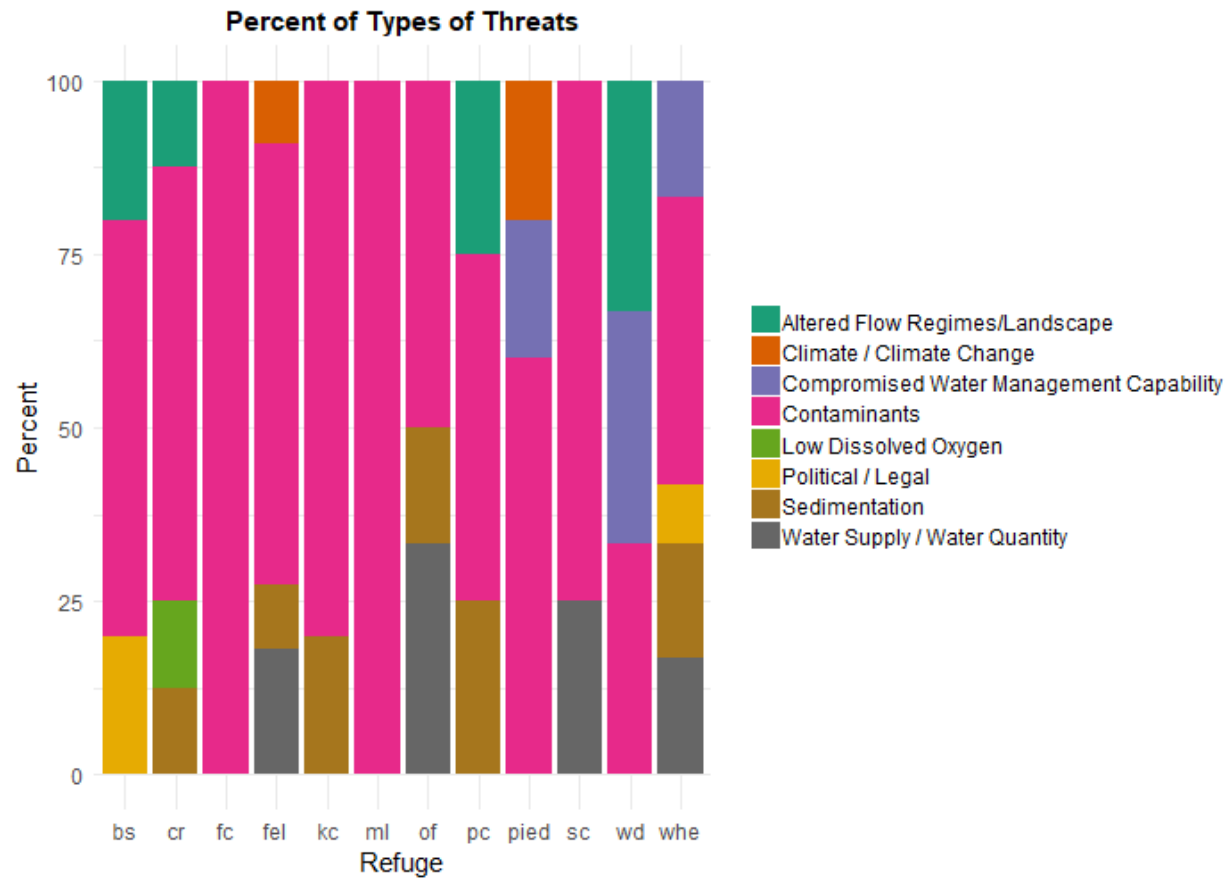


Figure 60. Percent of different threats facing the refuges. (USFWS Refuge Staff).

CHAPTER FIVE

CONCLUSION

The data collected and presented in the WRIAs for the USFWS southeast refuges provide a baseline of water resource information that is essential for the management of water resources on the refuges. Thus far, the feedback from the refuge managers has been positive, citing that the reports and geodatabases have given them information and access to data for better management of sites.

The twelve refuges, spanning three complexes with completed WRIAs, have had a range of settings and data availability. From the karst in Alabama to the piedmont in Georgia, their different natural settings create different hydrologic settings and different threats and needs for the water resources on the refuges. For example, several of the refuges are on top of mostly unconsolidated sediments or sedimentary rocks, and four refuges are overlaying at least 25% metamorphic rocks; the changes in the type of rock can greatly change the surface water groundwater interactions. Also, more than 50% of the soil on five refuges is in the hydrologic soil group D generally resulting in more runoff than infiltration. These are just a few of the differences between the refuges.

Both in the acquisition boundaries and RHIs the most common land use on average was forests with only three RHIs having a higher land use percent of a different category (Key Cave, Overflow and Wheeler's RHIs all had more agriculture than forests). Across all the refuges, the average precipitation and minimum daily temperature increased, and the maximum daily temperature and average daily temperature decreased. However, the average projected changes

in 25 years decreased in all temperature parameters, but increased in precipitation. When broken up by complex, the South Arkansas Complex was the only complex to have an increase in precipitation, and the Wheeler Complex was the only complex to have an increase in any of the temperature parameters. The Piedmont Complex showed a decrease in all climate parameters. When looking at only the significant slopes, the Wheeler Complex also has an increase in temperature, but the rest of the trends remain the same.

The size of the refuge provides interesting information as well. For example, the larger the refuge, the more NHD flowlines there are. However, in relation to the size of the refuge, the pattern is less visible. Watercress Darter is the smallest refuge, but it has the highest concentration of flowlines. This is not the same for the other small refuges that have the lowest concentration of NHD flowlines. Felsenthal NWR is the largest refuge; however, it is right in the middle in terms of concentration of flowlines. Felsenthal also has one of the least amounts of springs in its RHI, even though it has the second largest RHI. Fern Cave and Wheeler's RHI's have the most springs; Wheeler has the fourth largest RHI and Fern Cave has the fifth smallest RHI so they are somewhat in the middle. Cahaba River NWR has the most endangered or threatened species, but it is on the smaller size of refuges. The RHI size, with an exception for Felsenthal and Pond Creek, has a direct connection with how many water monitoring stations are within the RHI; however, that does not necessarily mean that the concentration of the stations also follows the size of the RHI.

Overall, the state and federal datasets can provide useful information; however, the refuges would benefit from more site-specific data. The size of the refuge impacts the amount of data that is available based on national and state databases. Refuges, such as Sauta Cave and Watercress Darter, do not have basic necessary geospatial data (exact locations of the caves and

springs the refuges are based on) cataloged in federal or state databases. More accurate representation of the water resources on those refuges is needed.

On average there are 0.1 miles of impaired streams and 3.7 facilities with NPDES permits per square mile in the RHIs. These areas of contamination and pollution point sources are already impacting the water quality in the RHIs and will impact the quality on the refuges if they haven't already. Currently there are 46 threats listed facing the refuges concerning contamination already present or will be soon from urban and agricultural runoff, wastewater treatment plants, sedimentation, and unknown sources; contamination is also listed as the most prominent threat facing the NWRs in the southeast. The water quality on the refuge dictates the ecology and biodiversity on the refuge and refuges are already seeing the impact of changes in water quality, such as the presence of harmful algal blooms, the chytrid fungus, or invasive aquatic species. Additionally, the refuges have seen altered flow regimes due to damming, excess water, or droughts. These changes in water quantity and quality can negatively impact the 69 species on the refuges that are currently listed as endangered or threatened.

In order to combat the quality and quantity alterations, almost all the refuges had implementing a water monitoring plan listed as one of their needs, along with creating local geospatial data for the refuge. Very few refuges have water monitoring stations located on the refuge, and therefore, they must turn to water monitoring within the RHIs for information about the water on their refuge. Although some records within the RHIs are relatively good, other stations only have one measurement taken decades ago that would not provide useful knowledge of the water today. Additionally, some of the stations that do take consistent measurements over a long period of time are not close to the refuge and thus do not have a clear connection between the water at that station and the refuge.

Although no streamflow record is most likely long enough to include the most severe situations that could occur, we assume that we are able to estimate the worst case scenario; this should encourage more data collection in order to more accurately estimate what the worst case scenario might be, especially with the changing climate and hydrologic extremes becoming more common. While basic streamflow data is a great start to the collection of essential data, other data (i.e. water quality, precipitation, and biological parameters) must also be monitored to have a greater understanding of the system. Even with the monetary limits when it comes to data collection of water resources, the USFWS must begin to emphasize the importance of the increase of data collection and its accuracy. While this is a large undertaking and needs a lot of outside support, the first step is to collect the data that already exists and define the baseline; this is one of the main purposes for the WRIAs.

The main conclusions that we can draw from the WRIA presented and the assessment of the 12 WRIAs is that: 1) the refuges in the southeast cover a wide range of natural settings and their different sizes can cause data discrepancy between them; 2) more geospatial data on refuges should be created such as locations of water resource infrastructure, streams, lakes; and 3) water monitoring programs should be implemented on the refuges because the RHIs might not have enough adequate water monitoring data that directly corresponds to the hydrology on the refuge.

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APPENDIX A

THREATS AND NEEDS

Threats

Table A- 1. Threats facing Wheeler National Wildlife Refuge.

Title	Type	Cause	Status	Severity	Time Frame	Feasibility	Description
Chytrid fungus	Pathogens	Naturally-Occurring Contaminants	Current	Unknown	Existing	No	
Demand from irrigators for right-of-way across refuge to withdraw water from the Tennessee River	Legal challenges or fines for non-compliance with water policy, law, or regulation	Other Legal/Political Constraints	Future	Moderate	Long-term	No	In the future political pressure may be brought to bear on the refuge by irrigators who want right-of-way across the refuge to withdraw water from the Tennessee River.
Drought impacts on moist soil management	Insufficient Surface Water	Droughts	Current	Moderate	Existing	Yes	Inadequate rainfall during drought years to manage Refuge impoundments. Currently rainfall is the only method available for filling Refuge impoundments. Drought years can present a challenge to impoundment management.

Title	Type	Cause	Status	Severity	Time Frame	Feasibility	Description
Insufficient staff and resources to meet refuge management needs	Compromised Water Management Capability	Other Legal/Political Constraints	Current	High	Existing	Yes	The refuge lacks the staff, funding, and resources to adequately address many of the water resource challenges it faces. These challenges include clearing debris jams, maintaining infrastructure, expanding monitoring efforts, and assessing and planning for longer-term water resource threats. Also, the refuge lacks the funding to operate pumps to remove water from management units when needed. Two key areas have TVA pumps which can only be operated when the refuge has money to pay for their operation. This is needed for water removal from most of the refuge's impoundments.
Nutrients	Nutrient Pollution	Urban Runoff	Current	Unknown	Existing	No	Excess nutrients from residential runoff
Nutrients	Nutrient Pollution	Agricultural Runoff	Current	Unknown	Existing	No	Excess nutrients from agricultural runoff
Pathogens from urban sewage	Pathogens	Urban Sewage	Current	Low	Existing	No	
Redstone Arsenal and other point source contaminants	Other Contaminants/ Altered Water Chemistry	Industrial Effluent	Current	Unknown	Long-term	No	Contaminants from Redstone Arsenal, a Superfund site, have impacted groundwater, soil, sediments and surface waters. Contaminants including arsenic, perchlorate, mercury, polycyclic aromatic hydrocarbons (PAHs), and Trichloroethylene (TCE) have been found.
Sedimentation	Sedimentation	Agricultural Runoff	Current	Unknown	Existing	No	
Sedimentation	Sedimentation	Urban Runoff	Current	Unknown	Existing	No	

Title	Type	Cause	Status	Severity	Time Frame	Feasibility	Description
Water management infrastructure limitations	Compromised Water Management Capability	Inefficient, Inadequate, or Damaged Water Management Infrastructure	Current	High	Existing	Yes	Water control structures and ditches across the refuge are vulnerable to siltation and debris jams, which limit their flow capacity and the refuge's water management capabilities. The refuge also struggles with water management because of other physical restrictions. In some areas there are no levees where those are needed. Some levees are damaged. Water control structures are needed in some areas and must be replaced in others.
Wheeler Reservoir management by TVA	Excess Surface Water	Off-Refuge Water Management Infrastructure	Current	Moderate	(none)	No	Early raising of the water for recreation significantly impacts our ability to empty refuge impoundments via gravity and periodic floods do the same. This prevents us from planting a preferred food (i.e., corn) for waterfowl or completely destroys crops planted for this purpose.

Needs and Recommendations

Table A- 2. Needs and recommendations for Wheeler NWR.

Title	Description	Type	Type 2	Status	Priority	Immediacy	Feasibility
Baseline water monitoring	Water quality monitoring is needed to monitor potential impacts of nutrients, sediment, and other potential impacts of agricultural and urban runoff on refuge water resources.	Monitoring / Measurement	Water quality baseline monitoring	Current	Moderate	Short-term	Yes

Title	Description	Type	Type 2	Status	Priority	Immediacy	Feasibility
Increase refuge staff / funding	Increase staff/budget to provide sufficient capacity to meet the refuge's water and aquatic habitat management needs. The refuge currently lacks the staff and resources to adequately address many of the water resource challenges it faces.	Coordination / Support	Seek legislative relief / assistance	Current	High	Medium	Yes
Partnership Building	Develop, expand and strengthen partnerships to address threats that are beyond the Service's control.	Coordination / Support	Build / Strengthen / Expand Watershed Partnerships	Current	High	Medium	No
Repair and replace water infrastructure as needed	Obtain needed resources to install new or repair/replace existing water management Infrastructure and to operate TVA pumps whenever needed to remove water from key impoundments.	Water-Related Infrastructure	Repair or Replace Water Management Infrastructure	Current	High	Medium	Yes
Water management infrastructure	Wells are needed in impoundments, so we do not have to rely on adequate rain to fill them.	Water-Related Infrastructure	New Water Supply Infrastructure	Future	Moderate	Medium	Yes

APPENDIX B

EXPANDED DATA RECORDS TABLES

Table A- 3. Geographic information data sources.

Data	Region	Year	Website	Agency
Aqueducts and Canals	National	2014	https://nationalmap.gov/small_scale/mld/gmdrain.html	USGS
Aquifers	National	2003	https://water.usgs.gov/ogw/aquifer/map.html	USGS
Dams	National	2017	Per request from the SARP	National Inventory of Dams, USACE, SARP
Geology	National	2009	https://ngmdb.usgs.gov/gmna/#gmnaGeo	USGS GMNA Resource
Hydrography (Streams/Rivers, Lakes/Ponds, Canal/Ditch, Spring/Seep, Streamgages, Wells)	National	2017	https://viewer.nationalmap.gov/basic/#productSearch	NHD
Impaired Waters	National	2015	https://www.epa.gov/waterdata/waters-geospatial-data-downloads#303dListedImpairedWaters	EPA
Landscape Conservation Cooperatives	National	2015	https://catalog.data.gov/dataset/landscape-conservation-cooperatives	USFWS
Major Land Resource Area	National	2006	https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053624	USDA
NPDES(National Pollutant Discharge Elimination System)	National	2016	https://catalog.data.gov/dataset/epa-facility-registry-service-frs-wastewater-treatment-plants	EPA
Physiographic Regions	National	1946	https://water.usgs.gov/GIS/metadata/usgswrd/XML/physio.xml	USGS
Railroads	National	2014	https://nationalmap.gov/small_scale/mld/1rails.html	USGS
Roads	Alabama	2015	https://catalog.data.gov/dataset/tiger-line-shapefile-2015-state-alabama-primary-and-secondary-roads-state-based-shapefile	US Census Bureau, Department of Commerce
Soils	Alabama	2006	https://www.nrcs.usda.gov/wps/portal/nrcs/main/ar/soils/	MLRA
Streamgages	National	2013	http://nationalatlas.gov/atlasftp-1m.html	The National Map: USGS

Data	Region	Year	Website	Agency
Streams	National	2012	http://nationalatlas.gov/atlasftp-1m.html	The National Map: USGS
Structures	National	2016	https://viewer.nationalmap.gov/basic/#productSearch	USGS
The National Elevation Dataset	National	2014	https://nationalmap.gov/small_scale/mld/gmelev.html	USGS
Wastewater Facilities	National	2013	https://catalog.data.gov/dataset/epa-facility-registry-service-frs-wastewater-treatment-plants	EPA
Water Monitoring Stations	National	2018	https://www.waterqualitydata.us/portal/	USGS
Waterbodies	National	2012	http://nationalatlas.gov/atlasftp-1m.html	The National Map: USGS
Wetlands	National	2016	https://www.fws.gov/wetlands/data/State-Downloads.html	FWS

Table A- 4. Other data sources.

Data	Region	Frequency of Data	Website	Agency
Climate Station Data	National	Daily	ftp://ftp.ncdc.noaa.gov/pub/data/ghcn/daily/	NOAA
Groundwater wells	National	Sporadic	https://waterdata.usgs.gov/nwis	USGS
Groundwater wells	National	Sporadic	https://www.waterqualitydata.us/portal/	All State and Federal
Streamgage quantity and quality	National	Daily-Sporadic	https://waterdata.usgs.gov/nwis	USGS
Surface water quality	National	Sporadic	https://www.waterqualitydata.us/portal/	All State and Federal

APPENDIX C

SOIL SERIES

Table A- 5. All soil series in the acquisition boundary of Wheeler NWR. (Soil Survey Staff & NRCS, 2017).

Series Name	Acres within Acquisition Boundary	Slope	Drainage	Hydro-logic Soil Group	Surface Texture	Subsurface Texture	Location	Parent Material
Abernathy	877.12	0-6%	Well-drained	C	Silt loam	Silt loam to Silty clay loam	Depression Toeslopes	Alluvium over Limestone Residuum
Allen	143.08	6-12%	Well-drained	B	Clay loam	Loam to Clay	Hill shoulders	Sandstone and shale Alluvium
Atkins	141.39	0-2%	Poorly drained	B/D	Silt loam	Silty clay loam to Sandy loam	Drainageway toeslopes	Sandstone and shale Alluvium
Barbourville	6.92	0-4%	Moderately well-drained	C	Fine sandy loam	Loam to Silty clay loam	Floodplain toeslopes	Sandstone and shale Colluvium
Baxter	0.19	5-12%	Well-drained	B	Gravelly silt loam	Gravelly silty clay loam to Gravelly clay	Hill backslopes	Cherty limestone Residuum
Bruno	608.05	0-2%	Excessively Drained	A	Fine sandy loam	Sand	Stream terrace footslopes	Sandy sedimentary Alluvium
Capshaw	71.78	0-2%	Moderately well-drained	D	Loam	Silty clay loam to Clay	Stream terrace footslopes	Silty sedimentary Loess over Clayey sedimentary Alluvium
Captina	968.10	0-6%	Moderately well-drained	C	Silt loam	Silty clay loam to Clay	Terrace footslopes	Silty sedimentary Loess over Clayey sedimentary Alluvium
Clay	0.21	N/A	N/A	N/A	N/A	N/A	Hillslope backslopes	N/A
Colbert	4.70	2-6%	Moderately well-drained	D	Silty clay loam	Silty clay to Clay	Ridge summits	Limestone Residuum

Series Name	Acres within Acquisition Boundary	Slope	Drainage	Hydro-logic Soil Group	Surface Texture	Subsurface Texture	Location	Parent Material
Cumberland	1350.50	2-6%	Well-drained	B	Silty clay loam	Silty clay loam to Clay	Ridge backslopes	Alluvium over Limestone Residuum
Decatur	1823.85	2-6%	Well-drained	B	Silty clay loam	Silty clay loam to Clay	Interfluve shoulders	Clayey limestone Residuum
Dewey	173.57	2-6%	Well-drained	B	Silty clay loam	Clay to Gravelly clay	Ridge backslopes	Clayey limestone Residuum
Dickson	0.62	0-2%	Moderately well-drained	C/D	Silt loam	Silt loam to Silty clay loam	Ridge summits	Silty Loess over Clayey limestone Residuum
Dunning	5.66	0-2%	Poorly drained	C/D	Silty clay	Clay	Drainageway footslopes	Clayey sedimentary Alluvium
Egam	665.42	0-2%	Well-drained	C	Silty clay loam	Silty clay to Silty clay loam	Stream terrace footslopes	Clayey sandstone, limestone, and shale Alluvium
Ennis	57.04	0-2%	Well-drained	A	Silt loam	Silt loam to Very gravelly sandy loam	Stream terrace toeslopes	Sandstone, limestone, and shale Alluvium
Etowah	1452.64	0-2%	Well-drained	B	Silt loam	Silty clay loam	Ridge backslopes	Sedimentary Alluvium
Greendale	42.97	0-2%	Well-drained	A	Gravelly silt loam	Gravelly silt loam	Terrace footslopes	Loamy sandstone, limestone, and shale Alluvium
Guthrie	127.59	0-2%	Poorly drained	C/D	Silt loam	Silt loam	Floodplain toeslopes	Silty sedimentary Alluvium
Hanceville	40.34	2-5%	Well-drained	B	Fine sandy loam	Sandy clay to Sandy clay loam	Ridge backslopes	Clayey sandstone and shale Residuum
Hartsells	0.17	6-10%	Well-drained	C	Fine sandy loam	Sandy clay loam	Hillslope backslopes	Loamy sandstone Residuum
Hector	20.19	10-20%	Well-drained	D	Fine sandy loam	Gravelly sandy loam	Hill backslopes	Sandy sandstone Residuum
Hermitage	6.18	12-25%	Well-drained	B	Gravelly silt loam	Gravelly silty clay loam to Gravelly clay	Hill backslopes	Clayey limestone Residuum
Hollywood	6.22	0-6%	Moderately well-drained	D	Silty clay	Clay	Ridge backslopes	Clayey limestone Residuum

Series Name	Acres within Acquisition Boundary	Slope	Drainage	Hydro-logic Soil Group	Surface Texture	Subsurface Texture	Location	Parent Material
Holston	1250.23	0-2%	Moderately well-drained	C/D	Gravelly fine sandy loam	Loam to Gravelly Loam	Ridge summits	Loamy sandstone and shale Alluvium
Huntington	698.38	0-2%	Well-drained	A	Silt loam	Silt loam to Very gravelly sandy loam	Floodplain toeslopes	Loamy sedimentary Alluvium
Jefferson	7.06	2-6%	Well-drained	B	Fine sandy loam	Sandy clay loam to Clay loam	Ridge backslopes	Loamy sandstone and shale Colluvium
Lawrence	0.01	0-2%	Somewhat poorly drained	C/D	Silt loam	Silt loam to Gravelly silt loam	Depression footslopes	Silty limestone and shale Alluvium
Lickdale	42.93	0-2%	Somewhat poorly drained	B/D	Silt loam	Loam to Cherty silt loam	Floodplain toeslopes	Loamy sedimentary Alluvium
Limestone	128.58	12-50%	Well-drained	D	Stony silty clay loam	Stony silty clay loam	Hill shoulders	Limestone Residuum
Lindside	1185.10	0-2%	Somewhat poorly drained	B/D	Silt loam	Sandy loam to Silty clay loam	Floodplain toeslopes	Loamy sedimentary Alluvium
Linker	4.78	6-10%	Well-drained	B	Fine sandy loam	Sandy clay loam	Hillslope shoulders	Loamy sandstone and shale Residuum
Melvin	6646.74	0-2%	Somewhat poorly drained	B/D	Silt loam	Sandy loam to Silty clay loam	Depression footslopes	Loamy sedimentary Alluvium
Monongahela	97.44	0-6%	Moderately well-drained	C/D	Fine sandy loam	Loam to Gravelly clay loam	Ridge backslopes	Loamy limestone, sandstone, and shale Colluvium
Muskingum	35.52	10-20%	Well-drained	D	Fine sandy loam	Sandy loam	Hillslope shoulders	Loamy sandstone Residuum
Nolichucky	15.60	2-6%	Well-drained	B	Gravelly fine sandy loam	Cobbly sandy clay loam to Gravelly sandy clay loam	Ridge backslopes	Clayey sandstone and shale Residuum

Series Name	Acres within Acquisition Boundary	Slope	Drainage	Hydro-logic Soil Group	Surface Texture	Subsurface Texture	Location	Parent Material
Ooltewah	421.54	0-2%	Somewhat poorly drained	B/D	Silt loam	Sandy loam to Silty clay loam	Depression footslopes	Loamy sedimentary Alluvium
Pearman	0.77	2-6%	Moderately well-drained	D	Loam	Clay	Ridge backslopes	Limestone, sandstone, and shale Residuum
Philo	24.17	0-2%	Somewhat poorly drained	B/D	Loam	Silt loam to Silty clay loam	Floodplain toeslopes	Loamy sandstone and shale Alluvium
Robertsville	1024.85	0-2%	Poorly drained	C/D	Silt loam	Silt loam to Silty clay loam	Depression footslopes	Clayey sedimentary Alluvium
Sequatchie	437.58	0-6%	Well-drained	B	Fine sandy loam	Loam to Fine sandy loam	Terrace toeslopes	Loamy sedimentary Alluvium
Taft	779.22	0-2%	Somewhat poorly drained	C/D	Silt loam	Silt loam to Gravelly silty clay loam	Terrace footslopes	Loamy limestone Alluvium
Talbott	94.92	12-20%	Well-drained	C	Silty clay loam	Clay	Hill backslopes	Clayey limestone Residuum
Tilsit	4.27	0-2%	Moderately well-drained	D	Silt loam	Loam to Sandy clay loam	Flats footslopes	Loamy shale Residuum
Tupelo	397.46	0-2%	Somewhat poorly drained	C/D	Loam	Silty clay to CLay	Terrace footslopes	Clayey sedimentary Alluvium
Tyler	297.58	0-2%	Somewhat poorly drained	C/D	Silt loam	Silty loam to Silty clay loam	Terrace footslopes	Loamy sedimentary Alluvium
Waynesboro	468.99	2-6%	Well-drained	B	Fine sandy loam	Clay loam to Clay	Ridge summits	Clayey sandstone and shale Alluvium
Wolftever	514.71	0-2%	Moderately well-drained	D	Silt loam	Silty clay loam to Clay	Terrace footslopes	Loamy sedimentary Alluvium

APPENDIX D

HISTORICAL CLIMATOLOGY NETWORK STATIONS

Table A- 6. Historical Climatology Network stations around the RHI of Wheeler NWR. The bolded station indicates the station used for analysis in Section 3.4.7. (Menne et al., 2012).

Station Name	State	City	Latitude	Longitude	Type
US1ALCM0016	AL	VINEMONT	34.2835	-86.9144	GHCN
US1ALJC0001	AL	PRINCETON	34.8731	-86.2959	GHCN
US1ALJC0003	AL	HOLLYTREE	34.8057	-86.2483	GHCN
US1ALJC0006	AL	SKYLINE	34.7927	-86.1266	GHCN
US1ALJC0008	AL	WOODVILLE	34.6388	-86.2577	GHCN
US1ALLD0002	AL	ROGERSVILLE	34.8633	-87.3027	GHCN
US1ALLD0029	AL	ROGERSVILLE	34.8578	-87.2947	GHCN
US1ALLD0035	AL	ROGERSVILLE	34.8320	-87.2790	GHCN
US1ALLR0001	AL	HILLSBORO	34.5419	-87.1762	GHCN
US1ALLR0005	AL	TRINITY	34.5819	-87.1109	GHCN
US1ALLS0002	AL	CAPSHAW	34.8044	-86.8304	GHCN
US1ALLS0003	AL	ATHENS	34.7853	-87.0363	GHCN
US1ALLS0004	AL	MADISON	34.7384	-86.7946	GHCN
US1ALLS0009	AL	ATHENS	34.8246	-87.0094	GHCN
US1ALLS0010	AL	ATHENS	34.8490	-86.9987	GHCN
US1ALLS0019	AL	ATHENS	34.7866	-86.9123	GHCN
US1ALLS0022	AL	ATHENS	34.7577	-86.9159	GHCN
US1ALLS0023	AL	ATHENS	34.7869	-86.9536	GHCN
US1ALLS0026	AL	MADISON	34.7098	-86.8057	GHCN
US1ALLS0028	AL	ATHENS	34.7779	-86.8645	GHCN
US1ALMD0001	AL	HUNTSVILLE	34.6362	-86.5364	GHCN
US1ALMD0002	AL	GURLEY	34.6651	-86.3654	GHCN
US1ALMD0003	AL	HUNTSVILLE	34.6996	-86.5574	GHCN
US1ALMD0004	AL	HUNTSVILLE	34.6470	-86.5530	GHCN
US1ALMD0005	AL	HARVEST	34.8164	-86.7661	GHCN
US1ALMD0006	AL	HAZEL	34.9352	-86.5835	GHCN
US1ALMD0007	AL	MADISON	34.7018	-86.7278	GHCN
US1ALMD0010	AL	HUNTSVILLE	34.6202	-86.5590	GHCN
US1ALMD0012	AL	HUNTSVILLE	34.5999	-86.5813	GHCN
US1ALMD0013	AL	NEW	34.9134	-86.4513	GHCN
US1ALMD0015	AL	MOORES	34.8056	-86.4872	GHCN

Station Name	State	City	Latitude	Longitude	Type
US1ALMD0017	AL	BROWNSBORO	34.7731	-86.4266	GHCN
US1ALMD0018	AL	OWENS	34.5973	-86.5400	GHCN
US1ALMD0020	AL	HUNTSVILLE	34.6005	-86.5827	GHCN
US1ALMD0023	AL	OWENS	34.5899	-86.4446	GHCN
US1ALMD0025	AL	HUNTSVILLE	34.7337	-86.5565	GHCN
US1ALMD0026	AL	MADISON	34.7283	-86.7168	GHCN
US1ALMD0028	AL	HUNTSVILLE	34.7381	-86.5321	GHCN
US1ALMD0029	AL	HUNTSVILLE	34.6126	-86.5395	GHCN
US1ALMD0030	AL	HUNTSVILLE	34.6136	-86.5555	GHCN
US1ALMD0031	AL	MADISON	34.7200	-86.7361	GHCN
US1ALMD0032	AL	HARVEST	34.7888	-86.7728	GHCN
US1ALMD0033	AL	HAMPTON	34.6706	-86.5150	GHCN
US1ALMD0036	AL	MOORES	34.8211	-86.5094	GHCN
US1ALMD0040	AL	HAMPTON	34.6670	-86.4850	GHCN
US1ALMD0041	AL	HUNTSVILLE	34.7631	-86.6180	GHCN
US1ALMD0042	AL	HAMPTON	34.6689	-86.4946	GHCN
US1ALMD0043	AL	NEW	34.5618	-86.3966	GHCN
US1ALMD0045	AL	HARVEST	34.8089	-86.7846	GHCN
US1ALMD0046	AL	HARVEST	34.7921	-86.7763	GHCN
US1ALMD0047	AL	HUNTSVILLE	34.6447	-86.5267	GHCN
US1ALMD0048	AL	HUNTSVILLE	34.6392	-86.5369	GHCN
US1ALMD0050	AL	MADISON	34.7270	-86.7453	GHCN
US1ALMD0052	AL	HUNTSVILLE	34.7278	-86.5289	GHCN
US1ALMD0053	AL	MADISON	34.6688	-86.7289	GHCN
US1ALMD0054	AL	HUNTSVILLE	34.6520	-86.5583	GHCN
US1ALMD0057	AL	HARVEST	34.8155	-86.7530	GHCN
US1ALMD0059	AL	HARVEST	34.7856	-86.7114	GHCN
US1ALMD0067	AL	OWENS	34.5678	-86.4440	GHCN
US1ALMD0069	AL	MADISON	34.7296	-86.7048	GHCN
US1ALMD0071	AL	MADISON	34.7857	-86.7375	GHCN
US1ALMD0072	AL	HUNTSVILLE	34.7366	-86.5311	GHCN
US1ALMD0074	AL	MADISON	34.7043	-86.7228	GHCN
US1ALMD0076	AL	OWENS	34.5312	-86.5045	GHCN
US1ALMD0077	AL	OWENS	34.6333	-86.4861	GHCN
US1ALMD0082	AL	MADISON	34.8169	-86.7272	GHCN
US1ALMD0083	AL	HAZEL	34.9869	-86.6437	GHCN
US1ALMG0001	AL	DECATUR	34.5827	-86.9444	GHCN
US1ALMG0003	AL	PRICEVILLE	34.5131	-86.9227	GHCN
US1ALMG0009	AL	FALKVILLE	34.3638	-86.8217	GHCN
US1ALMG0012	AL	LACEY'S	34.4907	-86.6328	GHCN
US1ALMG0014	AL	SOMERVILLE	34.4552	-86.7744	GHCN
US1ALMG0016	AL	PRICEVILLE	34.5211	-86.8797	GHCN

Station Name	State	City	Latitude	Longitude	Type
US1ALMG0017	AL	PRICEVILLE	34.5148	-86.9146	GHCN
US1ALMG0024	AL	HARTSELLE	34.4223	-86.9375	GHCN
US1ALMG0026	AL	DECATUR	34.5185	-86.9745	GHCN
US1ALMS0002	AL	ARAB	34.3397	-86.5434	GHCN
US1ALMS0015	AL	GRANT	34.4630	-86.3406	GHCN
US1ALMS0020	AL	UNION	34.4222	-86.5691	GHCN
US1CHARM003	AL	HUNTSVILLE	34.6533	-86.5814	GHCN
US1CHARM004	AL	OWENS	34.6014	-86.5397	GHCN
US1CHARM006	AL	CAPSHAW	34.7842	-86.7544	GHCN
US1CHARM007	AL	HAZEL	34.9481	-86.6364	GHCN
US1CHARM011	AL	CAPSHAW	34.8050	-86.7619	GHCN
US1CHARM012	AL	HAMPTON	34.6192	-86.5703	GHCN
US1CHARM020	AL	HUNTSVILLE	34.7519	-86.5767	GHCN
US1CHARM024	AL	HARTSELLE	34.4344	-86.9153	GHCN
US1CHARM029	AL	HAMPTON	34.6389	-86.5436	GHCN
US1CHARM032	AL	HUNTSVILLE	34.7264	-86.5631	GHCN
US1CHARM033	AL	HARVEST	34.8100	-86.7197	GHCN
US1CHARM036	AL	HAMPTON	34.6389	-86.5214	GHCN
US1CHARM043	AL	HAMPTON	34.6286	-86.5561	GHCN
US1CHARM045	AL	HAMPTON	34.6614	-86.5575	GHCN
US1CHARM053	AL	HAMPTON	34.6444	-86.5056	GHCN
US1CHARM082	AL	CAPSHAW	34.7942	-86.7711	GHCN
US1CHARM103	AL	HAMPTON	34.6250	-86.5367	GHCN
US1CHARM105	AL	PAINT	34.6417	-86.3861	GHCN
US1CHARM106	AL	BROWNSBORO	34.7700	-86.4750	GHCN
US1CHARM107	AL	ATHENS	34.7906	-86.9358	GHCN
US1CHARM108	AL	HAMPTON	34.6544	-86.5617	GHCN
US1CHARM112	AL	HAMPTON	34.6625	-86.4897	GHCN
US1CHARM141	AL	MADISON	34.7444	-86.7600	GHCN
US1CHARM149	AL	NEW	34.9047	-86.3561	GHCN
US1CHARM152	AL	ATHENS	34.7511	-86.8797	GHCN
US1CHARM153	AL	TONEY	34.9189	-86.7836	GHCN
US1CHARM157	AL	GURLEY	34.6842	-86.4056	GHCN
US1CHARM164	AL	NEW	34.9542	-86.4506	GHCN
US1CHARM165	AL	CAPSHAW	34.7883	-86.7783	GHCN
US1CHARM166	AL	MADISON	34.7411	-86.7697	GHCN
US1CHARM169	AL	MADISON	34.7058	-86.7503	GHCN
US1CHARM170	AL	HUNTSVILLE	34.7217	-86.6364	GHCN
US1CHARM171	AL	MADISON	34.7917	-86.7239	GHCN
US1CHARM172	AL	TONEY	34.8567	-86.6850	GHCN
US1CHARM174	AL	TONEY	34.9033	-86.7381	GHCN
US1CHARM175	AL	ATHENS	34.7806	-86.8644	GHCN

Station Name	State	City	Latitude	Longitude	Type
US1CHARM176	AL	HARVEST	34.7981	-86.7047	GHCN
US1CHARM177	AL	HUNTSVILLE	34.6611	-86.5658	GHCN
US1CHARM178	AL	HAMPTON	34.6475	-86.4814	GHCN
US1CHARM179	AL	GURLEY	34.6528	-86.4206	GHCN
US1CHARM180	AL	ARDMORE	34.9178	-86.8317	GHCN
US1CHARM181	AL	MADISON	34.7353	-86.7908	GHCN
US1CHARM182	AL	MADISON	34.7542	-86.7225	GHCN
US1CHARM183	AL	HUNTSVILLE	34.6942	-86.6156	GHCN
US1CHARM186	AL	MADISON	34.7164	-86.7436	GHCN
US1CHARM187	AL	MADISON	34.7756	-86.7803	GHCN
US1CHARM195	AL	BROWNSBORO	34.8117	-86.4511	GHCN
US1CHARM196	AL	MADISON	34.6661	-86.7300	GHCN
US1CHARM200	AL	PRICEVILLE	34.5411	-86.8669	GHCN
US1CHARM201	AL	ATHENS	34.7581	-86.9108	GHCN
US1CHARM202	AL	FALKVILLE	34.4092	-86.8119	GHCN
US1CHARM203	AL	MOORES	34.8183	-86.5050	GHCN
US1CHARM205	AL	ATHENS	34.7911	-86.9092	GHCN
US1CHARM207	AL	HUNTSVILLE	34.6636	-86.5311	GHCN
US1CHARM208	AL	MADISON	34.7378	-86.7656	GHCN
US1CHARM210	AL	HUNTSVILLE	34.7467	-86.5467	GHCN
USC00010117	AL	ALABAMA	34.6833	-86.8833	GHCN
USC00010390	AL	ATHENS	34.7753	-86.9508	GHCN
USC00010395	AL	ATHENS	34.8000	-86.9833	GHCN
USC00010655	AL	BELLE	34.6892	-86.8819	GHCN
USC00010776	AL	BETHLEHEM	34.9833	-86.6333	GHCN
USC00010826	AL	BINGHAM	34.7667	-86.2833	GHCN
USC00011492	AL	CENTER	34.3833	-86.6333	GHCN
USC00012149	AL	DANVILLE	34.4167	-87.0833	GHCN
USC00012207	AL	DECATUR	34.5833	-86.9667	GHCN
USC00012209	AL	DECATUR	34.5569	-86.9503	GHCN
USC00012216	AL	DECATUR	34.6167	-86.9833	GHCN
USC00012221	AL	DECATUR	34.6000	-86.9667	GHCN
USC00012600	AL	ELKMONT	34.8833	-86.9167	GHCN
USC00012737	AL	EVA	34.3150	-86.7256	GHCN
USC00012840	AL	FALKVILLE	34.3667	-86.8833	GHCN
USC00012867	AL	FARLEY	34.5667	-86.5667	GHCN
USC00013215	AL	GARTH	34.7333	-86.3000	GHCN
USC00013583	AL	GUNTERSVILLE	34.4333	-86.4000	GHCN
USC00014060	AL	HUNTSVILLE	34.7167	-86.5833	GHCN
USC00014068	AL	HUNTSVILLE	34.7000	-86.5833	GHCN
USC00014099	AL	HYTOP	34.8167	-86.1167	GHCN
USC00014976	AL	MADISON	34.7000	-86.7500	GHCN

Station Name	State	City	Latitude	Longitude	Type
USC00015529	AL	MONTE	34.7500	-86.5167	GHCN
USC00015862	AL	NEW	34.9000	-86.4333	GHCN
USC00015867	AL	NEW	34.9167	-86.4500	GHCN
USC00016196	AL	OWENS	34.5528	-86.4450	GHCN
USC00016226	AL	PAINT	34.7000	-86.3333	GHCN
USC00016833	AL	REDSTONE	34.5833	-86.6000	GHCN
USC00017674	AL	SOUTHWEST	34.6375	-86.7269	GHCN
USC00017968	AL	SWAIM	34.8833	-86.2167	GHCN
USC00018259	AL	TONEY	34.9000	-86.7333	GHCN
USC00018812	AL	W	34.2833	-86.9142	GHCN
USC00018875	AL	WHEELER	34.7833	-87.3500	GHCN
USW00003856	AL	HUNTSVILLE	34.6439	-86.7861	GHCN
USW00053852	AL	DECATUR	34.6525	-86.9453	GHCN
US1TNLC0004	TN	FAYETTEVILLE	35.0225	-86.5561	GHCN
US1TNLC0007	TN	FAYETTEVILLE	35.0286	-86.5975	GHCN
US1TNLC0011	TN	ARDMORE	35.0124	-86.6668	GHCN
US1TNLC0012	TN	FAYETTEVILLE	35.0260	-86.5540	GHCN
US1TNLC0015	TN	FLINTVILLE	35.0535	-86.4193	GHCN
US1TNLC0018	TN	FAYETTEVILLE	35.0415	-86.5769	GHCN
USC00400235	TN	ARDMORE	34.9925	-86.8561	GHCN
USC00402856	TN	ELORA	35.0167	-86.3500	GHCN
USH00017157	AL	SAINT BERNARD	34.1736	-86.8133	USHCN
USH00017304	AL	SCOTTSBORO	34.6736	-86.0536	USHCN
USH00405187	TN	LEWISBURG	35.4139	-86.8086	USHCN
USH00409155	TN	TULLAHOMA	35.3453	-86.2089	USHCN

APPENDIX E

DAMS

Table A- 7. Dams in the RHI of Wheeler NWR. (SARP, 2017).

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
PAUL RIGSBY DAM	AL00993	1952	{C0C985A0-262B-4A50-9119-3D40B11B355C}	-86.9227147	34.25524526
MONTGOMERY LAKE	AL01009	1964	{7653C928-24B3-4AF3-A2FD-2A0EDDFA464D}	-86.93595577	34.78616915
LAWSON LAKE NO. 1	AL01011	1961	{283F0E91-0B47-4E19-8DFF-D9CE10735B94}	-87.0728351	34.71543599
LAWSON LAKE NO. 2	AL01012	1963	{7BBA3A90-914E-4C4D-9E25-5124AE479532}	-87.06789604	34.71595449
JIMMY JOHNSTON LAKE DAM	AL01014	1958	{E4121D3A-AF5D-4E14-A38F-5F71FBD1B82A}	-86.44529653	34.89574961
SMITH,WALKER,AND JOHNSON LAKE DAM	AL01015	1963	{7FD493F6-1470-4921-BC92-CE01151A627B}	-86.37161473	34.68760165
MT. LAKE RESORT	AL01016	1956	{B8F49430-180F-42E8-BA17-B8838D29E51A}	-86.35830914	34.77800672
MADISON COUNTY PUBLIC LAKE DAM	AL01020	1958	{8DE8BB75-B716-4075-9E96-E9390A5A6227}	-86.39417791	34.80519262
MARY ANN DRAKE	AL01021	1956	{019C334A-5428-4B3E-8063-AEEC2CFF7B9F}	-86.72582966	34.6625466
LITTLE PAINT CREEK W/S SITE 9	AL01022	1962	{360788E8-CD78-4517-AD9B-8BED8521B357}	-86.26161385	34.55348147
PINE LAKE DAM	AL01023	1972	{1D380D0C-2B09-4DC4-9B0D-606895429D0A}	-86.54154434	34.33989965
LAKE CHULAVISTA DAM	AL01028	1958	{531A43EB-AC30-44DE-BEA4-B76EFB0E36EB}	-87.06302803	34.5332555
GUY ROBERTS DAM	AL01029	1968	{555136D8-E41D-42F6-8090-478121A3A283}	-86.97505992	34.40921244
ROMINE LAKE DAM	AL01533	1966	{943CAB07-A4BC-429B-B806-9EB7A84AB6B9}	-86.77910116	34.75442631

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
HILL POND DAM	AL01754	1979	{9231F59D-1607-4346-A1ED-F7C5EF44D5C5}	-86.10057705	34.81818061
LITTRELL DAM	AL01902	1960	{CDF66F18-0A66-4396-BA55-2564D722D866}	-87.10124519	34.79403653
LAWSON LAKE NO. 3	AL02209	1961	{81C6207E-4ED4-49AF-8558-3A9134FA68A3}	-87.06939341	34.7195231
RICHARD CRIBBS	AL02536	1998	{610ACB05-BF2B-4D8B-A224-029B287E9558}	-86.39291048	34.42248868
Pine Lake Dam		NA	{F547DEB4-2B76-422E-B924-6D060E19D1D2}	-86.52497917	34.35178198
Sims Lake Dam		NA	{CA0C23F1-A66B-44D1-8DC1-6B0907C31A76}	-87.14993386	34.55673416
Lynn Dam		NA	{259F5169-A09D-44F7-BD2B-4276000D5678}	-86.57330652	34.42004098
BROOKWOOD FOREST LAKE	AL01010	1969	{FFE21650-7036-44A6-A812-409E7EE89B94}	-86.92982877	34.79740877
LAKE GARY DAM	AL01013	1962	{B4836174-B8D9-49F0-8FDE-04DE1271292C}	-86.81460826	34.69404322
Madison County Nature Trail Dam		NA	{793E22DC-CE2B-45DE-95D7-202A6501C9B3}	-86.5183231	34.6517578
Randall Mullins Lake Dam		NA	{8AF6079F-CB6B-49BE-9A60-B6F73E07096F}	-86.71753576	34.93646807
Charles Head Pond Dam		NA	{DD0C8916-B82F-4719-B55D-CA69AD882B9C}	-86.6166625	34.9834201
Seeburn Hezerig Dam		NA	{56F35F68-C874-425F-B782-ADD0DC2F6711}	-86.6233293	34.9867534
Unnamed Dam	AL02216a	NA	{4EA394E5-08E8-433A-8424-F8954CF07DDA}	-86.52141664	34.60692161
Unnamed Dam	AL02216b	NA	{806B115A-1B63-40F3-B6A7-383E3CB1716B}	-86.51846486	34.59760053
Estimated Dam		NA	{CC8B7484-D10A-438A-A289-E99BF138094C}	-87.19048075	34.42776795
Estimated Dam		NA	{D6EFD250-ED2C-497E-BCD0-3543DB30C5E1}	-86.39832302	34.92048608

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
Estimated Dam		NA	{DC7D9E49-D766-41A8-A472-42FFC0477432}	-86.38425194	34.69293764
Estimated Dam		NA	{9538EBA1-1430-4C85-B8C3-8FEC01146D03}	-87.29655841	34.91404804
Estimated Dam		NA	{2239452B-E246-47A4-8897-59C2D64C8D24}	-87.30794067	34.79861455
Estimated Dam		NA	{FBAFCF46-129E-41B6-8E4A-1A57C4945AD7}	-87.01807979	34.75939476
Estimated Dam		NA	{9CE673FE-055C-42BC-87E3-D217AD33BB4A}	-86.91330916	34.75675636
Estimated Dam		NA	{BD7D86A7-67A8-491D-B854-395A9D7DD3FC}	-86.80794406	34.80599064
Estimated Dam		NA	{DFE07542-D366-4F67-8CED-C35E62D328A9}	-86.73697045	34.91084087
Estimated Dam		NA	{9768919E-C2AA-419B-BE11-553D026D8698}	-86.73140892	34.95397527
Estimated Dam		NA	{6711EC09-C6BF-4AA7-8F33-6BB201C09D2D}	-86.77249466	34.95214467
Estimated Dam		NA	{761DBC6A-A78F-424B-911A-51E25CB83018}	-86.82451374	34.77516817
Estimated Dam		NA	{03223A5C-EF16-49C3-8696-3E4673B1D13F}	-86.79893526	34.72636056
Estimated Dam		NA	{6F1FD702-6E8F-4790-B1C6-DBEB95AAF3DB}	-86.79349192	34.73196896
Estimated Dam		NA	{A133011B-0094-443C-8956-D56FB9DD6671}	-86.77374585	34.67986635
Estimated Dam		NA	{465F2569-623D-465F-A8D3-4D80DCCA560B}	-86.72011071	34.78077817
Estimated Dam		NA	{3293429D-4C73-497B-BCF7-0C011FEC0991}	-86.70603903	34.75600497
Estimated Dam		NA	{94563130-C55B-42BE-89B9-74FB03BB9DEA}	-86.7152981	34.74969263
Estimated Dam		NA	{8E9D1134-E1AB-4CA7-967B-FF420978D3DA}	-86.5984566	34.69848136

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
Estimated Dam		NA	{E1404BE8-E6E2-4E6A-B217-F11A337DACDD}	-86.5981772	34.70441383
Estimated Dam		NA	{59E6BBF5-9B91-4FBC-8C47-641C2845FC3B}	-86.57180927	34.86836886
Estimated Dam		NA	{9BD898A3-EE54-4D6D-AA1D-EABF5E409BF4}	-86.63086422	34.86847226
Estimated Dam		NA	{A158ED0A-D27D-4295-834C-F23A640484F4}	-86.63692202	34.86519659
Estimated Dam		NA	{204B85D8-555E-4153-BFBB-175D054D725D}	-86.64108782	34.85133859
Estimated Dam		NA	{AE468450-A3DB-48F4-ABFC-4D005D387F70}	-86.54527346	34.80653425
Estimated Dam		NA	{8C42E8EB-2FC8-44F4-9356-03F6CF4117F8}	-86.51365025	34.84306546
Estimated Dam		NA	{AA184249-A6E6-4CD2-807A-27C405D6B7E0}	-86.51437498	34.84132539
Estimated Dam		NA	{C86E62AB-0055-4844-A664-E567B5F95F10}	-86.51939079	34.82939646
Estimated Dam		NA	{8B549D4A-5C36-4B91-8405-65CE23F1EB70}	-86.51382458	34.83743106
Estimated Dam		NA	{51F850E9-731D-47D4-A82E-1B7C84D2A0B9}	-86.51157645	34.83594019
Estimated Dam		NA	{C12EC831-F0C8-4E18-B772-D48F23B0384E}	-86.36386912	34.50992173
Estimated Dam		NA	{B095CA90-5D11-41B0-935E-2909564376C9}	-86.26007217	34.69459664
Estimated Dam		NA	{058DC82C-BC3B-4423-8A1D-76B63140121B}	-86.12698867	34.79215367
Estimated Dam		NA	{63FD9AC7-1086-41A0-B806-319E114EC799}	-86.14131734	34.80788807
Estimated Dam		NA	{203825CD-FF41-42A8-BCE1-E7D9CEA061FF}	-86.11062987	34.82836347
Estimated Dam		NA	{EE111805-BB8D-4F8F-9BD4-B5BFD92596A6}	-86.16361229	34.86285321

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
Estimated Dam		NA	{E7936553-C90C-493B-BD1B-5FDF8EAC7C4D}	-86.47862002	34.4018539
Estimated Dam		NA	{88315006-920A-412E-9230-D7E6CD368888}	-86.59886879	34.53965153
Estimated Dam		NA	{C9EAFB48-375D-4E6D-9948-E3321F467D87}	-86.74720123	34.51304578
Estimated Dam*		NA	{451F28E8-8E95-441C-8FEE-CC2B2ED84C63}	-86.75294463	34.55136692
Estimated Dam		NA	{CDE9CA02-FB23-47B2-8994-12D813F562CE}	-86.95419809	34.47366417
Estimated Dam		NA	{35940982-1C99-4758-8CEF-CF83A237DC52}	-86.91672474	34.4847461
Estimated Dam		NA	{B341E23C-4279-4A80-9FA6-E5ACDD6C82AC}	-87.02658838	34.51212771
Estimated Dam		NA	{B0A3FB29-896D-4CCE-A0D1-0772DF512283}	-87.06929639	34.53927578
Estimated Dam		NA	{F84A5613-7C37-4332-8B7D-4CB74E2AE75D}	-87.14096001	34.5214665
Estimated Dam		NA	{648DBEB9-026C-4D01-834C-DE4F960A52E1}	-87.14442234	34.53397277
Estimated Dam		NA	{56F3CB72-245D-4E11-BE50-B9477356CF5F}	-87.15254262	34.56503191
Estimated Dam		NA	{507A152D-D954-4487-AFD8-99893E730172}	-87.20055516	34.56322498
Estimated Dam		NA	{7D05A27A-5EDA-444E-A7B9-C670A94EA93A}	-87.20480736	34.55089877
Estimated Dam		NA	{89112E70-9A58-425B-BD34-7FBBFAFA3D606}	-87.20969263	34.5360523
Estimated Dam		NA	{8ED7937C-B309-4AD5-96D7-8114B0EC1BFC}	-86.9825591	34.56670572
Estimated Dam		NA	{41E1938F-26BD-493B-9D35-631D0C367C37}	-86.93752089	34.58572612
Estimated Dam		NA	{DE60979B-43E8-46DF-836B-93A7B3ABF59C}	-87.07819579	34.56413278

Name	NIDID	Year Completed	Global ID	Longitude	Latitude
Estimated Dam		NA	{18458916-822F-40B4-8E14-87E47A6B105A}	-87.13016934	34.56821891
Estimated Dam		NA	{1D9B6FEB-79B7-47EF-929F-D62F1E629949}	-87.16246775	34.59221872
Estimated Dam		NA	{4C8C55E2-DF16-4BD9-BF4D-A974FEA1EC31}	-87.15886915	34.59760258
Estimated Dam		NA	{063DACF5-D250-44D0-9071-D4AE626B8261}	-87.24490245	34.6904766
Estimated Dam		NA	{955FCCDA-635A-426E-8875-2908A8722D6F}	-87.27239266	34.6932192
Estimated Dam		NA	{3B5B9F72-D031-4D7A-BF49-6E7C236626B7}	-86.35552194	34.78534285



Wheeler National Wildlife Refuge

Dams

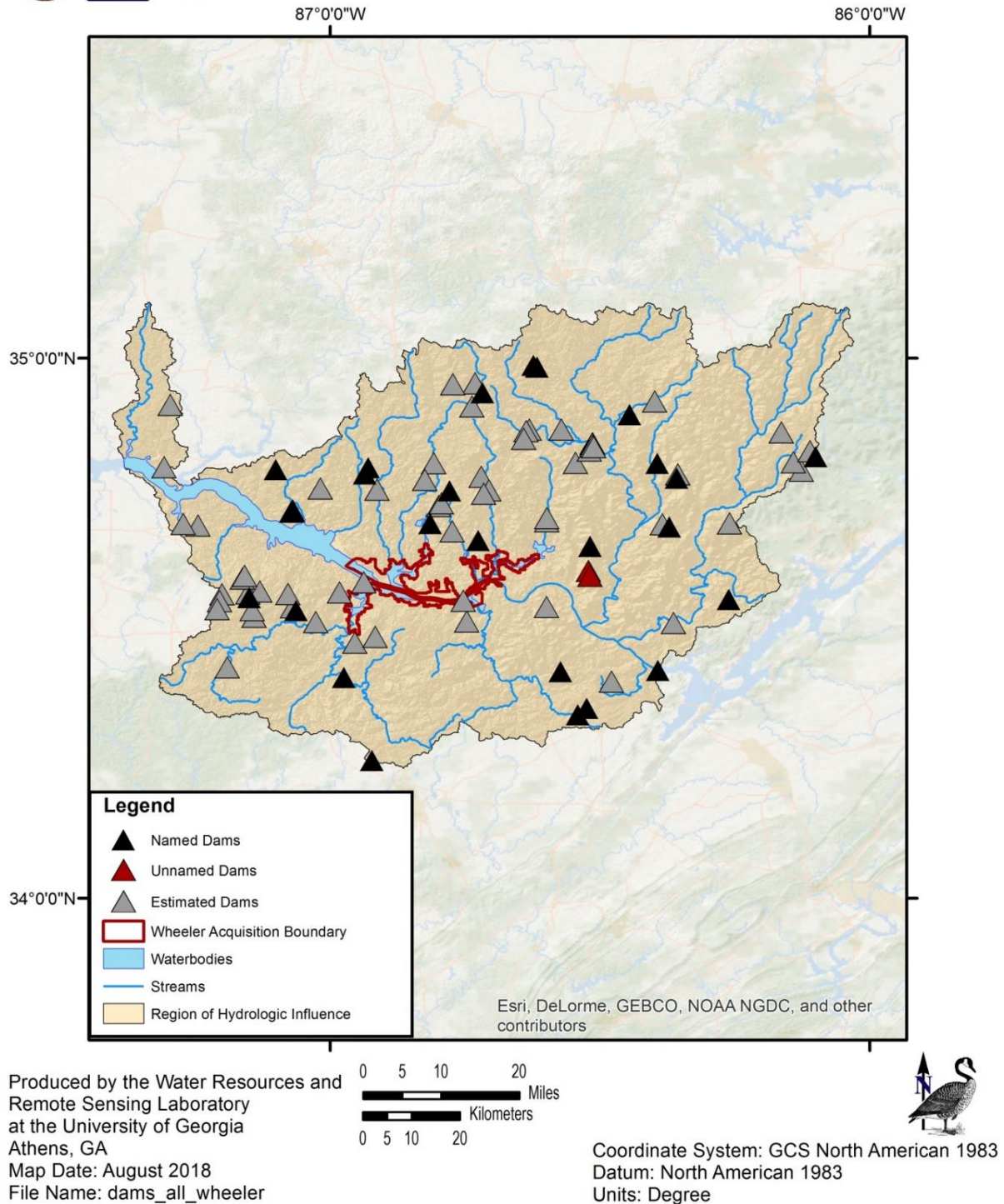


Figure A- 1. All dams in the Region of Hydrologic Influence of Wheeler NWR. (SARP, 2017).

APPENDIX F

WATER MONITORING STATIONS

Surface Water Quantity

Table A- 8. All surface water quantity stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1004	CRDM-1	2005-04-20	2013-08-21	9	River/Stream	34.39282	-87.02805
ADEM	21AWIC-1005	CRDM-2	2005-04-20	2013-08-21	5	River/Stream	34.337	-87.074
ADEM	21AWIC-1006	CRDM-3	2005-04-20	2005-04-20	1	River/Stream	34.377	-87.044
ADEM	21AWIC-1027	FLIM-2A	2005-03-15	2018-04-04	122	River/Stream	34.74926	-86.44666
ADEM	21AWIC-1047	HERM-1	2005-04-20	2009-10-20	8	River/Stream	34.378	-87.022
ADEM	21AWIC-1048	HERM-2	2005-04-20	2018-05-16	26	River/Stream	34.348	-87.011
ADEM	21AWIC-1049	HERM-3	2009-03-19	2009-08-12	6	River/Stream	34.329	-87.006
ADEM	21AWIC-1051	HGSM-27	1998-07-23	2015-10-29	24	River/Stream	34.4133	-86.605243
ADEM	21AWIC-1064	INDM-249	2005-06-16	2017-10-10	48	River/Stream	34.69731	-86.7
ADEM	21AWIC-1065	INDM-250	1998-05-12	2015-10-28	30	River/Stream	34.7502	-86.6976

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1066	INDM-251	1998-05-12	2015-10-28	22	River/Stream	34.7865	-86.7123
ADEM	21AWIC-1078	LIML-300	1998-05-12	2017-10-10	54	River/Stream	34.7521	-86.8232
ADEM	21AWIC-1130	PRRJ-1	2005-06-16	2017-10-10	42	River/Stream	34.62417	-86.30639
ADEM	21AWIC-1153	SWNL-1A	2006-03-15	2006-10-25	8	River/Stream	34.76405	-86.94658
ADEM	21AWIC-1154	SWNL-390	1998-05-12	2013-10-08	32	River/Stream	34.6886	-86.9531
ADEM	21AWIC-1155	SWNL-392	1998-05-12	2013-10-08	23	River/Stream	34.784973	-86.947803
ADEM	21AWIC-1216	YBCM-2	2005-04-19	2005-04-19	1	River/Stream	34.54698	-86.43001
ADEM	21AWIC-133	WHEL-10	2015-04-21	2018-07-17	11	River/Stream	34.837454	-87.371474
ADEM	21AWIC-137	WHEL-9	2015-04-21	2018-06-20	10	River/Stream	34.72263	-87.280487
ADEM	21AWIC-142	WHEL-5	2015-04-21	2018-04-17	8	River/Stream	34.593333	-86.890278
ADEM	21AWIC-1422	CLER-1	1997-08-25	2016-10-06	31	River/Stream	34.719347	-86.31083
ADEM	21AWIC-143	WHEL-8	2015-04-22	2018-05-23	9	River/Stream	34.698636	-87.050739
ADEM	21AWIC-147	WHEL-1	2015-04-21	2018-07-17	11	River/Stream	34.483246	-86.455077
ADEM	21AWIC-1474	ESTL-1	1997-10-21	2015-11-12	35	River/Stream	34.965291	-86.153702
ADEM	21AWIC-1475	FC-9D	1996-05-08	1996-05-08	1	River/Stream	34.41109	-87.18073
ADEM	21AWIC-1476	FC-9E	1996-05-07	1996-05-07	1	River/Stream	34.46013	-87.19553
ADEM	21AWIC-1477	FC-9F	1996-05-07	1996-05-07	1	River/Stream	34.41109	-87.17734
ADEM	21AWIC-1479	FLTM-1	2003-05-28	2018-04-04	4	River/Stream	34.88059	-86.4805
ADEM	21AWIC-148	WHEL-2	2015-04-21	2018-07-17	11	River/Stream	34.51073	-86.514106

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1480	FLTM-2	2003-05-28	2003-06-26	2	River/Stream	34.91745	-86.50317
ADEM	21AWIC-1481	FLTM-3	2003-05-28	2003-06-26	2	River/Stream	34.93753	-86.52265
ADEM	21AWIC-1487	GILL-1	1996-05-09	2015-08-27	7	River/Stream	34.38009	-87.22844
ADEM	21AWIC-149	WHEL-3	2015-04-21	2018-07-17	11	River/Stream	34.58431	-86.72915
ADEM	21AWIC-1505	HRCM-3	2003-05-28	2003-06-17	2	River/Stream	34.87903	-86.38704
ADEM	21AWIC-1511	HURR-1	1997-08-25	2018-05-23	44	River/Stream	34.91799	-86.133
ADEM	21AWIC-1540	LICK-1	1997-10-21	2013-06-26	14	River/Stream	34.852416	-86.243766
ADEM	21AWIC-1551	LPNT-1	1997-07-23	2000-01-19	15	River/Stream	34.601336	-86.269497
ADEM	21AWIC-1554	LPRK-1	1997-08-25	2016-07-13	23	River/Stream	34.484658	-86.386227
ADEM	21AWIC-1556	LRKJ-2	2003-06-03	2003-06-24	2	River/Stream	34.92861	-86.21998
ADEM	21AWIC-1597	MTNM-164	2003-05-28	2003-06-18	2	River/Stream	34.95075	-86.36503
ADEM	21AWIC-1607	NLYW-1	1998-07-22	1998-09-16	2	River/Stream	34.816345	-87.301075
ADEM	21AWIC-167	WHEL-4	2015-04-21	2018-06-19	10	River/Stream	34.542968	-86.72628
ADEM	21AWIC-168	WHEL-6	2015-04-21	2018-04-17	8	River/Stream	34.558889	-86.948056
ADEM	21AWIC-169	WHEL-7	2015-04-22	2018-06-20	10	River/Stream	34.620814	-87.000639
ADEM	21AWIC-1763	WLFM-1	2003-06-03	2003-06-17	2	River/Stream	34.38258	-86.43655
ADEM	21AWIC-1802	CRDM-4	2007-03-14	2007-04-11	2	River/Stream	34.33762	-87.07454
ADEM	21AWIC-1911	ALDM-230	1998-05-11	2016-10-28	18	River/Stream	34.5949	-86.5458
ADEM	21AWIC-1912	ALDM-231	1998-05-11	1998-09-08	3	River/Stream	34.6128	-86.5439

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1913	ALDM-232	1998-05-11	1998-09-08	3	River/Stream	34.6719	-86.5507
ADEM	21AWIC-1985	BFFM-6	2007-03-12	2007-05-08	3	River/Stream	34.925431	-86.633642
ADEM	21AWIC-2116	BSCL-1	2009-03-31	2012-11-13	16	River/Stream	34.4865	-87.14684
ADEM	21AWIC-2136	BVDM-1	2007-03-12	2013-08-14	8	River/Stream	34.874211	-86.607036
ADEM	21AWIC-2137	BVDM-2	2007-03-12	2013-08-14	8	River/Stream	34.861064	-86.642456
ADEM	21AWIC-2138	BVDM-3	2013-04-11	2013-10-17	5	River/Stream	34.862925	-86.646708
ADEM	21AWIC-2192	CDRM-1	2005-04-20	2005-04-20	1	River/Stream	34.398696	-86.914279
ADEM	21AWIC-2217	CHSM-190	1998-05-13	2015-08-31	19	River/Stream	34.7809	-86.4926
ADEM	21AWIC-2300	CSPJ-70	1997-07-23	2017-10-03	27	River/Stream	34.6828	-86.3297
ADEM	21AWIC-2391	ELML-1	2009-06-18	2009-09-10	4	River/Stream	34.452749	-87.227948
ADEM	21AWIC-2419	FLTL-1	2009-03-31	2009-10-06	7	River/Stream	34.496103	-87.131896
ADEM	21AWIC-2448	FTCM-6	2014-05-22	2018-04-05	48	River/Stream	34.491139	-86.965389
ADEM	21AWIC-2517	HSBM-241	1998-05-11	1998-09-08	3	River/Stream	34.7251	-86.5893
ADEM	21AWIC-2518	HSBM-242	1998-05-11	1998-09-08	3	River/Stream	34.739984	-86.591747
ADEM	21AWIC-2610	LIML-301	1998-05-12	1998-09-09	3	River/Stream	34.8028	-86.8159
ADEM	21AWIC-2641	LRKJ-1	1997-10-21	2003-06-24	17	River/Stream	34.8659	-86.20796
ADEM	21AWIC-2680	MACM-330	1998-05-05	2013-09-25	6	River/Stream	34.3701	-86.9598
ADEM	21AWIC-2681	MALL-410	1998-05-06	2018-05-22	4	River/Stream	34.6783	-87.1899
ADEM	21AWIC-2682	MALL-411	1998-05-06	1998-09-16	2	River/Stream	34.6212	-87.2026

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-270	DRYJ-1	1997-08-25	2018-05-23	26	River/Stream	34.7923	-86.2521
ADEM	21AWIC-2708	MCDL-360	1998-05-06	2013-07-24	15	River/Stream	34.4482	-87.1445
ADEM	21AWIC-2709	MCDL-361	1998-05-06	1998-09-15	3	River/Stream	34.3969	-87.1537
ADEM	21AWIC-2773	MUDM-2	2009-03-30	2013-08-22	21	River/Stream	34.314438	-86.637865
ADEM	21AWIC-280	BFFM-1	2001-11-27	2013-09-19	11	River/Stream	34.91949	-86.62194
ADEM	21AWIC-2801	NOBM-350	1998-05-06	1998-05-06	1	River/Stream	34.4478	-87.0214
ADEM	21AWIC-2802	NOBM-351	1998-05-06	2012-11-13	10	River/Stream	34.4143	-87.0578
ADEM	21AWIC-281	BFFM-2	2001-11-27	2013-09-19	19	River/Stream	34.87594	-86.57042
ADEM	21AWIC-282	BFFM-4	2002-06-18	2018-04-04	3	River/Stream	34.84566	-86.5176
ADEM	21AWIC-283	BFFM-5	1998-05-13	2013-10-16	10	River/Stream	34.82279	-86.48555
ADEM	21AWIC-287	BVDM-17	1998-07-22	2016-10-27	34	River/Stream	34.8377	-86.5712
ADEM	21AWIC-2921	RBNM-1	1998-05-05	2018-05-16	18	River/Stream	34.36462	-86.92713
ADEM	21AWIC-2923	RBNM-3	2007-03-14	2013-09-26	7	River/Stream	34.357286	-86.894667
ADEM	21AWIC-2929	RCKM-23	1998-07-29	1998-07-29	1	River/Stream	34.3658	-86.6855
ADEM	21AWIC-2935	RDIL-1	2015-03-16	2015-10-08	8	River/Stream	34.714017	-87.052385
ADEM	21AWIC-2952	RNIL-400	1998-05-12	2015-10-08	11	River/Stream	34.7349	-87.0731
ADEM	21AWIC-2953	RNIL-401	1998-05-12	1998-09-16	3	River/Stream	34.7837	-87.0544
ADEM	21AWIC-2996	SHLM-1	2003-06-03	2013-10-17	5	River/Stream	34.3891	-86.42502
ADEM	21AWIC-2997	SHLM-332	1998-05-05	1998-09-15	3	River/Stream	34.4031	-86.9341

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-2998	SHLM-333	1998-05-05	1998-05-05	1	River/Stream	34.4384	-86.921
ADEM	21AWIC-2999	SHLM-334	1998-05-06	1998-05-06	1	River/Stream	34.4514	-86.8882
ADEM	21AWIC-3073	WHEL-13	2015-04-22	2018-07-18	11	River/Stream	34.66969	-87.002285
ADEM	21AWIC-3077	SXMM-36	1998-07-23	1998-07-23	1	River/Stream	34.4233	-86.7041
ADEM	21AWIC-3148	TOWM-335	1998-05-06	1998-09-15	3	River/Stream	34.4459	-86.9337
ADEM	21AWIC-3170	TWNM-1	2007-03-15	2013-08-22	14	River/Stream	34.459044	-86.798983
ADEM	21AWIC-3216	VILM-350	1998-05-06	2017-10-19	15	River/Stream	34.4763	-86.9407
ADEM	21AWIC-3237	WCOT-2	2013-06-04	2013-08-28	3	River/Stream	34.369286	-86.654006
ADEM	21AWIC-3257	WFL-2	2013-03-06	2015-10-22	14	River/Stream	34.429605	-87.185367
ADEM	21AWIC-3263	WHEL-11	2015-04-22	2018-07-18	10	River/Stream	34.637667	-87.029611
ADEM	21AWIC-3397	TOWL-2	2001-08-09	2006-05-09	4	River/Stream	34.777667	-86.954547
ADEM	21AWIC-3432	FLTL-2	2009-03-31	2009-10-06	7	River/Stream	34.51121	-87.13669
ADEM	21AWIC-3433	FLTL-3	2009-03-31	2009-10-06	7	River/Stream	34.54339	-87.15215
ADEM	21AWIC-3434	MARM-1	2009-03-30	2013-08-22	23	River/Stream	34.31538	-86.66588
ADEM	21AWIC-3452	HESM-3	2009-04-13	2010-09-14	14	River/Stream	34.99194	-86.43914
ADEM	21AWIC-3532	TENR-310	2015-04-21	2015-10-20	7	Reservoir	34.578439	-86.89942
ADEM	21AWIC-370	BFFM-3A	1998-07-08	2013-10-16	12	River/Stream	34.853293	-86.5433
ADEM	21AWIC-3832	SWNL-4	2013-03-07	2013-08-08	5	River/Stream	34.67884	-86.98971
ADEM	21AWIC-403	BROM-1	2004-03-25	2004-10-20	4	River/Stream	34.718	-86.5946

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-424	BVDM-18	2003-05-28	2013-10-17	10	River/Stream	34.84467	-86.53547
ADEM	21AWIC-4374	SWNL-380	2013-03-07	2015-10-08	19	River/Stream	34.683723	-86.970673
ADEM	21AWIC-4547	CRDM-5	1997-08-13	1997-08-13	1	River/Stream	34.41175	-87.00833
ADEM	21AWIC-455	CANM-220	2003-03-25	2016-08-10	9	River/Stream	34.48492	-86.53137
ADEM	21AWIC-4550	CRWM-1	1997-08-13	1997-08-13	1	River/Stream	34.48385	-87.05844
ADEM	21AWIC-4752	MLCM-1	1997-08-13	1997-08-13	1	River/Stream	34.35249	-86.80937
ADEM	21AWIC-4977	TRBM-1	2001-08-07	2001-08-07	1	River/Stream	34.569186	-86.335228
ADEM	21AWIC-5080	UMTC-1	2003-08-05	2003-08-05	1	River/Stream	34.523029	-87.054382
ADEM	21AWIC-5095	UPNL-1	2001-08-09	2001-08-09	1	River/Stream	34.812459	-86.867361
ADEM	21AWIC-5156	WFL-5	1997-08-13	1997-08-13	1	River/Stream	34.47108	-87.14428
ADEM	21AWIC-5190	LIML-35	2018-03-27	2018-05-23	3	River/Stream	34.671167	-86.864849
ADEM	21AWIC-520	CTCM-26	2013-08-22	2013-08-22	1	River/Stream	34.4397	-86.7006
ADEM	21AWIC-521	CTCM-37	1998-07-23	1998-07-23	1	River/Stream	34.4141	-86.6888
ADEM	21AWIC-522	CTCM-38	2009-06-04	2009-09-10	5	River/Stream	34.4078	-86.6533
ADEM	21AWIC-5270	CSPJ-72	1998-05-12	1998-08-18	3	River/Stream	34.690756	-86.34708
ADEM	21AWIC-5350	MTNM-2A	2009-08-18	2009-08-19	2	River/Stream	34.91003	-86.4375
ADEM	21AWIC-551	FAGM-1	2004-03-25	2004-10-20	5	River/Stream	34.7247	-86.5914
ADEM	21AWIC-554	FIRL-1	1998-07-22	2003-08-26	12	River/Stream	34.85026	-87.32083
ADEM	21AWIC-555	FIRL-2	2003-06-04	2003-08-14	6	River/Stream	34.87985	-87.30217

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-556	FLIM-1	2003-07-08	2013-10-29	22	River/Stream	34.8265	-86.4827
ADEM	21AWIC-557	FLIM-2	2003-08-05	2013-10-29	17	River/Stream	34.7685	-86.4428
ADEM	21AWIC-574	FMCL-1	2000-04-19	2013-09-17	22	River/Stream	34.75655	-86.89503
ADEM	21AWIC-585	GOOM-1	2003-03-26	2015-08-26	33	River/Stream	34.62978	-86.45234
ADEM	21AWIC-586	GOOM-2	2005-04-19	2013-08-08	11	River/Stream	34.63486	-86.40368
ADEM	21AWIC-594	GUES-1	1997-07-23	2018-05-23	72	River/Stream	34.75965	-86.19024
ADEM	21AWIC-595	GUES-2	2003-03-26	2011-09-07	28	River/Stream	34.76707	-86.17682
ADEM	21AWIC-612	HESM-1	1998-07-08	2017-10-04	59	River/Stream	34.9108	-86.4375
ADEM	21AWIC-613	HESM-2	2003-04-10	2017-09-06	38	River/Stream	34.96119	-86.46094
ADEM	21AWIC-6231	NOBM-345	2012-04-18	2015-06-03	7	River/Stream	34.4594	-86.9972
ADEM	21AWIC-6232	SHLM-332B	2015-03-17	2015-10-22	16	River/Stream	34.4061	-86.9339
ADEM	21AWIC-629	HSBM-240	1998-05-11	2014-11-21	41	River/Stream	34.6593	-86.60436
ADEM	21AWIC-630	HSBM-242A	2004-02-24	2018-03-14	21	River/Stream	34.6899	-86.5963
ADEM	21AWIC-631	HSBM-243	2002-01-10	2002-06-13	6	River/Stream	34.719676	-86.59324
ADEM	21AWIC-636	HURM-2	2003-07-07	2003-07-14	3	River/Stream	34.75302	-86.39145
ADEM	21AWIC-637	HURM-3	2003-07-07	2003-07-16	3	River/Stream	34.79908	-86.40141
ADEM	21AWIC-713	MLDM-2	2003-04-10	2004-11-16	10	River/Stream	34.8278	-86.3548
ADEM	21AWIC-714	MLPM-1	2004-06-16	2013-09-26	9	River/Stream	34.34155	-86.55653
ADEM	21AWIC-722	MTC-1	1999-05-14	1999-07-13	3	River/Stream	34.5139	-87.0519

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-724	MTNM-1	1998-07-08	1998-09-10	2	River/Stream	34.882	-86.4725
ADEM	21AWIC-725	MTNM-2	1998-07-08	2009-10-19	31	River/Stream	34.9107	-86.4369
ADEM	21AWIC-726	MTNM-3	1998-09-10	2004-09-08	22	River/Stream	34.9174	-86.4035
ADEM	21AWIC-732	MUDM-1	2009-03-30	2013-08-22	24	River/Stream	34.35529	-86.65454
ADEM	21AWIC-769	PINL-320	1998-05-12	2001-03-28	10	River/Stream	34.6718	-86.9059
ADEM	21AWIC-770	PINL-321	1998-05-12	2001-01-31	10	River/Stream	34.730352	-86.908695
ADEM	21AWIC-771	PINL-322	1998-05-12	2001-03-28	10	River/Stream	34.7883	-86.8949
ADEM	21AWIC-772	PINL-323	2000-04-12	2001-03-27	7	River/Stream	34.8295	-86.8948
ADEM	21AWIC-773	PINL-324	2000-04-12	2001-03-27	6	River/Stream	34.8616	-86.9064
ADEM	21AWIC-774	PINL-325	2000-04-12	2001-03-27	4	River/Stream	34.9186	-86.8396
ADEM	21AWIC-775	PINL-326	2000-04-12	2001-03-27	4	River/Stream	34.9627	-86.8482
ADEM	21AWIC-776	PINM-1	2004-03-25	2004-10-20	9	River/Stream	34.7249	-86.5918
ADEM	21AWIC-7930	GUES-3	2013-04-03	2013-10-29	15	River/Stream	34.74518	-86.22124
ADEM	21AWIC-7951	HURR-2	2013-05-08	2013-09-11	5	River/Stream	34.982139	-86.096067
ADEM	21AWIC-7990	CSPJ-69	2013-04-03	2017-10-03	11	River/Stream	34.6738	-86.3225
ADEM	21AWIC-8010	INDM-1	2013-03-05	2013-09-25	5	River/Stream	34.312322	-86.899603
ADEM	21AWIC-8030	GOOM-1A	2013-05-16	2015-09-29	19	River/Stream	34.64021	-86.458241
ADEM	21AWIC-821	SCDL-11	1998-07-22	2015-10-07	37	River/Stream	34.8851	-87.3734
ADEM	21AWIC-822	SCDL-12	2003-06-11	2015-10-07	24	River/Stream	34.9395	-87.3368

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-823	SCDL-13	2003-06-04	2004-09-29	20	River/Stream	34.9939	-87.3509
ADEM	21AWIC-8230	MACM-1	2013-05-15	2017-10-19	14	River/Stream	34.389258	-86.964119
ADEM	21AWIC-8231	CDRM-2	2013-03-28	2013-05-16	2	River/Stream	34.411861	-86.872253
ADEM	21AWIC-866	SWNL-1	2003-03-31	2003-05-20	3	River/Stream	34.83186	-86.95172
ADEM	21AWIC-867	SWNL-2	1998-05-12	2013-10-08	29	River/Stream	34.73098	-86.94346
ADEM	21AWIC-8790	ESTL-2	2015-03-18	2015-11-12	10	River/Stream	34.91034	-86.1682
ADEM	21AWIC-901	TWNM-24	1998-07-23	2003-04-30	3	River/Stream	34.4649	-86.7368
ADEM	21AWIC-902	TWNM-25	2003-03-25	2003-06-11	3	River/Stream	34.46634	-86.78842
ADEM	21AWIC-9178	NLYW-1A	2016-03-09	2016-08-29	13	River/Stream	34.81696	-87.30259
ADEM	21AWIC-918	UTSL-1	2003-03-31	2003-08-05	7	River/Stream	34.79955	-86.95298
ADEM	21AWIC-931	WFCM-28	1998-07-29	2013-10-17	21	River/Stream	34.358387	-86.667275
ADEM	21AWIC-9342	NOBM-1008	2017-03-30	2017-10-19	15	River/Stream	34.446968	-87.002802
ADEM	21AWIC-9369	PRRJ-4	2017-03-07	2017-10-03	8	River/Stream	34.698614	-86.308087
ADEM	21AWIC-948	YBCM-1	2003-03-25	2009-07-08	9	River/Stream	34.54892	-86.4523
ADEM	21AWIC-9568	PRRJ-21	2017-03-07	2017-10-03	8	River/Stream	34.77534	-86.250585
ADEM	21AWIC-9569	HURM-4A	2017-03-07	2017-10-03	19	River/Stream	34.711466	-86.395046
TDEC WPC	TDECWPC- HANCO1T0.2LI	HANCOCK BRANCH UNNAMED TRIBUTARY	2004-04-20	2004-04-20	1	River/Stream	35.025	-86.581
TDEC WPC	TDECWPC- WASHB003.0LI	WASHBURN BRANCH	2004-04-20	2004-04-20	1	River/Stream	35.07	-86.612
USGS	03574035	SHOAL CREEK AT NEIGHBORS MILL, ALA	1943-12-08	1952-11-13	2	River/Stream	34.38925887	-86.4249863

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574100	ESTILL FORK AT ESTILLFORK AL	1943-12-04	2018-07-31	30	River/Stream	34.91	-86.1683333
USGS	03574150	HURRICANE CREEK NR ESTILLFORK, ALA	1943-12-04	1952-11-14	2	River/Stream	34.9086969	-86.1527617
USGS	03574190	FOWLER COVE BRANCH NEAR SWAIM, AL.	1990-11-26	1990-11-26	1	River/Stream	34.85647519	-86.1952621
USGS	03574200	LARKIN FORK AT SWAIM AL	1990-11-26	1990-11-26	1	River/Stream	34.86564206	-86.208318
USGS	03574210	(I 1) UNNAMED SPRING NR SCOTTSBORO, AL	1990-11-26	1990-11-26	1	Spring	34.89897616	-86.27026399
USGS	03574220	LICK FORK AT PRINCETON AL	1990-11-26	1990-11-26	1	River/Stream	34.84508688	-86.2366517
USGS	03574228	(J 7) BEASON SPRING AT PRINCETON, AL	1990-11-26	1990-11-26	1	Spring	34.83925365	-86.243874
USGS	03574230	PAINT ROCK RIVER NEAR PRINCETON AL	1990-11-26	1990-11-26	1	River/Stream	34.82786474	-86.2433184
USGS	03574232	WILLIAMS COVE BRANCH NEAR HOLLYTREE, AL.	1990-11-26	1990-11-26	1	River/Stream	34.80425345	-86.2324846
USGS	03574235	(I 2) UNNAMED SP. TRIB TO DRY C NR HOLLYTREE	1971-04-09	1971-10-11	2	Spring	34.8239766	-86.3058197
USGS	03574240	DRY CREEK AT HOLLYTREE AL	1990-11-26	1990-11-26	1	River/Stream	34.79230929	-86.2524849
USGS	03574242	DRY CREEK BL STATE HWY 65 NR HOLLYTREE, ALA	1943-12-04	1943-12-04	1	River/Stream	34.78953149	-86.2508182
USGS	03574250	FRAZIER COVE BRANCH NEAR LITTLE NASHVILLE, AL.	1990-11-27	1990-11-27	1	River/Stream	34.75647564	-86.23359539
USGS	03574275	MILL CREEK NEAR BAILEYTOWN, AL.	1990-11-26	1990-11-26	1	River/Stream	34.85369624	-86.1138717
USGS	03574290	POLE BRANCH NEAR SKYLINE, AL.	1990-11-27	1990-11-27	1	River/Stream	34.80480736	-86.1230381
USGS	03574294	GUESS CREEK NR LATHAM CEMETERY NR LITTLE NASHVILLE	1990-11-27	1990-11-27	1	River/Stream	34.7678636	-86.1744277
USGS	03574295	THREE SISTERS SPRING NEAR LITTLE NASHVILLE, AL.	1990-11-27	1990-11-27	1	Spring	34.76564136	-86.1722054
USGS	03574300	GUESS CREEK NEAR TRENTON AL	1952-11-04	1956-10-01	4	River/Stream	34.76203038	-86.1808167
USGS	03574309	BLUE SPRING NR GUESS C CHURCH NR PRINCETON, ALA	1990-09-13	1991-09-30	18	Spring	34.75925276	-86.1913724

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574310	GUESS CREEK AT GUESS CREEK CHURCH, ALA	1990-11-27	1990-11-27	1	River/Stream	34.7586972	-86.1927613
USGS	03574320	HUNTER HOLLOW BRANCH ABOVE LITTLE NASHVILLE, AL.	1990-11-26	1990-11-26	1	River/Stream	34.78314175	-86.1955393
USGS	03574325	HUNTER HOLLOW BRANCH NEAR LITTLE NASHVILLE, AL.	1990-11-26	1990-11-26	1	River/Stream	34.75953075	-86.2049838
USGS	03574405	LITTLE DRY CREEK NEAR GARTH AL	1960-03-30	1961-09-01	7	River/Stream	34.74258816	-86.3224859
USGS	03574410	CLEAR CREEK AT GARTH AL	1943-12-04	1961-05-15	12	River/Stream	34.72786578	-86.3108189
USGS	03574430	SHANTY BRANCH AT GURLEY, ALA	1969-10-23	1970-10-23	2	River/Stream	34.70092217	-86.3616531
USGS	03574435	COLE SPRING NEAR PAINT ROCK, ALA. X 3	1971-04-08	1971-04-08	1	Spring	34.68703299	-86.3419304
USGS	03574440	COLE SPRING BRANCH NEAR PAINT ROCK AL	1943-12-04	1956-10-01	5	River/Stream	34.6831439	-86.3299857
USGS	03574500	PAINT ROCK RIVER NEAR WOODVILLE AL	1935-02-18	2018-07-30	1010	River/Stream	34.6242547	-86.3063737
USGS	03574550	LITTLE PAINT CREEK NEAR WOODVILLE, AL.	1943-12-04	1973-09-21	10	River/Stream	34.60480985	-86.276373
USGS	03574560	PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE	1969-10-24	1974-11-07	7	River/Stream	34.57981027	-86.3013733
USGS	03574568	MANNING SPRING NEAR WOODVILLE, AL T 15	1969-11-21	1970-10-22	2	Spring	34.61369988	-86.3505413
USGS	03574570	BETHEL SPRING NEAR WOODVILLE, AL U 107	1969-11-21	1973-09-21	7	Spring	34.6131445	-86.3630415
USGS	03574573	BUTLER SPRING NEAR WOODVILLE, AL U 86	1969-11-21	1969-11-21	1	Spring	34.61536689	-86.3724862
USGS	03574580	TREMBLE CREEK NEAR NEW HOPE AL	1969-10-24	1974-11-07	6	River/Stream	34.57703316	-86.3444298
USGS	03574600	PAINT ROCK RIVER NEAR NEW HOPE AL	1971-11-10	1974-11-07	3	River/Stream	34.51258874	-86.3402627
USGS	03574615	CEDAR CREEK NR NEW HOPE, ALA	1969-10-23	1969-10-23	1	River/Stream	34.52897775	-86.3499852
USGS	03574625	MC GEHEE SPRING NR NEW HOPE, ALA	1961-11-30	1969-11-14	2	Spring	34.50286707	-86.37554119
USGS	03574628	LITTLE BLUE SPRING NR NEW HOPE, ALA	1971-11-10	1972-06-07	2	Spring	34.51897824	-86.381097

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574630	(Z 12) NEW HOPE SPRING AT NEW HOPE	1952-01-16	1982-11-01	13	Spring	34.53620064	-86.3935973
USGS	03574634	POND CREEK NR NEW HOPE, ALA	1969-10-23	1969-10-23	1	River/Stream	34.53231149	-86.37665249
USGS	03574640	PAINT ROCK RIVER NR NEW HOPE, ALA	1969-10-23	1971-10-13	4	River/Stream	34.5178672	-86.3855415
USGS	03574650	THE BAYOU NR NEW HOPE, ALA	1969-10-23	1969-10-23	1	River/Stream	34.52314535	-86.4102643
USGS	03574672	LITTLE PAINT ROCK CREEK NR GUNTERSVILLE, ALA	1943-12-01	1943-12-01	1	River/Stream	34.4723121	-86.3752632
USGS	03574673	LITTLE PAINT ROCK CREEK AT HEBRON, AL.	1969-10-23	1974-11-07	6	River/Stream	34.4845342	-86.3863747
USGS	03574675	SCOTT BRANCH NR HEBRON, ALA	1969-10-23	1974-11-07	5	River/Stream	34.4967566	-86.413042
USGS	03574680	TENNESSEE RIVER NEAR MORGAN CITY AL	1971-06-08	1971-09-20	2	River/Stream	34.49314698	-86.51776699
USGS	03574702	FLINT RIVER AT LINCOLN, TN	1999-05-12	1999-09-09	2	River/Stream	35.0117538	-86.5016595
USGS	03574703	FLINT RIVER TRIBUTARY NEAR LINCOLN, TN	1951-10-16	1951-10-16	1	River/Stream	35.0070317	-86.504715
USGS	03574709	FLINT RIVER ABOVE STEWART BRANCH NEAR FISK AL	1971-10-13	1973-09-21	2	River/Stream	34.98897636	-86.5255488
USGS	03574710	STEWART BRANCH NEAR HAZEL GREEN AL	1969-10-23	1973-09-20	5	River/Stream	34.98536536	-86.5180486
USGS	03574715	SLATE ROCK BRANCH NEAR HAZEL GREEN AL	1969-10-23	1973-09-20	5	River/Stream	34.9834207	-86.5438826
USGS	03574740	FLINT RIVER NEAR FISK AL	1952-11-18	1973-09-20	8	River/Stream	34.96147655	-86.5519381
USGS	03574741	WALKER CREEK NEAR BELLEVIEW, TN	1951-10-16	1951-10-16	1	River/Stream	35.0289746	-86.60194
USGS	03574742	HANCOCK BRANCH NEAR BELLEVIEW, TN	1951-10-16	1951-10-16	1	River/Stream	35.02453048	-86.5833284
USGS	0357474250	CAMBERS BRANCH NEAR BELLEVIEW, TN	1951-10-16	1951-10-16	1	River/Stream	35.01675307	-86.5680502
USGS	03574743	WALKER CREEK NEAR HAZEL GREEN AL	1969-10-20	1973-09-20	6	River/Stream	34.97619837	-86.5733278
USGS	03574747	FOWLER CREEK NEAR HAZEL GREEN AL	1969-10-20	1974-11-04	6	River/Stream	34.9767538	-86.5849948

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USGS	03574750	WEST FORK FLINT RIVER AT FISK AL	1943-12-04	1973-09-20	9	River/Stream	34.95814314	-86.5691608
USGS	03574755	PIGRUM BRANCH NEAR HAZEL GREEN AL	1969-10-23	1973-09-20	5	River/Stream	34.9392549	-86.5199925
USGS	03574756	TANNER SPRING NEAR HAZEL GREEN, AL C 98	1969-11-13	1969-11-13	1	Spring	34.9381438	-86.5208258
USGS	03574768	FLINT RIVER AT OSCAR PATTERSON RD, AL	2017-12-07	2018-07-30	7	River/Stream	34.88064458	-86.48054629
USGS	03574770	FLINT RIVER NEAR NEW MARKET AL	1969-10-23	1974-11-08	6	River/Stream	34.8789779	-86.4805463
USGS	03574784	MOUNTAIN FORK ABV HARRIS SPG NR NEW MARKET, ALA	1951-12-18	1970-10-21	2	River/Stream	34.9300879	-86.391656
USGS	03574785	HARRIS SPRING NEAR NEW MARKET, AL B 73	1951-12-08	1952-06-17	5	Spring	34.9300879	-86.3924893
USGS	03574786	MOUNTAIN FORK ABV WATERCRESSPG NR NEW MARKET, AL	1951-12-18	1973-09-20	12	River/Stream	34.92758794	-86.3936004
USGS	03574787	WATERCRESS SPRING NEAR NEW MARKET, AL B 53	1969-11-19	1974-11-04	7	Spring	34.92731017	-86.394156
USGS	0357478720	WATERCRESS POND CANAL NR NEW MARKET, ALA	1969-11-19	1970-10-20	3	Canal	34.92647685	-86.3947115
USGS	03574788	MOUNTAIN FORK BL WATERCRESS SPG NR NEW MARKET, A	1951-12-18	1973-09-20	11	River/Stream	34.9248102	-86.3958227
USGS	03574789	MOUNTAIN FORK BL WATERCRESS POND NR NEW MARKET,	1951-12-18	1970-10-21	5	River/Stream	34.920088	-86.3986004
USGS	03574790	MOUNTAIN FORK AT MOUNTAIN FORK RD, NEW MARKET AL	1969-10-24	1979-11-08	7	River/Stream	34.91786584	-86.4013783
USGS	03574791	FUQUA SPRING AT PLEVNA, AL B 55	1969-12-04	1969-12-04	1	Spring	34.96119884	-86.4058233
USGS	03574793	NEW MARKET SPRING NEAR NEW MARKET, AL B 68	1973-10-31	1973-10-31	1	Spring	34.91314385	-86.4319345
USGS	03574794	MOUNTAIN FORK AB HESTER CREEK NEAR NEW MARKET AL	1952-11-18	1973-09-20	18	River/Stream	34.91092168	-86.4366568
USGS	0357479450	MILNER POND NR PLEVNA	1969-12-04	1969-12-04	1	River/Stream	34.9792542	-86.393601
USGS	0357479460	PRATER SPRING AT PLEVNA, ALA	1969-12-04	1969-12-04	1	Spring	34.9656432	-86.399712

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	0357479480	JENNY RIVER NR PLEVNA, ALA	1969-10-23	1969-10-23	1	River/Stream	34.9848098	-86.423324
USGS	03574795	HESTER CREEK AT PHILLIPS ROAD NR PLEVNA, AL	1961-10-10	1974-11-06	10	River/Stream	34.97786549	-86.4516579
USGS	03574796	WALKER BRANCH NEAR PLEVNA AL	1970-04-01	1974-11-24	9	River/Stream	34.9653656	-86.4458243
USGS	0357479650	HESTER CREEK AT BUDDY WILLIAMSON RD NR PLEVNA, AL	1998-08-06	2013-11-20	139	River/Stream	34.96092128	-86.4636024
USGS	03574797	MINT SPRING NEAR MINT SPRING, AL	1969-11-13	1969-11-13	1	Spring	34.9528658	-86.4677691
USGS	03574799	HESTER CREEK NEAR NEW MARKET AL	1952-11-08	1973-09-21	20	River/Stream	34.91036614	-86.4374901
USGS	03574800	MOUNTAIN FORK BL HESTER CREEK NR NEW MARKET AL	1962-10-24	1973-09-20	14	River/Stream	34.91036614	-86.4383235
USGS	03574802	MOUNTAIN FORK NEAR NEW MARKET AL	1943-12-04	1974-11-04	8	River/Stream	34.87564458	-86.4741572
USGS	03574806	BRIER F FLINT R AB HUCKLEBERRY BR NR HAZEL GREEN	1969-10-26	1972-04-21	4	River/Stream	34.97730866	-86.670275
USGS	03574808	HUCKLEBERRY BRANCH NR HAZEL GREEN, ALA	1969-10-23	1969-10-23	1	River/Stream	34.9725866	-86.6597192
USGS	03574810	BRIER FORK NR HAZEL GREEN, ALA	1952-11-18	1970-10-21	11	River/Stream	34.9620312	-86.6647192
USGS	03574815	BRIER FORK NEAR HAZEL GREEN AL	1969-10-20	1974-11-04	6	River/Stream	34.9195323	-86.621662
USGS	03574816	BANYON SWAMP CREEK NR HAZEL GREEN, ALA	1969-10-23	1989-08-09	4	River/Stream	34.9064769	-86.6338845
USGS	03574817	COPELAND C AT ELKWOOD SECTION RD NR HAZEL GREEN	1969-10-23	1973-09-19	4	River/Stream	34.9770312	-86.6302739
USGS	03574818	STEGER SPRING NEAR HAZEL GREEN, AL D 69	1972-04-21	1974-11-06	3	Spring	34.9350877	-86.6027727
USGS	03574820	COPELAND CREEK NEAR HAZEL GREEN AL	1969-10-20	1974-11-04	6	River/Stream	34.9248101	-86.6041616
USGS	03574823	BRIER FORK FLINT RIVER NR HAZEL GREEN, AL.	1999-05-12	1999-09-07	2	River/Stream	34.9023106	-86.5841607
USGS	03574825	BRIER FORK @US 231 NR MERIDIANVILLE, ALABAMA	1949-01-06	1974-11-06	7	River/Stream	34.8759222	-86.5705489
USGS	03574835	BRIER FORK AB BEAVERDAM C NR MERIDIANVILLE AL	1949-01-07	1974-11-08	7	River/Stream	34.8534227	-86.5430478

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574838	BEAVERDAM CREEK NR TONEY, ALA	1969-10-23	1969-10-23	1	River/Stream	34.9034211	-86.68916399
USGS	03574840	MORRIS BRANCH NEAR TONEY AL	1970-04-01	1989-08-09	15	River/Stream	34.89925446	-86.6986087
USGS	03574843	TURNER SPRING NEAR TONEY, AL F 92	1971-04-05	1973-09-24	3	Spring	34.8856437	-86.6802747
USGS	03574845	UNNAMED TRIB TO BEAVERDAM CREEK NR TONEY, ALA	1969-10-23	1969-10-23	1	River/Stream	34.88008825	-86.6847193
USGS	03574850	DYAS SWAMP TRIB TO BEAVERDAM C NR TONEY, ALA	1969-10-20	1989-08-09	2	River/Stream	34.86786638	-86.661385
USGS	03574855	BEAVERDAM C AT PULASKI PIKE NR MERIDIANVILLE AL	1969-10-20	1974-11-08	7	River/Stream	34.86119855	-86.892782
USGS	03574870	BEAVERDAM CREEK NEAR MERIDIANVILLE AL	1949-01-06	1974-11-08	10	River/Stream	34.83814506	-86.5713819
USGS	03574871	MERIDIANVILLE SPRING AT MERIDIANVILLE, AL H 14	1965-03-10	1974-11-06	9	Spring	34.8450894	-86.5683263
USGS	03574872	STRAIGHT DITCH AT HUNTSVILLE AL	1970-04-01	1972-03-28	6	Ditch	34.82342319	-86.535825
USGS	03574970	BRIER FORK NEAR MERIDIANVILLE AL	1943-12-04	1973-09-19	19	River/Stream	34.85314494	-86.5430478
USGS	03574980	MOORES MILL SPRING NEAR MERIDIANVILLE, AL H 105	1970-04-15	1970-10-21	2	Spring	34.84231186	-86.5174913
USGS	03574998	BRIER FORK NEAR CHASE AL	1969-10-24	1974-11-06	7	River/Stream	34.8234231	-86.4847123
USGS	03575000	FLINT RIVER NEAR CHASE AL	1950-10-09	1994-12-01	440	River/Stream	34.82286756	-86.4830456
USGS	03575013	MOORE SPRING NEAR MAYSVILLE, AL M 246	1969-11-20	1969-11-20	1	Spring	34.80703424	-86.4683229
USGS	03575015	BOILING SPRING NEAR MAYSVILLE, AL M 2	1952-05-08	1974-11-07	9	Spring	34.80508987	-86.4722119
USGS	03575020	FLINT RIVER NEAR CEDAR GAP AL	1972-08-10	1973-09-28	3	River/Stream	34.78759025	-86.4847119
USGS	03575024	ACUFF SPRING NEAR CHASE, AL M 38	1929-07-10	1971-10-20	35	Spring	34.78009045	-86.49165639
USGS	03575027	UNNAMED SPRING NR CHASE, ALA	1969-11-20	1973-09-19	4	Spring	34.78425705	-86.4911009
USGS	03575028	CHASE CREEK NEAR CHASE AL	1969-10-24	1974-11-06	8	River/Stream	34.78509035	-86.489712

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575034	UNNAMED TRIB TO CHASE CREEK NR CHASE, ALA	1969-10-24	1969-10-24	1	River/Stream	34.7870348	-86.4924898
USGS	03575038	CHASE SEWAGE LAGOON OUTFALL NR CEDAR GAP, ALA	1971-08-26	1971-08-26	1	Outfall	34.78620136	-86.483323
USGS	03575040	FLINT RIVER NEAR MOUNT CARMEL AL	1971-06-07	1976-11-15	14	River/Stream	34.78703465	-86.4808229
USGS	03575046	FLINT RIVER NR MAYSVILLE, ALA	1946-07-23	1947-06-23	12	River/Stream	34.76758988	-86.4424886
USGS	03575100	FLINT RIVER AT BROWNSBORO, AL.	1906-05-12	2018-07-30	158	River/Stream	34.7492568	-86.4466551
USGS	03575105	BURNS SPRING AT MAYSVILLE, AL L 84	1969-11-20	1969-11-20	1	Spring	34.76981184	-86.4260994
USGS	03575110	DUG HILL SPRINGS NEAR BROWNSBORO, AL M 186	1963-12-27	1974-11-06	8	Spring	34.74953507	-86.477489
USGS	03575112	HAMBRICK BRANCH AT BROWNSBORO, ALA	1969-10-20	1969-10-20	1	River/Stream	34.74786807	-86.4566553
USGS	03575120	FLINT RIVER WEST OF GURLEY AL	1952-03-12	1974-11-06	8	River/Stream	34.69647869	-86.4222099
USGS	03575125	POTTS HOLLOW TRIB TO FLINT R NR GURLEY, ALA	1969-10-20	1969-10-20	1	River/Stream	34.6967566	-86.4316546
USGS	03575140	HURRICANE CREEK NEAR NEW MARKET AL	1969-10-24	1974-11-06	5	River/Stream	34.87897715	-86.3872109
USGS	03575145	BALES SPRING NEAR NEW MARKET, AL I 52	1969-11-19	1969-11-19	1	Spring	34.8509219	-86.3980441
USGS	03575147	ST. CLAIR SPRING NEAR NEW MARKET, AL I 53	1969-11-19	1969-11-19	1	Spring	34.83786659	-86.410822
USGS	03575150	HURRICANE CREEK AB MOLDER BRANCH NR MAYSVILLE AL	1969-10-24	1974-11-07	6	River/Stream	34.80203346	-86.40332149
USGS	03575151	SNEED SPRING NEAR MAYSVILLE, AL J 1	1969-11-20	1970-10-23	2	Spring	34.8300882	-86.3510985
USGS	0357515130	SHARP SPRING NR MAYSVILLE, ALA	1969-11-20	1970-10-23	3	Spring	34.80897736	-86.364154
USGS	03575152	MURPHY SPRING NEAR MAYSVILLE AL L 85	1969-11-19	1973-09-21	7	Spring	34.79925537	-86.3777654
USGS	03575153	MOULDER BRANCH NR MAYSVILLE, ALA	1969-10-24	1970-10-23	2	River/Stream	34.79786646	-86.37554309
USGS	03575155	UNNAMED TRIB TO HURRICANE C NR MAYSVILLE, ALA	1969-10-24	1969-10-24	1	River/Stream	34.7909225	-86.40971039

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575157	HURRICANE CREEK NEAR MAYSVILLE AL	1961-10-10	1974-11-06	9	River/Stream	34.755367	-86.3922097
USGS	03575185	KILLINGSWORTH COVE BRANCH NR GURLEY, ALA	1969-10-20	1969-10-20	1	River/Stream	34.74370006	-86.3719314
USGS	03575193	(L 96) BEASON SPRING NR GARLEY	1970-10-22	1974-11-07	5	Spring	34.73842235	-86.3760981
USGS	03575200	HURRICANE CREEK NEAR GURLEY AL	1952-11-14	1962-10-23	5	River/Stream	34.70925609	-86.3997095
USGS	03575205	BLAIR SPRING AT GURLEY, AL S 59	1969-11-21	1970-10-23	3	Spring	34.68731126	-86.37332
USGS	03575210	HURRICANE CREEK WEST OF GURLEY AL	1943-12-04	1973-09-18	6	River/Stream	34.69814524	-86.4152653
USGS	03575220	FLINT RIVER BL HURRICANE C NR GURLEY, ALA	1971-11-09	1971-11-09	1	River/Stream	34.68231216	-86.4299878
USGS	03575225	GRAYSON SPRING NEAR GURLEY AL S 40	1970-10-22	1973-09-19	3	Spring	34.6814787	-86.4222098
USGS	03575230	FLINT RIVER BL GRAYSON SPG NR GURLEY, ALA	1971-10-12	1971-11-09	2	River/Stream	34.6795343	-86.425821
USGS	03575235	FLINT RIVER AT ADAIR FORD NR GURLEY, ALA	1971-11-09	1971-11-09	1	River/Stream	34.6709233	-86.4310989
USGS	03575245	FLINT RIVER ABV OLD U.S. HWY 431 NR GURLEY, ALA	1971-11-10	1971-11-10	1	River/Stream	34.65592344	-86.4388767
USGS	03575250	FLINT RIVER NEAR GURLEY AL	1948-06-10	1971-11-09	7	River/Stream	34.70925609	-86.3997095
USGS	03575252	ESSLINGER SPRING NEAR OWENS CROSSROADS AL S 41	1970-10-22	1973-09-19	4	Spring	34.6478678	-86.4347099
USGS	03575258	BRAZELTON CAVE SP NR OWENS CROSSROADS AL U 110	1970-10-22	1970-10-22	1	Spring	34.63092327	-86.4266541
USGS	03575260	GOOSE CREEK NEAR BERKLEY AL	1943-12-01	1970-10-22	7	River/Stream	34.6300903	-86.4519324
USGS	0357526200	BIG COVE CREEK AT DUG HILL ROAD NR HUNTSVILLE, AL.	1999-06-29	2000-11-09	4	River/Stream	34.70481325	-86.512212
USGS	03575265	DRAKE SPRING NEAR OWENS CROSSROADS, AL R 71	1969-11-21	1970-10-22	2	Spring	34.6920353	-86.4911002
USGS	03575270	BIG COVE C AT NUNN STORE NR OWENS CROSSROADS, AL	1943-12-01	1969-10-20	6	River/Stream	34.65981295	-86.4791554
USGS	03575272	PEEVEY CREEK NEAR GURLEY, ALA	2009-04-14	2009-04-14	1	River/Stream	34.68203467	-86.44832149

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575275	ROBINSON MILL CREEK NEAR OWENS CROSS ROADS AL	1969-10-20	1973-09-19	4	River/Stream	34.66036818	-86.4583216
USGS	03575280	FLINT RIVER NEAR BIG COVE AL	1958-06-12	1973-09-20	37	River/Stream	34.63814615	-86.4688773
USGS	03575330	FLINT RIVER AT OWEN CROSS ROADS AL	1969-10-23	1974-11-07	6	River/Stream	34.5939795	-86.4683215
USGS	03575340	GLOVER COVE CREEK NEAR OWENS CROSS ROADS AL	1971-07-15	1974-04-02	11	River/Stream	34.6042564	-86.4135981
USGS	03575343	BAKER SPRING NEAR OWENS CROSSROADS, AL U 83	1969-11-14	1969-11-14	1	Spring	34.60203439	-86.4249873
USGS	03575348	GLOVER COVE CREEK AT OWENS CROSSROADS, ALA	1943-12-01	1969-10-23	6	River/Stream	34.59259048	-86.4588768
USGS	03575350	FLINT RIVER WEST OF OWENS CROSSROADS, ALA	1953-07-21	1953-07-21	1	River/Stream	34.58703504	-86.4660992
USGS	03575363	GRAYSON SPRING NEAR OWENS CROSSROADS, AL V 70	1969-11-14	1969-11-14	1	Spring	34.59203539	-86.4891553
USGS	03575370	BRAZELTON SPRING NEAR OWENS CROSSROADS, AL V 71	1969-11-14	1971-10-19	4	Spring	34.58120197	-86.4824884
USGS	03575372	ROCK SPRING NEAR OWENS CROSSROADS, AL V 72	1969-11-14	1972-04-26	4	Spring	34.5775908	-86.4788772
USGS	03575390	YELLOW BANK C NR OWENS CROSSROADS, ALA	1943-12-01	1969-10-23	6	River/Stream	34.5489793	-86.4524876
USGS	03575400	FLINT RIVER NEAR OWENS CROSSROADS AL	1970-10-23	1974-11-07	4	River/Stream	34.53620214	-86.4910995
USGS	03575408	ASHBURN SPRING NEAR OWENS CROSSROADS, AL Y 5	1969-11-14	1969-11-14	1	Spring	34.52509126	-86.5136002
USGS	03575450	TENNESSEE RIVER NEAR HOBBS ISLAND, AL.	1971-06-09	1971-09-02	2	River/Stream	34.52953587	-86.544157
USGS	03575470	(V 73) WHITE SPRING NR FARLEY	1969-11-14	1969-11-14	1	Spring	34.56953577	-86.5422127
USGS	03575480	HUNTSVILLE WATER SUPPLY- WHEELER LAKE	1971-06-09	1971-09-19	3	River/Stream	34.56925805	-86.5538798
USGS	03575500	TENNESSEE RIVER AT WHITESBURG AL	NA	2005-09-14	247	River/Stream	34.57175806	-86.5580466
USGS	03575686	ALDRIDGE CREEK AT DUNSMORE ST AT HUNTSVILLE AL	1971-02-26	1973-09-01	6	River/Stream	34.7042577	-86.5524913
USGS	0357568650	ALDRIDGE CREEK AT TONEY DRIVE AT HUNTSVILLE, AL.	1999-06-28	2003-05-06	2	River/Stream	34.6981466	-86.5505467

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575687	ALDRIDGE C NR JONES VALLEY SCHOOL NR HUNTSVILLE, ALA	1960-11-02	1961-10-10	3	River/Stream	34.6956466	-86.5497134
USGS	03575688	ALDRIDGE CREEK BELOW HUNTSVILLE, ALA	1960-11-02	1961-10-10	3	River/Stream	34.6870355	-86.5486022
USGS	0357568820	MARTIN HOLLOW NEAR HUNTSVILLE, AL.	1960-11-02	2003-05-06	4	River/Stream	34.68536886	-86.5452687
USGS	0357568840	UNNAMED TRIB TO UNNAMED TRIB TO ALDRIDGE C NR HUNT	1960-11-02	1961-10-10	3	River/Stream	34.68675775	-86.5458243
USGS	0357568850	ALDRIDGE C BL UNNAMED TRIB BL HUNTSVILLE, ALA	1960-11-02	1961-10-10	3	River/Stream	34.68425776	-86.5491577
USGS	0357568870	UNNAMED TRIB TO ALDRIDGE NR HUNTSVILLE, ALABAMA	1961-04-18	1980-11-02	3	River/Stream	34.67564667	-86.5494355
USGS	0357568880	UNNAMED TRIB TO UNNAMED TRIB TO ALDRIDGE C	1960-11-02	1961-10-10	3	River/Stream	34.67564667	-86.5486021
USGS	0357568890	ALDRIDGE C ABV FOUR MILE POST ROAD NR HUNTSVILLE	1960-11-02	1961-10-10	3	River/Stream	34.67481334	-86.5491577
USGS	03575689	ALDRIDGE C BL FOUR MILE POST RD NR HUNTSVILLE, A	1960-11-02	1961-10-10	3	River/Stream	34.6692578	-86.5522134
USGS	0357568930	UNNAMED TRIB TO ALDRIDGE C NR HUNTSVILLE, ALA	1960-11-02	1961-10-10	3	River/Stream	34.66870225	-86.5527689
USGS	0357568980	ALDRIDGE C AT SHERWOOD DR NR HUNTSVILLE, ALA	1961-10-10	2003-05-06	3	River/Stream	34.6642578	-86.5541579
USGS	03575690	ALDRIDGE CREEK ABOVE LILY FLAGG, ALA	1960-11-02	1961-10-10	3	River/Stream	34.6606467	-86.5547134
USGS	0357569030	UNNAMED SPG BRANCH TRIB TO ALDRIDGE C	1960-11-02	1961-10-10	3	River/Stream	34.66120227	-86.5541579
USGS	0357569080	UNNAMED TRIB TO ALDRIDGE C NR LILY FLAGG	1960-11-02	1961-10-10	3	River/Stream	34.6545356	-86.5463798
USGS	03575691	ALDRIDGE C ABV WEATHERLY RD NR LILY FLAGG, ALA	1960-11-02	1961-10-10	3	River/Stream	34.64648005	-86.5424907
USGS	0357569180	ALDRIDGE C ABV ESSLINGER SPG BRANCH NR LILY FLAG	1960-11-02	1961-10-10	3	River/Stream	34.63898007	-86.5411017
USGS	0357569350	UNNAMED TRIB TO ESSLINGER SPG BRANCH BL LILY FLA	1960-11-02	1961-10-10	3	River/Stream	34.6370356	-86.53971279
USGS	03575694	ESSLINGER SPRING BRANCH NR LILY FLAGG, ALA	1960-11-02	1961-10-10	3	River/Stream	34.6370356	-86.5408239
USGS	03575695	ALDRIDGE C BL ESSLINGER SPG BRANCH NR LILY FLAGG	1960-11-02	1961-10-10	3	River/Stream	34.63675785	-86.5411017

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575696	ALDRIDGE NEAR LILY FLAGG AL	1969-10-24	1975-01-09	36	River/Stream	34.62898008	-86.5397128
USGS	03575697	ALDRIDGE CREEK BELOW LILY FLAGG, ALA	1960-11-02	1961-10-10	5	River/Stream	34.6275912	-86.5391572
USGS	03575700	ALDRIDGE CREEK NEAR FARLEY AL	1960-11-02	1986-12-09	50	River/Stream	34.6239801	-86.54110169
USGS	03575730	ALDRIDGE CREEK AT FARLEY AL	1943-12-01	1973-09-18	12	River/Stream	34.59509129	-86.545824
USGS	03575734	ALDRIDGE CREEK NEAR WHITESBURG AL	1943-12-01	1974-11-07	12	River/Stream	34.58370247	-86.5561022
USGS	03575736	TENNESSEE RIVER AT FARLEY AL	1971-06-10	1971-09-20	2	River/Stream	34.5764803	-86.5691582
USGS	03575760	KELLY SPRING NEAR HARVEST AL O 3	1929-07-12	1989-09-20	12	Spring	34.81508948	-86.7094419
USGS	03575780	INDIAN CREEK NEAR MONROVIA AL	1952-11-18	1989-08-09	9	River/Stream	34.7867567	-86.7124974
USGS	03575784	NICHOLS SPRING NEAR HARVEST, AL O 100	1969-11-13	1989-08-09	5	Spring	34.7825901	-86.720831
USGS	03575788	DUPREE BRANCH NEAR HARVEST AL	1969-10-20	1989-08-09	7	River/Stream	34.77731247	-86.714164
USGS	03575805	DRY CREEK NR HUNTSVILLE, ALA	1952-11-18	1989-08-09	6	River/Stream	34.78620124	-86.6819407
USGS	03575808	DRY CREEK NEAR MADISON AL	1969-10-20	1973-09-19	5	River/Stream	34.75703515	-86.6858296
USGS	03575810	INDIAN CREEK AT US HWY 72 NEAR HUNTSVILLE AL	1969-10-20	1975-08-06	8	River/Stream	34.7500908	-86.6974966
USGS	03575811	BEASLEY SPRING NEAR MADISON, AL O 99	1957-05-16	1969-11-13	2	Spring	34.7489797	-86.6966632
USGS	03575829	UNNAMED TRIB TO INDIAN C NR MADISON, ALA	1969-10-24	1969-10-24	1	River/Stream	34.69786896	-86.7069414
USGS	03575830	INDIAN CREEK NEAR MADISON AL	1959-08-19	2002-10-08	401	River/Stream	34.6973134	-86.6999967
USGS	03575849	INDIAN CREEK 400 FT AB MARTIN RD NR MADISON AL	1969-10-23	1982-11-02	14	River/Stream	34.6462026	-86.6866629
USGS	0357584950	WILLIAMS SPRING NR HUNTSVILLE, ALA	1929-07-13	1973-09-18	9	River/Stream	34.63953598	-86.6861073
USGS	03575850	INDIAN CREEK AT MARTIN RD NEAR HUNTSVILLE AL	1943-12-06	1973-09-27	12	River/Stream	34.64536928	-86.6858295

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575851	INDIAN C 700 FT BL MARTIN RD NR HUNTSVILLE AL	1971-06-10	1974-11-07	5	River/Stream	34.6437026	-86.6866629
USGS	03575860	BIG SPRING AT HUNTSVILLE AL N 185	1957-02-05	1983-08-31	63	Spring	34.7295354	-86.5866592
USGS	03575866	MONTEDALE SPRING AT HUNTSVILLE, AL R 94	1957-02-01	1969-10-20	2	Spring	34.72647988	-86.5569359
USGS	0357586650	FAGAN CREEK AT ADAMS STREET AT HUNTSVILLE, AL.	2003-05-06	2003-05-06	1	River/Stream	34.722591	-86.5749921
USGS	03575867	FAGAN C AT GALLATIN ST IN HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.7237021	-86.58304799
USGS	03575868	FAGAN CREEK AT HUNTSVILLE AL	1969-10-20	1974-11-08	6	River/Stream	34.7248132	-86.58777039
USGS	03575870	FAGAN CREEK AT MOUTH IN HUNTSVILLE, ALA	1969-10-20	1972-04-19	4	River/Stream	34.72425767	-86.5913816
USGS	03575871	MIDDLE FORK PINHOOK C AT MEDARIS RD AT HUNTSVILL	1969-10-20	1983-08-30	2	River/Stream	34.78759027	-86.5969378
USGS	0357587110	BLUE SPRING AT HUNTSVILLE, ALA	1952-04-23	1958-11-10	37	Spring	34.78675695	-86.5963822
USGS	0357587140	EAST FORK PINHOOK CR AT WINCHESTER RD AT HUNTSVIL	2003-05-06	2003-05-08	2	River/Stream	34.79286797	-86.5891598
USGS	0357587150	EAST FORK PINHOOK C AT MEDARIS RD AT HUNTSVILLE,	1969-10-20	1969-10-20	1	River/Stream	34.7873125	-86.5919376
USGS	0357587170	HARRIS SPRING AT HUNTSVILLE, ALA	1952-04-23	1970-10-22	35	Spring	34.7820348	-86.5944377
USGS	03575872	WEST FORK PINHOOK C AT BLUE SPGS RD AT HUNTSV'LE	1973-03-16	1973-03-16	1	River/Stream	34.78842358	-86.5988823
USGS	03575873	WEST FORK PINHOOK C AT TIMBERCREST DR AT HUNTSV'	1969-10-20	1969-10-20	1	River/Stream	34.77453494	-86.5936042
USGS	0357587400	PINHOOK C AT MASTIN LAKE RD AT HUNTSVILLE, ALA	1969-10-20	2003-05-06	4	River/Stream	34.77147944	-86.5922153
USGS	03575875	UNNAMED TRIB TO PINHOOK C AT HUNTSVILLE, ALA	1969-10-20	1973-03-16	2	River/Stream	34.76203516	-86.5861038
USGS	0357587550	PINHOOK C AT ABINGDON AVE AT HUNTSVILLE, ALA	1949-01-05	1949-01-05	1	River/Stream	34.74564648	-86.5908261
USGS	03575876	DALLAS BRANCH 600 FT ABV HAYNES AVE AT HUNTSVILL	1973-03-16	1973-03-16	1	River/Stream	34.7567575	-86.5552694
USGS	03575877	DALLAS BRANCH AT MAYSVILLE RD AT HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.7464798	-86.5644363

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	0357587728	DALLAS BRANCH AT COLEMAN ST IN HUNTSVILLE, AL	1984-10-22	2003-05-06	4	River/Stream	34.74564649	-86.5741588
USGS	0357587730	DALLAS BRANCH AT ANDREW JACKSON WAY AT HUNTSVILL	1949-01-05	1949-01-05	1	River/Stream	34.74592427	-86.5763811
USGS	03575878	DALLAS BRANCH AT HUNTSVILLE AL	1969-10-20	1973-09-18	5	River/Stream	34.74231316	-86.5888816
USGS	0357587880	PINHOOK C AT TRAYLOR ISLAND AT HUNTSVILLE, ALA	1975-08-19	1975-08-19	1	River/Stream	34.7334243	-86.5966596
USGS	03575880	FIVE POINTS DITCH AT HUNTSVILLE AL	1969-12-30	1971-09-17	6	Ditch	34.73842429	-86.583048
USGS	03575888	PINHOOK CREEK AT HOLMES AVE AT HUNTSVILLE AL	1948-06-05	1973-09-18	7	River/Stream	34.73009098	-86.5944373
USGS	03575890	PINHOOK CREEK AT CLINTON AVE. AT HUNTSVILLE, AL.	1967-07-12	2003-05-08	21	River/Stream	34.72759099	-86.5933262
USGS	03575895	HUNTSVILLE SPG BRANCH AT SEARS DR AT HUNTSVILLE,	1941-01-23	1974-11-07	10	River/Stream	34.722591	-86.5924928
USGS	03575910	PINE HAVEN DITCH AT HUNTSVILLE AL	1969-12-30	1972-09-27	3	Ditch	34.76759056	-86.6313833
USGS	0357591500	BROGLAN BRANCH AT OAKWOOD AVENUE AT HUNTSVILLE, AL	2003-05-06	2003-05-06	1	River/Stream	34.7495353	-86.62527179
USGS	03575920	DRY CREEK AT GRIZZARD RD AT HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.76453505	-86.6430503
USGS	03575923	DRY CREEK AT HUNTSVILLE, ALA	1969-10-20	1969-10-20	1	River/Stream	34.75231306	-86.6369389
USGS	03575930	BROGLAN BRANCH AT HOLMES AVE AT HUNTSVILLE AL	1971-02-26	1974-02-12	6	River/Stream	34.72925765	-86.60860449
USGS	03575933	BROGLAN BRANCH AT CLINTON AVE IN HUNTSVILLE,AL	1986-11-20	2003-05-06	4	River/Stream	34.72342434	-86.6016598
USGS	03575935	BROGLAN BRANCH AT HUNTSVILLE AL	1969-10-24	1973-09-18	5	River/Stream	34.71981324	-86.5952707
USGS	03575938	HUNTSV'LE SPG BRNCH BL GOVERNORS DR AT HUNTSVILL	1949-01-03	1949-01-03	1	River/Stream	34.71453548	-86.5938817
USGS	03575940	HUNTSV'LE SPG BRANCH AT DRAKE AVE AT HUNTSVILLE,	1973-03-16	1973-03-16	1	River/Stream	34.70536885	-86.594715
USGS	03575944	BRAHAN SPRING AT HUNTSVILLE, AL Q 161	1948-10-14	1971-10-14	50	Spring	34.70647996	-86.6002708
USGS	03575945	WEST HUNTSVILLE SPRING AT HUNTSVILLE, AL Q 200	1949-07-16	1969-10-24	2	Spring	34.71509104	-86.6124935

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575948	MERRIMAC BRANCH AT HUNTSVILLE, ALA	1969-10-24	1974-11-08	7	River/Stream	34.6984244	-86.5963818
USGS	03575950	HUNTSVILLE SP BR AT JOHNSON ROAD, HUNTSVILLE AL	1948-06-07	2016-01-27	57	River/Stream	34.6900911	-86.5963817
USGS	03575954	SIVLEY SPRING AT HUNTSVILLE, AL Q 210	1974-07-17	1974-07-17	1	Spring	34.6795356	-86.5941594
USGS	03575955	HUNTSVILLE SP BR AB SEWAGE PLANT, HUNTSVILLE AL	1972-02-22	1973-09-26	10	River/Stream	34.67786896	-86.6008263
USGS	03575956	HUNTSVILLE SPG BRANCH BL SEWER PLT NR HUNTSVILLE, AL	1972-09-14	1972-09-14	1	River/Stream	34.66842455	-86.60138189
USGS	03575960	HUNTSVILLE SP BR AT MARTIN RD NEAR HUNTSVILLE AL	1948-06-05	1983-08-31	23	River/Stream	34.6592579	-86.6044375
USGS	03575963	BYRD SPRING AT HUNTSVILLE, AL Q 169	1949-01-14	1971-10-14	46	Spring	34.66453564	-86.58221449
USGS	03575970	BYRD SPRING CREEK AT HUNTSVILLE, ALA	1970-10-23	1972-04-19	3	River/Stream	34.64592464	-86.6013818
USGS	03575974	MC DONALD C AT TECHNOLOGY DR AT HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.71953547	-86.6486059
USGS	03575976	UNNAMED TRIB #1 TO MCDONALD C AT HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.71397995	-86.6547173
USGS	03575977	BOILING SPRING AT HUNTSVILLE, AL Q 196	1967-08-17	1968-10-16	11	Spring	34.7259243	-86.6424946
USGS	03575980	MCDONALD CREEK AT PATTON ROAD NR HUNTSVILLE AL	1969-10-24	1989-06-22	9	River/Stream	34.69259115	-86.627494
USGS	03575983	MC DONNELL C ABV CENTAUR BLVD AT HUNTSVILLE, ALA	1973-03-16	1973-03-16	1	River/Stream	34.68981338	-86.6230494
USGS	03575987	MC DONNELL C AT HANSEN RD NR HUNTSVILLE, ALA	1973-09-27	1973-09-27	1	River/Stream	34.67814676	-86.6191604
USGS	03575992	MCDONNELL C BL SEWAGE PLANT #4 NR HUNTSVILLE AL	1973-09-27	1973-09-27	1	River/Stream	34.66648014	-86.6172158
USGS	03575994	MCDONNELL CREEK AT MARTIN RD AT HUNTSVILLE AL	1970-10-22	1986-07-22	7	River/Stream	34.6534246	-86.6127712
USGS	03576000	HUNTSVILLE SPRING BR PATTON RD NR HUNTSVILLE AL	1970-10-22	1973-09-18	7	River/Stream	34.625647	-86.6294384
USGS	03576020	HUNTSVILLE SPRING BR DODD RD NEAR HUNTSVILLE AL	1970-10-22	1973-09-21	3	River/Stream	34.61898049	-86.6649954
USGS	03576060	BRADFORD CREEK AT MADISON, ALA	1952-11-14	1970-10-19	6	River/Stream	34.6923134	-86.7722217

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576062	BETTS SPRING NEAR MADISON, AL P 34	1969-11-13	1973-09-18	6	Spring	34.7206465	-86.7630546
USGS	03576075	BOILING SPRING AT MADISON, AL P 33	1963-01-09	1971-10-20	4	Spring	34.67981355	-86.7627769
USGS	03576080	BRADFORD CREEK NR MADISON, ALA	1943-12-06	1973-09-18	6	River/Stream	34.66286927	-86.7569433
USGS	03576082	BRADFORD CREEK AT JAMES RECORD RD NR MADISON AL	1971-10-25	1973-09-28	3	River/Stream	34.65148048	-86.7527765
USGS	03576086	BRADFORD CREEK BELOW SEWAGE LAGOON NR MADISON AL	1973-09-28	1973-09-28	1	River/Stream	34.64481387	-86.749443
USGS	03576089	LOWE SPRING NEAR MADISON, AL P 73	1971-03-24	1971-03-24	1	Spring	34.66509146	-86.7352758
USGS	03576090	BETTS SPRING BRANCH NEAR MADISON AL	1969-10-24	1973-09-18	6	River/Stream	34.64814716	-86.7422206
USGS	03576100	MILLER BRANCH NEAR TRIANA AL	1969-10-23	1973-09-18	6	River/Stream	34.6217585	-86.7563878
USGS	03576110	BARREN FORK CREEK NEAR TRIANA AL	1969-10-23	1974-11-08	5	River/Stream	34.61453629	-86.7349981
USGS	03576145	HUGHES SPRING NR MORGAN CITY, ALA	1968-05-02	1975-04-07	9	Spring	34.41703758	-86.5938813
USGS	03576146	WEST FORK COTACO CREEK NR FLORETTE, ALA	1952-07-31	1964-08-10	6	River/Stream	34.38564964	-86.6630508
USGS	03576148	COTACO CREEK AT FLORETTE AL	1943-12-08	1980-09-18	136	River/Stream	34.4137049	-86.687774
USGS	03576150	COTACO CREEK NEAR FLORETTE AL	1962-10-29	1965-05-11	8	River/Stream	34.43898237	-86.7008301
USGS	03576175	K 1 CAVE SPRING	1968-05-03	1982-11-02	16	Spring	34.54620388	-86.8511141
USGS	03576198	UNNAMED TRIB TO LIMESTONE C NR TONEY, ALA	1969-10-23	1969-10-23	1	River/Stream	34.9698085	-86.707776
USGS	03576200	LIMESTONE CREEK AT BOBO AL	1952-11-18	1972-08-28	19	River/Stream	34.96203085	-86.713054
USGS	03576201	LIMESTONE CREEK NEAR BOBO AL	1969-10-23	1973-09-17	5	River/Stream	34.9550865	-86.719443
USGS	03576206	LIMESTONE CREEK AT TONEY AL	1969-10-23	1989-08-09	6	River/Stream	34.91425395	-86.730832
USGS	03576207	LIMESTONE CR AT SHADY GROVE CH NR TONEY, AL.	1999-05-11	1999-09-14	2	River/Stream	34.91619825	-86.7486103

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576208	LIMESTONE CREEK NEAR TONEY AL	1969-10-24	1973-09-17	5	River/Stream	34.87008805	-86.764444
USGS	0357620810	UNNAMED SPRING NR TONEY, ALA	1969-12-04	1969-12-04	1	Spring	34.92758677	-86.7655554
USGS	03576209	DAVIS BRANCH NR PINE DALE, ALA	1969-10-24	1969-10-24	1	River/Stream	34.97730777	-86.7836118
USGS	03576210	LITTLE LIMESTONE CREEK NR PINE DALE, ALA	1961-10-12	1972-08-28	7	River/Stream	34.9625857	-86.8094459
USGS	03576215	LITTLE LIMESTONE CREEK AT BETHEL AL	1952-12-18	1970-10-19	6	River/Stream	34.9331419	-86.8069458
USGS	03576218	TYRONE CREEK NR PINE DALE, ALA	1969-10-24	1969-10-24	1	River/Stream	34.97730789	-86.7655556
USGS	03576220	TYRONE CREEK NEAR BETHEL, AL.	1952-11-18	1989-08-09	15	River/Stream	34.93341984	-86.7866673
USGS	03576225	LITTLE LIMESTONE CREEK BL TYRONE CR NR TONEY, AL.	1971-10-14	1989-08-09	5	River/Stream	34.90369826	-86.7888895
USGS	03576226	LITTLE LIMESTONE CR NEAR TONEY, ALABAMA	1999-05-11	1999-09-14	2	River/Stream	34.90175388	-86.78638939
USGS	03576229	LIMESTONE C AT MADISON COUNTY LINE NR TONEY AL	1969-10-24	1973-09-17	5	River/Stream	34.88425428	-86.7833337
USGS	03576230	UNNAMED SPRING NR HARVEST, ALA	1969-12-04	1969-12-04	1	Spring	34.8800877	-86.7825003
USGS	03576235	LESLIE BRANCH NEAR HARVEST AL	1969-10-24	1989-08-09	6	River/Stream	34.85397717	-86.7844447
USGS	03576236	LOVE DITCH NR HARVEST, ALA	1969-10-24	1989-08-09	2	Ditch	34.851755	-86.78472249
USGS	03576245	COPPERRUN BRANCH AT CAPSHAW, AL.	1969-10-24	1989-08-09	6	River/Stream	34.77314557	-86.7952782
USGS	03576247	KNOX CREEK AT CAPSHAW AL	1969-10-24	1974-11-06	6	River/Stream	34.7595348	-86.7858333
USGS	03576250	LIMESTONE CREEK NEAR ATHENS AL	1961-09-22	2018-08-07	238	River/Stream	34.751757	-86.8233348
USGS	03576260	LIMESTONE CREEK (EAST CHANNEL) NR GREENBRIER, AL.	1994-10-26	1995-11-29	5	River/Stream	34.6995352	-86.8691701
USGS	03576262	LIMESTONE CREEK (WEST CHANNEL) NR GREENBRIER, AL.	1994-10-26	1995-11-29	6	River/Stream	34.6917575	-86.8763927
USGS	03576300	BEAVERDAM CREEK NEAR GREENBRIER AL	1943-12-06	1956-10-16	5	River/Stream	34.67009129	-86.8169458

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576335	PINEY CREEK AT L&N RAILROAD AT ARDMORE, ALA	1948-06-04	1948-06-04	1	River/Stream	34.98369605	-86.8519473
USGS	03576345	PINEY CREEK NR BETHEL, ALA	1952-11-18	1952-11-18	1	River/Stream	34.9186976	-86.8394468
USGS	03576347	PINEY CREEK BELOW ARDMORE, ALA	1948-06-04	1948-06-04	1	River/Stream	34.9039757	-86.84028019
USGS	03576350	PINEY CREEK NEAR REUNION AL	1967-04-20	1967-10-24	2	River/Stream	34.8898091	-86.8750036
USGS	03576355	GRAVEL BRANCH NR ELKMONT, ALA	1967-04-20	1967-10-24	2	River/Stream	34.90480876	-86.8791705
USGS	03576370	LITTLE PINEY CREEK NR ELKMONT, ALA	1967-04-20	1967-10-24	2	River/Stream	34.89092	-86.908616
USGS	03576390	PINEY CREEK AT ATHENS AL	1952-11-17	1967-10-24	3	River/Stream	34.82869928	-86.8947266
USGS	03576395	PANTHER BRANCH AT SARDIS SPRINGS, ALA	1948-12-15	1967-10-23	3	River/Stream	34.83481037	-86.87583699
USGS	03576400	PINEY CREEK NEAR ATHENS AL	1959-08-20	1968-10-17	116	River/Stream	34.8028666	-86.8833373
USGS	03576405	PINEY CREEK AT COUNTY RD NR ATHEN, ALABAMA	1999-05-11	1999-09-13	2	River/Stream	34.78842245	-86.8897264
USGS	03576410	FRENCH MILL CREEK NEAR FRENCH MILL AL	1952-11-17	1956-10-03	4	River/Stream	34.75592315	-86.8950044
USGS	03576418	PINEY CREEK WEST OF BELLE MINA, ALA	1943-12-06	1943-12-06	1	River/Stream	34.6573135	-86.9008382
USGS	03576420	PINEY CREEK NEAR BELLE MINA AL	1952-11-14	1956-10-16	4	River/Stream	34.6500914	-86.8938935
USGS	03576460	FLINT CREEK NEAR LACON AL	1943-12-07	1952-11-13	2	River/Stream	34.30898614	-86.893893
USGS	03576475	MILL CREEK NR WILHITES, ALA	1943-12-07	1952-11-13	2	River/Stream	34.3173193	-86.89528199
USGS	03576500	FLINT CREEK NEAR FALKVILLE AL	1952-08-14	2018-08-08	378	River/Stream	34.37315189	-86.933617
USGS	03576560	UNNAMED TRIB TO SHOAL C NR HARTSELLE, ALA	1963-07-23	1963-07-23	1	River/Stream	34.44870565	-86.8905601
USGS	03576570	UNNAMED TRIB TO SHOAL C AT HARTSELLE, ALA	1963-07-23	1963-07-23	1	River/Stream	34.44898359	-86.9169501
USGS	03576580	TOWN BRANCH AT HARTSELLE, ALA	1963-07-23	1963-07-23	1	River/Stream	34.43398394	-86.9252837

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576640	FLINT CREEK NR HARTSELLE, ALA	1952-01-28	1978-02-16	3	River/Stream	34.4059293	-86.9766745
USGS	03576720	NO BUSINESS CREEK NEAR HARTSELLE AL	1940-12-28	1956-10-30	18	River/Stream	34.45898387	-86.9969534
USGS	03576820	ELAM CREEK NR FIVE POINTS, ALA	1943-12-07	1952-11-14	2	River/Stream	34.4648177	-87.19585
USGS	03577000	WEST FLINT CREEK NEAR OAKVILLE AL	1965-10-06	1998-10-22	50	River/Stream	34.4764839	-87.1416814
USGS	03577090	MUD TAVERN CREEK NR WOLFTOWN, ALA	1952-11-14	1952-11-14	1	River/Stream	34.53176028	-87.0811237
USGS	03577120	FLINT CREEK NR DECATUR, ALA	1933-10-12	1933-10-12	1	River/Stream	34.547593	-86.9358399
USGS	03577150	TENNESSEE RIVER AT DECATUR AL	1925-10-07	1958-06-02	119	River/Stream	34.6131475	-86.9738969
USGS	03577165	PRYOR BRANCH NEAR BELLE MINA AL	1952-11-14	1952-11-14	1	River/Stream	34.65870225	-86.9719523
USGS	03577192	MUDDY CREEK AT PINE CHAPEL, ALA	1967-10-24	1967-10-24	1	River/Stream	34.8575872	-86.9427839
USGS	03577194	SWAN CREEK NEAR PINEY CHAPEL AL	1967-04-20	1967-10-24	2	River/Stream	34.83203219	-86.9513954
USGS	03577198	SWAN CREEK AT OLD U.S. HWY 31 NR ATHENS, ALA	1941-01-23	1967-10-24	6	River/Stream	34.81036608	-86.9416729
USGS	03577200	SWAN CREEK NEAR ATHENS AL	1962-10-19	1965-05-07	10	River/Stream	34.79647745	-86.9511177
USGS	03577202	SWAN CREEK AT US HWY 72 NEAR ATHENS AL	1952-11-17	1967-10-24	4	River/Stream	34.78481107	-86.948062
USGS	03577213	UNNAMED TRIB TO TOWN CREEK AT ATHENS, ALA	1967-10-24	1967-10-24	1	River/Stream	34.8200878	-86.9872302
USGS	03577220	TOWN CREEK NEAR ATHENS AL	1952-11-17	1972-08-28	12	River/Stream	34.7828666	-86.9563958
USGS	03577225	SWAN CREEK BELOW ATHENS, ALA	1967-04-19	2018-08-07	65	River/Stream	34.7639782	-86.9463954
USGS	03577250	SWAN CREEK AT TANNER, ALA	1948-06-04	1972-08-25	4	River/Stream	34.7309233	-86.94361759
USGS	03577280	SWAN CREEK NEAR WHITESIDE AL	1948-06-04	1973-12-06	7	River/Stream	34.688424	-86.9536181
USGS	03577490	ROUND ISLAND CREEK NEAR LAWSON, ALABAMA	1999-05-19	1999-09-13	2	River/Stream	34.7523113	-87.0730672

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03577500	ROUND ISLAND CREEK AT PROCTOR AL	1943-12-06	1963-10-22	4	River/Stream	34.7139788	-87.0519554
USGS	03585528	G 39 WHEELER SPRING	1968-05-02	1982-11-01	17	Spring	34.65231316	-87.2519635
USGS	03585639	SIMPSON BRANCH NR ROGERSVILLE, ALA	1940-07-08	1940-07-08	1	River/Stream	34.83647545	-87.3380761
USGS	03585640	FIRST CREEK NEAR ROGERSVILLE AL	1946-12-06	1965-08-26	8	River/Stream	34.8339755	-87.3250202
USGS	03585800	SECOND CREEK NEAR LEXINGTON AL	1962-10-19	1965-05-11	10	River/Stream	34.9700835	-87.3336306
USGS	03585900	SECOND CREEK NEAR WHITEHEAD AL	1943-12-06	1955-03-21	5	River/Stream	34.88508538	-87.37391
USGS	345248086285501	MCGEEHEE SPRING NEAR NEW MARKET, AL	1999-07-08	2001-02-14	13	Spring	34.88008904	-86.4819352

Table A- 9. All surface water monitoring stations measuring peak discharge in the RHI. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
03574100	ESTILL FORK AT ESTILLFORK AL	2015-12-25	2017-01-23	2	River/Stream	34.91	-86.1683333
03574405	LITTLE DRY CREEK NEAR GARTH AL	1972-01-04	1973-12-26	3	River/Stream	34.74258816	-86.3224859
03574500	PAINT ROCK RIVER NEAR WOODVILLE AL	1936-02-04	2017-01-24	82	River/Stream	34.6242547	-86.3063737
03574700	BIG HUCKLEBERRY CR NR BELVIDERE TENN.	1955-03-21	1974-03-21	20	River/Stream	35.0667523	-86.3580454
03574796	WALKER BRANCH NEAR PLEVNA AL	1902-03-28	1974-11-19	74	River/Stream	34.9653656	-86.4458243
0357479650	HESTER CREEK AT BUDDY WILLIAMSON RD NR PLEVNA, AL	1999-01-23	2016	18	River/Stream	34.96092128	-86.4636024

Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
03574840	MORRIS BRANCH NEAR TONEY AL	1971-06-05	1975-01-10	5	River/Stream	34.89925446	-86.6986087
03574872	STRAIGHT DITCH AT HUNTSVILLE AL	1971-07-15	1975-03-29	5	Ditch	34.82342319	-86.535825
03575000	FLINT RIVER NEAR CHASE AL	1929-09-01	1994-02-11	64	River/Stream	34.82286756	-86.4830456
03575100	FLINT RIVER AT BROWNSBORO, AL.	1999-01-23	2017-08-10	19	River/Stream	34.7492568	-86.4466551
0357526200	BIG COVE CREEK AT DUG HILL ROAD NR HUNTSVILLE, AL.	1996-12-01	2017-08-10	21	River/Stream	34.70481325	-86.512212
03575272	PEEVEY CREEK NEAR GURLEY, ALA	2009-05-01	2017-08-11	9	River/Stream	34.68203467	-86.44832149
03575340	GLOVER COVE CREEK NEAR OWENS CROSS ROADS AL	1902-03-28	1973-12-26	73	River/Stream	34.6042564	-86.4135981
03575500	TENNESSEE RIVER AT WHITESBURG AL	1867-03-15	2015	91	River/Stream	34.57175806	-86.5580466
03575686	ALDRIDGE CREEK AT DUNSMORE ST AT HUNTSVILLE AL	1971-03-06	1974-11-19	5	River/Stream	34.7042577	-86.5524913
0357568650	ALDRIDGE CREEK AT TONEY DRIVE AT HUNTSVILLE, AL.	1996-07-31	2017-08-10	22	River/Stream	34.6981466	-86.5505467
0357568820	MARTIN HOLLOW NEAR HUNTSVILLE, AL.	1996-12-01	2004-12-09	9	River/Stream	34.68536886	-86.5452687
0357568980	ALDRIDGE C AT SHERWOOD DR NR HUNTSVILLE, ALA	1988-01-19	2017-01-22	22	River/Stream	34.6642578	-86.5541579
03575696	ALDRIDGE NEAR LILY FLAGG AL	1971-03-25	1973-12-26	4	River/Stream	34.62898008	-86.5397128
03575700	ALDRIDGE CREEK NEAR FARLEY AL	1973-03-16	2017-08-10	32	River/Stream	34.6239801	-86.54110169
03575830	INDIAN CREEK NEAR MADISON AL	1959-12-18	2017-01-23	58	River/Stream	34.6973134	-86.6999967
0357586650	FAGAN CREEK AT ADAMS STREET AT HUNTSVILLE, AL.	1996-12-01	2017-08-10	21	River/Stream	34.722591	-86.5749921
0357587090	WEST FORK PINHOOK CR AT BLUE SPRS RD AT HUNTSVILLE	1973-03	2017-07-04	22	River/Stream	34.78842358	-86.5986045
0357587140	EAST FORK PINHOOK CR AT WINCHESTER RD AT HUNTSVIL	1996-10-22	2017-07-04	19	River/Stream	34.79286797	-86.5891598
0357587400	PINHOOK C AT MASTIN LAKE RD AT HUNTSVILLE, ALA	1973-03-16	2017-07-04	22	River/Stream	34.77147944	-86.5922153

Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
0357587728	<u>DALLAS BRANCH AT COLEMAN ST IN HUNTSVILLE, AL</u>	1985-06-30	2017-08-10	33	River/Stream	34.74564649	-86.5741588
03575890	<u>PINHOOK CREEK AT CLINTON AVE. AT HUNTSVILLE, AL.</u>	1973-03-06	2017-08-10	34	River/Stream	34.72759099	-86.5933262
03575910	<u>PINE HAVEN DITCH AT HUNTSVILLE AL</u>	1971-02-22	1975-01-10	5	Ditch	34.76759056	-86.6313833
0357591500	<u>BROGLAN BRANCH AT OAKWOOD AVENUE AT HUNTSVILLE, AL</u>	1997-03-03	2017-07-04	21	River/Stream	34.7495353	-86.62527179
03575930	<u>BROGLAN BRANCH AT HOLMES AVE AT HUNTSVILLE AL</u>	1971-09-17	1975-03-29	5	River/Stream	34.72925765	-86.60860449
03575933	<u>BROGLAN BRANCH AT CLINTON AVE IN HUNTSVILLE,AL</u>	1991-12-01	2008-03-04	16	River/Stream	34.72342434	-86.6016598
03575950	<u>HUNTSVILLE SP BR AT JOHNSON ROAD, HUNTSVILLE AL</u>	1971-12-06	2017-08-10	29	River/Stream	34.6900911	-86.5963817
03575980	<u>MCDONALD CREEK AT PATTON ROAD NR HUNTSVILLE AL</u>	1985-08-16	2017-08-11	33	River/Stream	34.69259115	-86.627494
03576100	<u>MILLER BRANCH NEAR TRIANA AL</u>	1961-02-22	1965-03-29	5	River/Stream	34.6217585	-86.7563878
03576148	<u>COTACO CREEK AT FLORETTE AL</u>	1966-05-19	1990-12-23	16	River/Stream	34.4137049	-86.687774
03576250	<u>LIMESTONE CREEK NEAR ATHENS AL</u>	1940-07-08	2017-08-10	68	River/Stream	34.751757	-86.8233348
03576400	<u>PINEY CREEK NEAR ATHENS AL</u>	1957-12-18	1990-12-22	14	River/Stream	34.8028666	-86.8833373
03576500	<u>FLINT CREEK NEAR FALKVILLE AL</u>	1953-02-21	2017-01-23	35	River/Stream	34.37315189	-86.933617
03576800	<u>BLOWING SPRING BRANCH NEAR WREN AL</u>	1963-05-26	1965-03-25	3	River/Stream	34.39398654	-87.2844629
03576810	<u>ELAM CREEK NEAR WREN AL</u>	1964-04-27	1966-12-09	4	River/Stream	34.4159304	-87.2694629
03577000	<u>WEST FLINT CREEK NEAR OAKVILLE AL</u>	1953-02-21	1998-01-08	22	River/Stream	34.4764839	-87.1416814
03577110	<u>WEST FLINT CREEK NEAR HARTSELLE AL</u>	1941-03-08	1991-12-24	19	River/Stream	34.49398319	-87.0261215
03577150	<u>TENNESSEE RIVER AT DECATUR AL</u>	1991	2015	25	River/Stream	34.6131475	-86.9738969
03577225	<u>SWAN CREEK BELOW ATHENS, ALA</u>	2009-12-09	2017-01-22	8	River/Stream	34.7639782	-86.9463954

Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
03586000	WHEELER LAKE AT WHEELER DAM, ALA.	2002-06-21	2010-04-27	9	Lake	34.79786517	-87.3808553



Wheeler National Wildlife Refuge Surface Water Quantity Stations

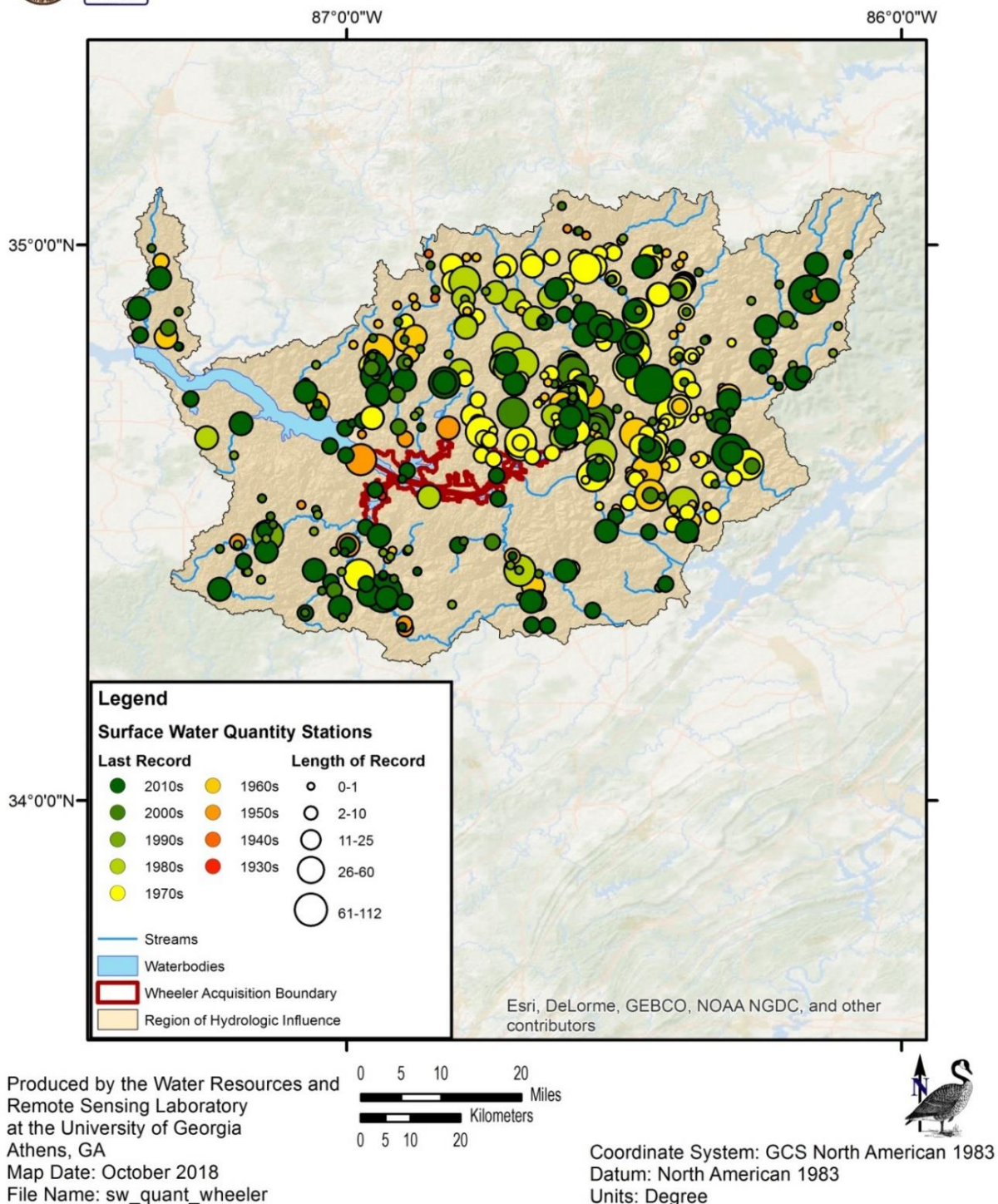


Figure A- 2. All surface water quantity stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Surface Water Quality

Table A- 10. All surface water quality stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1177	TNRL-1	2005-03-14	2006-10-31	21	Reservoir	34.762564	-87.243619
ADEM	21AWIC-3102	TENR-277A	1996-08-13	1996-08-13	1	Reservoir	34.81167	-87.34639
ADEM	21AWIC-3104	TENR-283A	1996-08-15	1996-08-15	1	Reservoir	34.735	-87.29611
ADEM	21AWIC-3107	TENR-306A	1996-08-13	1996-08-13	1	Reservoir	34.60353	-86.96136
ADEM	21AWIC-3112	TENR-335A	1996-08-13	1996-08-13	1	Reservoir	34.56056	-86.53922
ADEM	21AWIC-3532	TENR-310	2009-04-21	2015-10-20	21	Reservoir	34.578439	-86.89942
ADEM	21AWIC-1004	CRDM-1	2005-04-20	2013-08-21	22	River/ Stream	34.39282	-87.02805
ADEM	21AWIC-1005	CRDM-2	2005-04-20	2013-10-16	7	River/ Stream	34.337	-87.074
ADEM	21AWIC-1006	CRDM-3	2005-04-20	2005-04-20	1	River/ Stream	34.377	-87.044
ADEM	21AWIC-1027	FLIM-2A	2005-03-15	2018-04-04	127	River/ Stream	34.74926	-86.44666
ADEM	21AWIC-1047	HERM-1	2005-04-20	2013-07-18	13	River/ Stream	34.378	-87.022
ADEM	21AWIC-1048	HERM-2	2005-04-20	2018-05-16	38	River/ Stream	34.348	-87.011
ADEM	21AWIC-1049	HERM-3	2009-03-19	2009-10-14	12	River/ Stream	34.329	-87.006
ADEM	21AWIC-1051	HGSM-27	1998-07-23	2015-10-29	28	River/ Stream	34.4133	-86.605243
ADEM	21AWIC-1064	INDM-249	2005-06-16	2017-10-10	77	River/ Stream	34.69731	-86.7
ADEM	21AWIC-1065	INDM-250	1998-05-12	2015-10-28	37	River/ Stream	34.7502	-86.6976
ADEM	21AWIC-1066	INDM-251	1998-05-12	2015-10-28	37	River/ Stream	34.7865	-86.7123
ADEM	21AWIC-1078	LIML-300	1998-05-12	2017-10-10	54	River/ Stream	34.7521	-86.8232

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1130	PRRJ-1	2005-06-16	2017-10-10	42	River/ Stream	34.62417	-86.30639
ADEM	21AWIC-1153	SWNL-1A	2006-03-15	2007-10-01	14	River/ Stream	34.76405	-86.94658
ADEM	21AWIC-1154	SWNL-390	1998-05-12	2013-10-08	39	River/ Stream	34.6886	-86.9531
ADEM	21AWIC-1155	SWNL-392	1998-05-12	2013-10-08	31	River/ Stream	34.784973	-86.947803
ADEM	21AWIC-1216	YBCM-2	2005-04-19	2005-04-19	1	River/ Stream	34.54698	-86.43001
ADEM	21AWIC-133	WHEL-10	2003-04-16	2018-07-17	32	River/ Stream	34.837454	-87.371474
ADEM	21AWIC-137	WHEL-9	2003-04-16	2018-06-20	31	River/ Stream	34.72263	-87.280487
ADEM	21AWIC-142	WHEL-5	2003-04-15	2018-04-17	30	River/ Stream	34.593333	-86.890278
ADEM	21AWIC-1422	CLER-1	1997-07-22	2016-10-06	36	River/ Stream	34.719347	-86.31083
ADEM	21AWIC-143	WHEL-8	2003-04-16	2018-05-23	30	River/ Stream	34.698636	-87.050739
ADEM	21AWIC-147	WHEL-1	2003-04-15	2018-07-17	32	River/ Stream	34.483246	-86.455077
ADEM	21AWIC-1474	ESTL-1	1997-07-22	2015-11-12	45	River/ Stream	34.965291	-86.153702
ADEM	21AWIC-1475	FC-9D	1996-05-08	1996-05-09	2	River/ Stream	34.41109	-87.18073
ADEM	21AWIC-1476	FC-9E	1996-05-07	1996-05-09	2	River/ Stream	34.46013	-87.19553
ADEM	21AWIC-1477	FC-9F	1996-05-07	1996-05-09	2	River/ Stream	34.41109	-87.17734
ADEM	21AWIC-1479	FLTM-1	2003-05-28	2018-04-04	6	River/ Stream	34.88059	-86.4805
ADEM	21AWIC-148	WHEL-2	2003-04-15	2018-07-17	32	River/ Stream	34.51073	-86.514106
ADEM	21AWIC-1480	FLTM-2	2003-05-28	2003-06-26	2	River/ Stream	34.91745	-86.50317
ADEM	21AWIC-1481	FLTM-3	2003-05-28	2003-06-26	3	River/ Stream	34.93753	-86.52265

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1487	GILL-1	1996-05-09	2015-08-27	7	River/ Stream	34.38009	-87.22844
ADEM	21AWIC-149	WHEL-3	2003-04-15	2018-07-17	32	River/ Stream	34.58431	-86.72915
ADEM	21AWIC-1505	HRCM-3	2003-05-28	2003-06-17	2	River/ Stream	34.87903	-86.38704
ADEM	21AWIC-1511	HURR-1	1997-07-22	2018-05-23	58	River/ Stream	34.91799	-86.133
ADEM	21AWIC-1540	LICK-1	1997-07-22	2013-10-16	25	River/ Stream	34.852416	-86.243766
ADEM	21AWIC-1551	LPNT-1	1997-07-23	2000-01-19	22	River/ Stream	34.601336	-86.269497
ADEM	21AWIC-1554	LPRK-1	1997-07-22	2016-07-13	27	River/ Stream	34.484658	-86.386227
ADEM	21AWIC-1556	LRKJ-2	2003-06-03	2003-06-24	2	River/ Stream	34.92861	-86.21998
ADEM	21AWIC-1597	MTNM-164	2003-05-28	2003-06-18	2	River/ Stream	34.95075	-86.36503
ADEM	21AWIC-1607	NLYW-1	1998-03-03	1998-09-16	4	River/ Stream	34.816345	-87.301075
ADEM	21AWIC-167	WHEL-4	2003-04-15	2018-06-19	31	River/ Stream	34.542968	-86.72628
ADEM	21AWIC-168	WHEL-6	2003-04-15	2018-04-17	30	River/ Stream	34.558889	-86.948056
ADEM	21AWIC-169	WHEL-7	2003-04-16	2018-06-20	31	River/ Stream	34.620814	-87.000639
ADEM	21AWIC-1755	WFCL-1	1996-05-09	1996-05-09	1	River/ Stream	34.46348	-87.15637
ADEM	21AWIC-1763	WLFM-1	2003-06-03	2003-06-17	2	River/ Stream	34.38258	-86.43655
ADEM	21AWIC-1802	CRDM-4	2007-03-14	2007-10-04	8	River/ Stream	34.33762	-87.07454
ADEM	21AWIC-1911	ALDM-230	1998-05-11	2016-10-28	22	River/ Stream	34.5949	-86.5458
ADEM	21AWIC-1912	ALDM-231	1998-05-11	1998-09-08	3	River/ Stream	34.6128	-86.5439
ADEM	21AWIC-1913	ALDM-232	1998-05-11	1998-09-08	3	River/ Stream	34.6719	-86.5507

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-1985	BFFM-6	2007-03-12	2007-10-22	8	River/Stream	34.925431	-86.633642
ADEM	21AWIC-2116	BSCL-1	2009-03-31	2012-11-13	17	River/Stream	34.4865	-87.14684
ADEM	21AWIC-2136	BVDM-1	2007-03-12	2013-10-16	17	River/Stream	34.874211	-86.607036
ADEM	21AWIC-2137	BVDM-2	2007-03-12	2013-10-16	16	River/Stream	34.861064	-86.642456
ADEM	21AWIC-2138	BVDM-3	2013-04-11	2013-10-17	5	River/Stream	34.862925	-86.646708
ADEM	21AWIC-2192	CDRM-1	2005-04-20	2005-04-20	1	River/Stream	34.398696	-86.914279
ADEM	21AWIC-2217	CHSM-190	1998-05-13	2015-08-31	22	River/Stream	34.7809	-86.4926
ADEM	21AWIC-2300	CSPJ-70	1997-07-23	2017-10-03	36	River/Stream	34.6828	-86.3297
ADEM	21AWIC-2391	ELML-1	2009-03-31	2009-10-07	8	River/Stream	34.452749	-87.227948
ADEM	21AWIC-2419	FLTL-1	2009-03-31	2009-10-06	9	River/Stream	34.496103	-87.131896
ADEM	21AWIC-2445	FTCM-3	1999-05-12	1999-12-08	2	River/Stream	34.39579	-86.9509
ADEM	21AWIC-2446	FTCM-4	2009-03-19	2009-10-14	8	River/Stream	34.40571	-86.97614
ADEM	21AWIC-2448	FTCM-6	2010-04-13	2018-04-05	97	River/Stream	34.491139	-86.965389
ADEM	21AWIC-2517	HSBM-241	1998-05-11	1998-09-08	3	River/Stream	34.7251	-86.5893
ADEM	21AWIC-2518	HSBM-242	1998-05-11	1998-09-08	3	River/Stream	34.739984	-86.591747
ADEM	21AWIC-2610	LIML-301	1998-05-12	1998-09-09	3	River/Stream	34.8028	-86.8159
ADEM	21AWIC-2611	LIML-302	1998-05-12	1998-09-09	3	River/Stream	34.9351	-86.8086
ADEM	21AWIC-2641	LRKJ-1	1997-07-22	2003-06-24	22	River/Stream	34.8659	-86.20796
ADEM	21AWIC-2642	LRKJ-3	2003-06-03	2003-06-03	1	River/Stream	34.98772	-86.24959

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-2680	MACM-330	1998-05-05	2013-09-25	9	River/Stream	34.3701	-86.9598
ADEM	21AWIC-2681	MALL-410	1998-05-06	2018-05-22	6	River/Stream	34.6783	-87.1899
ADEM	21AWIC-2682	MALL-411	1998-05-06	1998-07-14	2	River/Stream	34.6212	-87.2026
ADEM	21AWIC-270	DRYJ-1	1997-07-22	2018-05-23	33	River/Stream	34.7923	-86.2521
ADEM	21AWIC-2708	MCDL-360	1998-05-06	2013-07-24	15	River/Stream	34.4482	-87.1445
ADEM	21AWIC-2709	MCDL-361	1998-05-06	1998-07-14	2	River/Stream	34.3969	-87.1537
ADEM	21AWIC-275	HSBM-240A	2001-11-28	2001-11-28	1	River/Stream	34.69226	-86.62747
ADEM	21AWIC-2773	MUDM-2	2009-03-30	2013-09-10	32	River/Stream	34.314438	-86.637865
ADEM	21AWIC-280	BFFM-1	1998-05-13	2013-10-16	20	River/Stream	34.91949	-86.62194
ADEM	21AWIC-2801	NOBM-350	1998-05-06	1998-09-15	3	River/Stream	34.4478	-87.0214
ADEM	21AWIC-2802	NOBM-351	1998-05-06	2012-11-13	9	River/Stream	34.4143	-87.0578
ADEM	21AWIC-281	BFFM-2	2001-11-27	2013-09-19	23	River/Stream	34.87594	-86.57042
ADEM	21AWIC-282	BFFM-4	2001-11-28	2018-04-04	11	River/Stream	34.84566	-86.5176
ADEM	21AWIC-283	BFFM-5	1998-05-13	2013-10-16	19	River/Stream	34.82279	-86.48555
ADEM	21AWIC-2868	PGRM-1	2003-06-03	2003-06-03	1	River/Stream	34.43558	-86.45534
ADEM	21AWIC-287	BVDM-17	1998-07-22	2016-10-27	39	River/Stream	34.8377	-86.5712
ADEM	21AWIC-2876	PINL-300	1996-06-20	1996-10-23	4	River/Stream	34.65694	-86.9005
ADEM	21AWIC-2911	PTRK-1	1997-09-24	2000-01-20	19	River/Stream	34.5179	-86.3855
ADEM	21AWIC-2921	RBNM-1	1998-05-05	2018-05-16	29	River/Stream	34.36462	-86.92713

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-2922	RBNM-2	2007-03-14	2007-10-04	8	River/Stream	34.359381	-86.907236
ADEM	21AWIC-2923	RBNM-3	2007-03-14	2013-09-26	14	River/Stream	34.357286	-86.894667
ADEM	21AWIC-2929	RCKM-23	1998-07-29	1998-07-29	1	River/Stream	34.3658	-86.6855
ADEM	21AWIC-2935	RDIL-1	2015-03-16	2015-10-08	8	River/Stream	34.714017	-87.052385
ADEM	21AWIC-2952	RNIL-400	1998-05-12	2015-10-08	11	River/Stream	34.7349	-87.0731
ADEM	21AWIC-2953	RNIL-401	1998-05-12	1998-09-16	3	River/Stream	34.7837	-87.0544
ADEM	21AWIC-2996	SHLM-1	2003-06-03	2013-10-17	7	River/Stream	34.3891	-86.42502
ADEM	21AWIC-2997	SHLM-332	1998-05-05	1998-09-15	3	River/Stream	34.4031	-86.9341
ADEM	21AWIC-2998	SHLM-333	1998-05-05	1998-09-15	3	River/Stream	34.4384	-86.921
ADEM	21AWIC-2999	SHLM-334	1998-05-06	1998-09-15	3	River/Stream	34.4514	-86.8882
ADEM	21AWIC-3073	WHEL-13	2009-04-21	2018-07-18	25	River/Stream	34.66969	-87.002285
ADEM	21AWIC-3077	SXMM-36	1998-07-23	1998-07-23	1	River/Stream	34.4233	-86.7041
ADEM	21AWIC-3148	TOWM-335	1998-05-06	1998-07-13	2	River/Stream	34.4459	-86.9337
ADEM	21AWIC-3167	TWNL-1	2006-06-26	2007-10-01	4	River/Stream	34.77	-86.94737
ADEM	21AWIC-3170	TWNM-1	2007-03-15	2013-10-17	21	River/Stream	34.459044	-86.798983
ADEM	21AWIC-3216	VILM-350	1998-05-06	2017-10-19	12	River/Stream	34.4763	-86.9407
ADEM	21AWIC-3237	WCOT-2	1998-07-29	2013-08-28	17	River/Stream	34.369286	-86.654006
ADEM	21AWIC-3257	WFL-2	2013-03-06	2015-10-22	16	River/Stream	34.429605	-87.185367
ADEM	21AWIC-3263	WHEL-11	2009-04-22	2018-07-18	24	River/Stream	34.637667	-87.029611

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-3314	YBCM-3	2007-03-27	2007-10-22	8	River/Stream	34.548631	-86.450706
ADEM	21AWIC-3397	TOWL-2	2001-08-09	2007-06-14	15	River/Stream	34.777667	-86.954547
ADEM	21AWIC-3432	FLTL-2	2009-03-31	2009-10-06	9	River/Stream	34.51121	-87.13669
ADEM	21AWIC-3433	FLTL-3	2009-03-31	2009-10-06	9	River/Stream	34.54339	-87.15215
ADEM	21AWIC-3434	MARM-1	2009-03-30	2013-10-17	32	River/Stream	34.31538	-86.66588
ADEM	21AWIC-3452	HESM-3	2009-03-23	2010-09-16	20	River/Stream	34.99194	-86.43914
ADEM	21AWIC-370	BFFM-3A	1998-05-13	2013-10-16	24	River/Stream	34.853293	-86.5433
ADEM	21AWIC-3832	SWNL-4	2007-06-11	2013-10-08	18	River/Stream	34.67884	-86.98971
ADEM	21AWIC-403	BROM-1	2004-03-25	2004-10-27	10	River/Stream	34.718	-86.5946
ADEM	21AWIC-424	BVDM-18	2002-01-23	2013-10-17	18	River/Stream	34.84467	-86.53547
ADEM	21AWIC-4374	SWNL-380	2007-08-27	2015-10-08	22	River/Stream	34.683723	-86.970673
ADEM	21AWIC-4543	COTM-2	2004-08-10	2004-08-10	1	River/Stream	34.410655	-86.618966
ADEM	21AWIC-4547	CRDM-5	1997-08-13	1997-08-13	1	River/Stream	34.41175	-87.00833
ADEM	21AWIC-455	CANM-220	1998-05-11	2016-08-10	19	River/Stream	34.48492	-86.53137
ADEM	21AWIC-4550	CRWM-1	1997-08-13	1997-08-13	1	River/Stream	34.48385	-87.05844
ADEM	21AWIC-4589	DVSL-1	1998-08-11	1998-08-11	1	River/Stream	34.97612	-86.78467
ADEM	21AWIC-4591	DYCM-1	1998-08-11	1998-08-11	1	River/Stream	34.96367	-86.36238
ADEM	21AWIC-4602	ELML-3	2004-08-26	2004-08-26	1	River/Stream	34.46446	-87.211262
ADEM	21AWIC-4612	FLIM-8	1998-08-12	1998-08-12	1	River/Stream	34.5815	-86.46838

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-4752	MLCM-1	1997-08-13	1997-08-13	1	River/Stream	34.35249	-86.80937
ADEM	21AWIC-4893	SHCM-1	2003-08-05	2003-08-05	1	River/Stream	34.457579	-86.882629
ADEM	21AWIC-4915	SNDL-3	2002-08-27	2002-08-27	1	River/Stream	34.92778	-87.33528
ADEM	21AWIC-4977	TRBM-1	2001-08-07	2001-08-07	1	River/Stream	34.569186	-86.335228
ADEM	21AWIC-5049	UGUJ-1	2003-08-21	2003-08-21	1	River/Stream	34.823124	-86.1761
ADEM	21AWIC-5055	UINM-1	2003-08-06	2003-08-06	1	River/Stream	34.792925	-86.725148
ADEM	21AWIC-5058	UKXL-1	2002-08-20	2002-08-20	1	River/Stream	34.758693	-86.790562
ADEM	21AWIC-5075	UMCM-1	2002-08-27	2002-08-27	1	River/Stream	34.35556	-86.97611
ADEM	21AWIC-5080	UMTC-1	2003-08-05	2003-08-05	1	River/Stream	34.523029	-87.054382
ADEM	21AWIC-5095	UPNL-1	2001-08-09	2001-08-09	1	River/Stream	34.812459	-86.867361
ADEM	21AWIC-5098	UPRJ-1	1998-08-12	1998-08-12	1	River/Stream	34.65436	-86.34405
ADEM	21AWIC-5122	USWL-1	1999-08-11	1999-08-11	1	River/Stream	34.88189	-86.94965
ADEM	21AWIC-5156	WFLL-5	1997-08-13	1997-08-13	1	River/Stream	34.47108	-87.14428
ADEM	21AWIC-5169	WTBL-1	1998-08-11	1998-08-11	1	River/Stream	34.96183	-87.30565
ADEM	21AWIC-5190	LIML-35	1998-07-23	2018-05-23	4	River/Stream	34.671167	-86.864849
ADEM	21AWIC-520	CTCM-26	1998-07-23	2013-10-17	23	River/Stream	34.4397	-86.7006
ADEM	21AWIC-521	CTCM-37	1998-07-23	2003-08-26	11	River/Stream	34.4141	-86.6888
ADEM	21AWIC-522	CTCM-38	2003-06-03	2009-10-14	19	River/Stream	34.4078	-86.6533
ADEM	21AWIC-5350	MTNM-2A	2009-08-17	2009-08-20	4	River/Stream	34.91003	-86.4375

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-551	FAGM-1	2004-03-25	2004-10-27	10	River/Stream	34.7247	-86.5914
ADEM	21AWIC-554	FIRL-1	1998-03-03	2003-08-26	13	River/Stream	34.85026	-87.32083
ADEM	21AWIC-555	FIRL-2	2003-06-04	2003-08-26	10	River/Stream	34.87985	-87.30217
ADEM	21AWIC-556	FLIM-1	2003-03-20	2013-10-29	37	River/Stream	34.8265	-86.4827
ADEM	21AWIC-557	FLIM-2	2003-03-20	2013-10-29	36	River/Stream	34.7685	-86.4428
ADEM	21AWIC-558	FLIM-3	2003-03-26	2005-07-25	31	River/Stream	34.696	-86.4226
ADEM	21AWIC-559	FLIM-4	2003-03-26	2005-07-25	10	River/Stream	34.6455	-86.46559
ADEM	21AWIC-560	FLIM-5	2003-03-26	2005-10-19	21	River/Stream	34.65136	-86.44819
ADEM	21AWIC-561	FLIM-6	2003-03-25	2005-10-19	22	River/Stream	34.59316	-86.46803
ADEM	21AWIC-562	FLIM-7	2003-03-25	2005-10-19	22	River/Stream	34.53993	-86.49149
ADEM	21AWIC-574	FMCL-1	2000-04-19	2013-09-17	23	River/Stream	34.75655	-86.89503
ADEM	21AWIC-584	FTCM-2	1999-05-12	1999-12-08	2	River/Stream	34.3733	-86.9333
ADEM	21AWIC-585	GOOM-1	2003-03-26	2015-08-26	56	River/Stream	34.62978	-86.45234
ADEM	21AWIC-586	GOOM-2	2003-03-26	2013-10-07	44	River/Stream	34.63486	-86.40368
ADEM	21AWIC-594	GUES-1	1997-07-23	2018-05-23	92	River/Stream	34.75965	-86.19024
ADEM	21AWIC-595	GUES-2	2003-03-26	2011-10-06	38	River/Stream	34.76707	-86.17682
ADEM	21AWIC-612	HESM-1	1998-05-13	2017-10-04	71	River/Stream	34.9108	-86.4375
ADEM	21AWIC-613	HESM-2	2003-03-20	2017-09-06	68	River/Stream	34.96119	-86.46094
ADEM	21AWIC-6231	NOBM-345	2012-04-18	2015-06-03	10	River/Stream	34.4594	-86.9972

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-6232	SHLM-332B	2015-03-17	2015-10-22	16	River/Stream	34.4061	-86.9339
ADEM	21AWIC-629	HSBM-240	1998-05-11	2014-11-21	53	River/Stream	34.6593	-86.60436
ADEM	21AWIC-630	HSBM-242A	2001-11-28	2018-03-14	35	River/Stream	34.6899	-86.5963
ADEM	21AWIC-631	HSBM-243	2002-01-10	2004-02-24	8	River/Stream	34.719676	-86.59324
ADEM	21AWIC-635	HURM-1	2003-03-26	2003-10-15	17	River/Stream	34.69554	-86.41769
ADEM	21AWIC-636	HURM-2	2003-07-07	2003-09-30	10	River/Stream	34.75302	-86.39145
ADEM	21AWIC-637	HURM-3	2003-07-07	2003-09-30	10	River/Stream	34.79908	-86.40141
ADEM	21AWIC-713	MLDM-2	2003-03-20	2004-11-16	19	River/Stream	34.8278	-86.3548
ADEM	21AWIC-714	MLPM-1	2003-06-03	2013-10-17	20	River/Stream	34.34155	-86.55653
ADEM	21AWIC-722	MTC-1	1999-05-14	1999-08-18	4	River/Stream	34.5139	-87.0519
ADEM	21AWIC-723	MTC-2	1999-05-12	1999-09-14	5	River/Stream	34.5321	-87.0816
ADEM	21AWIC-724	MTNM-1	1998-05-13	2004-09-08	26	River/Stream	34.882	-86.4725
ADEM	21AWIC-725	MTNM-2	1998-05-13	2009-10-19	35	River/Stream	34.9107	-86.4369
ADEM	21AWIC-726	MTNM-3	1998-05-13	2004-09-08	26	River/Stream	34.9174	-86.4035
ADEM	21AWIC-732	MUDM-1	2003-06-03	2013-08-28	41	River/Stream	34.35529	-86.65454
ADEM	21AWIC-7370	CRDM-6	1996-05-09	1996-05-09	1	River/Stream	34.386278	-87.034111
ADEM	21AWIC-769	PINL-320	1998-05-12	2001-03-28	11	River/Stream	34.6718	-86.9059
ADEM	21AWIC-770	PINL-321	1998-05-12	2001-03-28	11	River/Stream	34.730352	-86.908695
ADEM	21AWIC-771	PINL-322	1998-05-12	2001-03-28	11	River/Stream	34.7883	-86.8949

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-772	PINL-323	2000-04-12	2001-03-27	8	River/Stream	34.8295	-86.8948
ADEM	21AWIC-773	PINL-324	2000-04-12	2001-03-27	8	River/Stream	34.8616	-86.9064
ADEM	21AWIC-774	PINL-325	2000-04-12	2001-03-27	8	River/Stream	34.9186	-86.8396
ADEM	21AWIC-775	PINL-326	1996-06-20	2001-03-27	13	River/Stream	34.9627	-86.8482
ADEM	21AWIC-776	PINM-1	2004-03-25	2004-10-27	10	River/Stream	34.7249	-86.5918
ADEM	21AWIC-7930	GUES-3	2013-03-06	2013-10-29	17	River/Stream	34.74518	-86.22124
ADEM	21AWIC-7951	HURR-2	2013-05-08	2013-09-11	5	River/Stream	34.982139	-86.096067
ADEM	21AWIC-7990	CSPJ-69	2013-04-03	2017-10-03	11	River/Stream	34.6738	-86.3225
ADEM	21AWIC-8010	INDM-1	2013-03-05	2013-09-25	6	River/Stream	34.312322	-86.899603
ADEM	21AWIC-8030	GOOM-1A	2013-03-28	2015-09-29	23	River/Stream	34.64021	-86.458241
ADEM	21AWIC-821	SCDL-11	1998-07-22	2015-10-07	37	River/Stream	34.8851	-87.3734
ADEM	21AWIC-822	SCDL-12	2003-06-04	2015-10-07	28	River/Stream	34.9395	-87.3368
ADEM	21AWIC-823	SCDL-13	2003-06-04	2004-09-29	20	River/Stream	34.9939	-87.3509
ADEM	21AWIC-8230	MACM-1	2013-03-28	2017-10-19	15	River/Stream	34.389258	-86.964119
ADEM	21AWIC-8231	CDRM-2	2013-03-28	2013-07-18	3	River/Stream	34.411861	-86.872253
ADEM	21AWIC-866	SWNL-1	2003-03-31	2003-10-16	8	River/Stream	34.83186	-86.95172
ADEM	21AWIC-867	SWNL-2	1998-05-12	2013-10-08	41	River/Stream	34.73098	-86.94346
ADEM	21AWIC-8790	ESTL-2	2015-03-18	2015-11-12	10	River/Stream	34.91034	-86.1682
ADEM	21AWIC-901	TWNM-24	1998-07-23	2003-10-16	10	River/Stream	34.4649	-86.7368

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
ADEM	21AWIC-902	TWNM-25	2003-03-25	2003-10-16	9	River/Stream	34.46634	-86.78842
ADEM	21AWIC-9178	NLYW-1A	2016-03-09	2016-08-29	13	River/Stream	34.81696	-87.30259
ADEM	21AWIC-918	UTSL-1	2003-03-31	2003-10-16	9	River/Stream	34.79955	-86.95298
ADEM	21AWIC-930	WFCM-1	1999-05-12	1999-12-08	2	River/Stream	34.4942	-87.0265
ADEM	21AWIC-931	WFCM-28	1996-05-09	2013-10-17	39	River/Stream	34.358387	-86.667275
ADEM	21AWIC-9342	NOBM-1008	2017-03-30	2017-10-19	14	River/Stream	34.446968	-87.002802
ADEM	21AWIC-9369	PRRJ-4	2017-03-07	2017-10-03	8	River/Stream	34.698614	-86.308087
ADEM	21AWIC-948	YBCM-1	2003-03-25	2009-08-13	15	River/Stream	34.54892	-86.4523
ADEM	21AWIC-9568	PRRJ-21	2017-03-07	2017-10-03	8	River/Stream	34.77534	-86.250585
ADEM	21AWIC-9569	HURM-4A	2017-03-07	2017-10-03	19	River/Stream	34.711466	-86.395046
OST_SHPD	OST_SHPD-161	Wheeler Lake	2000-11-01	2000-11-01	1	Reservoir	34.8119	-87.3464
TDECWPC	TDECWPC-HANCO1T0.2LI	HANCOCK BRANCH UNNAMED TRIBUTARY	2004-02-11	2004-04-20	2	River/Stream	35.025	-86.581
TDECWPC	TDECWPC-WASHB003.0LI	WASHBURN BRANCH	2003-11-04	2004-08-05	4	River/Stream	35.07	-86.612
TDECWR_WQX	TDECWR_WQX-TNW000000407	Big Huckleberry CREEK	2003-08-22	2017-05-10	22	River/Stream	35.0455	-86.4269
TDECWR_WQX	TDECWR_WQX-TNW000001422	Cotts CREEK	2007-07-30	2017-05-18	22	River/Stream	35.0066	-87.3115
TDECWR_WQX	TDECWR_WQX-TNW000001504	COTTRELL SPRINGS BRANCH	2003-09-09	2015-10-15	4	River/Stream	34.9963	-86.5216
TDECWR_WQX	TDECWR_WQX-TNW000001507	Cottrell Springs BRANCH	2007-08-27	2017-05-10	23	River/Stream	35.0029	-86.5165
TDECWR_WQX	TDECWR_WQX-TNW000002363	MASON BRANCH	2012-02-08	2015-07-27	3	River/Stream	35.01914	-86.53778
TDECWR_WQX	TDECWR_WQX-TNW000002478	FLINT RIVER	2003-09-19	2017-05-10	25	River/Stream	35.0339	-86.4784

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
TDECWR_WQX	TDECWR_WQX-TNW000002522	Fowler CREEK	2015-07-13	2017-05-10	12	River/Stream	35.0057	-86.6174
TDECWR_WQX	TDECWR_WQX-TNW000002772	HANCOCK BRANCH UT	2004-02-11	2012-05-01	3	River/Stream	35.025	-86.581
TDECWR_WQX	TDECWR_WQX-TNW000002776	Harbin BRANCH	2003-09-04	2017-05-10	24	River/Stream	35.0256	-86.5037
TDECWR_WQX	TDECWR_WQX-TNW000002788	HARPER CREEK	2009-11-02	2017-05-10	19	River/Stream	35.06388	-86.58909
TDECWR_WQX	TDECWR_WQX-TNW000002900	HESTER CREEK	2003-08-18	2017-05-10	21	River/Stream	34.9927	-86.4388
TDECWR_WQX	TDECWR_WQX-TNW000002901	HESTER CREEK UT	2009-10-21	2009-11-05	5	River/Stream	35.00912	-86.35147
TDECWR_WQX	TDECWR_WQX-TNW000003595	LITTLE HUCKLEBERRY CREEK	2012-03-21	2017-05-10	11	River/Stream	35.0408	-86.3752
TDECWR_WQX	TDECWR_WQX-TNW000003670	Limestone CREEK	2012-03-14	2017-05-10	14	River/Stream	34.99232	-86.72899
TDECWR_WQX	TDECWR_WQX-TNW000003998	MASON BRANCH	2003-09-09	2017-05-10	25	River/Stream	34.99751	-86.52248
TDECWR_WQX	TDECWR_WQX-TNW000003999	Mason BRANCH	2007-08-29	2007-08-29	1	River/Stream	34.998641	-86.52377
TDECWR_WQX	TDECWR_WQX-TNW000005465	Second CREEK	2003-05-16	2017-05-18	23	River/Stream	35.029	-87.345
TDECWR_WQX	TDECWR_WQX-TNW000006261	TENNESSEE RIVER	2009-10-13	2009-10-13	1	River/Stream	34.8018	-87.35436
TDECWR_WQX	TDECWR_WQX-TNW000006471	Trotters BRANCH	2003-08-25	2017-05-10	24	River/Stream	35.0375	-86.488
TDECWR_WQX	TDECWR_WQX-TNW000006576	WALKER BRANCH	2004-11-29	2004-11-29	1	River/Stream	35.0553	-86.5762
TDECWR_WQX	TDECWR_WQX-TNW000006577	Walker CREEK	2003-09-12	2017-05-10	20	River/Stream	34.9954	-86.579
TDECWR_WQX	TDECWR_WQX-TNW000006607	Washburn BRANCH	2003-09-10	2017-05-10	19	River/Stream	35.0432	-86.6076
TDECWR_WQX	TDECWR_WQX-TNW000006608	WASHBURN BRANCH	2009-11-02	2009-11-02	1	River/Stream	35.06282	-86.60869
TDECWR_WQX	TDECWR_WQX-TNW000006609	WASHBURN BRANCH	2003-11-04	2004-04-20	3	River/Stream	35.0692	-86.61336
USGS	03586000	WHEELER LAKE AT WHEELER DAM, ALA.	1970-10-21	1970-10-21	2	Lake	34.79786517	-87.3808553

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	343242086555301	FLINT CR (WHEELER L- WHEELER NWR) NR PRICEVILLE, AL	2008-08-14	2008-08-14	1	Lake	34.5450833	-86.9315333
USGS	03574309	BLUE SPRING NR GUESS C CHURCH NR PRINCETON, ALA	1990-09-27	1991-09-30	13	Spring	34.75925276	-86.1913724
USGS	03574570	BETHEL SPRING NEAR WOODVILLE, AL U 107	1973-09-21	1973-09-21	2	Spring	34.6131445	-86.3630415
USGS	03574630	(Z 12) NEW HOPE SPRING AT NEW HOPE	1973-09-21	1973-09-21	2	Spring	34.53620064	-86.3935973
USGS	03574787	WATERCRESS SPRING NEAR NEW MARKET, AL B 53	1973-09-19	1978-09-22	15	Spring	34.92731017	-86.394156
USGS	03574818	STEGER SPRING NEAR HAZEL GREEN, AL D 69	1973-09-20	1973-09-20	2	Spring	34.9350877	-86.6027727
USGS	03574843	TURNER SPRING NEAR TONEY, AL F 92	1973-09-20	1973-09-20	2	Spring	34.8856437	-86.6802747
USGS	03574871	MERIDIANVILLE SPRING AT MERIDIANVILLE, AL H 14	1999-04-27	2001-03-14	29	Spring	34.8450894	-86.5683263
USGS	03575015	BOILING SPRING NEAR MAYSVILLE, AL M 2	1973-09-19	1978-08-31	12	Spring	34.80508987	-86.4722119
USGS	0357502100	COLD SPRING (1T) NEAR HUNTSVILLE, AL M	1998-01-30	1998-01-31	2	Spring	34.74620207	-86.5299906
USGS	03575024	ACUFF SPRING NEAR CHASE, AL M 38	1977-07-01	1977-07-01	1	Spring	34.78009045	-86.49165639
USGS	03575110	DUG HILL SPRINGS NEAR BROWNSBORO, AL M 186	1973-09-19	1973-09-19	2	Spring	34.74953507	-86.477489
USGS	03575252	ESSLINGER SPRING NEAR OWENS CROSSROADS AL S 41	1973-09-19	1973-09-19	2	Spring	34.6478678	-86.4347099
USGS	0357526190	Blue Spring (14-L) nr Dug Hill Rd nr Huntsville, A	1998-01-30	1998-01-30	1	Spring	34.70814658	-86.512212
USGS	03575692	ESSLINGER SPRING AT HUNTSVILLE, AL R 69	1973-09-19	1973-09-19	2	Spring	34.64259117	-86.5399906
USGS	03575760	KELLY SPRING NEAR HARVEST AL O 3	1973-09-18	1978-09-25	11	Spring	34.81508948	-86.7094419
USGS	03575860	BIG SPRING AT HUNTSVILLE AL N 185	1967-10-11	1970-12-07	17	Spring	34.7295354	-86.5866592

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	0357586170	FAGAN SPRING (3-L) AT HUNTSVILLE, AL.	1998-01-31	1998-01-31	1	Spring	34.74009097	-86.5449911
USGS	03575963	BYRD SPRING AT HUNTSVILLE, AL Q 169	1973-07-10	1978-10-04	15	Spring	34.66453564	-86.58221449
USGS	03576062	BETTS SPRING NEAR MADISON, AL P 34	1973-09-18	1973-09-18	2	Spring	34.7206465	-86.7630546
USGS	342206086372601	U-5 JIMMY CRAWFORD	1981-05-14	1981-05-14	1	Spring	34.3684274	-86.6238826
USGS	343757086183301	JJ 2-USGS 343757086183301	1976-03-24	1976-03-24	1	Spring	34.6325881	-86.3091516
USGS	343822086411001	P 28-USGS 343822086411001	1973-09-18	1973-10-31	3	Spring	34.63953598	-86.6861073
USGS	344338086383701	UNIDENTIFIED SPRING	1967-08-17	1967-08-17	1	Spring	34.7273132	-86.6436058
USGS	345114087174701	S-74 CHARLES ROBERTSON	1956-11-17	1956-11-17	1	Spring	34.8539751	-87.2964082
USGS	345152087181501	S 39	1969-05-09	1969-05-09	1	Spring	34.8645304	-87.3039084
USGS	345248086285501	MCGEEHEE SPRING NEAR NEW MARKET, AL	1999-04-26	2001-03-14	28	Spring	34.88008904	-86.4819352
USGS	345249087205201	R 27-USGS 345249087205201	1955-11-23	1955-11-23	1	Spring	34.8803633	-87.34779829
USGS	345508086130501	G 5-USGS 345508086130501	1971-04-12	1971-04-12	1	Spring	34.9189756	-86.2180409
USGS	03574230	PAINT ROCK RIVER NEAR PRINCETON AL	1969-02-14	1969-12-23	10	River/ Stream	34.82786474	-86.2433184
USGS	03574500	PAINT ROCK RIVER NEAR WOODVILLE AL	1962-10-02	2005-09-09	332	River/ Stream	34.6242547	-86.3063737
USGS	03574550	LITTLE PAINT CREEK NEAR WOODVILLE, AL.	1973-09-21	1998-08-18	7	River/ Stream	34.60480985	-86.276373
USGS	03574560	PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE	1971-10-13	1978-09-07	15	River/ Stream	34.57981027	-86.3013733
USGS	03574580	TREMBLE CREEK NEAR NEW HOPE AL	1973-09-21	1973-09-21	2	River/ Stream	34.57703316	-86.3444298
USGS	03574600	PAINT ROCK RIVER NEAR NEW HOPE AL	1973-09-20	1977-06-28	6	River/ Stream	34.51258874	-86.3402627
USGS	03574673	LITTLE PAINT ROCK CREEK AT HEBRON, AL.	1973-09-21	1973-09-21	2	River/ Stream	34.4845342	-86.3863747
USGS	03574680	TENNESSEE RIVER NEAR MORGAN CITY AL	1971-06-08	2000-04-04	6	River/ Stream	34.49314698	-86.51776699
USGS	03574702	FLINT RIVER AT LINCOLN, TN	1983-10-03	1999-09-09	13	River/ Stream	35.0117538	-86.5016595

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574709	FLINT RIVER ABOVE STEWART BRANCH NEAR FISK AL	1973-09-20	1978-09-25	13	River/Stream	34.98897636	-86.5255488
USGS	03574710	STEWART BRANCH NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/Stream	34.98536536	-86.5180486
USGS	03574715	SLATE ROCK BRANCH NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/Stream	34.9834207	-86.5438826
USGS	03574740	FLINT RIVER NEAR FISK AL	1973-09-20	1973-09-20	2	River/Stream	34.96147655	-86.5519381
USGS	03574743	WALKER CREEK NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/Stream	34.97619837	-86.5733278
USGS	03574747	FOWLER CREEK NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/Stream	34.9767538	-86.5849948
USGS	03574750	WEST FORK FLINT RIVER AT FISK AL	1973-09-20	1999-09-09	5	River/Stream	34.95814314	-86.5691608
USGS	03574755	PIGRUM BRANCH NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/Stream	34.9392549	-86.5199925
USGS	03574770	FLINT RIVER NEAR NEW MARKET AL	1973-09-17	1973-09-17	2	River/Stream	34.8789779	-86.4805463
USGS	03574773	MOUNTAIN FK BL ROCK FORD BR NR MT. FK CHURCH, AL	2000-01-20	2000-05-15	2	River/Stream	34.9595319	-86.335266
USGS	03574775	MOUNTAIN FK BL DRY CR NR MT. FK CHURCH, AL	2000-01-20	2001-05-16	3	River/Stream	34.9506432	-86.3655444
USGS	03574790	MOUNTAIN FORK AT MOUNTAIN FORK RD, NEW MARKET AL	1973-09-20	1973-09-20	2	River/Stream	34.91786584	-86.4013783
USGS	03574792	UNNAMED TRIB TO MOUNTAIN FK AT NEW MARKET, AL	2000-05-15	2000-05-15	1	River/Stream	34.91758819	-86.4208232
USGS	03574794	MOUNTAIN FORK AB HESTER CREEK NEAR NEW MARKET AL	1973-09-20	2001-08-30	7	River/Stream	34.91092168	-86.4366568
USGS	0357479405	HESTER CREEK AT HWY 121 NEAR ELORA, TN	2000-01-20	2000-05-15	2	River/Stream	35.01675359	-86.3599894
USGS	0357479410	UNNAMED TRIB BELOW HESTER CR AT ELORA, TN	2000-01-20	2001-01-26	3	River/Stream	35.012587	-86.3574893

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	0357479414	HESTER CREEK AT LIMESTONE ROAD NEAR ELORA, TN	2000-01-20	2000-05-15	2	River/Stream	35.018698	-86.386379
USGS	0357479418	HESTER CR AT MASON RD NR VANNTOWN, TN	2000-01-20	2001-01-26	3	River/Stream	35.00703168	-86.4216575
USGS	0357479421	GRASSY BRANCH AT OGLES RD NEAR VANNTOWN, TN	2000-01-20	2000-05-15	2	River/Stream	35.004254	-86.43638
USGS	0357479425	HESTER CREEK AT HESTER CREEK RD NR VANNTOWN, TN	2000-01-20	2000-05-15	2	River/Stream	34.9925875	-86.4391578
USGS	0357479440	JENNY RIVER AT HWY 121 NEAR ELORA, TN	2000-01-20	2000-05-15	2	River/Stream	34.9973096	-86.3824898
USGS	0357479455	JENNY RIVER AT ROSEBORO, AL	2000-01-20	2000-05-15	2	River/Stream	34.9884208	-86.3997123
USGS	0357479470	JENNY RV @ STEELE LN AT ROSEBORO, AL	2000-05-15	2000-05-15	1	River/Stream	34.98703197	-86.4105459
USGS	03574795	HESTER CREEK AT PHILLIPS ROAD NR PLEVENA, AL	1973-09-19	1978-09-25	13	River/Stream	34.97786549	-86.4516579
USGS	0357479540	UNNAMED TRIB TO HESTER CREEK AT FAIRVIEW, AL	2000-01-20	2000-05-15	2	River/Stream	34.9745322	-86.45471349
USGS	0357479550	HESTER CREEK BELOW PHILLIPS RD NR FAIRVIEW	2000-01-20	2000-05-15	2	River/Stream	34.97286556	-86.4541579
USGS	0357479650	HESTER CREEK AT BUDDY WILLIAMSON RD NR PLEVNA, AL	1998-08-19	2011-04-25	179	River/Stream	34.96092128	-86.4636024
USGS	0357479680	SWAMP BR AT BUDDY WILLIAMS RD NR MINT SPRING, AL	2000-01-20	2000-05-15	2	River/Stream	34.9614769	-86.488603
USGS	0357479690	SWAMP BRANCH AT MINT SPRING RD NR MINT SPRING, AL	2000-01-20	2000-05-15	2	River/Stream	34.9539769	-86.4686025
USGS	03574799	HESTER CREEK NEAR NEW MARKET AL	1965-05-07	1973-09-20	3	River/Stream	34.91036614	-86.4374901
USGS	03574800	MOUNTAIN FORK BL HESTER CREEK NR NEW MARKET AL	1965-05-07	1965-05-07	1	River/Stream	34.91036614	-86.4383235
USGS	03574802	MOUNTAIN FORK NEAR NEW MARKET AL	1973-09-19	1978-09-22	14	River/Stream	34.87564458	-86.4741572

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03574806	BRIER F FLINT R AB HUCKLEBERRY BR NR HAZEL GREEN	1973-09-20	1973-09-20	1	River/ Stream	34.97730866	-86.670275
USGS	03574815	BRIER FORK NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/ Stream	34.9195323	-86.621662
USGS	03574817	COPELAND C AT ELKWOOD SECTION RD NR HAZEL GREEN	1973-09-20	1973-09-20	2	River/ Stream	34.9770312	-86.6302739
USGS	03574820	COPELAND CREEK NEAR HAZEL GREEN AL	1973-09-20	1973-09-20	2	River/ Stream	34.9248101	-86.6041616
USGS	03574823	BRIER FORK FLINT RIVER NR HAZEL GREEN, AL.	1999-05-12	1999-09-07	3	River/ Stream	34.9023106	-86.5841607
USGS	03574825	BRIER FORK @US 231 NR MERIDIANVILLE, ALABAMA	1973-09-20	1973-09-20	2	River/ Stream	34.8759222	-86.5705489
USGS	03574835	BRIER FORK AB BEAVERDAM C NR MERIDIANVILLE AL	1973-09-20	1978-09-13	13	River/ Stream	34.8534227	-86.5430478
USGS	03574840	MORRIS BRANCH NEAR TONEY AL	1971-12-03	1972-01-10	3	River/ Stream	34.89925446	-86.6986087
USGS	03574855	BEAVERDAM C AT PULASKI PIKE NR MERIDIANVILLE AL	1971-10-04	1973-09-21	4	River/ Stream	34.86119855	-86.892782
USGS	03574870	BEAVERDAM CREEK NEAR MERIDIANVILLE AL	1973-09-20	1999-09-08	6	River/ Stream	34.83814506	-86.5713819
USGS	03574970	BRIER FORK NEAR MERIDIANVILLE AL	1965-05-07	1973-09-20	3	River/ Stream	34.85314494	-86.5430478
USGS	03574998	BRIER FORK NEAR CHASE AL	1971-10-04	1973-09-19	5	River/ Stream	34.8234231	-86.4847123
USGS	03575000	FLINT RIVER NEAR CHASE AL	1962-10-11	1994-10-07	286	River/ Stream	34.82286756	-86.4830456
USGS	03575020	FLINT RIVER NEAR CEDAR GAP AL	1973-09-28	1973-09-28	1	River/ Stream	34.78759025	-86.4847119
USGS	03575028	CHASE CREEK NEAR CHASE AL	1973-09-19	1973-09-19	2	River/ Stream	34.78509035	-86.489712
USGS	03575035	CHASE CREEK NEAR RYLAND AL	1971-08-26	1971-09-18	2	River/ Stream	34.78731248	-86.4847119
USGS	03575040	FLINT RIVER NEAR MOUNT CARMEL AL	1971-06-07	1983-03-07	100	River/ Stream	34.78703465	-86.4808229

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575100	FLINT RIVER AT BROWNSBORO, AL.	1973-09-19	2011-09-21	199	River/Stream	34.7492568	-86.4466551
USGS	03575120	FLINT RIVER WEST OF GURLEY AL	1973-09-19	1978-09-20	13	River/Stream	34.69647869	-86.4222099
USGS	03575140	HURRICANE CREEK NEAR NEW MARKET AL	1973-09-19	1974-11-05	3	River/Stream	34.87897715	-86.3872109
USGS	03575150	HURRICANE CREEK AB MOLDER BRANCH NR MAYSVILLE AL	1973-09-19	1973-09-19	2	River/Stream	34.80203346	-86.40332149
USGS	03575157	HURRICANE CREEK NEAR MAYSVILLE AL	1973-09-19	1973-09-19	2	River/Stream	34.755367	-86.3922097
USGS	03575200	HURRICANE CREEK NEAR GURLEY AL	1965-05-06	2000-05-10	4	River/Stream	34.70925609	-86.3997095
USGS	03575210	HURRICANE CREEK WEST OF GURLEY AL	1973-09-18	1973-09-18	2	River/Stream	34.69814524	-86.4152653
USGS	03575250	FLINT RIVER NEAR GURLEY AL	1969-11-12	1970-10-23	6	River/Stream	34.70925609	-86.3997095
USGS	0357526040	Big Cove Creek at CCC Cistern (13-M) at Huntsville	1998-01-30	1998-01-30	1	River/Stream	34.72314656	-86.531935
USGS	0357526060	Big Cove Creek (15-L) ab Dug Hill Road nr Huntsvil	1998-01-30	1998-01-30	1	River/Stream	34.707591	-86.5152677
USGS	0357526120	Unnamed Trib (7-T) to Big Cove Cr at Huntsville, a	1998-01-29	1998-01-29	1	River/Stream	34.74120208	-86.5269349
USGS	0357526130	Unnamed Trib (8-T) to Big Cove Cr at Huntsville, A	1998-01-29	1998-01-29	1	River/Stream	34.74175764	-86.5258237
USGS	0357526155	Blue Spring (10-M) at Monte Sano Pk at Huntsville	1998-01-31	1998-01-31	1	River/Stream	34.7348132	-86.5208235
USGS	0357526300	Unnamed Trib (16-L) to Big Cove Cr nr Huntsville,	1998-01-30	1998-01-30	1	River/Stream	34.69481326	-86.5133231
USGS	03575280	FLINT RIVER NEAR BIG COVE AL	1973-09-18	1973-09-18	2	River/Stream	34.63814615	-86.4688773
USGS	0357529500	UNNAMED TRIB (18M) TO FLINT RIVER NR HUNTSVILLE, A	1998-01-30	1998-01-30	1	River/Stream	34.65925775	-86.5138786
USGS	03575330	FLINT RIVER AT OWEN CROSS ROADS AL	1973-09-19	1973-09-19	2	River/Stream	34.5939795	-86.4683215
USGS	03575400	FLINT RIVER NEAR OWENS CROSSROADS AL	1973-09-18	1978-06-14	11	River/Stream	34.53620214	-86.4910995

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575420	FLINT RIVER NEAR HOBBS ISLAND, AL	2001-03-14	2001-03-14	1	River/Stream	34.5045358	-86.5244339
USGS	03575450	TENNESSEE RIVER NEAR HOBBS ISLAND, AL.	1971-06-09	1971-09-20	4	River/Stream	34.52953587	-86.544157
USGS	03575480	HUNTSVILLE WATER SUPPLY-WHEELER LAKE	1971-06-09	2000-04-05	47	River/Stream	34.56925805	-86.5538798
USGS	03575490	TENNESSEE RIVER DS HOBBS ISLAND NR WHITESBURG, AL.	2000-04-03	2000-04-04	2	River/Stream	34.56842474	-86.5583244
USGS	03575500	TENNESSEE RIVER AT WHITESBURG AL	1956-03-02	2005-08-02	59	River/Stream	34.57175806	-86.5580466
USGS	0357568810	UNNAMED TRIB (17-T) TO MARTIN HOLLOW AT HUNTSVILLE	1998-01-30	1998-01-30	1	River/Stream	34.68009106	-86.5174899
USGS	03575696	ALDRIDGE NEAR LILY FLAGG AL	1971-08-27	1975-02-04	57	River/Stream	34.62898008	-86.5397128
USGS	03575730	ALDRIDGE CREEK AT FARLEY AL	1973-09-19	1973-09-19	2	River/Stream	34.59509129	-86.545824
USGS	03575734	ALDRIDGE CREEK NEAR WHITESBURG AL	1971-06-10	1973-09-28	8	River/Stream	34.58370247	-86.5561022
USGS	03575736	TENNESSEE RIVER AT FARLEY AL	1971-06-10	1971-09-20	4	River/Stream	34.5764803	-86.5691582
USGS	03575740	TENNESSEE RIVER AT LACEYS SPRINGS AL	1972-04-21	1972-04-21	1	River/Stream	34.5767583	-86.618049
USGS	03575750	REDSTONE ARSENAL WATER SUPPLY-TENNESSEE RIVER	1972-04-21	1972-04-21	1	River/Stream	34.58620297	-86.6819405
USGS	03575780	INDIAN CREEK NEAR MONROVIA AL	1973-09-18	1973-09-18	2	River/Stream	34.7867567	-86.7124974
USGS	03575788	DUPREE BRANCH NEAR HARVEST AL	1973-09-18	1973-09-18	2	River/Stream	34.77731247	-86.714164
USGS	03575808	DRY CREEK NEAR MADISON AL	1973-09-18	1973-09-18	2	River/Stream	34.75703515	-86.6858296
USGS	03575810	INDIAN CREEK AT US HWY 72 NEAR HUNTSVILLE AL	1971-08-27	1973-09-21	5	River/Stream	34.7500908	-86.6974966
USGS	03575830	INDIAN CREEK NEAR MADISON AL	1959-09-08	2002-10-08	297	River/Stream	34.6973134	-86.6999967
USGS	03575849	INDIAN CREEK 400 FT AB MARTIN RD NR MADISON AL	1971-10-13	1973-09-27	5	River/Stream	34.6462026	-86.6866629

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575850	INDIAN CREEK AT MARTIN RD NEAR HUNTSVILLE AL	1973-09-18	1973-09-18	3	River/Stream	34.64536928	-86.6858295
USGS	03575851	INDIAN C 700 FT BL MARTIN RD NR HUNTSVILLE AL	1971-06-10	1973-09-27	8	River/Stream	34.6437026	-86.6866629
USGS	0357586160	Fagan Creek (2-M) at Bluff Line Tr at Huntsville	1998-01-29	1998-01-29	1	River/Stream	34.74259096	-86.5399909
USGS	0357586172	UNNAMED TRIB(9T) TO FAGAN BR AT HUNTSVILLE	1998-01-31	1998-01-31	1	River/Stream	34.73675765	-86.531935
USGS	0357586173	Unnamed Trib (6-T) to Fagan Cr at Huntsville, AL.	1998-01-29	1998-01-29	1	River/Stream	34.7370354	-86.5327684
USGS	0357586175	Unnamed Trib (5-M) to Fagan Cr at Huntsville, AL.	1998-01-29	1998-01-29	1	River/Stream	34.73675764	-86.5383242
USGS	0357586180	FAGAN CREEK (4-L) NR OWENS DRIVE AT HUNTSVILLE, AL	1998-01-31	1998-01-31	1	River/Stream	34.7384243	-86.5499913
USGS	0357586550	Unnamed Trib (11-M) to Fagan Cr at Huntsville, AL.	1998-01-30	1998-01-30	1	River/Stream	34.7284243	-86.53971309
USGS	0357586560	Unnamed Trib (12-L) to Fagan Cr at Huntsville, AL.	1998-01-31	1998-01-31	1	River/Stream	34.72647989	-86.5466578
USGS	03575868	FAGAN CREEK AT HUNTSVILLE AL	1973-09-18	1973-09-18	2	River/Stream	34.7248132	-86.58777039
USGS	03575878	DALLAS BRANCH AT HUNTSVILLE AL	1973-09-18	1973-09-18	2	River/Stream	34.74231316	-86.5888816
USGS	03575888	PINHOOK CREEK AT HOLMES AVE AT HUNTSVILLE AL	1973-09-18	1973-09-18	2	River/Stream	34.73009098	-86.5944373
USGS	03575890	PINHOOK CREEK AT CLINTON AVE. AT HUNTSVILLE, AL.	1972-08-09	1972-09-27	3	River/Stream	34.72759099	-86.5933262
USGS	03575932	HIGHWAY RUNOFF INTO BROGLAN BR AT I-565 AT HUNTSVI	1993-02-11	1993-06-11	46	River/Stream	34.72703544	-86.6055488
USGS	03575935	BROGLAN BRANCH AT HUNTSVILLE AL	1973-09-18	1973-09-18	2	River/Stream	34.71981324	-86.5952707
USGS	03575950	HUNTSVILLE SP BR AT JOHNSON ROAD, HUNTSVILLE AL	1971-10-14	1978-09-27	54	River/Stream	34.6900911	-86.5963817

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03575955	<u>HUNTSVILLE SP BR AB SEWAGE PLANT, HUNTSVILLE AL</u>	1972-02-22	1978-06-13	49	River/ Stream	34.67786896	-86.6008263
USGS	03575960	<u>HUNTSVILLE SP BR AT MARTIN RD NEAR HUNTSVILLE AL</u>	1971-06-09	1983-03-07	92	River/ Stream	34.6592579	-86.6044375
USGS	03575979	<u>HUNTSVILLE RESERVE CENTER RUNOFF AT HUNTSVILLE, AL</u>	1993-02-11	1993-02-11	18	River/ Stream	34.71453549	-86.627494
USGS	03575980	<u>MCDONALD CREEK AT PATTON ROAD NR HUNTSVILLE AL</u>	1973-09-18	1973-09-18	2	River/ Stream	34.69259115	-86.627494
USGS	03575992	<u>MCDONNELL C BL SEWAGE PLANT #4 NR HUNTSVILLE AL</u>	1973-09-27	1973-09-27	2	River/ Stream	34.66648014	-86.6172158
USGS	03575994	<u>MCDONNELL CREEK AT MARTIN RD AT HUNTSVILLE AL</u>	1973-09-18	1973-09-18	2	River/ Stream	34.6534246	-86.6127712
USGS	03576000	<u>HUNTSVILLE SPRING BR PATTON RD NR HUNTSVILLE AL</u>	1971-06-11	1978-09-27	19	River/ Stream	34.625647	-86.6294384
USGS	03576020	<u>HUNTSVILLE SPRING BR DODD RD NEAR HUNTSVILLE AL</u>	1973-09-21	1978-09-27	13	River/ Stream	34.61898049	-86.6649954
USGS	03576070	<u>MILL CREEK AT MADISON AL</u>	1973-09-18	1973-09-18	2	River/ Stream	34.6923134	-86.7680549
USGS	03576082	<u>BRADFORD CREEK AT JAMES RECORD RD NR MADISON AL</u>	1973-09-18	1973-09-18	2	River/ Stream	34.65148048	-86.7527765
USGS	03576086	<u>BRADFORD CREEK BELOW SEWAGE LAGOON NR MADISON AL</u>	1973-09-27	1973-09-27	2	River/ Stream	34.64481387	-86.749443
USGS	03576090	<u>BETTS SPRING BRANCH NEAR MADISON AL</u>	1971-10-13	1973-09-18	5	River/ Stream	34.64814716	-86.7422206
USGS	03576100	<u>MILLER BRANCH NEAR TRIANA AL</u>	1971-11-02	1973-09-18	4	River/ Stream	34.6217585	-86.7563878
USGS	03576110	<u>BARREN FORK CREEK NEAR TRIANA AL</u>	1973-09-21	1978-09-18	13	River/ Stream	34.61453629	-86.7349981

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576120	TENNESSEE RIVER NEAR TRIANA AL	1973-11-02	1973-11-02	1	River/Stream	34.57703657	-86.7322202
USGS	03576148	COTACO CREEK AT FLORETTE AL	1965-05-11	1983-03-09	159	River/Stream	34.4137049	-86.687774
USGS	03576150	COTACO CREEK NEAR FLORETTE AL	1965-05-11	1965-10-13	2	River/Stream	34.43898237	-86.7008301
USGS	03576201	LIMESTONE CREEK NEAR BOBO AL	1973-09-18	1973-09-18	2	River/Stream	34.9550865	-86.719443
USGS	03576206	LIMESTONE CREEK AT TONEY AL	1973-09-18	1973-09-18	2	River/Stream	34.91425395	-86.730832
USGS	03576207	LIMESTONE CR AT SHADY GROVE CH NR TONEY, AL.	1999-05-11	1999-09-14	2	River/Stream	34.91619825	-86.7486103
USGS	03576208	LIMESTONE CREEK NEAR TONEY AL	1973-09-17	1973-09-17	2	River/Stream	34.87008805	-86.764444
USGS	03576220	TYRONE CREEK NEAR BETHEL, AL.	1973-09-17	1973-09-17	2	River/Stream	34.93341984	-86.7866673
USGS	03576225	LITTLE LIMESTONE CREEK BL TYRONE CR NR TONEY, AL.	1973-09-17	1973-09-17	2	River/Stream	34.90369826	-86.7888895
USGS	03576226	LITTLE LIMESTONE CR NEAR TONEY, ALABAMA	1999-05-11	1999-09-14	2	River/Stream	34.90175388	-86.78638939
USGS	03576229	LIMESTONE C AT MADISON COUNTY LINE NR TONEY AL	1973-09-17	1973-09-17	2	River/Stream	34.88425428	-86.7833337
USGS	03576235	LESLIE BRANCH NEAR HARVEST AL	1973-09-17	1973-09-17	2	River/Stream	34.85397717	-86.7844447
USGS	03576245	COPPERRUN BRANCH AT CAPSHAW, AL.	1973-09-17	1973-09-17	2	River/Stream	34.77314557	-86.7952782
USGS	03576247	KNOX CREEK AT CAPSHAW AL	1973-09-17	1973-09-17	2	River/Stream	34.7595348	-86.7858333
USGS	03576250	LIMESTONE CREEK NEAR ATHENS AL	1961-09-22	2014-05-20	130	River/Stream	34.751757	-86.8233348
USGS	03576350	PINEY CREEK NEAR REUNION AL	1967-10-24	1967-10-24	1	River/Stream	34.8898091	-86.8750036
USGS	03576390	PINEY CREEK AT ATHENS AL	1967-04-20	1967-10-24	2	River/Stream	34.82869928	-86.8947266
USGS	03576400	PINEY CREEK NEAR ATHENS AL	1962-10-11	1969-07-11	84	River/Stream	34.8028666	-86.8833373

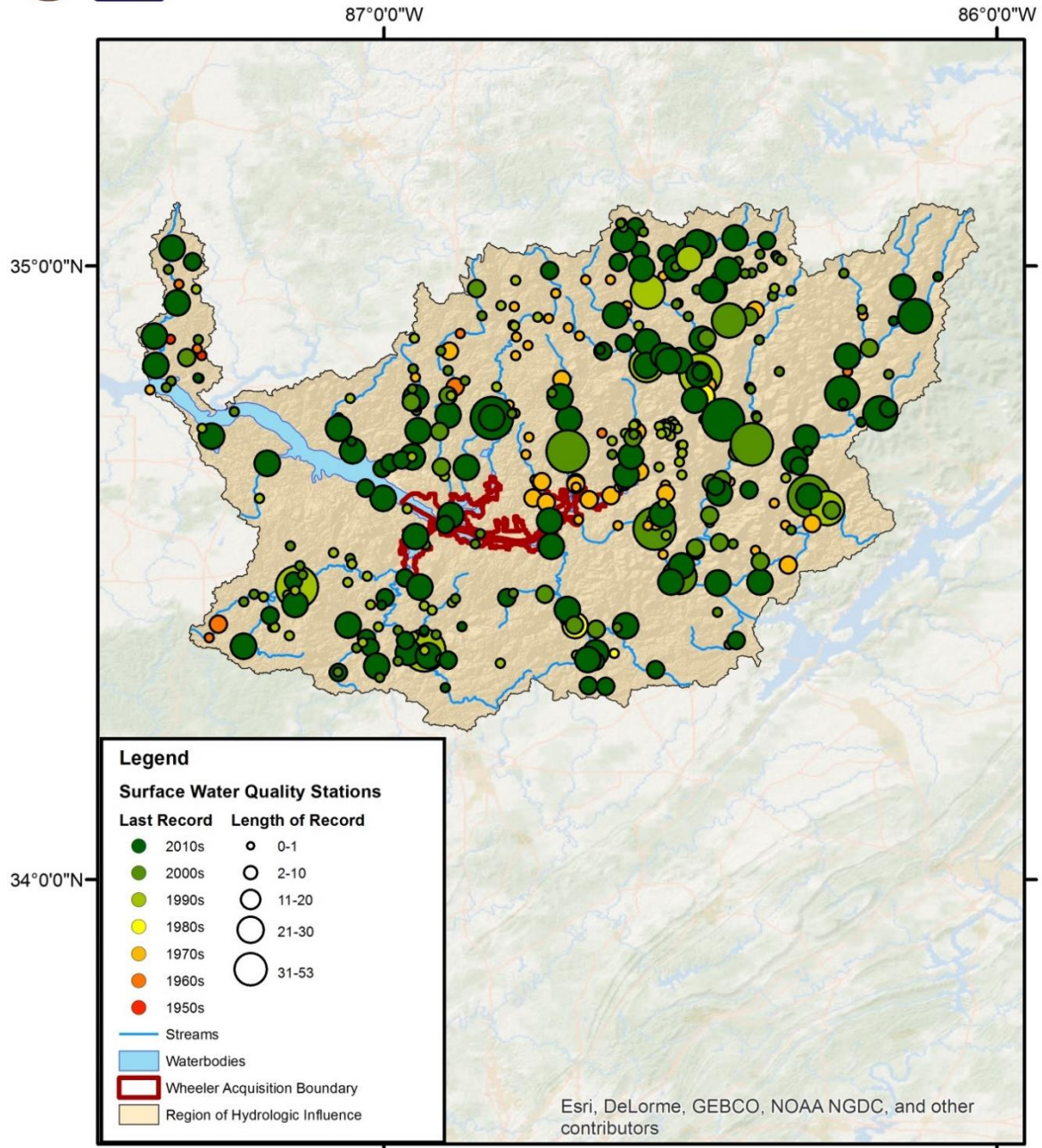
Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	03576405	PINEY CREEK AT COUNTY RD NR ATHEN, ALABAMA	1999-05-11	1999-09-13	2	River/Stream	34.78842245	-86.8897264
USGS	03576500	FLINT CREEK NEAR FALKVILLE AL	1962-10-10	1999-05-05	121	River/Stream	34.37315189	-86.933617
USGS	03576800	BLOWING SPRING BRANCH NEAR WREN AL	1965-05-07	1965-05-07	1	River/Stream	34.39398654	-87.2844629
USGS	03576810	ELAM CREEK NEAR WREN AL	1963-05-17	1967-11-08	43	River/Stream	34.4159304	-87.2694629
USGS	03577000	WEST FLINT CREEK NEAR OAKVILLE AL	1962-10-19	1998-10-22	84	River/Stream	34.4764839	-87.1416814
USGS	03577194	SWAN CREEK NEAR PINEY CHAPEL AL	1967-04-20	1967-10-24	2	River/Stream	34.83203219	-86.9513954
USGS	03577196	SWAN CREEK AT ATHENS AL	1970-03-19	1970-05-12	5	River/Stream	34.8184214	-86.9483398
USGS	03577200	SWAN CREEK NEAR ATHENS AL	1965-05-07	1965-05-07	1	River/Stream	34.79647745	-86.9511177
USGS	03577202	SWAN CREEK AT US HWY 72 NEAR ATHENS AL	1967-04-19	1972-09-15	17	River/Stream	34.78481107	-86.948062
USGS	03577220	TOWN CREEK NEAR ATHENS AL	1967-04-19	1967-10-24	2	River/Stream	34.7828666	-86.9563958
USGS	03577280	SWAN CREEK NEAR WHITESIDE AL	1999-05-13	1999-09-13	2	River/Stream	34.688424	-86.9536181
USGS	03577490	ROUND ISLAND CREEK NEAR LAWSON, ALABAMA	1999-05-17	1999-09-13	2	River/Stream	34.7523113	-87.0730672
USGS	03585800	SECOND CREEK NEAR LEXINGTON AL	1965-05-11	1965-05-11	1	River/Stream	34.9700835	-87.3336306
USGS	343248086510201	CAVE SRING STR (WHEELER NWR) NR PRICEVILLE, AL	2008-09-17	2008-09-17	1	River/Stream	34.54666667	-86.8505556
USGS	343348086503301	ROCKHOUSE CAVE SWP (WHEELER NWR) NR PRICEVILLE, AL	2008-09-16	2008-09-16	1	River/Stream	34.5633333	-86.8425
USGS	343820086365600	HUNTSVILLE SPRING BRANCH-LOWER SITE C	1983-08-30	1983-08-30	9	River/Stream	34.63898025	-86.615549
USGS	343827086363800	HUNTSVILLE SPRING BRANCH-LOWER SITE B	1983-08-30	1983-08-30	6	River/Stream	34.64092468	-86.6105489
USGS	343832086362300	HUNTSVILLE SPRING BRANCH-LOWER SITE A	1983-08-30	1983-08-30	8	River/Stream	34.64231355	-86.606382

Agency	Site Number	Station Name	Start Date	End Date	Count	Site Type	Latitude	Longitude
USGS	343914086361600	HUNTSVILLE SPRING BRANCH-UPPER SITE C	1983-08-31	1983-08-31	9	River/ Stream	34.65398017	-86.6044375
USGS	343929086361400	HUNTSVILLE SPRING BRANCH-UPPER SITE B	1983-08-31	1983-08-31	6	River/ Stream	34.6581468	-86.603882
USGS	343958086360800	HUNTSVILLE SPRING BRANCH-UPPER SITE A DRAINAGE DITCH FROM	1983-08-31	1983-08-31	8	River/ Stream	34.66620234	-86.6022152
USGS	03575953	LANDFILL NEAR HUNTSVILLE AL	1970-07-01	1974-05-08	17	Ditch	34.68342449	-86.5988818
USGS	03574100	ESTILL FORK AT ESTILLFORK AL	1943-12-04	2018-10-02	34	River/ Stream	34.91	-86.1683333

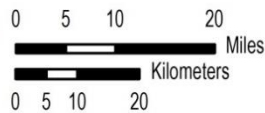


Wheeler National Wildlife Refuge

Surface Water Quality Stations



Produced by the Water Resources and
Remote Sensing Laboratory
at the University of Georgia
Athens, GA
Map Date: October 2018
File Name: sw_qual_wheeler



Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree



Figure A- 3. All surface water quality stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Groundwater Quantity

Table A- 11. All groundwater quantity stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
341910086294801	M 8-USGS 341910086294801	1952-05-26	1952-05-26	1	34.3195385	-86.4966553
341939086292501	M 9-USGS 341939086292501	1956-01-26	1956-01-26	1	34.32759388	-86.4902662
342334086401501	R180001	1958-09-05	1958-09-05	1	34.39287179	-86.6708289
342502086535301	EHR-SUS12	1999-06-28	1999-06-28	1	34.4172222	-86.8980556
342506086344701	P160001	1958-08-08	1958-08-08	1	34.41842635	-86.57971409
342528087100401	EHR-SUS11	1999-06-29	1999-06-29	1	34.42444444	-87.1677222
342644086563801	O 26-USGS 342644086563801	1981-10-20	1985-04-26	6	34.44565049	-86.9438956
343023086492301	K-76 (EHR-SUS22)	1999-06-29	1999-06-29	1	34.50646944	-86.822975
343128086521101	EHR-SUS13	1999-06-28	1999-06-28	1	34.52444444	-86.8697222
343154086371701	I 70001	1958-04-24	1958-04-24	1	34.5317585	-86.6213824
343312086582801	MOR 1-USGS 343312086582801	1954-06-27	1965-04-05	36	34.55342635	-86.9744526
343312086582802	MOR 5-USGS 343312086582802	1958-11-21	1971-04-14	37	34.55342635	-86.9744526
343425086550001	MOR 4-USGS 343425086550001	1960-07-01	1960-07-01	1	34.57370366	-86.91667239
343448086194201	EHR-SUS23	1999-07-08	1999-07-08	1	34.5800833	-86.3283611
343530086213801	EHR-LUS34	1999-12-07	2012-04-16	18	34.59166667	-86.3604722
343530087045201	MOR 6-USGS 343530087045201	1959-11-25	1985-04-23	3	34.59175904	-87.0811235
343540086344801	MAD 5-USGS 343540086344801	1959-10-30	1960-07-22	38	34.59453586	-86.579992
343604086574201	MOR 3-USGS 343604086574201	1959-07-17	1959-07-17	1	34.60120327	-86.9616742
343613086441701	EHR-LUS36	1999-12-07	2012-04-18	12	34.6036111	-86.7381944
343615087032201	MOR 2-USGS 343615087032201	1961-02-16	1985-04-23	95	34.60425878	-87.0561225
343737086160301	U 11-USGS 343737086160301	1963-02-01	1963-02-01	1	34.6270319	-86.267484
343752086433001	EHR-SUS21	1999-06-29	1999-06-29	1	34.6312222	-86.72513889
343809086161501	U 10-USGS 343809086161501	1969-11-17	1969-11-17	1	34.6359208	-86.2708175
343828086503801	R 4-USGS 343828086503801	1981-10-26	1985-04-22	7	34.64120269	-86.8438914
343836086562901	EHR-LUS20	1999-12-06	2012-04-17	18	34.64325	-86.9413056
343901087110301	H 16-USGS 343901087110301	1982-05-06	1985-04-23	6	34.6503688	-87.184183
343904087100701	EHR-SUS8 (H-02)	1999-06-30	1999-06-30	1	34.651	-87.16875
344020086332001	MAD 3-USGS 344020086332001	1955-03-08	1985-04-22	219	34.67231335	-86.5555468
344042086504301	EHR-LUS21	2001-04-11	2010-05-26	5	34.6783611	-86.8453611

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
344124086531401	EHR-LUS18	1999-12-07	2016-05-31	17	34.6901464	-86.8871154
344127086350401	MAD 2-USGS 344127086350401	1953-06-16	1958-12-23	96	34.69092445	-86.5844369
344132086425501	CT 61	1981-10-20	1984-04-24	5	34.69231345	-86.715275
344150086523401	EHR-SUS14	1999-06-29	1999-06-29	1	34.6970833	-86.87606389
344154087171201	EHR-LUS24	1999-12-06	2012-04-11	19	34.69836759	-87.2866865
344254086354901	Q 79	1953-05-05	1965-02-25	3	34.71509104	-86.5969374
344348086493401	EHR-LUS35	1999-12-07	2016-05-31	19	34.73005556	-86.8261111
344402086343901	MAD 1-USGS 344402086343901	1955-01-19	1955-12-27	44	34.73397986	-86.5774923
344407086273401	EHR-LUS9	2000-01-06	2012-04-18	13	34.73519444	-86.4593611
344444086345201	N 51	1958-01-08	1977-11-16	12	34.74564649	-86.5811035
344445086345301	MAD 7-USGS 344445086345301	1953-06-01	1999-06-25	2	34.74592426	-86.5813813
344445086581501	J 169-USGS 344445086581501	1968-10-01	1985-04-24	22	34.7459229	-86.97084089
344457086363701	MAD 4-USGS 344457086363701	1956-06-18	2013-10-23	136	34.74925757	-86.6102713
344503086404701	O 28-USGS 344503086404701	1957-12-27	1957-12-27	1	34.75092416	-86.6797182
344506086420801	O 30-USGS 344506086420801	1957-06-23	1970-10-07	2	34.75175746	-86.702219
344506086421801	O 46	1965-07-29	1965-07-29	1	34.75175746	-86.7049969
344518086431401	O 84	1964-12-04	1964-12-04	1	34.7550907	-86.720553
344519086392701	N 217	1958-10-06	1958-10-06	1	34.75536854	-86.6574952
344520086384901	CT 58	1956-10-29	1957-02-06	3	34.7556463	-86.6469393
344520086431101	O 48	1969-07-29	1969-07-29	1	34.75564625	-86.7197197
344520086431401	O 47	1968-04-02	1971-03-30	3	34.75564625	-86.720553
344520086460401	O 97	1964-05-20	1964-05-20	1	34.7556461	-86.767777
344520086462001	O 96	1968-03-28	1968-03-28	1	34.7556461	-86.7722216
344524086395301	N 237	1965-08-13	1965-08-13	1	34.75675739	-86.6647177
344524086401201	CT 64	1957-09-11	1957-11-27	2	34.75675739	-86.6699957
344529086402101	N 258	1966-03-07	1966-03-07	1	34.75814625	-86.6724958
344535086401601	N 268	1971-01-06	1971-01-06	1	34.75981288	-86.6711068
344535087042201	EHR-SUS7	1999-06-30	1999-06-30	1	34.7597361	-87.0728222
344548086425301	O 27	1957-08-09	1957-08-09	1	34.76342387	-86.7147195
344548086442801	O 76	1969-05-27	1969-05-27	1	34.76342384	-86.7411093
344550086435401	O 78	1967-11-16	1967-11-16	1	34.7639794	-86.7316646
344553086410201	O 81	1964-06-05	1964-06-05	1	34.76481277	-86.6838851
344553086591301	EHR-LUS17	1999-12-06	2012-04-19	17	34.76475	-86.9868611
344554086435701	O 77	1968-07-24	1968-07-24	1	34.76509048	-86.7324979
344556086411701	O 107	1971-05-18	1971-05-18	1	34.76564608	-86.6880519
344558086460401	O 95-USGS 344558086460401	1964-08-20	1964-08-20	1	34.76620144	-86.767777

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
344610086411601	O 106	1971-05-05	1971-05-05	1	34.76953489	-86.6877742
344614086385101	N 262	1964-08-19	1964-08-19	1	34.77064604	-86.647495
344614086404001	CT 65	1957-09-11	1958-05-07	2	34.770646	-86.6777738
344615086272201	EHR-LUS31	1999-12-07	2016-05-31	18	34.77075	-86.4560833
344616086385301	N 261	1966-06-09	1966-06-09	1	34.77120158	-86.6480506
344617086395501	N 270	1972-02-18	1972-02-18	1	34.7714793	-86.6652734
344617086404001	N 257	1965-04-14	1965-04-14	1	34.7714793	-86.6777738
344617086405401	O 105	1971-06-29	1971-06-29	1	34.7714793	-86.6816629
344620086395701	N 252	1967-05-09	1967-05-09	1	34.77231265	-86.665829
344620086425901	O 71	1967-06-06	1967-06-06	1	34.77231257	-86.7163863
344622086443701	O 74	1965-08-11	1965-08-11	1	34.77286808	-86.7436095
344626086384701	O 66	1965-07-19	1965-07-19	1	34.7739793	-86.6463839
344627086435601	O 72	1965-03-10	1965-03-10	1	34.77425695	-86.7322202
344628086391001	N 249	1966-10-20	1966-10-20	1	34.77453485	-86.652773
344632086443101	O 73	1965-09-03	1965-09-03	1	34.7756458	-86.7419428
344636086453401	O 94	1965-02-05	1965-02-05	1	34.7767568	-86.7594434
344639086453101	O 93	1964-12-09	1964-12-09	1	34.7775901	-86.75861
344643086403701	N 256	1966-09-19	1966-09-19	1	34.7787014	-86.6769405
344643086410201	O 65	1966-12-16	1966-12-16	1	34.77870138	-86.6838852
344644086401901	N 254	1964-09-11	1964-09-11	1	34.77897918	-86.6719403
344644086403001	N 255	1969-08-14	1969-08-14	1	34.77897917	-86.674996
344645086400901	N 202	1957-06-08	1957-06-08	1	34.77925695	-86.6691625
344651086425301	O 69	1967-04-28	1967-04-28	1	34.7809235	-86.7147196
344651086523701	I 40	1968-08-22	1985-04-22	24	34.78092269	-86.8769481
344651086523801	I-40 (EHR-SUS15)	1999-06-24	1999-06-24	1	34.7809583	-86.87715
344653086424301	O 67	1968-04-04	1968-04-04	1	34.78147906	-86.7119418
344653086450201	O 92	1966-12-06	1966-12-06	1	34.78147898	-86.7505542
344655086305601	EHR-SUS24	1999-06-23	1999-06-23	1	34.7818611	-86.5155833
344655086411601	O 26-USGS 344655086411601	1956-12-01	1956-12-01	1	34.78203464	-86.6877742
344658086243201	L0008	1952-08-01	1952-08-01	1	34.782867	-86.408877
344701086424901	O 68	1964-05-22	1964-05-22	1	34.7837012	-86.71360849
344704086432401	O 70	1967-05-18	1967-05-18	1	34.7845345	-86.723331
344705086395801	N 266	1971-04-08	1971-04-08	1	34.7848124	-86.6661068
344707086464601	O 91	1964-07-16	1964-07-16	1	34.7853676	-86.7794443
344709086445101	O 75	1965-05-31	1965-05-31	1	34.78592334	-86.7474986
344711086401201	N 246	1964-04-15	1964-04-15	1	34.786479	-86.6699959

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
344712086431201	O 62	1965-10-11	1965-10-11	1	34.7867567	-86.7199976
344713086400701	N 253	1968-11-20	1968-11-20	1	34.78703458	-86.668607
344713086430101	O 63	1966-11-30	1966-11-30	1	34.78703449	-86.716942
344713086434101	O 61	1965-11-13	1965-11-13	1	34.78703446	-86.7280535
344716086425301	O 9-USGS 344716086425301	1952-05-21	1952-05-21	1	34.7878678	-86.7147197
344718086401201	N 245	1964-12-23	1964-12-23	1	34.78842344	-86.6699959
344722086401201	N 244	1964-06-29	1964-06-29	1	34.7895345	-86.6699959
344727086401201	N 243	1964-07-09	1964-07-09	1	34.79092339	-86.6699959
344748086401001	MT 162	1973-11-09	1974-04-15	2	34.7967566	-86.6694404
344754086391701	MT 147	1973-11-09	1974-04-15	2	34.79842328	-86.6547177
344757086442801	O 24	1956-06-18	1956-06-18	1	34.79925639	-86.7411095
344759086413901	O 25-USGS 344759086413901	1956-07-05	1956-07-05	1	34.79981205	-86.6941635
344806086440001	O 23-USGS 344806086440001	1956-06-18	1956-06-18	1	34.80175636	-86.7333315
344812086443801	O 36	1958-08-28	1958-08-28	1	34.80342296	-86.7438874
344814086575701	LIM 3-USGS 344814086575701	1959-10-28	1963-12-31	38	34.80397719	-86.9658405
344819086401901	G 89	1968-05-06	1968-05-06	1	34.80536755	-86.6719405
344819086581601	LIM 4-USGS 344819086581601	1960-09-14	1960-09-14	1	34.805366	-86.9711185
344823086464601	O 89	1964-09-08	1964-09-08	1	34.80647826	-86.7794443
344828087033601	K-3 (EHR-SUS6)	1998-06-28	1998-06-28	1	34.80778056	-87.0598861
344831086270101	L0022	1955-12-01	1955-12-01	1	34.80870066	-86.45026699
344834086391301	N 272	1972-09-15	1972-09-15	1	34.80953419	-86.6536066
344839086382601	N 242	1967-09-15	1967-09-15	1	34.81092309	-86.6405506
344839086392101	N 226	1962-05-16	1962-05-16	1	34.81092304	-86.6558289
344843086581201	LIM 1-USGS 344843086581201	1959-12-16	1959-12-16	1	34.8120325	-86.9700073
344847086072001	U 8-USGS 344847086072001	1969-10-22	1969-10-22	1	34.8131407	-86.1222049
344847086424801	O 59	1964-05-13	1964-05-13	1	34.81314506	-86.7133309
344847086425301	O 60	1964-09-22	1964-09-22	1	34.81314506	-86.7147198
344848086584301	LIM 2-USGS 344848086584301	1959-07-10	1960-09-15	49	34.81342134	-86.9786187
344850086462501	O 85	1964-07-13	1964-07-13	1	34.8139781	-86.7736108
344851086071901	U 9-USGS 344851086071901	1969-07-18	1969-07-18	1	34.8142518	-86.121927
344853086463901	O 86	1964-12-16	1964-12-16	1	34.8148114	-86.7774999
344858086465401	F 55-USGS 344858086465401	1969-04-23	1969-04-23	1	34.81620025	-86.78166669
344859086465401	O 87	1968-01-26	1968-01-26	1	34.816478	-86.78166669
344910086424001	F 28-USGS 344910086424001	1951-12-05	1951-12-05	1	34.8195338	-86.7111086
344919086462301	F 54	1968-02-10	1968-02-10	1	34.8220335	-86.7730553
344920086391401	G 90	1965-06-14	1971-03-30	3	34.8223117	-86.65388449

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
344921086395501	<u>MT 134</u>	1971-07-16	1972-03-07	3	34.82258946	-86.6652738
344922086385301	<u>G 44-USGS 344922086385301</u>	1958-06-20	1958-06-20	1	34.82286729	-86.648051
344923086414501	<u>F 29-USGS 344923086414501</u>	1956-08-28	1956-08-28	1	34.8231449	-86.6958304
344932086454601	<u>F 57-USGS 344932086454601</u>	1965-05-31	1971-11-04	3	34.82564458	-86.765555
344938087173501	<u>S 81</u>	1952-04-23	1952-04-23	1	34.82730905	-87.293075
344939086421501	<u>F 96</u>	1971-06-28	1971-06-28	1	34.8275892	-86.70416399
344950086450501	<u>F 56</u>	1968-03-13	1968-03-13	1	34.83064456	-86.7513878
344952086443401	<u>F 17-USGS 344952086443401</u>	1952-05	1952-05	1	34.83120014	-86.7427764
344957086463701	<u>F 91</u>	1970-10-23	1970-10-23	1	34.8325888	-86.7769443
345005086392301	<u>G 87</u>	1966-01-06	1966-01-06	1	34.83481148	-86.6563847
345009086443601	<u>F 93</u>	1968-05-30	1968-05-30	1	34.83592226	-86.743332
345011086393701	<u>G 107</u>	1972-06	1972-06	1	34.8364781	-86.6602737
345012086393701	<u>G 86</u>	1968-11-04	1968-11-04	1	34.83675587	-86.6602737
345013086452901	<u>F 53</u>	1965-05-27	1965-05-27	1	34.83703327	-86.7580548
345018086425501	<u>MT 131</u>	1971-06-07	1971-06-07	1	34.8384223	-86.7152755
345022086441901	<u>F 101</u>	1972-08-16	1972-08-16	1	34.8395333	-86.7386096
345023086442301	<u>F 46</u>	1965-07-27	1965-07-27	1	34.83981107	-86.7397208
345027086434201	<u>F 102</u>	1972-08	1972-08	1	34.8409222	-86.7283315
345030086395901	<u>G 14-USGS 345030086395901</u>	1970-10	1971-10-22	3	34.84175575	-86.666385
345039087173601	<u>S 71</u>	1981-10-22	1985-04-24	7	34.8442531	-87.2933527
345045086315001	<u>EHR-SUS19</u>	1999-06-23	1999-06-23	1	34.8457222	-86.5305833
345050086454501	<u>F 52-USGS 345050086454501</u>	1964-09-11	1964-09-11	1	34.84731079	-86.7624994
345055086400501	<u>MT 132</u>	1971-06-22	1971-06-22	1	34.84870006	-86.6680518
345055086445501	<u>F 27-USGS 345055086445501</u>	1955-08	1955-08	1	34.8486997	-86.74861
345100086570401	<u>F 95</u>	1971-07	1971-07	1	34.8500873	-86.9511176
345103086431401	<u>F 43</u>	1969-07-09	1969-07-09	1	34.850922	-86.7205536
345107086392701	<u>G 110</u>	1972-09-20	1972-09-20	1	34.85203337	-86.657496
345107086433601	<u>F 100</u>	1972-07	1972-07	1	34.85203308	-86.7266649
345109086422001	<u>MT 136</u>	1971-08-09	1972-03-07	3	34.8525887	-86.705553
345112086313401	<u>EHR-LUS13</u>	1999-12-07	2016-06-01	19	34.85344444	-86.5261667
345114086441201	<u>F 41-USGS 345114086441201</u>	1964-04-27	1964-04-27	1	34.85397744	-86.7366652
345117086460301	<u>F 12-USGS 345117086460301</u>	1951-12-07	1951-12-07	1	34.85481059	-86.7674996
345120086453401	<u>F 89</u>	1970-03-20	1970-03-20	1	34.85564395	-86.7602772
345125086425101	<u>F 44</u>	1964-08-21	1964-08-21	1	34.857033	-86.7141645
345128086431701	<u>F 42-USGS 345128086431701</u>	1966-07-09	1966-07-09	1	34.8578663	-86.721387
345128086443601	<u>F 39</u>	1969-06-23	1969-06-23	1	34.8578662	-86.7433321

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
345131086463101	F 51	1966-10-21	1966-10-21	1	34.85869935	-86.7752777
345132086443101	F 40	1966-04-11	1966-04-11	1	34.8589773	-86.74194319
345133086463601	F 13-USGS 345133086463601	1951-12	1951-12	1	34.85925488	-86.7766667
345134086441201	F 38-USGS 345134086441201	1964-05-26	1964-05-26	1	34.85953288	-86.7366652
345134086443601	MT 10-USGS 345134086443601	1958-06-09	1959-03-04	3	34.85953285	-86.7433321
345135086470301	F 50	1964-11-19	1964-11-19	1	34.85981038	-86.7841669
345136086442701	F 37	1966-02-01	1966-02-01	1	34.8600884	-86.740832
345153086390601	G 85	1967-11-10	1967-11-10	1	34.8648109	-86.6516625
345156086285901	EHR-LUS38	2014-06-04	2016-06-01	3	34.86563889	-86.4830278
345201086424801	F 24-USGS 345201086424801	1957-08-09	1957-08-09	1	34.8670328	-86.7133312
345206086433001	MT 150	1973-09-06	1974-04-16	2	34.8684216	-86.7249982
345207086394801	G 96	1970-07-16	1970-07-16	1	34.86869969	-86.6633296
345208086434401	F 33-USGS 345208086434401	1968-07-20	1968-07-20	1	34.86897716	-86.7288873
345210086434301	F 32	1967-07-18	1967-07-18	1	34.8695327	-86.7286095
345211086390701	G 83	1965-10-08	1965-10-08	1	34.86981084	-86.6519404
345211086391201	G 84	1967-07-11	1967-07-11	1	34.8698108	-86.65332929
345211086434701	F 34	1969-09-11	1969-09-11	1	34.86981047	-86.7297206
345211086571401	G 76	1968-08-20	1982-11-03	19	34.86980908	-86.9538954
345214086391201	G 82	1969-05-20	1969-05-20	1	34.87064415	-86.65332929
345214086434901	F 35-USGS 345214086434901	1969-09-13	1969-09-13	1	34.87064378	-86.7302762
345218086434801	F 31-USGS 345218086434801	1968-09-11	1968-09-11	1	34.87175487	-86.7299984
345221086435801	F 36	1968-06-20	1968-06-20	1	34.87258817	-86.7327763
345222086303301	EHR-LUS12	1999-12-07	2012-03-27	17	34.8728611	-86.5092222
345224086394801	G 81	1966-08-10	1971-03-30	3	34.8734218	-86.6633296
345224086470201	F 10-USGS 345224086470201	1952-12-10	1952-12-10	1	34.87342119	-86.7838892
345230086430701	F 30-USGS 345230086430701	1965-11-08	1965-11-08	1	34.87508819	-86.71860919
345231086430201	F 82	1965-06-10	1965-06-10	1	34.87536597	-86.7172203
345240086424801	F 86	1964-09-16	1964-09-16	1	34.8778659	-86.7133313
345244086441201	F 80	1965-01-15	1965-01-15	1	34.8789769	-86.7366653
345245086425701	F 81	1965-12-10	1965-12-10	1	34.87925478	-86.7158313
345247086415001	EHR-LUS14	1999-12-08	2012-03-29	18	34.8798333	-86.69713889
345247086424801	F 85	1965-11-04	1965-11-04	1	34.87981034	-86.7133313
345247086441601	F 79	1965-05-05	1965-05-05	1	34.8798102	-86.73777649
345249086424001	F 90	1970-10-23	1970-10-23	1	34.88036589	-86.711109
345250086442201	F 78	1964-07-30	1964-07-30	1	34.8806435	-86.7394432
345250086444201	F 77	1964-11-05	1964-11-05	1	34.88064349	-86.744999

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
345251086423701	F 84	1967-05-16	1967-05-16	1	34.88092144	-86.7102756
345251086445401	F 75	1965-01-25	1965-01-25	1	34.88092125	-86.74833239
345253086434401	F 103	1973-03-14	1973-03-14	1	34.88147689	-86.7288873
345254086444501	F 76	1967-06-26	1967-06-26	1	34.88175457	-86.7458323
345254086481501	F 94	1971-04	1971-04	1	34.8817542	-86.8041677
345304087172601	SU0005	1956-06-22	1956-06-22	1	34.88452999	-87.2905745
345321086415501	F 2-USGS 345321086415501	1952-06-09	1952-06-09	1	34.88925466	-86.6986086
345327086430901	MT 135	1971-07-28	1972-03-07	3	34.89092118	-86.7191649
345342086415601	F 21-USGS 345342086415601	1955-10-05	1955-10-05	1	34.89508788	-86.6988865
345343086554701	EHR-SUS16	1999-06-30	1999-06-30	1	34.8951611	-86.9297611
345346087193301	R 20002	1956-06-15	1956-06-15	1	34.8961963	-87.3258532
345530086252701	B0046	1965-12-01	1965-12-01	1	34.92508814	-86.4241566
345539086241301	EHR-LUS10	1999-12-08	2012-03-28	18	34.9275	-86.4034722
345558086382801	EHR-SUS31	1999-07-01	1999-07-01	1	34.93266667	-86.64125
345639086244401	MT0119	1970-06-01	1970-06-01	1	34.94425457	-86.4122121
345654086525501	A 42-USGS 345654086525501	1968-08-30	1985-04-23	24	34.94841887	-86.8819483
345721087203301	B 20005	1956-07-03	1956-07-03	1	34.95591715	-87.3425198
345745086433101	MAD 6-USGS 345745086433101	1958-06-02	1985-04-25	83	34.9625863	-86.7252766
345747086245401	B 16	1981-01-20	1985-04-25	7	34.9631433	-86.41499019
345758086091901	G 4-USGS 345758086091901	1971-03-30	1971-03-30	1	34.96619707	-86.1552622
345801086433201	E-38 (EHR-SUS18)	1999-07-14	1999-07-14	1	34.96702778	-86.7255
345822086254001	EHR-LUS11	1999-12-07	2016-06-01	18	34.9727222	-86.4279167
345912086243901	EHR-LUS16	1999-12-08	2012-03-29	18	34.98675	-86.4108056
345929086510001	A 13-USGS 345929086510001	1955-01-01	1970-03-25	3	34.99147367	-86.8500028
350019086264201	Li:J-19 (EHR-SUS25)	1999-06-22	1999-06-22	1	35.00540278	-86.4449056
350034086422800	Li:G-001	1973-10-23	2013-10-22	86	35.0095298	-86.7077763
350035086423100	Li:G-002	1989-10-03	1992-04-14	30	35.0098076	-86.7086096
350102086284001	Li:J-18 (EHR-SUS17)	1999-07-15	1999-07-15	1	35.0172361	-86.4776417
350331086253301	Li:J-20 (EHR-SUS32)	1999-06-28	1999-06-28	1	35.0585	-86.4258333



Wheeler National Wildlife Refuge Groundwater Quantity Stations

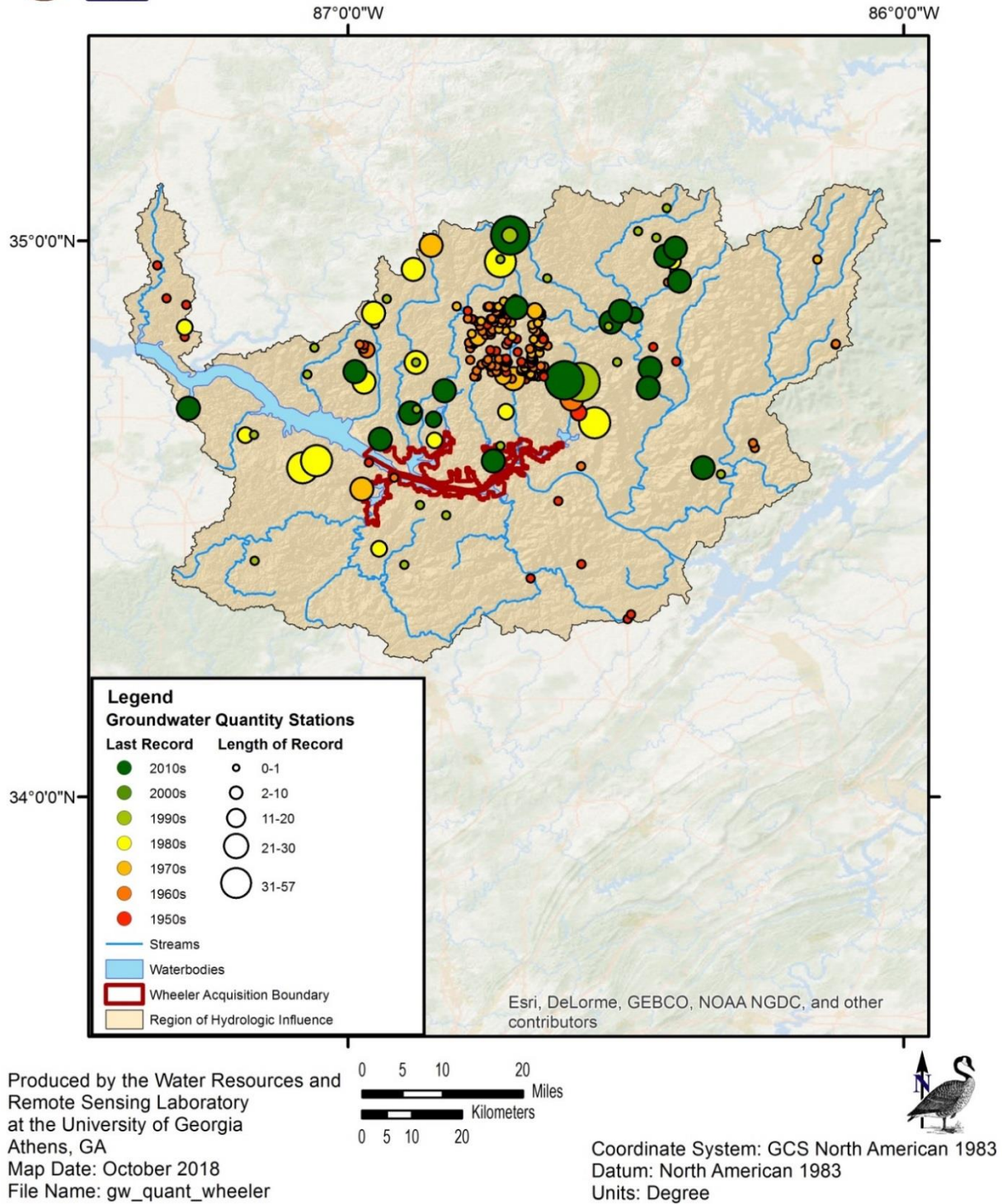


Figure A- 4. All groundwater quantity stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Groundwater Quality

Table A- 12. All groundwater quality stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34150808654280 1	(H-5)U.V. HARDIN	1963-09-03	1963-09-03	1	34.2523207	-86.9077822
34172608649500 1	(I-1)TURNER EVANS	1963-08-27	1963-08-27	1	34.2906525	-86.8305573
34175008640000 1	(B-1)J.A. CREEL	1963-08-26	1963-08-26	1	34.2973177	-86.6666621
34175608648100 1	(D-2)M.C. KINNEY	1963-08-27	1963-08-27	1	34.2989854	-86.8027785
34180008655520 1	(E-3)H.N. HAMMETT	1963-08-27	1963-08-27	1	34.3000977 9	-86.9311166
34180808652140 1	(D-1)JOAN GREEN	1963-08-27	1963-08-27	1	34.3023193 7	-86.8705588
34181408658120 1	(E-1)O.E. COOK	1964-09-22	1964-09-22	1	34.3039869 8	-86.9700069
34181608643140 1	(C-2)BELTON YANCY	1963-08-26	1963-08-26	1	34.3045401 8	- 86.72055319
34215908654370 1	X-107 FALKVILLE ALABAMA	1961-01-24	1961-01-24	1	34.3664851 7	-86.9102828
34250208653530 1	EHR-SUS12	1999-06-28	1999-06-28	2	34.4172222	-86.8980556
34252808710040 1	EHR-SUS11	1999-06-29	1999-06-29	2	34.4244444 4	-87.1677222
34274108636000 1	NEWSOME SINKS	1987-09-21	1987-09-21	1	34.4614813 5	-86.5999927
34302308649230 1	K-76 (EHR-SUS22)	1999-06-29	1999-06-29	2	34.5064694 4	-86.822975
34312808652110 1	EHR-SUS13	1999-06-28	1999-06-28	2	34.5244444 4	-86.8697222
34322208702150 1	M-100 J.W. LAMON	1959-04-09	1959-04-09	1	34.5395378 4	-87.0375108

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34323808625270 1	<u>Z- 47 TOWN OF NEW HOPE</u>	1971-04-21	1975-08-07	4	34.54397888	-86.4241536
34324608651030 1	<u>CAVE SPRING CAVE (WHEELER NWR) NR PRICEVILLE, AL</u>	2008-09-16	2008-09-16	1	34.5461111	-86.8508333
34332008621240 1	<u>T- 20 NOLAN BUTLER</u>	1971-07-16	1971-07-16	1	34.55564449	-86.3566522
34334408622300 1	<u>JOHN HONEA</u>	1968-10-31	1968-12-05	2	34.5623114	-86.374986
34334908650310 1	<u>ROCKHOUSE CAVE (WHEELER NWR) NR PRICEVILLE, AL</u>	2008-09-16	2008-09-16	1	34.5636111	-86.8419444
34344808619420 1	<u>EHR-SUS23</u>	1999-07-08	1999-07-08	2	34.5800833	-86.3283611
34352308627290 1	<u>U- 67 OWENS CROSSROADS WATER AUTHORITY</u>	1971-04-21	1975-08-07	4	34.58981269	-86.4580435
34353008621380 1	<u>EHR-LUS34</u>	2000-06-01	2012-04-16	4	34.59166667	-86.3604722
34353708644130 1	<u>X- 37 TOWN OF TRIANA</u>	1971-04-20	1975-08-04	4	34.5937031	-86.7369426
34360808632560 1	<u>V-106 M.B. SPRAGINS</u>	1971-06-25	1971-06-25	2	34.6023135	-86.5488797
34361308644170 1	<u>EHR-LUS36</u>	2000-05-25	2012-04-18	6	34.6036111	-86.7381944
34363908645500 1	<u>X- 45 A.G. AIR CO.</u>	1975-02-12	1975-08-04	3	34.61092526	-86.7638882
34375008643220 1	<u>X- 38 W. LEHMAN</u>	1975-02-12	1975-08-04	3	34.63064725	-86.7227754
34375208643300 1	<u>EHR-SUS21</u>	1999-06-29	1999-06-29	5	34.6312222	-86.72513889
34382508643140 1	<u>MT-122 WILLIAMS WELL-CITY OF HUNTSVILLE</u>	1970-09-15	1971-11-05	5	34.64036939	-86.720553
34382508643140 2	<u>X- 44 WILLIAMS WELL</u>	1974-11-06	1975-08-04	4	34.64036939	-86.720553
34382508643390 1	<u>MT-123 C.A. WILLIAMS</u>	1975-02-07	1975-08-01	3	34.6403694	-86.7274978
34383608656290 1	<u>EHR-LUS20</u>	2000-05-25	2012-04-17	6	34.64325	-86.9413056
34383808644100 1	<u>MT-126 I.W. GRAYSON</u>	1970-09-21	1975-08-01	4	34.6439805	-86.7361092

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34384008642080 1	<u>P- 78 REDSTONE ARSENAL-U.S. ARMY</u>	1972-04-21	1972-04-21	1	34.64453599	-86.702219
34384408644250 1	<u>MT-130 RAGLAND ESTATE</u>	1975-02-06	1975-08-01	3	34.64564718	-86.740276
34385208644110 1	<u>MT-129 RAGLAND ESTATE</u>	1975-02-06	1975-08-01	3	34.64786937	-86.736387
34390408710070 1	<u>EHR-SUS8 (H-02)</u>	1999-06-30	2012-04-13	3	34.651	-87.16875
34392308644230 1	<u>MT-111 UNIVERSITY OF ALABAMA AT HUNTSVILLE</u>	1970-07-01	1975-08-01	5	34.6564804	-86.7397205
34392908636250 1	<u>Q-209 REDSTONE ARSENAL-U.S. ARMY</u>	1972-04-21	1972-04-21	1	34.6581468	-86.6069376
34393208644090 1	<u>P- 68 JANE LOWE</u>	1968-01-24	1975-08-01	8	34.6589804	-86.7358314
34393308627360 1	<u>S- 34 BIG COVE WATER DISTRICT</u>	1971-04-21	1975-08-08	4	34.6592571	-86.4599883
34394108636060 1	<u>Q-198</u>	1969-09-10	1969-09-10	1	34.6614801	-86.6016597
34400108636360 1	<u>Q-204 LANDFILL TEST WELL-CITY OF HUNTSVILLE</u>	1973-05-07	1975-06-30	12	34.66703568	-86.6099933
34401008643320 2	<u>P- 27 NOLAN HILLS SUBDIVISION</u>	1975-02-05	1975-08-01	3	34.66953585	-86.7255532
34401308636000 1	<u>Q-202 LANDFILL TEST WELL-CITY OF HUNTSVILLE</u>	1973-09-25	1975-07-01	11	34.67036898	-86.599993
34402008625350 1	<u>Q-203 LANDFILL TEST WELL-CITY OF HUNTSVILLE</u>	1973-09-25	1975-07-01	11	34.6723121	-86.4263765
34403008643040 1	<u>P- 31 DRAKE WELL</u>	1975-02-05	1975-08-01	3	34.67509136	-86.7177752
34403708635530 1	<u>Q-205 LANDFILL TEST WELL-CITY OF HUNTSVILLE</u>	1973-09-26	1974-08-14	10	34.6770356	-86.5980484
34404208650430 1	<u>EHR-LUS21</u>	2001-04-16	2001-04-16	2	34.6783611	-86.8453611
34404308634370 1	<u>CT- 78 AARON FLEMING</u>	1971-09-24	1972-05-16	3	34.67870225	-86.5769365
34404408635540 1	<u>Q-208 LANDFILL TEST HOLE-CITY OF HUNTSVILLE</u>	1972-09-28	1974-07-16	25	34.67898006	-86.5983262
34404908636360 1	<u>CT- 76 REDSTONE ARSENAL-U.S. ARMY</u>	1971-09-24	1974-08-13	14	34.68036896	-86.6099933

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34405208635510 1	<u>Q-207 LANDFILL TEST HOLE-CITY OF HUNTSVILLE</u>	1972-09-28	1974-07-16	23	34.68120227	-86.5974929
34405408635490 1	<u>Q-206 LANDFILL TEST HOLE-CITY OF HUNTSVILLE</u>	1972-09-28	1974-08-14	24	34.6817578	-86.5969373
34405908635500 1	<u>Q-199 LANDFILL TEST HOLE-CITY OF HUNTSVILLE</u>	1971-08-06	1974-08-14	32	34.6831467	- 86.59721509
34410708634450 1	<u>CT- 46 CITY OF HUNTSVILLE</u>	1971-09-24	1974-08-13	10	34.6853689	-86.5791589
34412408653140 1	<u>EHR-LUS18</u>	2000-05-24	2015-06-11	11	34.6901464	-86.8871154
34412708635020 1	<u>CT- 43 CITY OF HUNTSVILLE</u>	1971-09-24	1974-08-13	15	34.69092445	-86.5838813
34413208642550 1	<u>CT 61</u>	1975-02-06	1975-08-01	3	34.69231345	-86.715275
34415008652340 1	<u>EHR-SUS14</u>	1999-06-29	1999-06-29	5	34.6970833	- 86.87606389
34415408717120 1	<u>EHR-LUS24</u>	2000-05-24	2012-04-11	6	34.69836759	-87.2866865
34420908645060 1	<u>MT-171</u>	1975-05-14	1975-08-04	2	34.70259117	- 86.75166529
34421308622190 1	<u>S- 33 TOWN OF GURLEY</u>	1971-04-21	1975-08-07	4	34.7037001	-86.3719311
34422508645020 1	<u>MT-170</u>	1975-05-08	1975-08-04	2	34.70703559	-86.7505541
34424108636120 1	<u>CT- 74 J. BLUE CO.</u>	1975-05-13	1975-08-01	2	34.71147994	- 86.60332649
34425408635490 1	<u>Q 79</u>	1975-02-05	1982-06-01	5	34.71509104	-86.5969374
34432008645430 1	<u>P- 35 GILLESPIE WELL-TOWN OF MADISON</u>	1971-04-20	1975-08-04	5	34.72231319	-86.7619435
34433808644590 1	<u>MT-169</u>	1975-05-08	1975-08-04	2	34.7273132	-86.7497207
34434808649340 1	<u>EHR-LUS35</u>	2000-05-25	2016-06-21	19	34.73005556	-86.8261111
34440708627340 1	<u>EHR-LUS9</u>	2000-06-01	2012-04-18	4	34.73519444	-86.4593611
34444308634520 2	<u>N-207 CITY OF HUNTSVILLE</u>	1970-12-22	1970-12-22	1	34.7453687	-86.5811035

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34444408634520 1	<u>N 51</u>	1981-06-04	1981-06-04	1	34.74564649	-86.5811035
34444408634530 1	<u>N-51 CITY OF HUNTSVILLE</u>	1974-11-07	1977-10-18	4	34.74564649	-86.5813813
34444508634530 1	<u>MAD 7-USGS 344445086345301</u>	1999-06-24	1999-06-24	2	34.74592426	-86.5813813
34445708636370 1	<u>MAD 4-USGS 344457086363701</u>	1975-02-05	1975-08-08	3	34.74925757	-86.6102713
34453508704220 1	<u>EHR-SUS7</u>	1999-06-30	1999-06-30	5	34.7597361	-87.0728222
34454008635530 1	<u>CT- 22 R.M. NEWMAN</u>	1975-02-06	1975-08-06	3	34.7612018	-86.5980487
34454508624400 1	<u>L- 32 MAYSVILLE WATER DISTRICT</u>	1971-04-21	1971-04-21	1	34.76258946	-86.411099
34455308659130 1	<u>EHR-LUS17</u>	2000-05-25	2012-04-19	4	34.76475	-86.9868611
34461508627220 1	<u>EHR-LUS31</u>	2000-06-01	2012-04-17	13	34.77075	-86.4560833
34461708626110 1	<u>L- 90 C.C. CROWSON</u>	1970-07-29	1971-06-14	3	34.77147864	-86.4363774
34463708630190 1	<u>MT-138 ELIZABETH MASTIN</u>	1971-09-08	1971-09-08	1	34.77703504	-86.5052678
34465108652380 1	<u>I-40 (EHR-SUS15)</u>	1999-06-24	1999-06-24	2	34.7809583	-86.87715
34465508630560 1	<u>EHR-SUS24</u>	1999-06-24	1999-06-24	2	34.7818611	-86.5155833
34470408643240 1	<u>O 70</u>	1971-04-20	1975-08-05	4	34.7845345	-86.723331
34474608640190 1	<u>MT-149 H.BRYANT</u>	1975-02-12	1975-08-04	3	34.79620106	-86.6719405
34474808640100 1	<u>MT 162</u>	1973-11-09	1975-08-05	4	34.7967566	-86.6694404
34475408639170 1	<u>MT 147</u>	1975-05-09	1975-08-05	2	34.79842328	-86.6547177
34475708635140 1	<u>N-263 N. OTEY</u>	1975-02-06	1975-02-06	1	34.79925676	-86.5872154
34475908635020 1	<u>N-240 B. GLOVER</u>	1975-05-14	1975-08-06	2	34.7998123	-86.5838819

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34482808703360 1	K-3 (EHR-SUS6)	1999-06-28	1999-06-28	2	34.80778056	-87.0598861
34483208717390 1	T 36	1982-06-08	1982-06-08	1	34.81453156	-87.2941862
34483208717400 1	T-32 CITY OF ROGERSVILLE	1981-06-23	1981-06-23	1	34.8089761	-87.294464
34483308717400 1	T-35 CITY OF ROGERSVILLE	1971-07-01	1971-07-23	4	34.8092539	-87.294464
34483608628360 1	MT-155 W. GRIMWOOD	1975-02-11	1975-08-06	3	34.81008986	-86.4766565
34485408628230 1	MT-164 J.M. MCCAULEY	1975-02-07	1975-08-06	3	34.81508976	-86.4730453
34485508629170 1	MT-154 W. GRIMWOOD	1975-02-11	1975-08-06	3	34.8153677	-86.4880456
34492808623490 1	I- 57 JOHN HAWKINS	1971-11-10	1971-12-20	2	34.8245332	-86.3969327
34493408717360 1	S-81 CITY OF RODGERSVILLE	1956-06-19	1956-11-17	2	34.82619796	-87.29335279
34500408634420 1	MT-153 PAUL RAGLAND	1973-10-13	1975-08-05	4	34.83453398	-86.5783265
34504508631500 1	EHR-SUS19	1999-06-23	1999-06-23	2	34.8457222	-86.5305833
34510308634090 2	MT-148 P. RAGLAND	1975-02-07	1975-08-06	3	34.85092264	-86.5691597
34510908642200 1	MT 136	1975-02-07	1975-02-07	1	34.8525887	-86.705553
34511208631340 1	EHR-LUS13	2000-06-01	2016-06-21	19	34.85344444	-86.5261667
34511708635510 1	MT-157 M. SANDERSON	1975-02-07	1975-08-05	3	34.85481135	-86.597494
34512008645340 1	F 89	1970-03-23	1970-03-23	3	34.85564395	-86.7602772
34512908717360 1	S-71 SAM SPRY	1968-10-22	1968-10-22	1	34.85814169	-87.2933526
34513108646310 1	F 51	1971-04-20	1975-08-05	4	34.85869935	-86.7752777
34513608637310 1	MT 145 L. BEAUFIT	1975-02-07	1975-08-05	3	34.8600889	-86.6252727

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34513808638310 1	MT-151 J. FRAZIER	1975-02-07	1975-08-05	3	34.86064439	-86.64194
34520608643300 1	MT 150	1975-02-07	1975-08-04	3	34.8684216	-86.7249982
34522208630330 1	EHR-LUS12	2000-06-07	2012-03-27	6	34.8728611	-86.5092222
34524708641500 1	EHR-LUS14	2000-05-31	2012-03-29	6	34.8798333	- 86.69713889
34534308655470 1	EHR-SUS16	1999-06-30	1999-06-30	5	34.8951611	-86.9297611
34553908624130 1	EHR-LUS10	2000-05-31	2012-03-28	6	34.9275	-86.4034722
34553908633350 1	C- 31 W. WHITE	1975-02-04	1975-08-05	3	34.92758814	- 86.55971579
34554608623590 1	MT-144 R. TURNER	1975-02-10	1975-08-07	3	34.9295324	-86.3997117
34555508624270 1	MT-160 R. TURNER	1975-02-10	1975-08-07	3	34.9320324	-86.4074897
34555608638300 1	D- 14 BISHOP WELL-HAZEL GREEN WATER DISTRICT	1971-04-21	1971-04-21	1	34.9323097	-86.6416628
34555808638280 1	EHR-SUS31	1999-07-01	1999-07-01	5	34.93266667	-86.64125
34561208625250 1	MT-117 HAZEL GREEN WATER DISTRICT	1970-06-23	1970-06-23	2	34.93675469	-86.4236012
34562208624420 1	MT-121 HAZEL GREEN WATER AUTHORITY	1970-09-23	1970-09-23	2	34.93953239	-86.4116565
34563908624440 1	MT0119	1970-07-09	1975-08-07	5	34.94425457	-86.4122121
34570408625150 1	MT-118 HAZEL GREEN WATER DISTRICT-E.T. BATES	1970-07-17	1975-08-07	5	34.95119899	-86.4208235
34574708624540 1	B 16	1975-02-10	1975-08-07	3	34.9631433	- 86.41499019
34580108643320 1	E-38 (EHR-SUS18)	1999-07-14	1999-07-14	2	34.96702778	-86.7255
34582208625400 1	EHR-LUS11	2000-06-06	2016-06-21	20	34.9727222	-86.4279167
34591208624390 1	EHR-LUS16	2000-05-31	2012-03-29	6	34.98675	-86.4108056

Site Number	Station Name	Start Date	End Date	Count	Latitude	Longitude
34592908651000 1	A 13-USGS 345929086510001	1981-06-04	1983-06-09	3	34.99147367	-86.8500028
35001808631170 1	Li:H-002	1990-05-22	1990-05-22	1	35.00508719	-86.52138219
35001908626420 1	Li:J-19 (EHR-SUS25)	1999-06-22	1999-06-22	2	35.00540278	-86.4449056
35003408642280 0	Li:G-001	1975-08-26	1976-04-14	4	35.0095298	-86.7077763
35003608642010 1	Li:G-011	1979-09-07	1979-09-07	1	35.01008544	-86.700276
35010208628400 1	Li:J-18 (EHR-SUS17)	1999-07-15	1999-07-15	5	35.0172361	-86.4776417
35023908633200 0	Li:H-001	1976-12-16	1976-12-16	1	35.0442523	-86.55555
35033108625330 1	Li:J-20 (EHR-SUS32)	1999-06-28	1999-06-28	2	35.0585	-86.4258333



Wheeler National Wildlife Refuge Groundwater Quality Stations

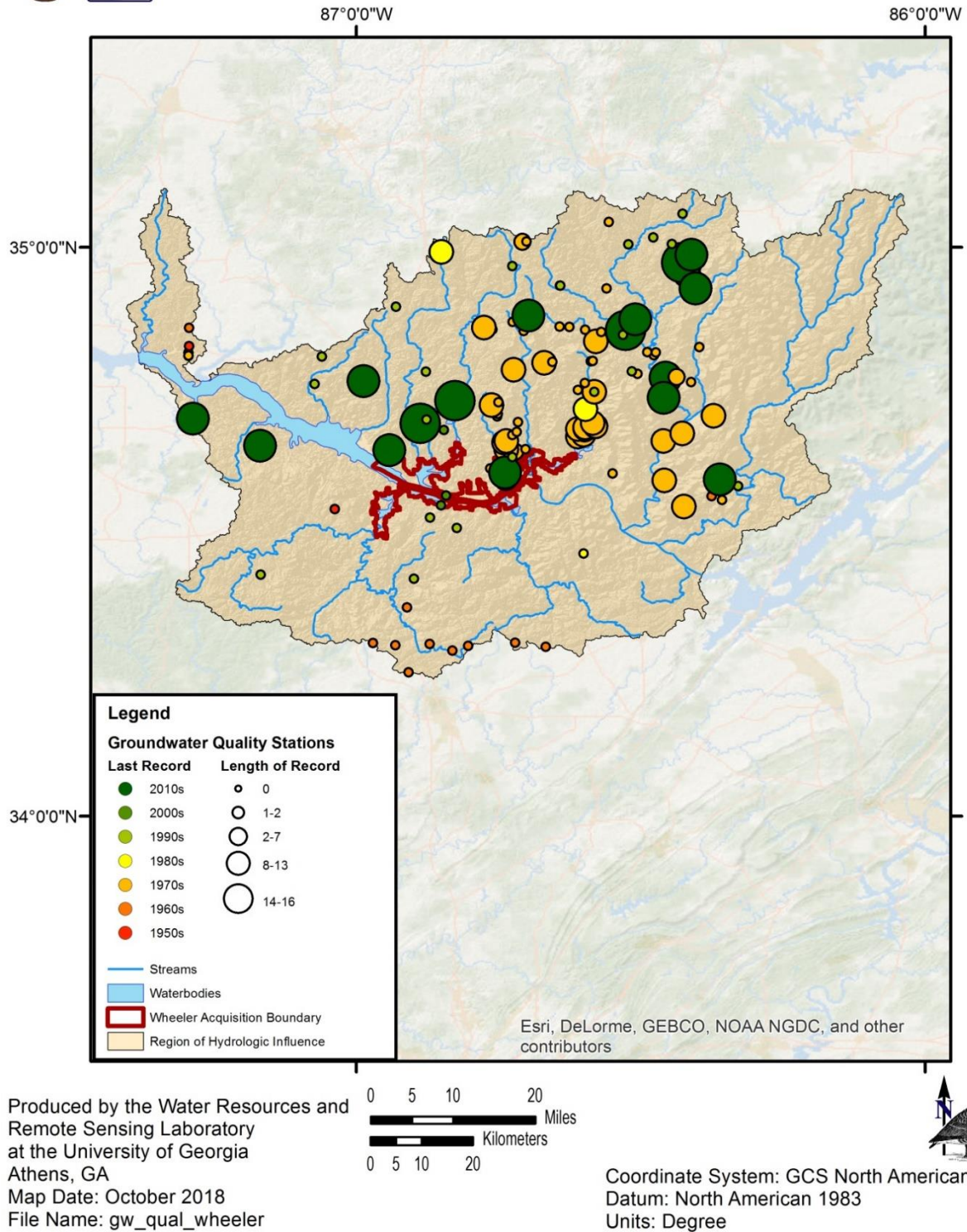


Figure A- 5. All groundwater quality stations in the RHI of Wheeler NWR. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Water Monitoring Stations with No Data

Table A- 13. All water monitoring stations in the RHI of Wheeler NWR with no available data. (USGS, 2018; National Water Quality Monitoring Council, 2018).

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
ADEM	21AWIC-3101	TENR-277	Reservoir	34.811861	-87.346444
ADEM	21AWIC-3103	TENR-281	Reservoir	34.759111	-87.307139
ADEM	21AWIC-3110	TENR-320	Reservoir	34.568444	-86.740639
ADEM	21AWIC-3114	TENR-347	Reservoir	34.439889	-86.421361
ADEM	21AWIC-3394	TENR-296	Reservoir	34.685	-87.098611
ADEM	21AWIC-1749	WCOT-1	River/ Stream	34.358552	-86.667214
ADEM	21AWIC-2348	DRBL-1	River/ Stream	34.64856	-87.140798
CSC_WQX	CSC_WQX-161	Wheeler Lake	Reservoir	34.8119	-87.3464
EPA (NARS)	NARS-OWW04440-0246	Paint Rock Creek	River/ Stream	34.49	-86.41
EPA (NARS)	NARS-OWW04440-0374	Flint River	River/ Stream	35.03	-86.49
EPA (NARS)	NARS_WQX-NLA06608-0404	Barren Fork Creek	Lake	34.62294864	-86.74048022
EPA (NARS)	NARS_WQX-NLA06608-1428	Swan Pond	Lake	34.60869379	-86.71661527
EPA (NARS)	NARS_WQX-NLA06608-2516	MISSING	Lake	34.6447019	-86.59260586
EPA (NARS)	NARS_WQX-NLA06608-3476	MISSING	Lake	34.56977455	-86.85773599
EPA (NARS)	NARS_WQX-NLA06608-4622	MISSING	Lake	34.375594	-86.63784054
EPA (NARS)	NARS_WQX-NLA06608-4769	MISSING	Lake	34.54309135	-86.7525799
TDECWPC	TDECWPC-DUCK220.2BE	DUCK RV	River/ Stream	34.76	-86.4753
TDECWPC	TDECWPC-BHUCK000.2LI	Big Huckleberry Ck.	River/ Stream	35.0455	-86.4269
TDECWPC	TDECWPC-COTTS003.4LW	Cotts Ck	River/ Stream	35.0066	-87.3115
TDECWPC	TDECWPC-CSPRI000.3LI	COTTRELL SPRINGS BR	River/ Stream	34.9963	-86.5216
TDECWPC	TDECWPC-CSPRI000.6LI	Cottrell Springs Br	River/ Stream	35.0029	-86.5165
TDECWPC	TDECWPC-FLINT059.9LI	FLINT RV	River/ Stream	35.0339	-86.4784
TDECWPC	TDECWPC-FOWLE004.8LI	Fowler Ck	River/ Stream	35.0057	-86.6174
TDECWPC	TDECWPC-HARBI000.4LI	Harbin BR	River/ Stream	35.0256	-86.5037
TDECWPC	TDECWPC-HESTE003.0LI	Hester Ck	River/ Stream	34.9927	-86.4388
TDECWPC	TDECWPC-MASON000.1LI	MASON BR	River/ Stream	34.9971	-86.5211
TDECWPC	TDECWPC-SECON022.0LW	Second Ck.	River/ Stream	35.029	-87.345
TDECWPC	TDECWPC-TROTT000.5LI	Trotters BR	River/ Stream	35.0375	-86.488
TDECWPC	TDECWPC-WALKE002.4LI	WALKER BR	River/ Stream	35.0553	-86.5762

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
TDECWPC	TDECWPC-WALKE002.8LI	Walker CK	River/ Stream	34.9954	-86.579
TDECWPC	TDECWPC-WASHB000.8LI	Washburn BR	River/ Stream	35.0432	-86.6076
TDECWR_WQX	TDECWR_WQX-TNW000002477	FLINT RIVER	River/ Stream	35.01193	-86.50223
TDECWR_WQX	TDECWR_WQX-TNW000003276	Johnson BRANCH	River/ Stream	35.00014	-86.81229
USGS	342202086544301	X 108	Well	34.3673185	-86.9119495
USGS	342456087054601	N 34-USGS 342456087054601	Well	34.41565197	-87.0961235
USGS	342502086390701	R 144	Well	34.4173157	-86.6519393
USGS	342635086563701	O 26-USGS 342635086563701	Well	34.44315054	-86.9436178
USGS	343316087091501	P 3-USGS 343316087091501	Well	34.55453765	-87.154182
USGS	343332087041201	MOK0000	Well	34.5589819	-87.070012
USGS	343603086444901	EHR-LUS15	Well	34.6007222	-86.7469167
USGS	343956086194901	X 8	Well	34.66564394	-86.33026339
USGS	344444086345302	N 51 CITY OF HUNTSVILLE	Well	34.74564649	-86.5813813
USGS	344504086465501	O 98	Well	34.75120169	-86.7819442
USGS	344505086433701	O 33-USGS 344505086433701	Well	34.75147967	-86.7269421
USGS	344507086421701	O 83	Well	34.7520352	-86.7047191
USGS	344513086425501	O 31	Well	34.75370185	-86.715275
USGS	344519086435001	O 32-USGS 344519086435001	Well	34.75536847	-86.7305534
USGS	344523086400201	N 238	Well	34.7564796	-86.66721779
USGS	344737086400701	MT 161	Well	34.7937011	-86.668607
USGS	344824086453501	O 101	Well	34.80675615	-86.7597214
USGS	345040086394801	G 105	Well	34.84453349	-86.6633294
USGS	345103086340901	MT 148	Well	34.85092264	-86.5691597
USGS	345318086414901	F 83	Well	34.88842136	-86.6969419
USGS	345318086443301	F 97	Well	34.8884211	-86.7424989
USGS	345323086105301	J 8-USGS 345323086105301	Well	34.88980838	-86.1813732
USGS	350033086422900	LI:G-4	Well	35.00925206	-86.708054
USGS	0357479423	UNNAMED SPRING NR HESTER CR NR VANNTOWN, TN	Spring	34.99203198	-86.4397133
USGS	0357479490	UNNAMED SPRING NEAR FAIRVIEW, ALABAMA	Spring	34.9786988	-86.4516579
USGS	03576143	R 157 HUGHES SPRING	Spring	34.41703758	-86.5938813
USGS	03577160	PRYOR SPRING NEAR OAKLAND AL P 29	Spring	34.6781464	-86.9483401
USGS	342501086353801	R 157	Spring	34.41703758	-86.5938813
USGS	342611086234801	K 8-USGS 342611086234801	Spring	34.4364798	-86.3966524

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
USGS	342612086272701	K 4-USGS 342612086272701	Spring	34.43675835	-86.4574874
USGS	342730086244301	K 1-USGS 342730086244301	Spring	34.458424	-86.4119307
USGS	342747086324101	L 1-USGS 342747086324101	Spring	34.4631476	-86.5447126
USGS	342831086454201	J 80	Spring	34.47537107	-86.76166599
USGS	342832086474101	K 142	Spring	34.475649	-86.7947229
USGS	342836086524001	K 119	Spring	34.47676059	-86.8777819
USGS	342900086513601	K 120	Spring	34.483427	-86.8600034
USGS	342911086442601	J 67	Spring	34.48648187	-86.740554
USGS	342914086525901	K 112	Spring	34.48731598	-86.88306
USGS	342923086452701	J 71-USGS 342923086452701	Spring	34.48981526	-86.7574992
USGS	342933086502501	K 91	Spring	34.4925934	-86.8402804
USGS	342934086350201	I 200	Spring	34.49286964	-86.5838808
USGS	342952086362501	I 188	Spring	34.4978697	-86.6069374
USGS	342952086524801	K 107	Spring	34.4978713	-86.8800043
USGS	342954086371101	I 175	Spring	34.49842534	-86.6197157
USGS	343001086370401	I 174	Spring	34.50036974	-86.6177711
USGS	343008086372901	I 173	Spring	34.5023142	-86.6247159
USGS	343009086450201	J 36	Spring	34.5025928	-86.7505544
USGS	343014086342601	H 13-USGS 343014086342601	Spring	34.50398056	-86.5738804
USGS	343029086424201	J 44	Spring	34.50814808	-86.7116639
USGS	343035086462301	J 31-USGS 343035086462301	Spring	34.50981508	-86.7730554
USGS	343036086404201	I 143	Spring	34.5100923	-86.6783292
USGS	343044086374701	I 129	Spring	34.5123142	-86.62971609
USGS	343048086375201	I 130	Spring	34.5134253	-86.631105
USGS	343056086501901	K 44-USGS 343056086501901	Spring	34.51564865	-86.8386137
USGS	343100086475001	K 35	Spring	34.51675957	-86.797223
USGS	343104086485701	K 41-USGS 343104086485701	Spring	34.51787075	-86.8158349
USGS	343108086474701	K 34	Spring	34.51898177	-86.7963897
USGS	343110086514601	K 51-USGS 343110086514601	Spring	34.5195376	-86.8627814
USGS	343127086360601	I 124	Spring	34.52425844	-86.6016594
USGS	343130086304901	Y 5-USGS 343130086304901	Spring	34.52509126	-86.5136002
USGS	343210086233701	Z 12-USGS 343210086233701	Spring	34.53620064	-86.3935973
USGS	343215086352001	I 108	Spring	34.53759165	-86.5888811
USGS	343231086493501	K 21	Spring	34.54203718	-86.82639089
USGS	343246086510401	K 1-USGS 343246086510401	Spring	34.54620388	-86.8511141
USGS	343410086323201	V 73	Spring	34.56953577	-86.5422127

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
USGS	343410086364301	F 6-USGS 343410086364301	Spring	34.56953609	-86.6119377
USGS	343434087121101	I 29-USGS 343434087121101	Spring	34.57620385	-87.2030728
USGS	343439086284401	V 72	Spring	34.5775908	-86.4788772
USGS	343452086285701	V 71	Spring	34.58120197	-86.4824884
USGS	343531086292101	V 70	Spring	34.59203539	-86.4891553
USGS	343607086253001	U 83	Spring	34.60203439	-86.4249873
USGS	343647086214701	U 107	Spring	34.6131445	-86.3630415
USGS	343649086210201	T 15-USGS 343649086210201	Spring	34.61369988	-86.3505413
USGS	343655086222101	U 86	Spring	34.61536689	-86.3724862
USGS	343728086240601	U 3-USGS 343728086240601	Spring	34.624534	-86.4016536
USGS	343833086322401	R 69-USGS 343833086322401	Spring	34.64259117	-86.5399906
USGS	343852086260501	S 41	Spring	34.6478678	-86.4347099
USGS	343852087101701	I 4-USGS 343852087101701	Spring	34.6478689	-87.1714047
USGS	343901087152301	G 39-USGS 343901087152301	Spring	34.65036876	-87.256408
USGS	343908087150701	G 39-USGS 343908087150701	Spring	34.65231316	-87.2519635
USGS	343936086200801	X 7-USGS 343936086200801	Spring	34.66008848	-86.3355412
USGS	343952086345601	Q 169	Spring	34.66453564	-86.58221449
USGS	343954086440701	P 73	Spring	34.66509146	-86.7352758
USGS	344047086454601	P 33-USGS 344047086454601	Spring	34.67981355	-86.7627769
USGS	344053086252001	S 40	Spring	34.6814787	-86.4222098
USGS	344059087110201	H 8-USGS 344059087110201	Spring	34.68314587	-87.1839052
USGS	344113086203101	X 3-USGS 344113086203101	Spring	34.68703299	-86.3419304
USGS	344118086185101	X 4-USGS 344118086185101	Spring	34.68842144	-86.31415209
USGS	344131086292801	R 71	Spring	34.6920353	-86.4911002
USGS	344209087153801	G 21-USGS 344209087153801	Spring	34.7025897	-87.2605747
USGS	344223086360101	Q 161	Spring	34.70647996	-86.6002708
USGS	344254086364501	Q 200	Spring	34.71509104	-86.6124935
USGS	344314086454701	P 34	Spring	34.7206465	-86.7630546
USGS	344333086383301	Q 196	Spring	34.7259243	-86.6424946
USGS	344335086332501	R 94	Spring	34.72647988	-86.5569359
USGS	344346086351201	N 185	Spring	34.7295354	-86.5866592
USGS	344405086242801	BLAIR SPRING NEAR GURLEY AL L 97	Spring	34.73481175	-86.4077654
USGS	344405086501201	I 5-USGS 344405086501201	Spring	34.73481269	-86.8366687
USGS	344410086183201	W 1-USGS 344410086183201	Spring	34.73619907	-86.3088745
USGS	344418086223401	L 96	Spring	34.73842235	-86.3760981

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
USGS	344419086501601	I 4-USGS 344419086501601	Spring	34.7387015	-86.83777989
USGS	344420086502001	I 3-USGS 344420086502001	Spring	34.7389793	-86.838891
USGS	344446086314901	M 259	Spring	34.74620207	-86.5302684
USGS	344456086414801	O 99	Spring	34.7489797	-86.6966632
USGS	344458086283901	M 186	Spring	34.74953507	-86.477489
USGS	344553086103501	V 7-USGS 344553086103501	Spring	34.76480809	-86.1763722
USGS	344553086112901	V 3-USGS 344553086112901	Spring	34.7648083	-86.1913724
USGS	344608086144101	V 6-USGS 344608086144101	Spring	34.7689758	-86.2447068
USGS	344611086253401	L 84	Spring	34.76981184	-86.4260994
USGS	344640086544201	J 65	Spring	34.777867	-86.9116718
USGS	344648086293001	M 38	Spring	34.78009045	-86.49165639
USGS	344655086354001	N 19-USGS 344655086354001	Spring	34.7820348	-86.5944377
USGS	344657086431501	O 100	Spring	34.7825901	-86.720831
USGS	344703086292801	M 247	Spring	34.78425705	-86.4911009
USGS	344712086354701	N 14-USGS 344712086354701	Spring	34.78675695	-86.5963822
USGS	344720086552701	J 69	Spring	34.78897778	-86.9241722
USGS	344730086545901	J 46	Spring	34.79175554	-86.9163941
USGS	344757086224001	L 85	Spring	34.79925537	-86.3777654
USGS	344815086580801	J 34	Spring	34.80425494	-86.9688962
USGS	344817086540801	J 58	Spring	34.80481089	-86.9022269
USGS	344818086282001	M 2-USGS 344818086282001	Spring	34.80508987	-86.4722119
USGS	344825086280601	M 246	Spring	34.80703424	-86.4683229
USGS	344832086215101	L 86	Spring	34.80897736	-86.364154
USGS	344833086565101	J 15-USGS 344833086565101	Spring	34.80925496	-86.9475064
USGS	344854086424401	O 3-USGS 344854086424401	Spring	34.81508947	-86.7122197
USGS	344900086261601	I 56	Spring	34.81675598	-86.4377668
USGS	344925086182101	I 2-USGS 344925086182101	Spring	34.8236988	-86.3058197
USGS	344926086592501	G 62	Spring	34.82397658	-86.9902858
USGS	344948086210401	J 1-USGS 344948086210401	Spring	34.8300882	-86.3510985
USGS	345016086243901	I 53	Spring	34.83786659	-86.410822
USGS	345020086143801	J 7-USGS 345020086143801	Spring	34.83897587	-86.243874
USGS	345032086310301	H 105	Spring	34.84231186	-86.5174913
USGS	345042086340601	H 14-USGS 345042086340601	Spring	34.8450894	-86.5683263
USGS	345103086235301	I 52	Spring	34.8509219	-86.3980441
USGS	345125086545801	G 25	Spring	34.8570318	-86.9161163
USGS	345143086541401	G 44-USGS 345143086541401	Spring	34.8620318	-86.90389359

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
USGS	345159086534801	G 42-USGS 345159086534801	Spring	34.86647619	-86.8966711
USGS	345208086151701	I 3-USGS 345208086151701	Spring	34.868976	-86.2547078
USGS	345232086130001	J 169-USGS 345232086130001	Spring	34.87564219	-86.21665159
USGS	345248086464101	F 5-USGS 345248086464101	Spring	34.88008774	-86.7780557
USGS	345257086564901	G 19-USGS 345257086564901	Spring	34.8825866	-86.9469507
USGS	345308086404901	F 92	Spring	34.8856437	-86.6802747
USGS	345327086543201	G 21-USGS 345327086543201	Spring	34.89092	-86.9088937
USGS	345356086161301	I 1-USGS 345356086161301	Spring	34.89897616	-86.27026399
USGS	345445086075001	F 3-USGS 345445086075001	Spring	34.9125855	-86.1305391
USGS	345538086233901	B 53-USGS 345538086233901	Spring	34.92731017	-86.394156
USGS	345539086455601	UNNAMED SPRING NEAR TONEY E 10	Spring	34.92758677	-86.7655554
USGS	345556087202401	B 43-USGS 345556087202401	Spring	34.93230658	-87.3400199
USGS	345606086361001	D 69	Spring	34.9350877	-86.6027727
USGS	345617086311501	C 98	Spring	34.9381438	-86.5208258
USGS	345711086280401	C 99	Spring	34.9531436	-86.4677691
USGS	345740086242101	B 55-USGS 345740086242101	Spring	34.96119884	-86.4058233
USGS	345756086235901	B 56-USGS 345756086235901	Spring	34.9656432	-86.399712
USGS	03375420	Flint River at mi 0.3 near Hobbs Island, Alabama	River/ Stream	34.5045358	-86.5244339
USGS	0357479412	CAVE SPRING TRIB AT HWY 121 NR ELORA, TN	River/ Stream	35.00953156	-86.3638783
USGS	0357479465	PRATER SP TRIB AT HWY 121 NR ROSEBORO, AL	River/ Stream	34.9828653	-86.4047124
USGS	03574803	BRIER FK FLINT R TRIB S OF UNITY CH NR TAFT, TN	River/ Stream	34.9984193	-86.67638649
USGS	03574804	BRIER FORK FLINT RIVER NR HAZEL GREEN, ALA	River/ Stream	34.97730866	-86.670275
USGS	0357526160	Unnamed Trib (B-14) to Big Cove Cr at Huntsville,	River/ Stream	34.73286877	-86.5222125
USGS	0357526170	Unnamed Trib (B-8)to Big Cove Cr nr Huntsville, AL	River/ Stream	34.72175767	-86.5113787
USGS	0357526180	Unnamed Trib (B-9) to Big Cove Cr nr Huntsville, A	River/ Stream	34.722591	-86.5130454
USGS	03575501	TENNESSEE RIVER AT WHITESBURG (STAGE ONLY), AL.	River/ Stream	34.57175806	-86.5580466
USGS	0357569120	UNNAMED TRIB TO ALDRIDGE CREEK NR LILY FLAGG	River/ Stream	34.64620228	-86.5424907

Agency	Site Number	Station Name	Site Type	Latitude	Longitude
USGS	03575693	UNNAMED TRIB TO ESSLINGER SPG BRANCH NR LILY FLA	River/ Stream	34.6395356	-86.53999059
USGS	03575879	PINHOOK C ABV HOLMES AVE AT HUNTSVILLE, ALA	River/ Stream	34.73120209	-86.5952707
USGS	0357614550	CATACO C AT CRAWFORD BRIDGE NR FLORETTE, ALA	River/ Stream	34.40787144	-86.6533282
USGS	03576180	LIMESTONE CREEK NEAR TAFT, TN	River/ Stream	35.01452944	-86.73583259
USGS	03576190	LIMESTONE C AT ELKWOOD SECTION ROAD, ELKWOOD AL	River/ Stream	34.97758595	-86.72861
USGS	03576403	JOHNSON BRANCH NEAR ATHENS AL	River/ Stream	34.7973112	-86.8772259
USGS	03576575	SHOAL CREEK NR HARTSELLE, ALA	River/ Stream	34.43842827	-86.92111689
USGS	03576700	NO BUSINESS CREEK AT AT IRONMAN RD NR DECATUR, AL.	River/ Stream	34.44815088	-87.0216765
USGS	03577118	FLINT CREEK NEAR DECATUR,ALA	River/ Stream	34.491483	-86.9647301
USGS	03577149	TENNESSEE RIVER WATER SUPPLY INTAKE,DECATUR,ALA	River/ Stream	34.60425877	-86.9608408
USGS	03577520	BRILEY CREEK NEAR PROCTOR AL	River/ Stream	34.7181454	-87.0408438
USGS	03577540	TENNESSEE RIVER AT BROWNS FERRY PLANT (WITHDRAWAL)	River/ Stream	34.70120115	-87.1191803
USGS	03577541	TENNESSEE RIVER @ BROWNS FERRY NUCLEAR PL (RELEASE	River/ Stream	34.7084232	-87.1144579
USGS	344106086355401	UNNAMED TRIB #2,HUNTSVILLE SB, NW OF LANDFILL	River/ Stream	34.68509115	-86.5983263
USGS	344115086353201	LEACHATE DRAIN DITCH,E. EDGE HUNTSVILLE LANDFILL	Ditch	34.6875911	-86.5922149



Wheeler National Wildlife Refuge

Water Monitoring Stations with No Available Data

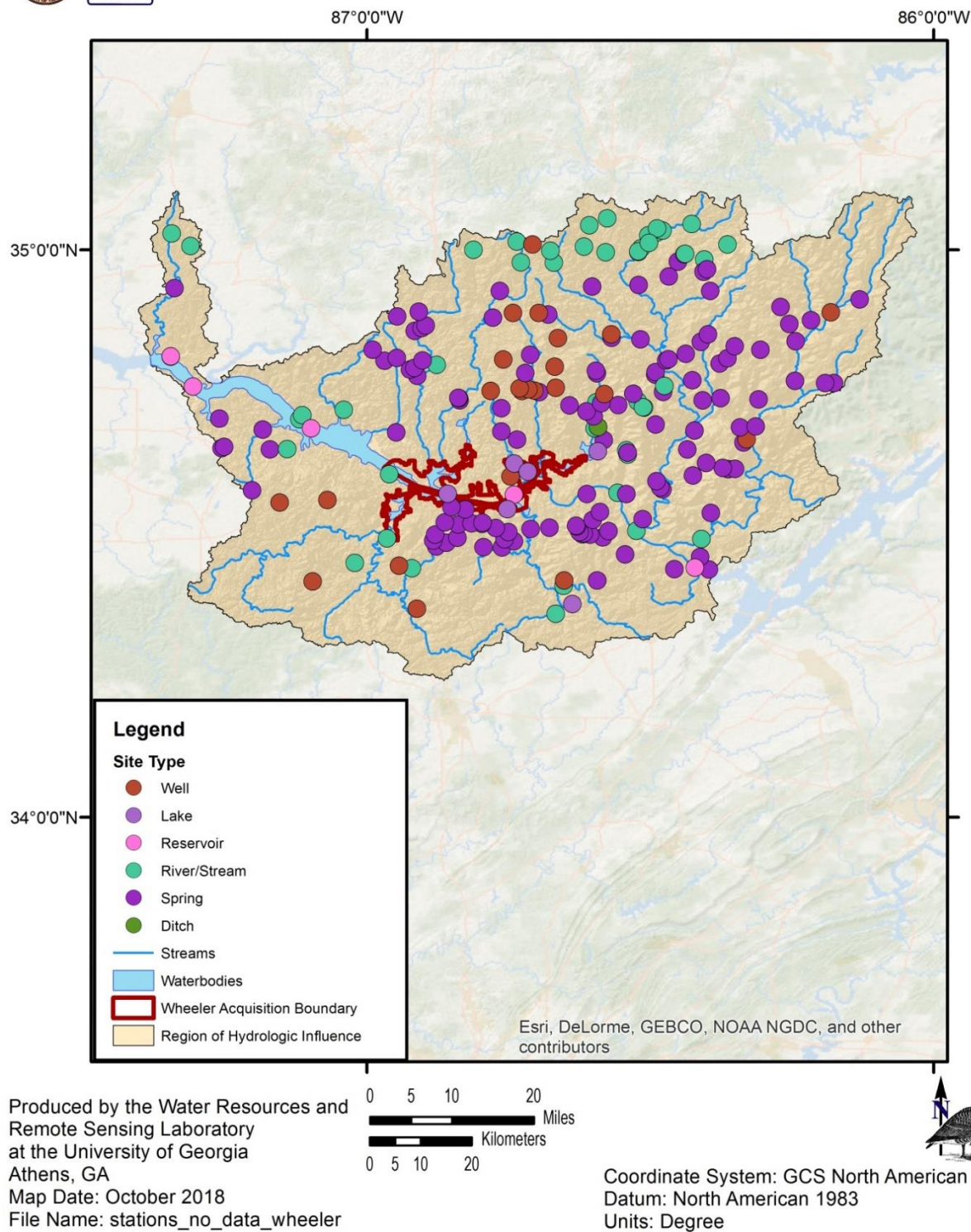


Figure A- 6. All water monitoring stations with no available data in the RHI. (USGS, 2018; National Water Quality Monitoring Council, 2018).

APPENDIX G

THREATENED OR ENDANGERED SPECIES AND

MIGRATORY BIRDS

Table A- 14. Threatened or endangered species in the RHI of Wheeler NWR. Asterisks represent species that are found in the acquisition boundary of Wheeler NWR. The “CH” represents the species that have a final critical habitat by the USFWS. (USFWS, 2011).

Group	Common Name	Scientific Name	Status
Mammals	Gray Bat*	<i>Myotis grisescens</i>	Endangered
Mammals	Indiana Bat (CH)*	<i>Myotis sodalis</i>	Endangered
Mammals	Northern Long-eared Bat*	<i>Myotis septentrionalis</i>	Threatened
Reptiles	Flattened Musk Turtle	<i>Sternotherus depressus</i>	Threatened
Amphibians	Black Warrior (=sipsey Fork) Waterdog (CH)	<i>Necturus alabamensis</i>	Endangered
Fishes	Boulder Darter	<i>Etheostoma wapiti</i>	Endangered
Fishes	Boulder Darter, Shoal Creek	<i>Etheostoma wapiti</i>	EXPN
Fishes	Palezone Shiner	<i>Notropis albizonatus</i>	Endangered
Fishes	Rush Darter (CH)	<i>Etheostoma phytophilum</i>	Endangered
Fishes	Slackwater Darter (CH)	<i>Etheostoma boschungii</i>	Threatened
Fishes	Snail Darter	<i>Percina tanasi</i>	Threatened
Fishes	Spotfin Chub (CH)	<i>Erimonax monachus</i>	Threatened
Fishes	Spring Pygmy Sunfish (CH)*	<i>Elassoma alabamae</i>	Threatened
Clams	Alabama Lampmussel	<i>Lampsilis virescens</i>	Endangered
Clams	Alabama Moccasinshell (CH)	<i>Medionidus acutissimus</i>	Threatened
Clams	Cracking Pearlymussel	<i>Hemistena lata</i>	Endangered
Clams	Cumberland Bean (pearlymussel)	<i>Villosa trabalis</i>	Endangered
Clams	Cumberlandian Combshell (CH)	<i>Epioblasma brevidens</i>	Endangered
Clams	Dark Pigtoe (CH)	<i>Pleurobema furvum</i>	Endangered
Clams	Dromedary Pearlymussel	<i>Dromus dromas</i>	Endangered

Group	Common Name	Scientific Name	Status
Clams	Finerayed Pigtoe	<i>Fusconaia cuneolus</i>	Endangered
Clams	Fluted Kidneyshell (CH)	<i>Ptychobranhus subtentum</i>	Endangered
Clams	Littlewing Pearlymussel	<i>Pegias fabula</i>	Endangered
Clams	Orangenacre Mucket (CH)	<i>Lampsilis perovalis</i>	Threatened
Clams	Ovate Clubshell (CH)	<i>Pleurobema perovatum</i>	Endangered
Clams	Pale Lilliput (pearlymussel)	<i>Toxolasma cylindrellus</i>	Endangered
Clams	Pink Mucket (pearlymussel)*	<i>Lampsilis abrupta</i>	Endangered
Clams	Rabbitsfoot (CH)	<i>Quadrula cylindrica cylindrica</i>	Threatened
Clams	Rayed Bean	<i>Villosa fabalis</i>	Endangered
Clams	Rough Pigtoe*	<i>Pleurobema plenum</i>	Endangered
Clams	Sheepnose Mussel*	<i>Plethobasus cyphus</i>	Endangered
Clams	Shiny Pigtoe	<i>Fusconaia cor</i>	Endangered
Clams	Slabside Pearlymussel (CH)	<i>Pleurobema dolabelloides</i>	Endangered
Clams	Snuffbox Mussel*	<i>Epioblasma triquetra</i>	Endangered
Clams	Spectaclecase (mussel)	<i>Cumberlandia monodonta</i>	Endangered
Clams	Triangular Kidneyshell (CH)	<i>Ptychobranhus greenii</i>	Endangered
Clams	Tubercled Blossom (pearlymussel)	<i>Epioblasma torulosa torulosa</i>	Endangered
Clams	Turgid Blossom (pearlymussel)	<i>Epioblasma turgidula</i>	Endangered
Snails	Anthony's Riversnail*	<i>Athearnia anthonyi</i>	Endangered
Snails	Armored Snail*	<i>Pyrgulopsis (=Marstonia) pachyta</i>	Endangered
Snails	Painted Snake Coiled Forest Snail	<i>Anguispira picta</i>	Threatened
Snails	Slender Campeloma*	<i>Campeloma decampi</i>	Endangered
Crustaceans	Alabama Cave Shrimp*	<i>Palaemonias alabamae</i>	Endangered
Flowering Plants	Fleshy-fruit Gladecress (CH)*	<i>Leavenworthia crassa</i>	Endangered
Flowering Plants	Kral's Water-plantain	<i>Sagittaria secundifolia</i>	Threatened
Flowering Plants	Leafy Prairie-clover	<i>Dalea foliosa</i>	Endangered

Group	Common Name	Scientific Name	Status
Flowering Plants	Morefield's Leather Flower*	<i>Clematis morefieldii</i>	Endangered
Flowering Plants	Price's Potato-bean*	<i>Apios priceana</i>	Threatened
Flowering Plants	White Fringeless Orchid	<i>Platanthera integrilabia</i>	Threatened
Ferns and Allies	American Hart's-tongue Fern	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	Threatened

Table A- 15. Migratory birds within the RHI of Wheeler NWR. Asterisks represent species that are found in the acquisition boundary of Wheeler NWR. (USFWS, 2011).

Common Name	Scientific Name	Level of Concern	Breeding Season
Bald Eagle*	<i>Haliaeetus leucocephalus</i>	Non-BCC Vulnerable	Breeds Sep 1 to Aug 31
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	BCC Rangewide (CON)	Breeds May 15 to Oct 10
Blue-winged Warbler*	<i>Vermivora pinus</i>	BCC - BCR	Breeds May 1 to Jun 30
Bobolink	<i>Dolichonyx oryzivorus</i>	BCC Rangewide (CON)	Breeds May 20 to Jul 31
Canada Warbler	<i>Cardellina canadensis</i>	BCC Rangewide (CON)	Breeds May 20 to Aug 10
Cerulean Warbler	<i>Dendroica cerulea</i>	BCC Rangewide (CON)	Breeds Apr 23 to Jul 20
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	BCC Rangewide (CON)	Breeds May 1 to Aug 20
Golden Eagle*	<i>Aquila chrysaetos</i>	Non-BCC Vulnerable	Breeds elsewhere
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	BCC Rangewide (CON)	Breeds May 1 to Jul 20
Henslow's Sparrow*	<i>Ammodramus henslowii</i>	BCC Rangewide (CON)	Breeds May 1 to Aug 31
Kentucky Warbler*	<i>Oporornis formosus</i>	BCC Rangewide (CON)	Breeds Apr 20 to Aug 20
King Rail*	<i>Rallus elegans</i>	BCC Rangewide (CON)	Breeds May 1 to Sep 5
Le Conte's Sparrow*	<i>Ammodramus leconteii</i>	BCC - BCR	Breeds elsewhere
Lesser Yellowlegs*	<i>Tringa flavipes</i>	BCC Rangewide (CON)	Breeds elsewhere
Prairie Warbler*	<i>Dendroica discolor</i>	BCC Rangewide (CON)	Breeds May 1 to Jul 31
Red-headed Woodpecker*	<i>Melanerpes erythrocephalus</i>	BCC Rangewide (CON)	Breeds May 10 to Sep 10
Rusty Blackbird*	<i>Euphagus carolinus</i>	BCC Rangewide (CON)	Breeds elsewhere
Semipalmated Sandpiper*	<i>Calidris pusilla</i>	BCC Rangewide (CON)	Breeds elsewhere
Smith's Longspur	<i>Calcarius pictus</i>	BCC - BCR	Breeds elsewhere
Wood Thrush*	<i>Hylocichla mustelina</i>	BCC Rangewide (CON)	Breeds May 10 to Aug 31

Common Name	Scientific Name	Level of Concern	Breeding Season
Yellow-bellied Sapsucker	<i>sphyrapicus varius</i>	BCC - BCR	Breeds May 10 to Jul 15

APPENDIX H

IMPAIRED WATERBODIES

Table A- 16. All impaired waters in the RHI of Wheeler NWR. The asterisks indicate a TMDL is needed. (EPA, 2015).

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
AL06030002-0903-100	Aldridge Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	11.66
AL06030002-0305-100	Beaverdam Creek	Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000	19.01
TN060300021149_0600	Big Huckleberry Creek	Alteration in Stream-Side or Littoral Vegetative Covers*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	12.72
AL06030002-1011-100	Big Shoal Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	13.55
AL06030002-0306-110	Brier Fork	Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000, 1998, 1996	20.09
AL06030002-0902-200	Cane Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	6.77
AL06030002-1004-100	Cedar Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	8.85
AL06030002-0403-302	Chase Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006	2.14

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
AL06030002-0203-402	Cole Spring Branch	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006	1.77
TN060300021149_0100	Cottrell Spring Branch	Alteration in Stream-Side or Littoral Vegetative Covers*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	8.70
AL06030002-1001-100	East Fork Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	15.05
AL06030002-1009-112	Elam Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006	11.60
AL06030004-0405-101	Elk River (Wheeler Lake)	Phosphorus (Total)*, pH*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000	0.25
AL06030002-0602-900	Fall Creek	Carbonaceous BOD (CBOD)*, Nitrogenous BOD (NBOD)*	2014	2012	3.53
AL06030002-1013-900	Flat Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	7.41
AL06030002-1007-102	Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	12.57
AL06030002-1014-104	Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	9.87
AL06030002-1014-103	Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Mercury*, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	9.04
AL06030002-1014-102	Flint Creek (Wheeler Lake)	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	4.86

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
TN060300021149_1000	Flint River	Physical Substrate Habitat Alterations*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	22.65
AL06030002-0403-112	Flint River	Fecal Coliform, Turbidity*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000	14.82
AL06030002-0404-200	Goose Creek	Carbonaceous BOD (CBOD), Escherichia Coli (E. Coli), Nitrogenous BOD (NBOD)	2016	2014, 2012, 2010, 2008, 2006, 2004	8.56
AL06030002-0106-101	Guess Creek	Carbonaceous BOD (CBOD)*, Escherichia Coli (E. Coli), Nitrogenous BOD (NBOD)*, Whole Effluent Toxicity (WET)*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000, 1998	10.82
TN060300021216_0211	Harper Creek	Alteration in Stream-Side or Littoral Vegetative Covers*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	3.08
AL06030002-1006-200	Herrin Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	6.29
TN060300021124_1000	Hester Creek	Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	14.87
AL06030002-0303-500	Hester Creek	Fecal Coliform	2016	2014, 2012, 2010, 2008, 2006, 2004	7.18
AL06030002-0601-300	Hughes Creek	Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000, 1998	2.97
AL06030002-0503-102	Huntsville Spring Branch	Arsenic*, Mercury*	2016	2014, 2012, 2010, 2008, 2006	2.20
AL06030002-0501-110	Indian Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	6.09
AL06030002-1003-510	Indian Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	4.21

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
AL06030002-0703-102	Limestone Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	9.29
AL06030002-0906-600	Limestone Creek (Wheeler Lake)	Mercury*	2016	2014, 2012, 2010, 2008, 2006	3.29
AL06030002-0204-302	Little Paint Rock Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006	2.20
AL06030002-1007-500	Mack Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	5.44
AL06030002-1106-100	Mallard Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006	12.87
AL06030002-1012-201	McDaniel Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	3.88
AL06030002-0603-600	Mill Pond Creek	Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000, 1998	1.26
AL06030002-0602-200	Mud Creek	Carbonaceous BOD (CBOD)*, Nitrogenous BOD (NBOD)*	2014	2012, 2010, 2008, 2006	3.38
AL06030002-1008-101	No Business Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	7.13
AL06030002-1003-112	Robinson Creek	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	6.38
AL06030002-1103-202	Round Island Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	3.43
AL06030002-1005-100	Shoal Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	10.96

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
AL06030002-1101-101	Swan Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD), Phosphorus (Total)*, Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	8.10
AL06030002-1101-102	Swan Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	2.68
AL06030002-1005-200	Town Branch	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total)	2016	2014, 2012, 2010, 2008, 2006, 2004	1.87
AL06030002-0604-100	Town Creek	Carbonaceous BOD (CBOD), Nitrogenous Bod (NBOD)	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000	8.39
TN060300021149_0300	Trotters Branch	Alteration in Stream-Side or Littoral Vegetative Covers*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	16.86
AL06030002-1005-150	Unnamed Tributary to Town Branch	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total)	2016		1.17
AL06030002-1014-702	Village Branch	Carbonaceous BOD (CBOD), Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	5.73
TN060300021216_0200	Walker Creek	Alteration in Stream-Side or Littoral Vegetative Covers*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	12.72
TN060300021216_0210	Washburn Branch	Alteration in Stream-Side or Littoral Vegetative Covers*, Dissolved Oxygen*, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002	14.60
AL06030002-1013-100	West Flint Creek	Carbonaceous BOD (CBOD), Fecal Coliform, Nitrogen (Total), Phosphorus (Total), Sedimentation/Siltation	2016	2014, 2012, 2010, 2008, 2006, 2004	22.70
AL06030002-0602-102	West Fork Cotaco Creek	Fecal Coliform, Sedimentation/Siltation*	2016	2014, 2012, 2010, 2008, 2006, 2004, 2002, 2000, 1998	7.56

Feature ID	Waterbody	Reason for Impairment	Most Recent Year	Other Available Years	Miles in the RHI
AL06030002-0602-800	Widner Creek	Carbonaceous BOD (CBOD)*, Nitrogenous BOD (NBOD)*	2014	2012	6.29
AL06030002-0405-300	Yellow Bank Creek	Carbonaceous BOD (CBOD), Nitrogenous BOD (NBOD)	2016	2014, 2012, 2010, 2008, 2006, 2004	5.62

APPENDIX I

NPDES PERMIT FACILITIES

Table A- 17. All facilities with NPDES permits in the RHI of Wheeler NWR. (EPA, 2016)

Registry ID	Name	Type	City	Latitude	Longitude
110064258137	HUNTSVILLE WESTERN AREA WWTP	Major	MADISON	34.567911	-86.764384
110000589355	US TVA BROWNS FERRY NUCLEAR PLANT	Major	ATHENS	34.700611	-87.116111
110045447469	DAIKIN AMERICA INC	Major	DECATUR	34.63147	-87.03843
110056961417	BP AMOCO CHEMICALS	Major	DECATUR	34.640326	-87.062543
110014464739	ALDRIDGE CREEK WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.586885	-86.563373
110030772830	MORRESVILLE WWTP	Major	BELLE MINA	34.703361	-86.866889
110002040381	HARTSELLE WWTP	Major	HARTSELLE	34.408333	-86.941667
110013684085	MADISON WWTP	Major	MADISON	34.555833	-86.761389
110001934211	SPRING BRANCH WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.670861	-86.597917
110000367567	3M COMPANY	Major	DECATUR	34.641667	-87.038611
110011890604	ATHENS WWTP	Major	ATHENS	34.830179	-86.965201
110055975583	HUNTSVILLE BIG COVE WWTP	Major	BROWNSBORO	34.72109	-86.4899
110007235269	ASCEND PERFORMANCE MATERIALS	Major	DECATUR	34.633889	-87.024444
110014464748	CHASE AREA WASTEWATER TREATMENT PLANT	Major	HUNTSVILLE	34.78591	-86.48303
110009123849	MAGNOLIA SPRINGS WWTP	Major	HARVEST	34.785984	-86.785622
110055974557	DECATUR DRY CREEK WWTP	Major	DECATUR	34.628333	-86.998611
110044241433	GRAVEL BRANCH FARM	Minor	ATHENS	34.89685	-86.87487
110044241406	JOHN REED PROPERTY	Minor	ARAB	34.367881	-86.500327
110059703566	WALMART NEIGHBORHOOD MARKET #7342-00 HUNTSVILLE (NW)	Non-Major	MADISON	34.793653	-86.74917
110010070421	LITRELL BROTHERS LUMBER CO	Non-Major	VINEMONT	34.266765	-86.866392
110007232752	TORAY CARBON FIBERS AMERICA INC	Non-Major	DECATUR	34.625	-87.018611
110010103707	NEWLY WEDS FOOD INC	Non-Major	DECATUR	34.547044	-86.982555
110010070047	EAST LIMESTONE HIGH SCHOOL GYM	Non-Major	ATHENS	34.782944	-86.835389
110020421042	ATHENS LIMESTON MEDICAL VILLAGE	Non-Major	ATHENS	34.778056	-86.923889

Registry ID	Name	Type	City	Latitude	Longitude
110012679896	<u>DEER VALLEY SUBDIVISION</u>	Non-Major	MAYSVILLE	34.831111	-86.4625
110020532949	<u>WOMENS PAVILION</u>	Non-Major	HUNTSVILLE	34.7225	-86.575
110020720371	<u>BOB JONES HS ADD BALLFIELDS</u>	Non-Major	MADISON	34.721389	-86.745278
110020541305	<u>MAPLE RIDGE SUBDIVISION</u>	Non-Major	MOONTOWN	34.672222	-86.488889
110020541314	<u>SITE IMPV FOR EXISTING BLDG</u>	Non-Major	JEFF	34.751667	-86.707222
110020185315	<u>CREEKSTONE PHASE III</u>	Non-Major	MOONTOWN	34.641667	-86.48
110020180659	<u>KELLY PLANTATION ESTATES</u>	Non-Major	HARVEST	34.836389	-86.732222
110020133559	<u>NEW SANCTUARY</u>	Non-Major	HUNTSVILLE	34.748889	-86.629167
110040087642	<u>ROCK STORE (SKYLINE GROCERY)</u>	Non-Major	SCOTTSBORO	34.81245	-86.123694
110014337333	<u>SHADOW CREEK LLC</u>	Non-Major	MADISON	34.640278	-86.726389
110020071465	<u>COUNTY ROAD 371</u>	Non-Major	MOULTON	34.577778	-87.177778
110020069708	<u>BLUE WATER SUBDIVISION</u>	Non-Major	MADISON COUNTY	34.920278	-86.651389
110020069824	<u>CASTLETON PHASE I IV</u>	Non-Major	PRICEVILLE	34.520278	-86.876389
110020429231	<u>COBBLESTONE FARMS</u>	Non-Major	HUNTSVILLE	34.6825	-86.440833
110022282439	<u>CHULA VISTA RIDGE SUBDIVISION</u>	Non-Major	DECATUR	34.5375	-87.056111
110020395044	<u>EAST LIMESTONE SANITARY SEWER</u>	Non-Major	MADISON COUNTY	34.595833	-86.769722
110020385359	<u>HERITAGE ELEMENTARY SCHOOL</u>	Non-Major	MADISON	34.715833	-86.781111
110020060814	<u>PULASKI PIKE BORROW PIT</u>	Non-Major	MADISON COUNTY	34.790556	-86.616389
110020427778	<u>GREYSTONE SUBDIVISION PH ONE</u>	Non-Major	HARVEST	34.78	-86.705
110020531227	<u>WEST HIGH SCHOOL</u>	Non-Major	HUNTSVILLE	34.720833	-86.701389
110022281886	<u>TAYLOR LYNN EST</u>	Non-Major	ARDMORE	34.950278	-86.819861
110020833222	<u>TAYLOR BEND SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.786111	-86.476944
110020837736	<u>METHANE SUBSTATION AND PIPELNE</u>	Non-Major	TRINITY	34.629722	-87.098889
110020831135	<u>HARVEST RIDGE SUBDIVISION</u>	Non-Major	CAPSHAW	34.859444	-86.777778
110020831304	<u>HOLMES ROAD BRIDGE REPLACEMENT</u>	Non-Major	EVA	34.321944	-86.783056
110020831411	<u>MADISON MCP 45 91 01</u>	Non-Major	TONEY	34.916389	-86.748333
110020833785	<u>DEERFOOT ESTATES</u>	Non-Major	TRINITY	34.568056	-87.045
110020390281	<u>FORREST HILLS SANTIARY SEWER</u>	Non-Major	HUNTSVILLE	34.688611	-86.496389
110020408986	<u>PHILLIPS SITE</u>	Non-Major	HACKSELLE	34.449444	-86.937222
110020183219	<u>SUMMIT PARK</u>	Non-Major	MADISON COUNTY	34.785	-86.506667
110020186528	<u>WALDEN PRESERVE</u>	Non-Major	GREENBRIER	34.728889	-86.7725
110020182924	<u>ANTLER POINT SUBDIVISION</u>	Non-Major	CAPSHAW	34.817778	-86.838611

Registry ID	Name	Type	City	Latitude	Longitude
110020187331	HARVEST CHURCH OF CHRIST	Non-Major	JEFF	34.853361	-86.748722
110006792505	SIMMONS READY MIX CONCRETE INC	Non-Major	HAZEL GREEN	34.925558	-86.57186
110020178314	COLLISION CENTER	Non-Major	MADISON COUNTY	34.641667	-86.568889
110045514154	MCDONALD'S RESTAURANT	Non-Major	HUNTSVILLE	34.64268	-86.56656
110020521746	PRICEVILLE BRANCH	Non-Major	DECATUR	34.57144	-87.02042
110055622321	LIBERTY 66 #121	Non-Major	HUNTSVILLE	34.73748	-86.60642
110043504794	DYNETICS	Non-Major	HUNTSVILLE	34.73551	-86.68471
110043727090	LEE HIGH SCHOOL ATHLETIC FIELDS	Non-Major	HUNTSVILLE	34.753184	-86.575809
110043501225	JOHN HUNT PARK	Non-Major	HUNTSVILLE	34.68939	-86.584442
110043504115	REED CONTRACTING SERVICES FITC	Non-Major	HUNTSVILLE	34.7887	-86.66992
110003377738	MID SOUTH SALVAGE	Non-Major	DECATUR	34.604348	-87.015353
110000746925	UNITED PLATING INCORPORATED	Non-Major	HUNTSVILLE	34.78383	-86.53297
110000741225	WAH CHANG ALABAMA	Non-Major	HUNTSVILLE	34.6983	-86.69802
110007407706	OAK CLASSICS	Non-Major	DECATUR	34.526535	-86.941587
110043498408	SUBSTATION ON HWY 53	Non-Major	HARVEST	34.835032	-86.703595
110006788734	AMERICAN RECYCLING INC	Non-Major	HARTSELLE	34.55441	-86.97351
110000368101	GILES & KENDALL INC	Non-Major	HUNTSVILLE	34.777389	-86.440312
110044884685	MADISON MEDICAL PARK	Non-Major	MADISON	34.74914	-86.76556
110007916390	PRAXAIR INC	Non-Major	HUNTSVILLE	34.574	-86.54668
110044881624	WHITWORTH FARMS SUBDIVISION	Non-Major	MADISON	34.69997	-86.78658
110000780370	OWENS-ALABAMA METAL FINISHING CO. INC.	Non-Major	ATHENS	34.760638	-86.970785
110003390152	TYCO FIRE PRODUCTS, LP	Non-Major	MADISON	34.599337	-86.758956
110003034760	NORTHROP GRUMMAN SYSTEMS CORP	Non-Major	HUNTSVILLE	34.720985	-86.680403
110006652336	DIXIE MIDWEST EXPRESS INC	Non-Major	DECATUR	34.60437	-87.01317
110001147394	US ARMY GARRISON - REDSTONE	Non-Major	HUNTSVILLE	34.64694	-86.67305
110009122653	RILEY MAZE WASTEWATER TRMT PLT	Non-Major	ARAB	34.3302	-86.5213
110006787487	OWENS CROSS ROADS WWTP	Non-Major	OWENS CROSS ROADS	34.5876	-86.4638
110009040215	TOMS PARTS AND SALVAGE	Non-Major	DECATUR	34.59615	-87.05872
110003023077	BOEING COMPANY THE	Non-Major	HUNTSVILLE	34.62425	-86.7717
110043270956	HUNTER HOMES INDIVIDUAL LOTS B	Non-Major	MERIDIANVILL E	34.88077	-86.51802
110006823410	SKYLINE AUTO SALVAGE	Non-Major	SCOTTSBORO	34.813265	-86.117118
110027362716	INTEGRA MADISON COUNTY WWTF	Non-Major	MERIDIANVILL E	34.860761	-86.535746

Registry ID	Name	Type	City	Latitude	Longitude
110056285407	<u>JACKSON PAVING AND CONSTRUCTION CO INC</u>	Non-Major	GURLEY	34.71545	-86.40397
110054128421	<u>BB&T MADISON (HUNTSVILLE)</u>	Non-Major	HUNTSVILLE	34.748824	-86.767238
110054128573	<u>EMERALD RIDGE APARTMENTS</u>	Non-Major	HUNTSVILLE	34.77164	-86.67649
110057194539	<u>CVS PHARMACY STORE #10516</u>	Non-Major	HARVEST	34.845483	-86.712182
110046314868	<u>SHOPPES OF MADISON</u>	Non-Major	MADISON	34.750582	-86.757998
110010107794	<u>READY MIX USA LLC (ATHENS PLANT)</u>	Non-Major	ATHENS	34.817597	-86.965343
110046285961	<u>OPTIMIST PARK EXPANSIONS</u>	Non-Major	HUNTSVILLE	34.74908	-86.57656
110033017410	<u>UPI - BEECHMONT FACILITY</u>	Non-Major	HUNTSVILLE	34.78383	-86.53297
110063718767	<u>ASAHI KASEI PLASTICS - ATHENS PLANT</u>	Non-Major	ATHENS	34.81941	-86.96734
110062653917	<u>BFI TRANSFER SYSTEMS OF ALABAMA</u>	Non-Major	ATHENS	34.79052	-87.08502
110054121008	<u>PANDA EXPRESS RESTAURANT-LOT 7B- COLONIAL PROMENADE</u>	Non-Major	MADISON	34.747779	-86.773508
110010107507	<u>HUNTSVILLE PLANT</u>	Non-Major	HUNTSVILLE	34.78126	-86.63605
110057195869	<u>RIVERTREE CHURCH EXPANSION</u>	Non-Major	HUNTSVILLE	34.64151	-86.48426
110055248325	<u>DOCTOR OFFICE BUILDING</u>	Non-Major	HUNTSVILLE	34.81108	-86.71356
110055248343	<u>EASTVIEW DRIVE EXTENSION</u>	Non-Major	MADISON	34.719869	-86.741648
110025380683	<u>KEENUM EXCAVATION AND CONSTRUCTION</u>	Non-Major	ATHENS	34.774709	-86.956392
110042358301	<u>COOKS PEST CONTROL INC</u>	Non-Major	HUNTSVILLE	34.62006	-86.56879
110039168496	<u>SOUTH LIMESTONE COUNTY QUARRY</u>	Non-Major	TANNER	34.69095	-86.954666
110020838520	<u>ARAB BRANCH</u>	Non-Major	HULACO	34.33575	-86.50069
110021840481	<u>LEE CAMPUS ATHLETIC FACILITIES PHASE IV</u>	Non-Major	HUNTSVILLE	34.753184	-86.575809
110055213567	<u>MONTE SANO UNITED METHODIST CHURCH</u>	Non-Major	HUNTSVILLE	34.74039	-86.53207
110063719365	<u>DOWNTOWN FLOOD MITIGATION - PART I</u>	Non-Major	HARTSELLE	34.448052	-86.933526
110043022029	<u>JERRY L SMITH</u>	Non-Major	HARVEST	34.84136	-86.70878
110056118874	<u>LEGACY MARKETPLACE</u>	Non-Major	HUNTSVILLE	34.675858	-86.54156
110043275158	<u>ALDI INC SHOPPES LAWSON RIDGE</u>	Non-Major	MADISON	34.75488	-86.73618
110056958118	<u>TDY INDUSTRIES LLC (DBA ATI FIRTH STERLING)</u>	Non-Major	HUNTSVILLE	34.69936	-86.69501
110054901399	<u>ENCORE SPORTSMED PROFESSIONAL BUILDING</u>	Non-Major	DECATUR	34.60434	-86.98506
110024380891	<u>CJA USED CAR AUTO SALES</u>	Non-Major	HUNTSVILLE	34.83956	-86.55
110043736703	<u>POLYPLEX AMERICAS INC.</u>	Non-Major	DECATUR	34.65328	-87.07016
110044264827	<u>RIVER RIDGE SUBDIVISION PHASE I AND IIA</u>	Non-Major	OWENS CROSS ROADS	34.601389	-86.488056
110043739103	<u>BUILDING 7770</u>	Non-Major	HUNTSVILLE	34.613116	-86.594583
110056120905	<u>MULLINS BEND</u>	Non-Major	HAZEL GREEN	34.97645	-86.58206
110044881438	<u>HUNT PROPERTY</u>	Non-Major	TANNER	34.669664	-86.950228
110044879619	<u>TAP TO REDSTONE ARSENAL</u>	Non-Major	HUNTSVILLE	34.679583	-86.676717

Registry ID	Name	Type	City	Latitude	Longitude
110044878040	<u>EAGLE'S LANDIND CONDOMINIUMS</u>	Non-Major	MADISON	34.682233	-86.761883
110020133906	<u>AUTUMN BRANCH PHASE 2</u>	Non-Major	MADISON	34.69703	-86.72016
110042365801	<u>HUNTSVILLE HOSP MADISON MED PA</u>	Non-Major	MADISON	34.749054	-86.766015
110063868337	<u>TURNER FARMS SUBDIVISION, PHASE III AND IV</u>	Non-Major	HUNTSVILLE	34.80431	-86.46269
110043753177	<u>OLDE RIVER CROSSING SUBDIVISION</u>	Non-Major	DECATUR	34.544	-86.89432
110045476533	<u>TEDAC EARLY UTILITIES</u>	Non-Major	HUNTSVILLE	34.647361	-86.664278
110045515705	<u>ASHTYNN MANOR PHASE V</u>	Non-Major	HUNTSVILLE	34.609831	-86.578572
110045516893	<u>CARPENTER SPECIALTY ALLOYS</u>	Non-Major	TANNER	34.661086	-86.950333
110044249257	<u>JOHNSON SCHOOL SEWER IMPROVEMENTS-CONTRACT C AND D</u>	Non-Major	ATHENS	34.80291	-86.84136
110020069833	<u>ASHLEY GREEN SUBDIVISION</u>	Non-Major	MADISON	34.747346	-86.774481
110046286265	<u>SITE 1 INGRAM ROAD AT SPRING CREEK</u>	Non-Major	ATHENS	34.79331	-86.983
110020128672	<u>IKARD COMMERICAL TRACT</u>	Non-Major	JEFF	34.8175	-86.690278
110043730629	<u>DIRT PIT - OLD SCHOOL HOUSE RD.</u>	Non-Major	ARDMORE	34.982283	-86.799283
110063875739	<u>KENNEDY'S USED CARS</u>	Non-Major	WOODVILLE	34.743692	-86.190839
110020071820	<u>FOX RIDGE</u>	Non-Major	MADISON COUNTY	34.937778	-86.713333
110020531254	<u>HH VISITOR PARKING DECK</u>	Non-Major	HUNTSVILLE	34.724444	-86.581389
110054908329	<u>NEW RETAIL DEVELOPMENT</u>	Non-Major	ATHENS	34.779103	-86.921825
110054897849	<u>RIVERBEND II</u>	Non-Major	HUNTSVILLE	34.7975	-86.479722
110054123621	<u>TOWN OF PRICEVILLE MOSQUITO CONTROL</u>	Non-Major	DECATUR	34.535744	-86.903356
110054120606	<u>PULASKI PIKE - NEW RETAIL STORE</u>	Non-Major	TONEY	34.900475	-86.671362
110054101235	<u>BAMA CONCRETE PRODUCTS</u>	Non-Major	TANNER	34.716741	-86.957618
110043759849	<u>HUNTSVILLE ATHLETIC CLUB</u>	Non-Major	HUNTSVILLE	34.69113	-86.59203
110042364107	<u>FITE BUILDING COMPANY INC</u>	Non-Major	DECATUR	34.57363	-86.97288
110054100879	<u>MARTIN LUTHER KING, JR. ELEMENTARY SCHOOL</u>	Non-Major	HUNTSVILLE	34.7649	-86.57263
110000589088	<u>DYNASTY BOATS INC</u>	Non-Major	VINEMONT	34.26791	-86.88315
110054906713	<u>HARTSELLE-MORGAN COUNTY REGIONAL AIRPORT</u>	Non-Major	HARTSELLE	34.410027	-86.929257
110054908043	<u>CREST PARK 2ND ADDITION-LOT 18; TWICKENHAM VILLAGE LOTS: 2,9, 10</u>	Non-Major	HUNTSVILLE	34.669886	-86.515379
110055092206	<u>WALGREENS</u>	Non-Major	HUNTSVILLE	34.660024	-86.489354
110010104047	<u>HUNTSVILLE MADISON COUNTY RAILROAD</u>	Non-Major	HUNTSVILLE	34.729379	-86.595584
110003025137	<u>MACHINE CRAFT INC</u>	Non-Major	HUNTSVILLE	34.77263	-86.57243
110002105230	<u>DOORCRAFT OF ALABAMA</u>	Non-Major	HARTSELLE	34.41655	-86.91584
110043500360	<u>CLINTON AVENUE OVER PINHOOK CREEK</u>	Non-Major	HUNTSVILLE	34.72727	-86.59416
110030773063	<u>HOUSING INVESTORS INC</u>	Non-Major	DECATUR	34.52395	-86.8932

Registry ID	Name	Type	City	Latitude	Longitude
110055622795	DAVIDSON TECHNOLOGIES ADDITION	Non-Major	HUNTSVILLE	34.72692	-86.68311
110000601947	NASA MARSHALL SPACE FLIGHT CENTER	Non-Major	HUNTSVILLE	34.631111	-86.669444
110020431709	ADOT STPOA 8541 600	Non-Major	JEFF	34.771111	-86.6725
110020426779	SHELTON RD INTERSECTION IMPRVM	Non-Major	MADISON	34.690833	-86.711111
110020131294	WINDSOR PARKE	Non-Major	GREENBRIER	34.72325	-86.768778
110020185752	WEDGEWOOD AT THE RESERVE	Non-Major	MADISON	34.66	-86.724444
110017888286	OVERLAND DEVELOP AND CONST LLC	Non-Major	BROWNSBORO	34.76	-86.406389
110020180150	GRAYSTONE ESTATES	Non-Major	TONEY	34.916667	-86.8
110043500501	COUNTRY LIVING ESTATES ADDITION NO 1	Non-Major	HARTSELLE	34.47985	-87.02415
110043726019	HARVEST LANDING PHASE II LOTS	Non-Major	MADISON	34.82912	-86.75487
110044884630	NEW DOLLAR GENERAL- MOULTON (HWY 24)	Non-Major	MOULTON	34.537778	-87.161667
110044881633	PAUL C. DAVIS SUBDIVISION	Non-Major	DECATUR	34.619569	-87.049789
110044878264	GREENBRIER EAST LOT 3	Non-Major	MADISON	34.644286	-86.837278
110021847634	BLOSSOMWOOD ELEMENTARY	Non-Major	HUNTSVILLE	34.72307	-86.56719
110000367530	WORTHINGTON STEEL CO	Non-Major	DECATUR	34.645461	-87.069899
110010100595	PETROLEUM SALES CO	Non-Major	DECATUR	34.60003	-86.95969
110013405038	DECATUR-MORGAN COUNTY REGIONAL MSW LANDFILL	Non-Major	TRINITY	34.625853	-87.100856
110020421523	SOUTH CHAPEL HILL ESTATES	Non-Major	TRINITY	34.525	-87.053333
110020185093	MCDONALDS RESTAURANT	Non-Major	DECATUR	34.590278	-86.980278
110020186298	RIDEOUT ROAD VISTOR CENTER	Non-Major	HUNTSVILLE	34.698333	-86.673889
110020180668	FOLSOM FIELD	Non-Major	CULLMAN	34.258611	-86.861667
110020179974	CUMBERLAND PLACE PHASE 2	Non-Major	ATHENS	34.796583	-86.843528
110020060761	CARROLL ESTATES	Non-Major	MADISON COUNTY	34.867778	-86.758333
110020834061	A STORAGE PLACE 14TH STREET	Non-Major	DECATUR	34.566944	-86.965278
110055620582	HUNTSVILLE HOSPITAL BRANCH, LOT 5, SUTTON ROAD PROPERTIES PHASE II	Non-Major	BIG COVE	34.66003	-86.489799
110044269412	CORPS OF ENGINEERS STORMWATER MANAGEMENT BASIN	Non-Major	REDSTONE ARSENAL	34.676944	-86.691389
110020182988	RIVERWALK PHASE 2	Non-Major	HUNTSVILLE	34.831944	-86.476111
110043726974	FIELDSTONE PHASE I	Non-Major	ATHENS	34.754053	-86.877417
110064258119	AUSTIN HINDS MOTORS INC	Non-Major	ARAB	34.328325	-86.565108
110013761321	PINEY CHAPEL SCHOOL FORCE MAIN AND PUMPING STATION	Non-Major	ATHENS	34.855861	-86.932513
110006789939	ACE USED CARS AND PARTS	Non-Major	HAZEL GREEN	34.9123	-86.5718
110009456356	HYCO ALABAMA LLC	Non-Major	ARAB	34.31936	-86.47733

Registry ID	Name	Type	City	Latitude	Longitude
110009065368	<u>ADOT STPOA 8513 600</u>	Non-Major	MADISON	34.665278	-86.786944
110020423040	<u>CHAPEL HILL ESTATES</u>	Non-Major	DECATUR	34.505278	-87.051667
110020185388	<u>MURDOCK HANGAR</u>	Non-Major	MADISON COUNTY	34.852778	-86.552222
110013683852	<u>AUTUMN POINT SUBDIVISION</u>	Non-Major	MADISON	34.771944	-86.739167
110020526322	<u>SHAMROCK SUBDIVISION</u>	Non-Major	MADISON	34.681028	-86.757972
110020833696	<u>MERIMAC SOCCER PARK</u>	Non-Major	HUNTSVILLE	34.705278	-86.604167
110020529668	<u>ROME ROAD PUMP STATION</u>	Non-Major	MADISON COUNTY	34.601944	-86.766944
110020178396	<u>99 701 421 099 402</u>	Non-Major	ATHENS	34.655833	-87.006111
110020177182	<u>HERITAGE STATION PHASE 3</u>	Non-Major	MADISON	34.718889	-86.778611
110064292322	<u>NTS HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.69259	-86.71224
110064300493	<u>JUST ANOTHER FARM</u>	Non-Major	FALKVILLE	34.31242	-86.84214
110045490358	<u>GRAYSON PLACE AT SANCTUARY COVE - PHASES I AND II</u>	Non-Major	HUNTSVILLE	34.626611	-86.4881
110054906722	<u>BELL PRIMITIVE BAPTIST CHURCH</u>	Non-Major	DECATUR	34.593333	-87.013333
110043756888	<u>NH-0002 (538) PS 1161</u>	Non-Major	BROWNSBORO	34.774	-86.5391
110044253599	<u>STRATFORD COMMONS</u>	Non-Major	DECATUR	34.57363	-86.97288
110043762381	<u>FARLEY-GUNTERSVILLE 161-KV TRANSMISSION LINE IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.60279	-86.54972
110054905199	<u>PARKVIEW BAPTIST CHURCH</u>	Non-Major	DECATUR	34.56003	-86.98703
110020431086	<u>ADOT APD 0235 045 I IR 5655</u>	Non-Major	MERIDIANVILL E	34.759722	-86.570833
110010085086	<u>HERITAGE PROVENCE PHASE 5</u>	Non-Major	MADISON	34.73	-86.741111
110020536419	<u>KHOLER</u>	Non-Major	MADISON COUNTY	34.669167	-86.741944
110020185672	<u>MADISON CHURCH OF CHRIST</u>	Non-Major	MADISON	34.718611	-86.746667
110020403632	<u>RICHLAND PARK</u>	Non-Major	MADISON	34.75	-86.708333
110020390245	<u>UNION CHAPEL MISS BAPT CHURCH</u>	Non-Major	MADISON COUNTY	34.791389	-86.569444
110020070607	<u>SOUTH RIDGE SUBDIVISION</u>	Non-Major	MADISON COUNTY	34.765556	-86.725
110000589355	<u>US TVA BROWNS FERRY NUCLEAR PLANT</u>	Non-Major	ATHENS	34.700611	-87.116111
110042975634	<u>HABITAT FOR HUMANITY HOPE PLACE</u>	Non-Major	ATHENS	34.799086	-86.976714
110044244868	<u>ASHTYNN MANOR</u>	Non-Major	HUNTSVILLE	34.614208	-86.577967
110044249220	<u>BUILDING 3777</u>	Non-Major	REDSTONE ARSENAL	34.663611	-86.623056

Registry ID	Name	Type	City	Latitude	Longitude
110042358908	GREENBRIER WOODS PHASE I	Non-Major	MADISON	34.7145	-86.80667
110043491245	ANDERSON ROAD REALIGNMENT	Non-Major	REDSTONE ARSENAL	34.64483	-86.70855
110054897947	PROPOSED FIRE STATION #7	Non-Major	HUNTSVILLE	34.5959	-86.575
110000865797	TELEDYNE BROWN ENGINEERING	Non-Major	HUNTSVILLE	34.72148	-86.64417
110044876596	JERRY COLLIER FARMS	Non-Major	ROGERSVILLE	34.87082	-87.37955
110054908374	HUGHES ROAD MEDICAL OFFICE BUILDING	Non-Major	MADISON	34.686682	-86.735368
110020073463	ADOT ACSTPOAF 0286 021	Non-Major	HUNTSVILLE	34.736944	-86.586389
110020431031	ADOT STPOA 8570 600	Non-Major	JEFF	34.794722	-86.661111
110020421747	BUILDING 4555 MSFC	Non-Major	HUNTSVILLE	34.630556	-86.651667
110020129010	UNION HILL PRIMITIVE BAPTIST	Non-Major	HUNTSVILLE	34.7925	-86.589444
110020536534	APPLE GROVE ROAD BRIDGE SITE	Non-Major	MORGAN COUNTY	34.327222	-86.630556
110020180579	LOT 21 FRANK CLARK ACRES	Non-Major	MERIDIANVILL E	34.792778	-86.573889
110016759738	HUNTSVILLE CITY INDIAN CREEK	Non-Major	HUNTSVILLE	34.644444	-86.748889
110020072133	TIFFANY POINTE PHASES 2 AND 3	Non-Major	MADISON COUNTY	34.8125	-86.504167
110020060306	COUNTY ROUTE 434	Non-Major	MOULTON	34.477778	-87.158333
110020833455	BUILDING 4631 MSFC	Non-Major	HUNTSVILLE	34.646111	-86.670833
110020183790	MARINA PARK SUBDIVISION	Non-Major	FARLEY	34.585278	-86.545556
110042358542	SAM ANDERS FALKVILLE FLIN	Non-Major	HARTSELLE	34.4117	-86.95117
110043495919	TRIANA LAKES	Non-Major	MADISON	34.58851	-86.73695
110020129582	MONROVIA SPRINGS SUBDIVISION	Non-Major	MONROVIA	34.793889	-86.746944
110054897689	TURNER FARM PHASE II	Non-Major	HUNTSVILLE	34.8044	-86.4608
110000368147	KOHLEH CO	Non-Major	HUNTSVILLE	34.66796	-86.75014
110000367512	BASF CORP DECATUR SITE	Non-Major	DECATUR	34.60829	-87.04017
110043727465	GREEN FARM	Non-Major	WOODVILLE	34.665129	-86.238794
110020072179	OAKHURST PLACE	Non-Major	FARLEY	34.6025	-86.549722
110020833525	WOODRIDGE PHASE 2 LOTS 47 49	Non-Major	MADISON	34.817222	-86.762778
110020183923	HERITAGE TRAIL	Non-Major	ATHENS	34.802361	-86.979889
110020132293	LANIER LAKES SUBDIVISION	Non-Major	MADISION	34.779444	-86.739722
110020181541	ZOOM CAR WASH	Non-Major	DECATUR	34.5625	-87.1
110020178591	COVE UNITED METHODIST CHURCH	Non-Major	HUNTSVILLE	34.657222	-86.475833
110044244644	GLENN HEARN BLVD/ JAMES RECORD RD INTERSECTION	Non-Major	HUNTSVILLE	34.6577	-86.76992
110029517351	LIMESTONE FARMERS COOPERATIVE	Non-Major	ATHENS	34.82282	-86.94272

Registry ID	Name	Type	City	Latitude	Longitude
110045476677	<u>SPENCER LAKES PHASE II</u>	Non-Major	MERIDIANVILL E	34.859011	-86.585786
110045475641	<u>RESEARCH PARK BLVD AND HWY 53 COMMERCIAL DEVELOPMENT</u>	Non-Major	HUNTSVILLE	34.791769	-86.666444
110042360227	<u>MARTIN/ZIERDT ROAD SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.647261	-86.723889
110020073454	<u>ADOT ACNHF 0102 525</u>	Non-Major	MOULTON	34.3875	-87.104167
110020425495	<u>ROCK CREEK SUBDIVISION PHASE 1</u>	Non-Major	CAPSHAW	34.785	-86.786389
110020831885	<u>CROSSINGS SUBDIVISION THE</u>	Non-Major	MERIDIANVILL E	34.872778	-86.563333
110042382132	<u>MAJESTIC SOLUTIONS INC</u>	Non-Major	HUNTSVILLE	34.58871	-86.57084
110054905135	<u>D-1 OFFICE/RETAIL</u>	Non-Major	HUNTSVILLE	34.6694	-86.53918
110036402185	<u>EVA SCHOOL</u>	Non-Major	EVA	34.332778	-86.763333
110012679985	<u>WALL TRIANA SITE</u>	Non-Major	MADISON	34.805306	-86.750917
110015821618	<u>OCI CHEMICAL CORP USPC PROJECT</u>	Non-Major	JONES CROSSROADS	34.650556	-87.086111
110020833393	<u>SOUTHERN BREEZE</u>	Non-Major	ATHENS	34.5775	-86.886944
110020389514	<u>ARAB CITY SHOP</u>	Non-Major	ARAB	34.320556	-86.528333
110020130856	<u>LENTZ PIT</u>	Non-Major	DECATUR	34.578056	-87.090278
110020179732	<u>TWELVE OAKS SUBDIVISION</u>	Non-Major	ARDMORE	34.933056	-86.779722
110020521933	<u>CLIFTS COVE 13TH ADDITION</u>	Non-Major	MADISON	34.721111	-86.73
110044269305	<u>UNION HILL INTERSECTION</u>	Non-Major	UNION GROVE	34.474722	-86.619167
110044269449	<u>THE SEVILLE</u>	Non-Major	DECATUR	34.600833	-87.007778
110043739452	<u>BORROW PIT NEAR NEW HOPE</u>	Non-Major	NEW HOPE	34.5875	-86.4973
110043732262	<u>OFFSITE UTILITIES FOR ROTARY WING HANGAR</u>	Non-Major	HUNTSVILLE	34.6462	-86.6635
110045481778	<u>ST-052-053-002 PS1260</u>	Non-Major	VALHERMOSO SPRINGS	34.530556	-86.589722
110045515536	<u>TEDAC INTAKE CENTER</u>	Non-Major	REDSTONE ARSENAL	34.585722	-86.621231
110043275988	<u>REED CONTRACTING PATTON REDST</u>	Non-Major	HUNTSVILLE	34.60997	-86.63013
110022416811	<u>VALLEY BEND</u>	Non-Major	HUNTSVILLE	34.671944	-86.550833
110020526377	<u>HARVEST STATION SUBDIVISION</u>	Non-Major	HARVEST	34.858056	-86.756944
110054120937	<u>WEST HUNTSVILLE CHURCH OF CHRIST</u>	Non-Major	HUNTSVILLE	34.753724	-86.678936
110000608593	<u>SANMINA-SCI</u>	Non-Major	HUNTSVILLE	34.59247	-86.56261
110043272393	<u>LEE BUILDERS THE COMMONS</u>	Non-Major	HUNTSVILLE	34.6734	-86.57807
110016684015	<u>PRIEST LUMBER COMPANY</u>	Non-Major	HAZEL GREEN	34.94259	-86.67773
110043503973	<u>VON BRAUN CENTER</u>	Non-Major	HUNTSVILLE	34.72836	-86.5897
110015628560	<u>HARTSELLE HERITAGE FUNERAL HM</u>	Non-Major	HARTSELLE	34.444167	-86.910833

Registry ID	Name	Type	City	Latitude	Longitude
110020532976	<u>HILLSIDE ESTATES PHASE II</u>	Non-Major	HUNTSVILLE	34.879167	-86.491667
110020543205	<u>THOMAS FIELDS SUBDIVISION</u>	Non-Major	LIMESTONE COUNTY	34.801111	-86.911111
110020180276	<u>LOONEYS COVE SUBDIVISION</u>	Non-Major	ATHENS	34.823472	-86.934722
110020833213	<u>MALLARDS LANDING</u>	Non-Major	HUNTSVILLE	34.665	-86.449167
110020128146	<u>ADOT NHF 0020 501</u>	Non-Major	HILLSBORO	34.648611	-87.173889
110044879726	<u>GATE 7 ACCESS CONTROL POINT</u>	Non-Major	HUNTSVILLE	34.645508	-86.714033
110014452243	<u>GREYSTONE SUBDIVISION</u>	Non-Major	TRINITY	34.561944	-87.022222
110054907231	<u>NEW RETAIL DEVELOPMENT - AL HWY. 36</u>	Non-Major	HARTSELLE	34.4494	-86.908044
110006652176	<u>DCA READY MIX INC</u>	Non-Major	TONEY	34.90912	-86.75653
110000368110	<u>MESKER DOOR INCORPORATED</u>	Non-Major	HUNTSVILLE	34.78178	-86.52472
110020185985	<u>PLASTIC FUSION SITE PLAN</u>	Non-Major	HUNTSVILLE	34.783333	-86.523333
110020131819	<u>WHITESBURG ESTATES</u>	Non-Major	HUNTSVILLE	34.633889	-86.580556
110020526368	<u>SUMMERFIELD SUBDIVISION</u>	Non-Major	MONROVIA	34.794444	-86.725556
110020838824	<u>RESERVE AT BRIDGEFIELD</u>	Non-Major	HUNTSVILLE	34.719167	-86.754444
110017710609	<u>GURLEY QUARRY</u>	Non-Major	GURLEY	34.700471	-86.38584
110044883418	<u>JOHNSON SCHOOL SEWER</u>	Non-Major	ATHENS	34.8575	-86.84
110014454642	<u>HUNTSVILLE HIGH SCHOOL, FRESHMAN ACADEMY</u>	Non-Major	HUNTSVILLE	34.716181	-86.582425
110021912091	<u>HIGHLAND RIM SCHOOL</u>	Non-Major	LINCOLN COUNTY	35.064365	-86.587162
110015663441	<u>S & Z SUPER MARKET</u>	Non-Major	ATHENS	34.79506	-87.124796
110020838815	<u>EAGLE RIDGE SUBDIVISION</u>	Non-Major	NEW MARKET	34.813889	-86.461667
110020180846	<u>SOUTH HAMPTON PHASE 1 THRU 3</u>	Non-Major	OWENS CROSSROADS	34.630833	-86.496389
110054907749	<u>LAUREN JILL VEST POULTRY FACILITY</u>	Non-Major	HARTSELLE	34.461744	-87.044629
110064029233	<u>AAA THEATER ADDITION</u>	Non-Major	HUNTSVILLE	34.75974	-86.63431
110020071447	<u>REGENCY SKILLED NURSING FACILITY</u>	Non-Major	HUNTSVILLE	34.75823	-86.59705
110020410250	<u>ROLLING BROOK PHASE I</u>	Non-Major	ROGERSVILLE	34.819722	-87.298889
110015734936	<u>FLINT RIVER DOWNS SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.818889	-86.474444
110020130605	<u>ADMIN PROGRAMS AND SVCS BLDG</u>	Non-Major	DECATUR	34.619167	-87.039167
110020837852	<u>CEDAR CHASE SUBDIVISION</u>	Non-Major	JEFF	34.804722	-86.733333
110020132774	<u>SOMERSET LAKE SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.586389	-86.550944
110020180132	<u>ASHYTON MANOR SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.610556	-86.585278
110020185020	<u>QUAIL COURT SUBDIVISION</u>	Non-Major	ARAB	34.354167	-86.493611
110020060869	<u>WATERS AND SONS DIRT PIT</u>	Non-Major	DECATUR	34.5975	-87.023333

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110020060299	WALDEN RUN AT INDIAN CREEK	Non-Major	MADISON COUNTY	34.753056	-86.689722
110006793005	L AND L LUMBER CO, INC.	Non-Major	HUNTSVILLE	34.77292	-86.56896
110003032316	SAINT-GOBAIN INDUSTRIAL CERAMICS	Non-Major	HUNTSVILLE	34.5533	-86.5329
110020073711	MARSHALL SPACE FLIGHT CENTER	Non-Major	MARSHALL SPACE FLT CTR	34.645833	-86.674167
110020060422	HIDDEN LAKE	Non-Major	OWENS CROSS ROADS	34.639722	-86.493889
110020179064	MONROE STREET REALIGNMENT PH2	Non-Major	HUNTSVILLE	34.725278	-86.589722
110020134077	WILLIAMS AVE REALIGNMENT PH 1	Non-Major	HUNTSVILLE	34.724167	-86.591667
110044244546	HARTSELLE INTERCEPTOR SEWER	Non-Major	HARTSELLE	34.411633	-86.920633
110044881946	MORGAN COUNTY VETERAN'S PARK	Non-Major	DECATUR	34.52279	-86.88967
110020534769	MARKS HOME FURNISHINGS	Non-Major	CAPSHAW	34.763278	-86.852028
110014394841	HAMPTON FALLS RESERVE	Non-Major	HUNTSVILLE	34.689167	-86.504167
110054132791	LOGAN'S ROADHOUSE	Non-Major	MADISON	34.67563	-86.754492
110042374490	PENINSULA GOOSE POND HOME OWN	Non-Major	HUNTSVILLE	34.72764	-86.55999
110012337729	CUMMINGS AUTO SALES	Non-Major	HARTSELLE	34.42289	-86.92708
110045447469	DAIKIN AMERICA INC	Non-Major	DECATUR	34.63147	-87.03843
110059703771	DEFOOR FARM	Non-Major	FALKVILLE	34.363	-86.79017
110020433896	CREEKSTONE	Non-Major	MOONTOWN	34.638056	-86.48
110020403892	INDIAN HILLS RD BRIDGE REPLACE	Non-Major	HARTSELLE	34.470833	-86.921389
110000741216	CR COMPRESSORS LLC	Non-Major	HARTSELLE	34.410556	-86.899445
110043732119	HALCYON PHASE I	Non-Major	MADISON	34.776111	-86.746667
110044877648	BELTLINE SEWER EXTENSION	Non-Major	DECATUR	34.60164	-87.03084
110020535027	HERITAGE STATION PHASE THREE	Non-Major	MADISON	34.718056	-86.778889
110020188526	DEPOT PROFESSIONAL VILLAGE 5	Non-Major	HUNTSVILLE	34.7325	-86.596389
110020838192	CVS PHARMACY	Non-Major	CAPSHAW	34.78125	-86.7
110006789323	HAZEL GREEN AUTO SALVAGE	Non-Major	HAZEL GREEN	34.92532	-86.57038
110012168572	OCI CHEMICAL ALABAMA LLC	Non-Major	DECATUR	34.647187	-87.069894
110000367585	HEXCEL CORP	Non-Major	DECATUR	34.6555	-87.0709
110056119542	TERRAME	Non-Major	HUNTSVILLE	34.69226	-86.58125
110020424806	NEW INDUSTRIAL FACILITY	Non-Major	HUNTSVILLE	34.784722	-86.518611
110020185912	HINDU CULTURAL CTR N AMERICA	Non-Major	ATHENS	34.7755	-86.792167
110014325275	RAINBOW LANDING	Non-Major	MADISON	34.750556	-86.7325
110014325131	LIBERTY PARK SUBDIVISION	Non-Major	MOONTOWN	34.637778	-86.479167
110020060235	SUTTON ROAD PROPERTIES ONE LLC	Non-Major	HUNTSVILLE	34.658333	-86.488889

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110014395485	<u>DECATUR COMMONS SHOPPING CENTR</u>	Non-Major	TRINITY	34.566667	-87.006667
110014395056	<u>MILL RACE AT INDIAN CREEK</u>	Non-Major	JEFF	34.8	-86.708333
110020521737	<u>HERMITAGE PLACE PHASE 4</u>	Non-Major	MADISON	34.785833	-86.735278
110044269500	<u>99-401-452-255-101 PS1232</u>	Non-Major	HUNTSVILLE	34.698889	-86.671111
110043762372	<u>WILHITE ROAD BR #23</u>	Non-Major	FALKVILLE	34.344167	-86.8325
110044879717	<u>FIELDSTONE SUBDIVISION, PHASE 3</u>	Non-Major	ATHENS	34.754058	-86.893975
110044876649	<u>PROPOSED FIRESTATION #18</u>	Non-Major	MADISON	34.647806	-86.843783
110010100899	<u>J AND J OIL COMPANY INC</u>	Non-Major	ATHENS	34.82282	-86.94272
110044881358	<u>FUTABA</u>	Non-Major	HUNTSVILLE	34.64344	-86.75495
110020128182	<u>OVERLAND TRACE PHASE 1</u>	Non-Major	JEFF	34.770833	-86.690278
110020419448	<u>GREENLAWN PLANTATION PHASE SIX</u>	Non-Major	HUNTSVILLE	34.841667	-86.5625
110054912118	<u>REDSTONE ARSENAL / RSA-054</u>	Non-Major	HUNTSVILLE	34.641928	-86.641158
110003375534	<u>CHAMBERS BOTTLING CO LLC</u>	Non-Major	HUNTSVILLE	34.75821	-86.57748
110042984982	<u>C AND J RECYCLING</u>	Non-Major	SOMERVILLE	34.50704	-86.6974
110030773223	<u>HOSSEIN JAMSHIDI</u>	Non-Major	MADISON	34.71104	-86.71468
110054907026	<u>NORTH WADE LOTS 6&7</u>	Non-Major	OWENS CROSS ROADS	34.65637	-86.4796
110006790277	<u>MADISON CO DIST 1 INERT LF</u>	Non-Major	HUNTSVILLE	34.901111	-86.471667
110015629024	<u>CARLTON COVE RETIREMENT COMM</u>	Non-Major	HUNTSVILLE	34.665278	-86.586667
110020720308	<u>YOUTH FACILITY</u>	Non-Major	HUNTSVILLE	34.772139	-86.533639
110021019896	<u>RETAIL BOAT LOT</u>	Non-Major	FALKVILLE	34.373333	-86.892222
110020070279	<u>STAY LODGE</u>	Non-Major	DECATUR	34.559444	-86.952222
110020181293	<u>MORNING MEADOW</u>	Non-Major	CAPSHAW	34.772778	-86.779167
110020181364	<u>LAWRENCE COUNTY ROAD 203</u>	Non-Major	MOULTON	34.4	-87.166667
110020400350	<u>FARROW ROAD IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.727778	-86.701667
110054906893	<u>THE ARBORS AT BROWNS FERRY CROSSING LOTS</u>	Non-Major	MADISON	34.72895	-86.79044
110020411641	<u>SAVANNAH PLACE SUBDIVISION</u>	Non-Major	MT CARMEL	34.369722	-86.397778
110041099995	<u>BASF CORP</u>	Non-Major	HUNTSVILLE	34.65792	-86.74789
110002105374	<u>KOMMERLING USA INCORPORATED</u>	Non-Major	HUNTSVILLE	34.78177	-86.52882
110020128324	<u>CLITS COVE 10TH ADDITION</u>	Non-Major	MADISON	34.720833	-86.73
110020424815	<u>MAC BROWN SITE</u>	Non-Major	ARAB	34.520278	-86.665
110020534616	<u>D C PARK</u>	Non-Major	HUNTSVILLE	34.744444	-86.678333
110020131640	<u>TRACT ONE OF PARKER RIDGE</u>	Non-Major	HUNTSVILLE	34.766833	-86.549806
110020528142	<u>JONES PROPERTY</u>	Non-Major	JEFF	34.836944	-86.713056
110014452751	<u>LIMESTONE COUNTY COMMISSION</u>	Non-Major	ATHENS	34.8	-86.972306
110020130455	<u>LEDGES OF HUNTSVILLE MOUNTAIN</u>	Non-Major	HUNTSVILLE	34.683333	-86.533333

Registry ID	Name	Type	City	Latitude	Longitude
110054909569	REDSTONE ARESENAL-ECP PARKING LOT PAVING	Non-Major	REDSTONE ARSENAL	34.64185	-86.63249
110000496794	BIG SPRINGS INCORPORATED	Non-Major	HUNTSVILLE	34.7286	-86.59163
110063602739	LICK CREEK FARMS	Non-Major	FALKVILLE	34.31615	-86.82033
110059699287	FIRE STATION 19	Non-Major	OWENS CROSS ROADS	34.614086	-86.491313
110056122280	BIG COVE WASTERWATER TREATMENT PLANT	Non-Major	OWENS CROSS ROADS	34.6459	-86.47461
110056118357	SPRINGHILL MANOR SD	Non-Major	HUNTSVILLE	34.78119	-86.48311
110056120870	WESTLAKE SUBDIVISION	Non-Major	MADISON	34.60511	-86.82606
110000367601	FEDERAL-MOGUL SEALING SYSTEMS	Non-Major	ATHENS	34.790299	-86.952989
110056118632	TVA BROWNS FERRY - ATHENS UPRATE	Non-Major	ATHENS	34.821621	-86.954661
110014337850	CARALIN ESTATES SUBDIVISION	Non-Major	HARVEST	34.809444	-86.764444
110020188456	OLD BIG COVE RD GREEN MTN BRAN	Non-Major	OWENS CROSSROADS	34.616583	-86.492389
110020179983	KINGSTON PLACE SUBDIVISION	Non-Major	ATHENS	34.772444	-86.872639
110020177770	CALHOUN COMM COLL HEALTH CTR	Non-Major	DECATUR	34.662778	-86.951472
110056124894	FLINT RIVER ANIMAL HOSPITAL ADDITION	Non-Major	HUNTSVILLE	34.81484	-86.49146
110056121753	PLAZA DRIVE \ROUSSEAU\""	Non-Major	MADISON	34.835866	-86.521652
110056119935	HMCAA GROUP VI PHASE 2 TAXIWAY FOXTROT	Non-Major	HUNTSVILLE	34.64922	-86.77662
110044258228	ALL UP ROUND FACILITY	Non-Major	REDSTONE ARSENAL	34.624444	-86.597222
110043734741	MERIDIAN STREET IMPROVEMENTS	Non-Major	HUNTSVILLE	34.748889	-86.583056
110045493694	HONEST JOHN RD/WASP RD PARKING LOT	Non-Major	REDSTONE ARSENAL	34.68133	-86.629483
110020402875	SUMMER SHADE SUBDIVISION	Non-Major	MORGAN COUNTY	34.580722	-87.05175
110056118133	ARMY DAY FARMS	Non-Major	UNION GROVE	34.4744	-86.55795
110020178831	WADDELL COMMERCIAL PARK	Non-Major	MADISON	34.752778	-86.720833
110025374306	MARK HARRIS HOMES LLC	Non-Major	HUNTSVILLE	34.80334	-86.48329
110010086682	BAILEY PVS OXIDES DECATUR LLC	Non-Major	DECATUR	34.641275	-87.0758
110010110762	HONDAROWESA FARM	Non-Major	UNION GROVE	34.41779	-86.5058
110056119356	MADISON COUNTY ELEMENTARY ADDITION	Non-Major	GURLEY	34.70183	-86.37587
110056120718	WAL-MART SUPERCENTER - STORE #375-09	Non-Major	HUNTSVILLE	34.703275	-86.587163
110020426859	NORTH HUGHES RD TURN LANE PROJ	Non-Major	MADISON	34.753889	-86.7575
110020423567	MONOROVIA MEADOWS PH 2 AND 3	Non-Major	3	34.815556	-86.672778

Registry ID	Name	Type	City	Latitude	Longitude
110020544990	RIDEOUT JUNCTION	Non-Major	MADISON COUNTY	34.780278	-86.672222
110020545007	IRONGATE PHASE TWO AND THREE	Non-Major	MADISON COUNTY	34.830278	-86.732222
110020185459	HANEY DEVELOPMENT	Non-Major	DECATUR	34.643611	-86.955
110020837763	HAMPTON STAT HAMPTON VALLEY	Non-Major	CROSSROADS	34.643333	-86.484167
110020833918	CENTRAL AVE DRAINAGE IMPROVMNT	Non-Major	DECATUR	34.538889	-86.975
110020831652	ARAB SENIOR CENTER	Non-Major	ARAB	34.329722	-86.497222
110020187894	DISCOVERY MIDDLE SCHOOL	Non-Major	MADISON	34.733333	-86.733333
110020177690	TANNER RIDGE SUBDIVISION PH 7	Non-Major	HUNTSVILLE	34.816667	-86.466667
110044269154	GATEWAY PLACE	Non-Major	HUNTSVILLE	34.722481	-86.581367
110043758010	ROMINE TRACT	Non-Major	MADISON	34.747528	-86.777972
110042360423	TRIANA LAKES LLC	Non-Major	TRIANA	34.5865	-86.74599
110020397809	KELLY PLANTATION PHASE I	Non-Major	HUNTSVILLE	34.830833	-86.715833
110020402349	MORGAN COUNTY NORTH PARK	Non-Major	HARTSELLE	34.552083	-86.886278
110054912742	WAHL SUPPLY INC	Non-Major	DECATUR	34.6052	-87.0674
110020187698	NOBLE RUSSELL HALL CALHOUNS	Non-Major	TANNER	34.62	-86.95
110044258576	SOUTHPOINT PARK SUBDIVISION	Non-Major	HUNTSVILLE	34.69623	-86.5839
110025368055	APAC MID SOUTH INC	Non-Major	HUNTSVILLE	34.6929	-86.592
110043271134	FITE BUILDING CO INC MADISON B	Non-Major	MADISON	34.678015	-86.763132
110012218876	CHARLOTTE PIPE AND FOUNDRY CO	Non-Major	HUNTSVILLE	34.78177	-86.52855
110003030452	UNION CAMP CORP.	Non-Major	DECATUR	34.60829	-87.04018
110020431148	ADOT STPOA 9216 600	Non-Major	TRINITY	34.555833	-87.018611
110020126594	MOUNT LEBANON ESTATES	Non-Major	MERIDIANVILL E	34.854722	-86.600556
110020542965	RIVERSIDE LANDING PHASE TWO	Non-Major	MAYSVILLE	34.809722	-86.481667
110020131686	LEIGH ANNE NEWBY FARMS	Non-Major	ATHENS	34.855	-86.871389
110055981843	PRICEVILLE WWTP	Non-Major	PRICEVILLE	34.551806	-86.881278
110020408735	COLLIER COVE	Non-Major	MORGAN COUNTY	34.450083	-86.916861
110020385000	MADISON CO EXECUTIVE AIRPORT	Non-Major	HUNTSVILLE	34.858889	-86.548056
110020526858	PIKE FARMS	Non-Major	MONROVIA	34.876333	-86.813333
110043726983	CARRINGTON PLACE	Non-Major	OWENS CROSS ROADS	34.636686	-86.484161
110020069815	CUMBERLAND PLACE	Non-Major	ATHENS	34.796583	-86.843528
110020428189	DRIVING 2000	Non-Major	MADISON	34.684444	-86.733333
110054115186	BLUFF BUILDING; BURRITT ON THE MOUNTAIN	Non-Major	HUNTSVILLE	34.71507	-86.53779

Registry ID	Name	Type	City	Latitude	Longitude
110054907071	GRAYSTONE PHASE II	Non-Major	TONEY	34.93335	-86.78947
110042358347	TYLER & MICHAEL CHILDERS	Non-Major	EVA	34.36133	-86.72254
110042385567	R AND J AUTO SALVAGE	Non-Major	ELKMONT	34.93336	-86.83116
110000367594	ITW SEXTON INC	Non-Major	DECATUR	34.54904	-86.97719
110010070528	BONNIE ACRES DEV CO INC WWTP	Non-Major	HUNTSVILLE	34.788694	-86.683833
110020429883	GREYSTONE SUBDIVISION	Non-Major	JEFF	34.783611	-86.693056
110044239188	ALDRIDGE CREEK GREENWAY	Non-Major	HUNTSVILLE	34.628992	-86.538519
110043741109	CROSS CREEK SUBDIVISION, PHASE 2	Non-Major	MADISON	34.762222	-86.7625
110044269172	STONE CREST PHASE	Non-Major	MADISON	34.70912	-86.78653
110020831288	CALLAWAY MEADOWS	Non-Major	MERIDIANVILL E	34.863889	-86.598889
110009456427	HART & COOLEY INC	Non-Major	HUNTSVILLE	34.77928	-86.53661
110043504231	DECATUR ARMORY	Non-Major	DECATUR	34.57365	-87.01549
110006789109	A AND S METALS INC	Non-Major	DECATUR	34.60066	-87.03698
110007400767	AIR PRODUCTS & CHEMICALS INC.	Non-Major	DECATUR	34.60825	-87.03608
110057195887	NEW RETAIL STORE - TRIANA BLVD & JOHNSON RD	Non-Major	HUNTSVILLE	34.689803	-86.609801
110010310010	DECATUR QUARRY	Non-Major	DECATUR	34.575093	-87.066679
110020403669	TRADEMARK COMMERCE CENTER	Non-Major	HUNTSVILLE	34.65	-86.740278
110020186993	TARGET ENTERPRISE, IVY CHASE SUBDIVISION	Non-Major	ATHENS	34.738167	-86.874722
110044256328	TEST AREA 2	Non-Major	REDSTONE ARSENAL	34.601667	-86.63
110043265631	BROADWAY GROUP NEW DG-HAZEL GR	Non-Major	HAZEL GREEN,	34.94672	-86.56866
110045476374	HELICOPTER PARKING APRON	Non-Major	REDSTONE ARSENAL	34.670283	-86.68593
110045515545	TEDAC INTERIM LABORATORY	Non-Major	REDSTONE ARSENAL	34.641639	-86.655811
110020538453	WALLEY ESTATES	Non-Major	ARAB	34.361667	-86.458611
110020402928	ALMON PLACE	Non-Major	MORGAN COUNTY	34.566111	-87.026667
110054897705	THE MEADOWS II / RIVERBEND V	Non-Major	HUNTSVILLE	34.8016	-86.4887
110020127343	CARTER BACKHOE AND CONCRETE PR	Non-Major	TONEY	34.90306	-86.67597
110045493541	ROCKTENN ATHENS SHEETFEEDER PLANT	Non-Major	ATHENS	34.82444	-86.9661
110044241380	WHITNEY WEAVER	Non-Major	FALKVILLE	34.32875	-86.94787
110006653246	SOUTH CENTRAL RECYCLING INC	Non-Major	HUNTSVILLE	34.67304	-86.58597
110020403464	LAKE POINTE SUBDIVISION	Non-Major	HAMPTON COVE	34.675278	-86.452444

Registry ID	Name	Type	City	Latitude	Longitude
110020401180	SUMMIT LAKES SUBDIVISION	Non-Major	LIMESTONE COUNTY	34.784306	-86.938389
110020386955	HERMITAGE PLACE PHASE THREE	Non-Major	MADISON	34.787778	-86.731944
110020184254	WOODMILL TRACE	Non-Major	HUNTSVILLE	34.761667	-86.719722
110020180837	STONEBRIER SUBDIVISION	Non-Major	MADISON	34.793889	-86.746944
110010071965	WOODVILLE WWTP	Non-Major	WOODVILLE	34.6261	-86.2665
110055251481	ASHBURY SUBDIVISION PHASE IV	Non-Major	MADISON	34.69026	-86.79724
110044251500	HOLIDAY INN EXPRESS	Non-Major	MADISON	34.676111	-86.753333
110042358695	THE PROMENADE AT RIVER LANDING	Non-Major	MADISON,	34.611622	-86.741383
110020188731	DANVILLE ROAD DENTENTION POND	Non-Major	DECATUR	34.586111	-87.146528
110054907035	FIELDSTONE SUBDIVISION PHASE I, III, AND IV LOTS	Non-Major	ATHENS	34.754058	-86.877308
110054909863	BRIGHTON PARK PHASE II	Non-Major	MADISON	34.69541	-86.79987
110043498550	NEW LEE HIGH SCHOOL	Non-Major	HUNTSVILLE	34.753441	-86.580972
110044264275	FLEET MANAGEMENT	Non-Major	HUNTSVILLE	34.69078	-86.59993
110054900292	UAH INTERMODALL	Non-Major	HUNTSVILLE	34.72767	-86.63792
110054118174	J & K FARMS	Non-Major	DECATUR	34.57307	-87.02475
110020534652	ISLE WORTH	Non-Major	HARVEST	34.791667	-86.491667
110020060627	MILL CREEK ESTATES SUBDIVISION	Non-Major	LIMESTONE COUNTY	34.796944	-86.848889
110020183763	JMS METAL SERVICES OF ALABAMA	Non-Major	DECATUR	34.616861	-87.033361
110020132097	INDEPENDENCE TUBE CORPORATION	Non-Major	DECATUR	34.659417	-87.079667
110020179206	KEELING CO	Non-Major	MADISON	34.691389	-86.712778
110020836620	NHF0157503	Non-Major	TOWN CREEK	34.398611	-87.13
110044265247	RSA AIRFIELD/TOWWAY ROAD	Non-Major	REDSTONE ARSENAL	34.669116	-86.678133
110045481741	HWY 31 GAS LINE	Non-Major	TANNER	34.6875	-86.948889
110042971184	CENTRAL BAPTIST CHURCH	Non-Major	DECATUR	34.55441	-86.97367
110020544632	CLEARWATER SUBDIVISION	Non-Major	MADISON COUNTY	34.630833	-86.491111
110020073695	BOEING BOULEVARD RELOCATION	Non-Major	DECATUR	34.623056	-86.777222
110020531557	AMBERS CROSSING PHASE TWO	Non-Major	MADISON	34.770833	-86.701944
110020405621	CEDAR SPRINGS STATION	Non-Major	MADISON	34.697083	-86.780583
110020834043	GRIMWOOD RD BRIDGE BORROW SITE	Non-Major	HUNTSVILLE	34.903611	-86.587222
110043495553	APD-0067(500) PS756	Non-Major	DECATUR	34.583333	-87.016667
110054912822	TVA TAP TO SOUTH LIMESTONE	Non-Major	TANNER	34.651301	-86.961824
110012681133	FEDEX FREIGHT EAST INC	Non-Major	DECATUR	34.59814	-87.04919

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110054900755	<u>GREENWOOD MOTOR LINES, DBA R + L CARRIERS</u>	Non-Major	DECATUR	34.61882	-87.00205
110003028367	<u>GEORGIA PACIFIC CORRUGATED I</u>	Non-Major	HUNTSVILLE	34.78178	-86.52598
110042370118	<u>REED CONTACTING SERVICES INC</u>	Non-Major	HUNTSVILLE	34.71992	-86.59469
110020184888	<u>LEGENDWOOD</u>	Non-Major	HUNTSVILLE	34.769167	-86.775
110010073482	<u>UNION GROVE JR HIGH SCHOOL</u>	Non-Major	UNION GROVE	34.398861	-86.446389
110014337324	<u>ALABAMA A AND M INFRASTRUCTURE</u>	Non-Major	NORMAL	34.780556	-86.568611
110020404882	<u>SE CHURCH OF THE NAZARENE</u>	Non-Major	MADISON COUNTY	34.673333	-86.532778
110020182103	<u>BASSET FURNITURE</u>	Non-Major	HUNTSVILLE	34.703889	-86.59
110020426421	<u>COMMERCIAL SITE</u>	Non-Major	JEFF	34.806111	-86.748056
110054911235	<u>FOOD OUTLET</u>	Non-Major	ARAB	34.356472	-86.434668
110043495198	<u>ELLISON SITE</u>	Non-Major	FALKVILLE	34.38952	-86.83756
110015832483	<u>MAYFIELD TRUCKING INC</u>	Non-Major	FALKVILLE	34.38282	-86.91181
110020185609	<u>RIVERSIDE LANDING PHASE 1</u>	Non-Major	MADISON	34.806667	-86.486944
110014337609	<u>BOB JONES HIGH SCHOOL BALLDLDS</u>	Non-Major	MADISON	34.721389	-86.745278
110020397934	<u>BLACKWOOD VILLAGE SUBDIVISION</u>	Non-Major	ATHENS	34.466222	-86.86525
110020071562	<u>PINE RIDGE</u>	Non-Major	MADISON COUNTY	34.934167	-86.711389
110020181658	<u>CLIFTS COVE SUBDIVISION</u>	Non-Major	MADISON	34.729444	-86.740556
110043502368	<u>KOHL'S HUNTSVILLE, AL</u>	Non-Major	HUNTSVILLE	34.67469	-86.5406
110020837790	<u>GREENBRIER PATCH SUBDIVISION</u>	Non-Major	GREENBRIER	34.641667	-86.85
110020404025	<u>OLD TRINITY RD BRIDGE REPLACE</u>	Non-Major	DECATUR	34.605	-87.045556
110042360254	<u>ADAMS HOMES FIELDSTONE PHASE 1</u>	Non-Major	MADISON	34.68894	-86.72093
110043506667	<u>MADISON COUNTY DHR BUILDING</u>	Non-Major	HUNTSVILLE	34.74942	-86.60298
110055251686	<u>OAKBROOK SUBDIVISION</u>	Non-Major	HARVEST	34.83864	-86.75774
110020185743	<u>WINDEMERE AT THE RESERVE</u>	Non-Major	MADISON	34.655278	-86.719444
110014395582	<u>WHITE FARMS DIRT PIT</u>	Non-Major	MASON RIDGE	34.541667	-86.875
110014453171	<u>MAYSVILLE ROAD INTERCHANGE</u>	Non-Major	HUNTSVILLE	34.774167	-86.548333
110020428697	<u>KNOX CREEK PHASE 7</u>	Non-Major	MADISON	34.762222	-86.782222
110020428205	<u>SOMERVILLE PLACE</u>	Non-Major	HARTSELLE	34.582389	-86.974361
110020831616	<u>ALMON PLACE ADDITION TWO</u>	Non-Major	TRINITY	34.566667	-87.009722
110020833954	<u>CONCRETE PLANT HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.670278	-86.6025
110020182416	<u>WELLINGTON TRACE</u>	Non-Major	CAPSHAW	34.809444	-86.764444
110020187340	<u>HAMPTON COVE MIDDLE SCHOOL</u>	Non-Major	HUNTSVILLE	34.6625	-86.481389
110044264729	<u>CHURCH STREET CLEARING AND GRUBBING PROJECT</u>	Non-Major	HUNTSVILLE	34.741091	-86.59301
110044246731	<u>MORGAN CENTER BUSINESS PARK</u>	Non-Major	HARTSELLE	34.412417	-86.903528

Registry ID	Name	Type	City	Latitude	Longitude
110044244822	CITY OF HUNTSVILLE FIRESTATION #18	Non-Major	MADISON	34.649469	-86.843933
110043756799	BRUNSWICK ACRES FORCE MAIN AND PUMPING STATION	Non-Major	HARVEST	34.802778	-86.815833
110045476515	MADISON HIGH SCHOOL	Non-Major	MADISON	34.707135	-86.796646
110044269485	BUILDING 6214	Non-Major	REDSTONE ARSENAL	34.644722	-86.706944
110015318707	EAST LACON ROAD BRIDGE	Non-Major	HARTSELLE	34.338056	-86.885278
110020071571	PROP RES LAB MARSHALL SPACE FL	Non-Major	MADISON COUNTY	34.658333	-86.6625
110054899990	DARRLEWOOD	Non-Major	HUNTSVILLE	34.79673	-86.491746
110000780236	J & A ENTERPRISES	Non-Major	HUNTSVILLE	34.74571	-86.59274
110010126185	KINDER MORGAN	Non-Major	DECATUR	34.65326	-87.06976
110015318636	STONE HILL SUBDIVISION	Non-Major	MERIDIANVILLE	34.819444	-86.523611
110020529980	CEDAR GAP ESTATES	Non-Major	RYLAND	34.756944	-86.486667
110020838842	TWELVE STONES THIRD ADDITION	Non-Major	NEW HOPE	34.683056	-86.441667
110020184263	TORAY CARBON FIBERS AMERICA	Non-Major	DECATUR	34.627778	-87.028056
110020833570	MADISON GARDENS	Non-Major	MADISON	34.753611	-86.743889
110020183415	NATURAL BRIDGE ROAD	Non-Major	HARTSELLE	34.480556	-86.883333
110020131114	WINDFIELD APARTMENTS	Non-Major	NEW MARKET	34.847778	-86.4575
110044251671	CHRISTIAN BROTHERS AUTOMOTIVE CENTER	Non-Major	HUNTSVILLE	34.756889	-86.719528
110043262965	SJ AND L GENERAL CONTRACTORS H	Non-Major	HUNTSVILLE	34.75353	-86.66007
110020833464	MADISON BAPTIST CHURCH INCORP	Non-Major	MADISON	34.740556	-86.770278
110020132239	INDIAN CREEK COVE PH 7 AND 8	Non-Major	HARVEST	34.808056	-86.683611
110054906447	PEEVEY CREEK IMPROVEMENTS PHASE II	Non-Major	BIG COVE	34.682026	-86.448077
110054909097	MALLARD FOX WATER REINFORCEMENTS	Non-Major	DECATUR	34.619817	-87.039414
110054132728	JEMISON-DEMSY, LLC	Non-Major	DECATUR	34.62524	-87.08233
110054118361	UN-NAMED 50,000 S.F. INDUSTRIAL BUILDING	Non-Major	ATHENS	34.82959	-86.965206
110054898018	BELL ROAD BORROW PIT	Non-Major	HUNTSVILLE	34.779924	-86.509948
110054899963	MOORE ESTATES SUBDIVISION	Non-Major	HAZEL GREEN	34.95476	-86.63295
110042363625	AMERICAN CONSTRUCTORS INC	Non-Major	MADISON	34.73024	-86.74136
110015319957	AUTUMN RIDGE SUBDIVISION	Non-Major	DECATUR	34.523	-87.013056
110014453572	REDSTONE VILLAGE	Non-Major	HUNTSVILLE	34.6105	-86.558639
110022412539	LENTZ GROCERY	Non-Major	TRINITY	34.562167	-87.158639
110020526590	RIVERWALK PHASE I	Non-Major	MAYSVILLE	34.833611	-86.478056
110020188535	SADDLE RIDGE SUBDIVISION	Non-Major	MOONTOWN	34.638056	-86.484444

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110020069691	COUNTRY VILLAGE	Non-Major	ATHENS	34.78913	-87.00766
110042360860	ROBERT COMPTON CEDAR GROVE	Non-Major	DECATUR	34.55586	-87.03777
110044244653	HALE/RIEOUT ROAD INTERSECTION IMPROVEMENTS	Non-Major	HUNTSVILLE	34.669883	-86.67225
110044265265	HANGAR AT PRYOR FIELD	Non-Major	TANNER	34.663611	-86.950278
110042988498	ADAMS HOMES LLC	Non-Major	TRIANA	34.5865	-86.74599
110046314467	GREENLAWN PLANTATION	Non-Major	MERIDIANVILL E	34.83541	-86.56565
110020184940	CROW COMMERCIAL CENTER	Non-Major	ATHENS	34.77825	-86.957361
110020417413	WEST DUBLIN	Non-Major	MADISON	34.681111	-86.755556
110043494448	KRATOS	Non-Major	HUNTSVILLE	34.73058	-86.65775
110003391035	SHELBY CONTRACTING CO INC	Non-Major	HUNTSVILLE	34.74304	-86.59491
110000368003	NORRIS CYLINDER CO	Non-Major	HUNTSVILLE	34.5952	-86.5527
110010102316	MIDWAY CYCLE SALVAGE INC	Non-Major	MADISON	34.74953	-86.78892
110000368138	NATIONAL COPPER & SMELTING CO	Non-Major	HUNTSVILLE	34.78232	-86.53425
110020186047	TAYLOR ROAD RELOCATION	Non-Major	MOONTOWN	34.657222	-86.487778
110020131276	HALL B BRYANT JR	Non-Major	HUNTSVILLE	34.7775	-86.670667
110015662674	WALTONS MOUNTAIN	Non-Major	HUNTSVILLE	34.696667	-86.554833
110020187554	SOUTHPOINT RIDGE SUBDIVISION	Non-Major	HUNTSVILLE	34.837778	-86.464444
110020178984	CHELSEA INDUSTRIAL PARK PH4	Non-Major	HUNTSVILLE	34.675	-86.601667
110059703780	CIRCLE C FARMS	Non-Major	DANVILLE	34.377964	-87.110115
110059703799	DOUBLE C FARM	Non-Major	MOULTON	34.503775	-87.17339
110043741118	LEGACY COVE SUBDIVISION PHASE 1-3	Non-Major	MADISON	34.616667	-86.726389
110044876701	SEVEN PINES SD PH 2	Non-Major	ATHENS	34.776667	-86.8325
110043270769	REDSTONE ARSENAL / BORROW PIT #23	Non-Major	HUNTSVILLE	34.63537	-86.64715
110014395537	MAGNOLIA SPRINGS	Non-Major	MADISON	34.795556	-86.783889
110020130687	ECIP SUB STATION 2	Non-Major	HUNTSVILLE	34.694083	-86.626861
110054123765	AMERICA'S WAY SUBDIVISION	Non-Major	HUNTSVILLE	34.80034	-86.52131
110042360842	DON MERRITT 1530	Non-Major	DANVILLE	34.50281	-87.0703
110054905545	UNION HILL PB CHURCH	Non-Major	HUNTSVILLE	34.79288	-86.58411
110020434163	ADOT BR 3916	Non-Major	LEXINGTON	34.968889	-87.335278
110020413051	LIMESTONE COUNTY JAIL	Non-Major	LIMESTONE COUNTY	34.813056	-86.968056
110020535054	CORNERSTONE DETENTION PRODUCTS	Non-Major	TANNER	34.638056	-86.875361
110020187215	OXFORD SUBDIVISION PHASE 1	Non-Major	MADISON	34.685278	-86.798611
110020179091	PLANTATION EAST PHASE 3	Non-Major	ATHENS	34.752333	-86.886944
110042362494	CALVARY BAPTIST CHURCH	Non-Major	HUNTSVILLE	34.8009	-86.68701

Registry ID	Name	Type	City	Latitude	Longitude
110046315420	CALLAWAY MEADOWS PHASE THREE	Non-Major	MERIDIANVILL E	34.86144	-86.60092
110020182425	BILL MOR LAKES	Non-Major	MADISON	34.758333	-86.7825
110020427395	ROLLING MEADOW PHASE 2 3	Non-Major	MADISON	34.703833	-86.8055
110054118192	RIDGETOP FARMS	Non-Major	DANVILLE	34.484825	-87.090414
110003032290	ALABAMA CONCRETE CO INC	Non-Major	HUNTSVILLE	34.77856	-86.62638
110044884658	REDSTONE VILLAGE PHSE IV	Non-Major	HUNTSVILLE	34.60514	-86.56041
110012508624	STEELCASE	Non-Major	ATHENS	34.768	-86.97483
110015319715	NORTHSTAR SUBDIVISION	Non-Major	HUNTSVILLE	34.773861	-86.634222
110020406416	VASSER FARMS	Non-Major	MADISON	34.820833	-86.778889
110020403428	ARBOR WOODS FOURTH ADDITION	Non-Major	HAMPTON CAMP	34.686278	-86.453278
110020389792	BOOTH RIDGE DEVELOPMENT	Non-Major	HARTSELLE	34.457389	-86.909806
110020183308	MCATS FACILITY	Non-Major	DECATUR	34.600333	-86.986944
110020132104	FIRST BAPTIST CHURCH	Non-Major	DECATUR	34.550889	-86.995194
110020132603	HARDIMAN PLACE PHASE 2	Non-Major	MADISON	34.697222	-86.791944
110020526830	CROSSROADS PLAZA	Non-Major	MERIDIANVILL E	34.830278	-86.571944
110044258353	DECATUR SHOPPING CENTER	Non-Major	DECATUR	34.564681	-86.97545
110044876756	BUILDING 4884	Non-Major	REDSTONE ARSENAL	34.669333	-86.6872
110043726000	FALLS CREEK SUBDIVISION PHASE 2	Non-Major	NEW MARKET	34.82089	-86.46158
110054118272	STIDHAM FARM	Non-Major	JOPPA	34.31946	-86.59062
110027645056	LOG CABIN MARKET	Non-Major	FAYETTEVILLE	35.06385	-86.57269
110020060342	DISCOUNTY FOOD MART 207	Non-Major	HUNTSVILLE	34.645833	-86.718611
110020839155	1 ACRE BORROW SITE	Non-Major	MASON RIDGE	34.620833	-86.757222
110044264809	TRIANA LAKES SUBDIVISION	Non-Major	TRIANA	34.587094	-86.740833
110020434680	BRITTON OIL STATION NO 7085	Non-Major	ATHENS	34.763611	-86.853333
110045478381	DISTRICT SIX SENIOR CENTER	Non-Major	HUNTSVILLE	34.8	-86.62
110020389079	BRIDGEFORTH RD	Non-Major	LIMESTONE COUNTY	34.683528	-87.016806
110054897652	AUSLEY BEND SUBDIVISION	Non-Major	HARTSELLE	34.4803	-86.975
110042979088	SCIENCE AND ENGINEERING SVCS INC	Non-Major	HUNTSVILLE	34.66541	-86.74576
110003025832	HUNTSVILLE WOOD PRODUCTS LLC	Non-Major	HUNTSVILLE	34.77292	-86.56896
110009456267	UNISYS INC.	Non-Major	HUNTSVILLE	34.68368	-86.57842
110014337208	MADISON BAPTIST CHURCH	Non-Major	MADISON	34.72044	-86.74163
110020434145	ADOT NHF 0101 501	Non-Major	ROGERSVILLE	34.823611	-87.292778

Registry ID	Name	Type	City	Latitude	Longitude
110020411179	<u>BETHEL ROAD AND E MAIN STREET</u>	Non-Major	HARTSELLE	34.441667	-86.919444
110012680170	<u>DARYLEWOOD PHASE 5</u>	Non-Major	HUNTSVILLE	34.789167	-86.495556
110020533225	<u>SOUTHERN COMMERCIAL DEVELOPMNT</u>	Non-Major	DECATUR	34.575833	-86.983333
110020132845	<u>LAWRENCE COUNTY ROAD 336</u>	Non-Major	MOULTON	34.45	-87.145833
110044883463	<u>CORR SITE</u>	Non-Major	DECATUR	34.560833	-86.973611
110044881642	<u>NELCO CONVENIENCE STORE</u>	Non-Major	MADISON	34.7282	-86.70607
110043492636	<u>FALLS CREEK PHASE 2</u>	Non-Major	NEW MARKET	34.82089	-86.46158
110014337841	<u>HARVEST LANDING SUBDIVISION</u>	Non-Major	HARVEST	34.831667	-86.759167
110020422256	<u>HERMITAGE PLACE PHASE TWO</u>	Non-Major	HUNTSVILLE	34.7875	-86.731667
110006034674	<u>MCPHERSON CO DECATUR PLANT</u>	Non-Major	DECATUR	34.61909	-87.01508
110042364116	<u>SECOND CREEK NEW DG DECATUR</u>	Non-Major	DECATUR	34.52314	-86.97065
110025375886	<u>NATIONAL PACKAGING CO INC</u>	Non-Major	DECATUR	34.54072	-86.97771
110011886888	<u>MILK PRODUCTS OF ALABAMA</u>	Non-Major	DECATUR	34.58179	-86.97972
110038108641	<u>HUDSON ALPHA INSTITUTE FOR BIOTECHNOLOGY</u>	Non-Major	HUNTSVILLE	34.72602	-86.69015
110054128519	<u>TWICKENHAM SQUARE HOMEWOOD SUITES</u>	Non-Major	HUNTSVILLE	34.722778	-86.5825
110054113909	<u>EXPLOSIVE ORDINANCE EXPLOTATION (EOE) COMPLEX</u>	Non-Major	REDSTONE ARSENAL	34.602463	-86.597063
110055202276	<u>ANSLEE FARMS SUBDIVISION, PHASE I AND I-A LOTS</u>	Non-Major	HUNTSVILLE	34.786603	-86.676406
110055167206	<u>LEGACY OF MONROVIA LOTS</u>	Non-Major	HUNTSVILLE	34.80108	-86.72426
110054113945	<u>INTERGRAPH HEADQUARTERS</u>	Non-Major	MADISON	34.675556	-86.742222
110055172664	<u>SHOAL CREEK PHASES 1 & 2</u>	Non-Major	NEW MARKET	34.8953	-86.5282
110055172735	<u>RACEWAY #135</u>	Non-Major	MERIDIANVILL E	34.829444	-86.571667
110054120517	<u>VON BRAUN PHASE IV</u>	Non-Major	REDSTONE ARSENAL	34.646944	-86.641389
110054120535	<u>BUILDING 9010</u>	Non-Major	REDSTONE ARSENAL	34.595	-86.608889
110054120633	<u>RSA BUILDINGS 3301-3308</u>	Non-Major	REDSTONE ARSENAL	34.682916	-86.629183
110054120777	<u>MADISON CORNERS</u>	Non-Major	HUNTSVILLE	34.747722	-86.767306
110054117843	<u>PROPOSED W.H. COUNCILL PARKING DECK</u>	Non-Major	HUNTSVILLE	34.721589	-86.584536
110054117852	<u>HAYS INTERPRETIVE CENTER</u>	Non-Major	HAMPTON COVE	34.643944	-86.473458
110054123710	<u>MOORESVILLE RD STORAGE BUILDINGS</u>	Non-Major	ATHENS	34.7698	-86.8773
110054123729	<u>SHOAL CREEK PHASE 2</u>	Non-Major	NEW MARKET	34.8955	-86.5266
110055202258	<u>BILTMORE STATION SUBDIVISION LOTS</u>	Non-Major	HUNTSVILLE	34.776961	-86.771667
110055202267	<u>BROOKES LANDING PHASE I, II, AND III LOTS</u>	Non-Major	HUNTSVILLE	34.784631	-86.504364

Registry ID	Name	Type	City	Latitude	Longitude
110054132112	APPLEWOOD SUBDIVISION	Non-Major	MADISON	34.72888	-86.770342
110054100655	POINT MALLARD LAZY RIVER	Non-Major	DECATUR	34.572778	-86.941056
110054902940	STUDENT WELLNESS CENTER	Non-Major	HUNTSVILLE	34.75531	-86.57962
110054128760	WALKERS HILL SUBDIVISION	Non-Major	MERIDIANVILL E	34.8812	-86.5493
110054115177	SPRING LAKE AT MT. CARMEL, PHASE III	Non-Major	HUNTSVILLE	34.803525	-86.487403
110054110038	DURHAM FARMS	Non-Major	HARVEST	34.874808	-86.743017
110054101084	CARPENTER TECHNOLOGIES TRUNK SEWER - PHASE 1	Non-Major	TANNER	34.658333	-86.962778
110054117978	CHARITY LANE SUBSTATION IMPROVEMENTS	Non-Major	HAZEL GREEN	34.941617	-86.570333
110055172842	ANIMAL MEDICAL CLINIC (RESEARCH PARK BLVD)	Non-Major	HUNTSVILLE	34.755278	-86.672778
110054138134	JOHNSON DIRT PIT	Non-Major	DANVILLE	34.383169	-87.126186
110054118398	OFF SITE BORROW AREA A / TANNER INTERCHANGE	Non-Major	TANNER	34.716108	-86.939842
110054100995	NASA MARSHALL SPACE FLIGHT CENTER	Non-Major	HUNTSVILLE	34.630261	-86.664583
110054106873	MAPCO-COUNTY LINE	Non-Major	MADISON	34.747222	-86.785833
110054110190	NEW RETAIL DEVELOPMENT-HOLMES AVE	Non-Major	HUNTSVILLE	34.7297	-86.60755
110055192633	REDSTONE ARSENAL SHOPPETTE	Non-Major	HUNTSVILLE	34.646711	-86.646439
110055203097	HAMPTON COVE PRESCHOOL	Non-Major	BROWNSBORO	34.68713	-86.49829
110054900149	RSC	Non-Major	HUNTSVILLE	34.77886	-86.66211
110006653031	HARVEST USED AUTO PARTS	Non-Major	HARVEST	34.853417	-86.751818
110040432733	LIMESTONE CO WS AUTH BLUE SPRINGS ELEM WWTP	Non-Major	ATHENS	34.795556	-87.151667
110042367408	SHILOH CREEK SUBDIVISION	Non-Major	MADISON	34.7066	-86.7596
110043276530	HAMPTON RIDGE PHASE V	Non-Major	HAMPTON COVE	34.6441	-86.4983
110043276567	BORROW PIT #5	Non-Major	HUNTSVILLE	34.659444	-86.628056
110064258039	FEDERAL EXPRESS HSVA HUNTSVILL	Non-Major	MADISON	34.672755	-86.779626
110020836470	BRELAND HOMES INC	Non-Major	MADISON	34.692172	-86.799576
110042361921	HOUSTON PLACE SUBDIVISION	Non-Major	TANNER	34.7211	-86.9602
110042363135	ADAMS HOMES LLC CARRINGTON PHA	Non-Major	OWENS CROSS ROADS,	34.635781	-86.489969
110042361324	MORGAN CO REG LANDFILL	Non-Major	TRINITY	34.62185	-87.08794
110042361459	KEVIN CORUM WILD PLUM PLACE SD	Non-Major	HARTSELLE	34.433517	-86.964167
110042363260	P & C LAND DEVE BUCKHORN SUBDI	Non-Major	NEW MARKET	34.876	-86.4566
110010076158	HUNTSVILLE CITY OF	Non-Major	HUNTSVILLE	34.745088	-86.673198
110043504589	REED CONTRACTING BURGESS PIT	Non-Major	HARTSELLE	34.45707	-86.87503
110041934814	TENNESSEE VALLEY RECYCLING - ARDMORE	Non-Major	ARDMORE	34.962831	-86.796734
110043268095	KEN MCDANIEL HOMES BROWNS FERR	Non-Major	MADISON	34.723056	-86.786389

Registry ID	Name	Type	City	Latitude	Longitude
110043269744	APAC MID-SOUTH INC	Non-Major	HUNTSVILLE	34.6387	-86.4689
110006789804	SHELTON AUTO PARTS INC	Non-Major	TRINITY	34.530072	-87.185278
110009040297	BOB CUMMINGS CARS	Non-Major	LIMESTONE COUNTY	34.652403	-86.814011
110010102281	DIXIE K 4 BY 4	Non-Major	ATHENS	34.80287	-86.86808
110020070956	CHAPEL HILL	Non-Major	MADISON	34.67263	-86.762
110043276433	HUNTER HOMES BENTBROOK	Non-Major	MADISON	34.7828	-86.7322
110043277548	LIMESTONE CO WATER AND SEWER T	Non-Major	ATHENS	34.760833	-86.981389
110043276512	ADAMS HOMES OLD IVY SUBDIVISION	Non-Major	MADISON	34.7028	-86.7239
110042392826	JEFF BENTON/WIZ LEGACY COVE SU	Non-Major	MADISON	34.616667	-86.726389
110042385692	CROSSINGS DEV INC ARBOR CROSSING	Non-Major	MADISON	34.7001	-86.787
110010110904	C AND K EGGS CO JAMES F CLARK	Non-Major	ARAB	34.365047	-86.532443
110020421097	HOME ICE COMPANY	Non-Major	CADDO	34.544058	-86.9678
110010068069	HARVEST MONROVIA WTP	Non-Major	HARVEST	34.83869	-86.69371
110020837601	US ARMY GARRISON REDSTONE	Non-Major	REDSTONE ARESENAL	34.6975	-86.633611
110042360940	LIMESTONE CO WATER AND SEWER	Non-Major	ATHENS	34.769167	-86.879444
110042373071	MINK CREEK INVESTMENT LLC	Non-Major	GURLEY	34.6992	-86.383
110042373222	GARY C WYATT CATHOLIC HIGH SCH	Non-Major	HUNTSVILLE	34.707222	-86.697778
110042369629	CITY OF HARTSELLE ROAD CONSTRU	Non-Major	HARTSELLE	34.4497	-86.938
110043270037	REED CONTR SERVICES INC STRING	Non-Major	HUNTSVILLE	34.78388	-86.60983
110046314555	NEWBY ROAD COMMERCIAL SITE	Non-Major	ATHENS	34.761944	-86.859167
110046315288	GOLDSMITH SCHIFFMAN BALL FIELDS	Non-Major	HUNTSVILLE	34.625606	-86.489089
110042359140	GIBSON HOMES	Non-Major	MADISON	34.674167	-86.717222
110046285863	HIGHWAY 53 CENTRE	Non-Major	HUNTSVILLE	34.7932	-86.6687
110042357277	CITY OF HUNTSVILLE AL TAYLOR	Non-Major	HUNTSVILLE	34.6308	-86.4838
110042357393	JEFF BENTON HOMES RIVER RIDGE	Non-Major	OWENS CROSS ROADS	34.6016	-86.4873
110042368773	MRJ INC PARK HAMPTON SD	Non-Major	HUNTSVILLE	34.682	-86.484
110042368808	NEW CASTLE VILLAGES OF WHEELER	Non-Major	MADISON	34.6005	-86.7538
110042368826	NANCE ROAD PROJECT	Non-Major	MADISON	34.7559	-86.7318
110046298555	HWY 255 CONSTRUCTION WASTE AREA	Non-Major	HUNTSVILLE	34.7717	-86.6773
110046296058	CROSS CREEK SUBDIVISION PHASE III	Non-Major	MADISON	34.764382	-86.762385
110064273281	TIMBER'S EDGE PHASE II	Non-Major	BROWNSBORO	34.6775	-86.487778
110042363359	ARCHIE JEFFERSON JS SPECIAL	Non-Major	HUNTSVILLE	34.7979	-86.5715
110042363377	MILLTRACE RUN LLC MILLSTONE SD	Non-Major	MADISON	34.7065	-86.7673

Registry ID	Name	Type	City	Latitude	Longitude
110046305020	<u>WATERCRESS RETAIL DEVELOPMENT</u>	Non-Major	HUNTSVILLE	34.7579	-86.7137
110042358739	<u>HALLMARK ALABAMA THREE LP</u>	Non-Major	HARTSELLE	34.455556	-86.948056
110042358230	<u>CITY OF MADISON WALL TRIANA H</u>	Non-Major	MADISON	34.7523	-86.7494
110043272446	<u>SHOPPES OF MADISON</u>	Non-Major	MADISON	34.74849	-86.759095
110046322644	<u>SITE 5 FRENCH MILL CREEK FROM MOORESVILLE TO CAPSHAW</u>	Non-Major	ATHENS	34.766389	-86.877222
110046292356	<u>A T & T CABLE RELOCATION - DECATUR TO BREMAN ROAD</u>	Non-Major	DECATUR	34.604778	-86.97775
110042358178	<u>ANGELO IAFRATE GOVERNORS DRIVE</u>	Non-Major	HUNTSVILLE	34.719722	-86.580278
110042358203	<u>WEST HUNTSVILLE CHURCH OF CH</u>	Non-Major	HUNTSVILLE	34.75417	-86.67917
110046315563	<u>WALMART NEIGHBORHOOD MARKET #2488</u>	Non-Major	DECATUR	34.589444	-86.980833
110046315830	<u>U.S. HWY. 72</u>	Non-Major	MADISON	34.749928	-86.761231
110046316045	<u>WEST MADISON DIALYSIS CLINIC</u>	Non-Major	MADISON	34.72914	-86.79593
110046319186	<u>BANK INDEPENDENT HWY 72 HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.756111	-86.731944
110042362939	<u>PREMIER STRUCTURES INC TANNER</u>	Non-Major	ATHENS	34.7555	-87.002
110046329022	<u>BROWN'S CROSSING PHASE II</u>	Non-Major	ATHENS	34.770458	-86.884444
110042366757	<u>OAKVIEW LTD OAKVIEW APT</u>	Non-Major	ATHENS	34.81525	-86.94695
110042366775	<u>T & T CONTRACTING INC GTH PIT</u>	Non-Major	HILLSBORO	34.631	-87.1098
110042365883	<u>ISBELL CONST CO INC RYLAND PL</u>	Non-Major	HUNTSVILLE	34.7699	-86.7682
110043275443	<u>JEFF BENTON HOMES INC GRAYSON</u>	Non-Major	HUNTSVILLE	34.6245	-86.4881
110043275498	<u>SEA 104 LLC HARDEES</u>	Non-Major	HUNTSVILLE	34.5961	-86.5609
110042370788	<u>BRINDLEY CONST LLC</u>	Non-Major	ATHENS	34.7811	-86.9306
110042370902	<u>RURAL MORGAN CO IND DEV BOARD</u>	Non-Major	EVA	34.36	-86.781389
110043273837	<u>HARVEST-MONROVIA WATER SEWER</u>	Non-Major	HARVEST	34.8433	-86.7099
110043267443	<u>LIFESOUTH</u>	Non-Major	MADISON	34.68806	-86.72556
110043267568	<u>WIREGRASS CONST CO INC MARTIN</u>	Non-Major	HUNTSVILLE	34.6471	-86.6729
110042357071	<u>WALLEY ESTATES 4TH ADDITION</u>	Non-Major	ARAB	34.3575	-86.4526
110042357507	<u>BURGREN EARTHMOVING LLC</u>	Non-Major	ATHENS	34.7587	-86.9309
110042357534	<u>KEN MCDANIEL HOMES FOREST MEAD</u>	Non-Major	MADISON	34.6394	-86.7264
110042362662	<u>MCDONALDS USA LLC</u>	Non-Major	DECATUR	34.6183	-87.0505
110042357838	<u>NORTHBROOK LLC CROSS CREEK SU</u>	Non-Major	HUNTSVILLE	34.7631	-86.766944
110042357856	<u>JEFF BENTON SUMMERFIELD 5</u>	Non-Major	MADISON	34.7956	-86.7264
110042357865	<u>JERRY MILLER</u>	Non-Major	ATHENS	34.7428	-87.0475
110046328283	<u>ACADEMY SPORTS - HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.756494	-86.731467
110046328443	<u>WATER MAIN REPLACEMENT, AIRFIELD-RIDEOUT ROAD</u>	Non-Major	REDSTONE ARSENAL	34.749441	-86.631241

Registry ID	Name	Type	City	Latitude	Longitude
110043275354	STANLEY CONST CO GATE 7 ACCESS	Non-Major	HUNTSVILLE	34.645	-86.7088
110042363689	B AND S ENTERPRIS THE MERES	Non-Major	ATHENS	34.8039	-86.9214
110042363705	MAPLE RIDGE SUBDIVISION	Non-Major	MADISON	34.7639	-86.7749
110046320584	SUMMERFIELD PHASE 6	Non-Major	MADISON	34.797778	-86.728611
110046291892	LENDON	Non-Major	HUNTSVILLE	34.677222	-86.551944
110046291124	ALDOT STPAA-STPHV-0001 (531) DUG HILL ROAD/HILLIS BORROW PIT	Non-Major	HUNTSVILLE	34.590783	-86.498083
110043267719	EAGLESS LANDING DEV LTD	Non-Major	MADISON	34.6828	-86.7614
110043264044	CITY OF MADISON US 72	Non-Major	MADISON	34.75142	-86.75422
110046305226	COLONIAL PROMENADE GRAVITY LINE	Non-Major	MADISON	34.756569	-86.776569
110046324134	PINEY CHAPEL ROAD BIKEWAY	Non-Major	ATHENS	34.848333	-86.970278
110042372107	GREYSTONE DEVEL HERITAGE BROOK	Non-Major	HUNTSVILLE	34.77087	-86.76952
110042365847	MERIDIANVILLE VOLUNTEER FIRE	Non-Major	MERIDIANVILLE	34.865833	-86.586944
110042364036	GRAYSON CARTER AND SON BULLINGTON	Non-Major	ATHENS	34.797097	-86.963614
110042364090	HARTSELLE CITY OF I65 VACANT	Non-Major	HARTSELLE	34.4478	-86.8985
110043495401	MOUNTAIN FORK WATER TREATMENT FACILITY	Non-Major	NEW MARKET	34.922734	-86.38453
110055213255	ALABAMA PEDIATRIC DENTAL	Non-Major	HUNTSVILLE	34.72652	-86.58296
110055213228	COUNTRY INN AND SUITES	Non-Major	MADISON	34.79277	-86.57205
110055231262	SOUTHERN HAULERS TERMINAL	Non-Major	HARTSELLE	34.41212	-86.89628
110055213308	LOT 2 WESTSIDE PAVILLION	Non-Major	HUNTSVILLE	34.74094	-86.67788
110055213549	HSV MOTORS	Non-Major	HUNTSVILLE	34.775624	-86.654429
110055213558	PEARCE CONSTRUCTION COMPANY	Non-Major	HAZEL GREEN	34.93724	-86.571642
110055217260	LEGACY OF MONROVIA	Non-Major	MADISON	34.78348	-86.73056
110055217199	GROVE PARK TOWNHOMES	Non-Major	MADISON	34.70912	-86.78653
110055217206	HERMITAGE PLACE PHASE 5	Non-Major	HUNTSVILLE	34.71148	-86.58775
110055217322	MAYSVILLE WATER RECLAMATION FACILITY	Non-Major	HUNTSVILLE	34.80624	-86.46303
110055217527	LA QUINTA INN & SUITES	Non-Major	MADISON	34.67543	-86.75991
110055240252	TENNESSEE VALLEY RECYCLING - ATHENS DIVISON	Non-Major	ATHENS	34.79119	-87.01877
110055248209	LOT # 4 CARRIAGE HILL SUBDIVISION	Non-Major	MADISON	34.689937	-86.733651
110055246773	NATIONAL BANK OF COMMERCE BANK BUILDING	Non-Major	HUNTSVILLE	34.73566	-86.58653
110055246826	NICHOLAS RIDGE	Non-Major	HARVEST	34.80849	-86.75087
110055262004	KING'S MEMORIAL UNITED METHODIST CHURCH	Non-Major	DECATUR	34.616241	-86.990447
110055360005	GILBERT SIGNS	Non-Major	OWENS CROSS ROADS	34.619458	-86.457042
110055360032	CITY HALL RECONSTRUCTION	Non-Major	ATHENS	34.80441	-86.96836

Registry ID	Name	Type	City	Latitude	Longitude
110055361497	BUILDING PAD	Non-Major	HUNTSVILLE	34.77161	-86.66995
110055361772	COTTAGES OF MADISON	Non-Major	MADISON	34.69042	-86.74612
110055361594	MCCULLEY MILL SUBDIVISION	Non-Major	HUNTSVILLE	34.74068	-86.59652
110055202285	NEW RETAIL DEVELOPMENT	Non-Major	HARTSELLE	34.44627	-86.90146
110055479245	CITY OF DECATUR PUBLIC WORKS	Non-Major	DECATUR	34.579016	-86.985687
110055480634	THE PET HOSPITAL OF MADISON	Non-Major	MADISON	34.734452	-86.786325
110055480037	POPE JOHN PAUL II CATHOLIC HIGH SCHOOL ATHLETIC FIELDS	Non-Major	HUNTSVILLE	34.71298	-86.69409
110055480974	COLUMBIA ELEMENTARY SOCCER FIELDS	Non-Major	MADISON	34.7337	-86.76782
110055481385	HOWARD ROBERSON	Non-Major	FALKVILLE	34.38056	-86.87868
110055481394	WHISPERING CREEK SUBDIVISION	Non-Major	HUNTSVILLE	34.790116	-86.518032
110055481410	PROPOSED RENOVATION/ADDITION BUCKHORN HIGH SCHOOL	Non-Major	NEW MARKET	34.87111	-86.45369
110055206432	TVA TRINITY - BROWNS FERRY UPRATE	Non-Major	DECATUR	34.60843	-87.05104
110055104275	BETHEL ROAD WIDENING	Non-Major	HARTSELLE	34.447003	-86.923744
110055188238	CHURCH STREET PROJECT WASTE AREA	Non-Major	HUNTSVILLE	34.74923	-86.58856
110055106371	ATHENS SHOPPES	Non-Major	ATHENS	34.787856	-86.961928
110003033510	TVA MADISON 500 KV SUBSTATION	Non-Major	HUNTSVILLE	34.795321	-86.521668
110055206272	PLANT 3 LACEY SPRINGS	Non-Major	LACEYS SPRING	34.559113	-86.577331
110055171610	REED OPERATIONS SITE	Non-Major	HUNTSVILLE	34.71379	-86.60912
110055192688	PARKING LOT ADDITION, LANDERS MCLARTY	Non-Major	HUNTSVILLE	34.74815	-86.69136
110055192492	HAYS BORROW PIT	Non-Major	HUNTSVILLE	34.64265	-86.57371
110055095445	REDSTONE ARSENAL - FUEL TANK FARM - BLDGS. 5655, 5689	Non-Major	REDSTONE ARSENAL	34.632406	-86.64445
110055095454	DUTTON PROPERTY	Non-Major	TRINITY	34.591181	-87.101925
110038335995	STONE CREST PHASE 1 LOTS 3-1, 4-1, 5-1,6-1; PHASE 2 LOTS 19.5 AND 20.5	Non-Major	MADISON	34.73935	-86.7857
110055096211	BORROW AREA 24	Non-Major	REDSTONE ARSENAL	34.657516	-86.6564
110056991144	DURACOAT	Non-Major	MADISON	34.63431	-86.84608
110057187146	LKQ SELF SERVICE HUNTSVILLE	Non-Major	HUNTSVILLE	34.77876	-86.650579
110054108354	ROMINE FARMS	Non-Major	ANDERSON	34.91774	-87.318795
110000367549	BUNGE NORTH AMERICA	Non-Major	DECATUR	34.60502	-86.96797
110000512473	PILGRIMS PRIDE - ATHENS AL PROCESSING PLANT	Non-Major	ATHENS	34.805507	-86.95793
110058920869	NELSON FARM	Non-Major	FALKVILLE	34.376637	-86.788411
110009066081	NORTH COUNTY WWTP	Non-Major	MERIDIANVILL E	34.880917	-86.568111

Registry ID	Name	Type	City	Latitude	Longitude
110057197965	4S FARMS	Non-Major	EVA	34.354	-86.76579
110060268847	YULISTA WAREHOUSE	Non-Major	MERIDIANVILLE	34.8544	-86.55486
110059703842	LEGACY HILL APARTMENTS	Non-Major	HUNTSVILLE	34.79269	-86.5669
110059782276	GREENLAWN GENERAL OFFICER QUARTERS	Non-Major	REDSTONE ARSENAL	34.70065	-86.65156
110059797028	MARKET STREET MOB	Non-Major	ATHENS	34.80408	-86.98013
110059703762	CROW FARM	Non-Major	DANVILLE	34.36038	-87.11022
110056995239	WEST MORGAN NO. 1	Non-Major	DECATUR	34.584352	-87.068686
110057642626	INNOVATIVE PLASTICS, INC.	Non-Major	MADISON	34.68938	-86.74326
110059707303	KIRBY TOWING & GARAGE	Non-Major	MOULTON	34.490006	-87.159979
110056341383	STORAGE WEST PLUS	Non-Major	DECATUR	34.561287	-87.057583
110059796751	WAL-MART EXPRESS #2235-00, GURLEY, AL	Non-Major	GURLEY	34.69484	-86.371866
110059703860	RICKWOOD VILLAGE PARK	Non-Major	MADISON	34.71287	-86.77268
110058277742	CEDAR ACRES SUBDIVISION	Non-Major	MADISON	34.7071	-86.80111
110056400167	BLUE SPRINGS CHURCH OF CHRIST	Non-Major	HUNTSVILLE	34.756206	-86.599231
110056341481	BORDEAUX GRAVITY SANITARY SEWER CONNECTION	Non-Major	MADISON	34.766699	-86.775856
110058283584	REED CONTRACTING SERVICES, INC. CONCRETE PLANT 4	Non-Major	TRINITY	34.60518	-87.06568
110059703806	CALLAWAY FARMS	Non-Major	MOULTON	34.493193	-87.176987
110058280827	PEE WEES RECYCLING	Non-Major	SOMERVILLE	34.465789	-86.709944
110033017321	PATRICK INDUSTRIES	Non-Major	DECATUR	34.56138	-86.9808
110010104476	SKYLINE TRANSPORTATION INC	Non-Major	HUNTSVILLE	34.666836	-86.752148
110014337262	VALLEY VISTA SUBDIVISION	Non-Major	HUNTSVILLE	34.64123	-86.53114
110015982052	BUG BARN	Non-Major	JOPPA	34.369795	-86.641061
110044274576	US 72 (LEE HWY.)	Non-Major	HUNTSVILLE	34.73997	-86.60096
110043507988	CUSTOM POLYMERS PET EXPANSION	Non-Major	ATHENS	34.82959	-86.965206
110043502581	RAIL ACCESS ROAD	Non-Major	TRINITY	34.63475	-87.09487
110044879628	TVA BROWNS FERRY - WEST POINT 500-KV UPRATE	Non-Major	ATHENS	34.71123	-87.09717
110010101273	UNITED REFRACTORIES INC	Non-Major	MOULTON	34.463711	-87.253155
110020434617	CRONIMET CORP	Non-Major	DECATUR	34.628593	-87.038455
110013684147	CONTRACTORS BUILDING SYSTEMS INC	Non-Major	MADISON	34.69204	-86.74466
110044230766	AAR PRECISION SYSTEMS	Non-Major	HUNTSVILLE	34.718169	-86.644276
110001713780	STEEL TECHNOLOGIES LLC	Non-Major	DECATUR	34.65328	-87.07016
110001716180	ARDENT MILLS	Non-Major	DECATUR	34.600155	-86.9599
110020406880	CEDAR GLEN SUBDIVISION	Non-Major	MADISON	34.70579	-86.80519

Registry ID	Name	Type	City	Latitude	Longitude
110042373115	CITY OF ATHENS ELM INDUSTRIAL	Non-Major	ATHENS	34.82959	-86.965206
110022420691	MARTIN FARMS	Non-Major	ARAB	34.34639	-86.42396
110043500896	WINSTONE SUBDIVISION	Non-Major	MADISON	34.70819	-86.71018
110043503697	ST. PAUL CATHOLIC CHURCH	Non-Major	ATHENS	34.790728	-86.997031
110003384445	TENNESSEE VALLEY RECYC HVILLE	Non-Major	HUNTSVILLE	34.72507	-86.609551
110046229489	TARGET DISTRIBUTION CENTER T-580	Non-Major	MADISON	34.644903	-86.843861
110042363974	AUTOZONE DEV CORP STORE 0031	Non-Major	HUNTSVILLE	34.636184	-86.566794
110025375154	CLARIESE HOWSE	Non-Major	FALKVILLE	34.335743	-86.902935
110043071564	CROSSPOINTE CHURCH	Non-Major	MADISON	34.697279	-86.740153
110020180301	CEDAR GLEN PHASE 2	Non-Major	MADISON	34.70579	-86.80519
110021832622	SPEAKE SCHOOL LAGOON	Non-Major	DANVILLE	34.41826	-87.16854
110006787325	CHEROKEE RIDGE PROPERTY OWNERS ASSOCIATION WWTP	Non-Major	UNION GROVE	34.418758	-86.569241
110043502876	WILLOW WAY SUBDIVISION PHASE II/ JORDAN PARK CHURCH OF CHRIST	Non-Major	HUNTSVILLE	34.62078	-86.51701
110003034993	BK MANUFACTURING INC	Non-Major	ARAB	34.346711	-86.448261
110044239133	ROMINE FARMS	Non-Major	ANDERSON	34.915604	-87.318789
110002105221	HOLM INDUSTRIES	Non-Major	HARTSELLE	34.413052	-86.921116
110012338005	ARAB TRADING CO.	Non-Major	ARAB	34.35705	-86.5112
110043726901	TARGET - SHOPPES OF MADISON	Non-Major	MADISON	34.751324	-86.754136
110044244699	POLICE STORAGE FACILITY	Non-Major	HUNTSVILLE	34.72762	-86.60201
110044879664	FRANKLIN HILLS APARTMENTS	Non-Major	HUNTSVILLE	34.75368	-86.66499
110003032110	SONOCO PRODS. CO. BAKER DIV. METCO	Non-Major	HARTSELLE	34.42052	-86.92274
110000367503	HYOSUNG USA INC DECATUR PLANT	Non-Major	DECATUR	34.59941	-86.96298
110042369978	MINK CREEK INVESTMENTS LLC DG	Non-Major	HUNTSVILLE	34.732273	-86.586894
110043022341	SATELLITES UNLIMITED INC	Non-Major	MADISON	34.636597	-86.845284
110042362760	SOUTHERN ATHLETIC FIELDS	Non-Major	LACEYS SPRING	34.54793	-86.612908
110000367987	ARORA TECHNOLOGIES INC	Non-Major	HUNTSVILLE	34.71069	-86.59008
110012337676	N AND W METALS INC	Non-Major	DECATUR	34.512225	-86.970926
110045515359	THATCH-MANN CEMETERY	Non-Major	ATHENS	34.80529	-86.99288
110030772849	TENN VALLEY SEWER AUTH WWTP	Non-Major	HAZEL GREEN	34.989907	-86.570877
110040085715	PINE RIDGE TRUCKING AND AUTOMOTIVE SHOP	Non-Major	TANNER	34.703239	-87.003277
110037373589	TELEDYNE BROWN ENGINEERING	Non-Major	TANNER	34.641305	-86.900739
110009040466	VALLEY RUBBER LLC	Non-Major	FALKVILLE	34.3901	-86.91197
110020834089	DECATUR ATM	Non-Major	DECATUR	34.5774	-86.97647
110010107776	DCA READY MIX INC DECATUR	Non-Major	DECATUR	34.59131	-86.98285

Registry ID	Name	Type	City	Latitude	Longitude
110025383083	MADISON COUNTY BOARD OF EDUCATION	Non-Major	TONEY	34.866879	-86.713642
110020181177	HAMPTON POINTE AT SADDLERIDGE	Non-Major	HUNTSVILLE	34.74656	-86.62312
110020185618	PENNYLANE DETENTION FACILTIY	Non-Major	DECATUR	34.52503	-86.97185
110037574808	ALPHAPET INC	Non-Major	DECATUR	34.6416	-87.05203
110025368705	LIMESTONE CO WATER AND SEWER AUTHORITY	Non-Major	ATHENS	34.79109	-87.01385
110042358267	MORGAN CO COMM UNION HILL INTE	Non-Major	HARTSELLE	34.451561	-86.90441
110042379949	WILLIAM B BROWN ENTRANCE TO 3	Non-Major	FAYETTEVILLE	35.038711	-86.574692
110020837781	MEDICAL OFFICE BUILDING	Non-Major	DECATUR	34.5909	-86.97195
110043507372	PROPOSED COVE PARK MOB	Non-Major	OWENS CROSS ROADS	34.66003	-86.489799
110000747791	DEL MONTE-MEOW MIX	Non-Major	DECATUR	34.60734	-86.97208
110043730497	R & B METALS, LLC	Non-Major	LACEYS SPRING	34.527693	-86.647266
110020129626	EMERALD RIDGE AT MT CHARRON	Non-Major	MADISON COUNTY	34.67436	-86.7241
110014464739	ALDRIDGE CREEK WASTEWATER TREATMENT PLANT	Non-Major	HUNTSVILLE	34.586885	-86.563373
110020179625	APAC INC RUNWAY TAXIWAY PRYOR FIELD	Non-Major	TANNER	34.658877	-86.95021
110010069219	BLOUNT SPRINGS MATERIALS INC MACK CREEK QUARRY	Non-Major	FALKVILLE	34.339978	-86.99378
110042358052	THE RIDGE AT OAKDALE	Non-Major	ATHENS	34.800203	-86.925803
110043756502	MAPCO	Non-Major	HUNTSVILLE	34.755243	-86.71406
110006792462	PITT CONCRETE PRODUCTS INC	Non-Major	TRINITY	34.528168	-87.201246
110033011513	SCHWARZE INDUSTRIES INC	Non-Major	HUNTSVILLE	34.78217	-86.53297
110038108598	CARWASH EXPRESS 2 INC	Non-Major	ATHENS	34.784105	-86.942835
110042361618	CONSOLIDATED CONSTRUCTION CO	Non-Major	HUNTSVILLE	34.626745	-86.726582
110039498647	SHERMAN INDUSTRIES DECATUR PLANT	Non-Major	TRINITY	34.605054	-87.054165
110043033883	BRIAN RANDOLPH	Non-Major	DANVILLE	34.385948	-87.057338
110012231628	WASTE MANAGEMENT - HUNTSVILLE	Non-Major	HUNTSVILLE	34.7843	-86.66159
110043275452	STANLEY CONST CO OAKWOOD UNIVE	Non-Major	HUNTSVILLE	34.75323	-86.64864
110043507498	RECYCLING FACILITY	Non-Major	TRINITY	34.625853	-87.100856
110010106928	DCA READY MIX INC TRINITY	Non-Major	TRINITY	34.621593	-87.078432
110010155474	WILSON MACHINE AND WELDING INC.	Non-Major	DECATUR	34.59885	-87.052676
110042361128	JASON HOLMES	Non-Major	EVA	34.318325	-86.778002
110006787423	MOUNTAIN VIEW TRAILER PARK	Non-Major	MADISON	34.75923	-86.62995
110010102799	PROGRESS RAIL SERVICE HUNTSVILLE RECYCLING	Non-Major	HUNTSVILLE	34.759146	-86.480823
110012534007	ALABAMA CONCRETE CO INC	Non-Major	MADISON	34.679518	-86.786705
110000513132	DECATUR UTILITIES WATER PLANT	Non-Major	DECATUR	34.601813	-86.962668

Registry ID	Name	Type	City	Latitude	Longitude
110020395428	ADDNL PARKING ON HWY 67	Non-Major	DECATUR	34.56297	-86.97328
110042389643	HAMES WTP IMPROVEMENTS	Non-Major	HILLSBORO	34.749547	-87.227864
110006652899	MCR ALLOYS LLC	Non-Major	DECATUR	34.608388	-87.04643
110044253642	TRILAND COMMERCIAL SITES	Non-Major	DECATUR	34.562205	-86.975176
110043496767	RESIDENCE HALL 2010	Non-Major	HUNTSVILLE	34.723557	-86.644092
110045476588	W.H. THOMAS OIL COMPANY	Non-Major	DECATUR	34.634261	-87.051927
110001713174	AVIAGEN FEED MILL	Non-Major	ATHENS	34.830263	-86.965198
110043264035	CALHOUN CC PARKING IMPROVEMENT	Non-Major	TANNER	34.64717	-86.95046
110042361360	M & D DEV LLC CROWN	Non-Major	DECATUR	34.52647	-86.9362
110006653335	PITTS USED AUTO PARTS	Non-Major	ATHENS	34.767233	-87.054501
110040083575	ISBELL READY MIX INC HUNTSVILLE	Non-Major	HUNTSVILLE	34.80385	-86.53234
110039735374	EAST LIMESTONE WWTP	Non-Major	ATHENS	34.78281	-86.832542
110025354809	CITY OF ATHENS (PWS)	Non-Major	ATHENS	34.82003	-86.99248
110045505271	WEST WIND TECHNOLOGIES BUILDING 2840	Non-Major	HUNTSVILLE	34.640818	-86.759312
110020185556	5TH STREET DRAINAGE IMPROVEMNT	Non-Major	DECATUR	34.52503	-86.97185
110000367870	TDY INDUSTRIES INC (DBA ATI FIRTH STERLING)	Non-Major	GURLEY	34.698417	-86.38296
110022911447	DOUBLE BUBBLE CAR WASH	Non-Major	HUNTSVILLE	34.813216	-86.502818
110045493747	HARTSELLE AQUATIC CENTER	Non-Major	HARTSELLE	34.431482	-86.935962
110046320673	CULLMAN AIRPORT HANGARS	Non-Major	VINEMONT	34.268215	-86.861219
110042363055	B & B LAND WEST HAVEN SD	Non-Major	HUNTSVILLE	34.83436	-86.64263
110021882756	TANNER HIGH SCHOOL WWTP	Non-Major	TANNER	34.732088	-86.97478
110042843741	FALKVILLE WOOD TREATING INC	Non-Major	FALKVILLE	34.377063	-86.911796
110000367497	SOUTHERN WATER CONSULTANTS INC	Non-Major	DECATUR	34.552517	-86.979125
110020180070	LAKE FOREST	Non-Major	MADISON	34.67447	-86.71915
110043001015	GREENWAY RECYCLING SOLUTIONS	Non-Major	MADISON	34.59463	-86.73672
110010107099	MITCHELL PRODUCTS INC	Non-Major	TONEY	34.940527	-86.707778
110042839818	REED CONTRACTING SERVICES INC	Non-Major	LACEYS SPRING	34.55143	-86.5855
110043275149	KINGSTON PLACE 3RD ADDITION	Non-Major	ATHENS	34.77173	-86.87484
110013931594	SOLID WASTE DISPOSAL AUTHORITY	Non-Major	HUNTSVILLE	34.68894	-86.59206
110060364421	FRENCH MILL PINEY CREEK SEWER	Non-Major	ATHENS	34.75641	-86.91192
110060353898	SOUTHGATE SUBDIVISION PHASE I	Non-Major	HUNTSVILLE	34.64542	-86.47989
110060364298	O'REILLY AUTO STORE - HUNTSVILLE, ALABAMA	Non-Major	HUNTSVILLE	34.66	-86.48832
110060364314	HAYSLAND ROAD	Non-Major	HUNTSVILLE	34.64667	-86.56694
110060353718	GURLEY (BROWNSBORO ROAD) NEW RETAIL STORE	Non-Major	GURLEY	34.76897	-86.42992
110022412254	ROBERT M. HAMES WTP	Non-Major	HILLSBORO	34.749547	-87.227864
110060357698	SES HUNTSVILLE OPERATIONS WEST	Non-Major	HUNTSVILLE	34.66541	-86.74576

Registry ID	Name	Type	City	Latitude	Longitude
110001715993	DECATUR	Non-Major	DECATUR	34.61926	-86.98792
110060359972	LINDSAY LANE CHRISTIAN ACADEMY	Non-Major	ATHENS	34.775885	-86.989544
110062649610	CORNERSTONE WORD OF LIFE CHURCH	Non-Major	MADISON	34.680076	-86.751806
110062649344	ALABAMA CENTER FOR THE ARTS	Non-Major	DECATUR	34.60512	-86.98502
110062654408	ALABAMA-TENNESSEE PIPE, LLC	Non-Major	ATHENS	34.819302	-86.964013
110062649914	GOOSE CREEK FORCEMAIN	Non-Major	MADISON	34.61931	-86.45678
110008998656	CAMPBELL AND SONS LUBICANT LLC	Non-Major	DECATUR	34.604143	-87.034722
110025372781	GOBBLE FITE LUMBER CO INC	Non-Major	DECATUR	34.616745	-86.986389
110042357801	BILTMORE DEVELO THE LEDGES OF	Non-Major	ATHENS	34.824048	-86.832224
110046331135	CALDERA RIDGE SUBDIVISION	Non-Major	ATHENS	34.75463	-86.86313
110046325035	TVA MADISON - GOOSE POND 161-KV UPRATE	Non-Major	HUNTSVILLE	34.792927	-86.518507
110062652400	STILLWATER COVE SUBDIVISION PHASE 1	Non-Major	MADISON	34.79002	-86.67812
110062652133	TEXAS ROADHOUSE	Non-Major	DECATUR	34.56304	-86.97585
110062652142	122 JET PLEX CIRCLE	Non-Major	MADISON	34.66918	-86.777767
110062650457	BOJANGLES- DECATUR	Non-Major	DECATUR	34.56551	-86.97334
110062650625	PAYLESS #3 CONVENIENCE STORE	Non-Major	MADISON	34.669572	-86.78684
110006652283	BODYCOTE ATHENS	Non-Major	ATHENS	34.775154	-86.96884
110043760383	DAVID E. RUF FARMS	Non-Major	ATHENS	34.866473	-86.893449
110062647667	BISHOP ROW	Non-Major	HUNTSVILLE	34.77583	-86.70267
110062651385	MADISON WWTP EXPANSION	Non-Major	MADISON	34.569096	-86.764287
110017875593	SAMS CLUB 4776	Non-Major	HUNTSVILLE	34.73715	-86.65828
110020184593	SOUTHPOINT INDUSTRIAL PARK	Non-Major	HUNTSVILLE	34.641305	-86.900739
110020044780	ALABAMA CONCRETE CO INC - MITCHELL PLANT	Non-Major	HAMPTON COVE	34.64775	-86.47393
110025169243	INSPIRATION POINTE WWTP	Non-Major	MERIDIANVILL E	34.844763	-86.582885
110011381487	ALICEVILLE CHIPS INC	Non-Major	HILLSBORO	34.728028	-87.292051
110010110067	KENNETH HUNTER FARM	Non-Major	BAILEYTON	34.312956	-86.640182
110020434449	HUNTSVILLE DC	Non-Major	MADISON	34.66919	-86.77816
110020837424	WIREGRASS CONSTRUCTION - HUNTSVILLE PLANT	Non-Major	HUNTSVILLE	34.778719	-86.63956
110021840338	GRISSOM HIGH SCHOOL	Non-Major	HUNTSVILLE	34.66185	-86.53944
110027370093	WEATHER'S GROCERY	Non-Major	ROGERSVILLE	34.875343	-87.282329
110037453724	FORMER HANDY #11	Non-Major	DECATUR	34.594814	-86.98024
110042370092	ACCLAIM RESTORATION LLC SITE	Non-Major	HUNTSVILLE	34.67725	-86.60523
110046296450	ALEXANDER FARM	Non-Major	HARTSELLE	34.43251	-87.06039
110046296511	COMPTON FARM	Non-Major	HARTSELLE	34.43251	-87.06039

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110009040386	<u>ROCK-TENN CONVERTING COMPANY, HUNTSVILLE RECYCLE</u>	Non-Major	HUNTSVILLE	34.77287	-86.56521
110010073437	<u>BUCKHORN HIGH SCHOOL WWTP</u>	Non-Major	NEW MARKET	34.87111	-86.45369
110009122074	<u>MADISON CO BOE CENTRAL SCHOOL LAGOON</u>	Non-Major	HUNTSVILLE	34.76637	-86.45512
110010108702	<u>SONOCO REELS</u>	Non-Major	HARTSELLE	34.42155	-86.92006
110010155456	<u>SUPERIOR BULK LOGISTICS DBA CARRY TRANSIT</u>	Non-Major	DECATUR	34.62481	-87.03848
110014395733	<u>CANEBRAKE CLUB</u>	Non-Major	ATHENS	34.766336	-86.928949
110006652540	<u>A & R TRANSPORT INC</u>	Non-Major	DECATUR	34.619419	-87.036227
110010110708	<u>HAL LEE POULTRY FARM</u>	Non-Major	HARTSELLE	34.383037	-86.987173
110006792774	<u>INTERNATIONAL PAPER</u>	Non-Major	HUNTSVILLE	34.67016	-86.75208
110063216087	<u>NORTHWEST SUBSTATION</u>	Non-Major	HUNTSVILLE	34.82253	-86.66057
110063217816	<u>MAPLE HILL CEMETERY EXPANSION</u>	Non-Major	HUNTSVILLE	34.733902	-86.574679
110063217521	<u>O'REILLY AUTO PARTS; HUNTSVILLE, ALABAMA</u>	Non-Major	HUNTSVILLE	34.81809	-86.49044
110043500422	<u>STERRS HOMES, PROJECT 48-3</u>	Non-Major	DECATUR	34.615833	-87.0075
110006548806	<u>SHERMAN INDUSTRIES LLC</u>	Non-Major	MADISON	34.691481	-86.763245
110020517939	<u>TOYOTA MOTOR MANUFACTURING ALABAMA INC</u>	Non-Major	HUNTSVILLE	34.825	-86.6417
110064282770	<u>BREWER HIGH SCHOOL WWTP</u>	Non-Major	SOMERVILLE	34.42324	-86.7041
110010102012	<u>ATHENS AUTO RECYCLING INC</u>	Non-Major	ATHENS	34.785417	-87.018222
110043506747	<u>HILLIS DIRT PIT</u>	Non-Major	HUNTSVILLE	34.591183	-86.499586
110045505342	<u>BURWELL GARDENS PHASE I</u>	Non-Major	HUNTSVILLE	34.83543	-86.688628
110063216130	<u>ZAXBY'S RESTAURANT HAZEL GREEN</u>	Non-Major	HAZEL GREEN	34.944444	-86.571944
110063216014	<u>SYCAMORE BEND</u>	Non-Major	HUNTSVILLE	34.786467	-86.702947
110017710618	<u>GRANT QUARRY</u>	Non-Major	GRANT	34.465278	-86.355
110010072376	<u>SWAN CREEK COMMUNITY</u>	Non-Major	TANNER	34.696803	-86.944755
110043740912	<u>CAMBRIDGE SUBDIVISION, PHASE III</u>	Non-Major	MADISON	34.7075	-86.796667
110062648121	<u>HIGHWAY 72 ROAD IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.753994	-86.71086
110062647729	<u>CINEPLANET15</u>	Non-Major	MADISON	34.75723	-86.741014
110063216069	<u>O'REILLY AUTO PARTS - HARVEST, AL</u>	Non-Major	HARVEST	34.844	-86.7107
110010075239	<u>NEW HOPE LAGOON</u>	Non-Major	NEW HOPE	34.530056	-86.388639
110062651660	<u>NEW CENTER PIT</u>	Non-Major	HARTSELLE	34.477833	-86.854733
110062648283	<u>HOLLADAY ROAD WATER LINE EXTENSION</u>	Non-Major	CAPSHAW	34.750278	-86.815278
110062648274	<u>FMC TRANQUILITY</u>	Non-Major	HUNTSVILLE	34.856617	-86.572208
110062649736	<u>THE CROSSINGS</u>	Non-Major	MADISON	34.747222	-86.786389
110062649353	<u>LAKE 5, RESEARCH PARK</u>	Non-Major	HUNTSVILLE	34.706997	-86.680889
110062651624	<u>GUM POND WATER LINE UPGRADES</u>	Non-Major	EVA	34.320833	-86.847153
110062653329	<u>NATURES TRAIL</u>	Non-Major	MADISON	34.71468	-86.8178

Registry ID	Name	Type	City	Latitude	Longitude
110045490367	<u>MILLSTONE SUBDIVISION, PHASES II-IV AND VI</u>	Non-Major	MADISON	34.701111	-86.769167
110010075550	<u>FALKVILLE HCR LAGOON</u>	Non-Major	FALKVILLE	34.364667	-86.926806
110043762318	<u>RIVER RIDGE PHASE 4</u>	Non-Major	OWENS CROSS ROADS	34.59917	-86.48194
110043762470	<u>SLATON PIT</u>	Non-Major	TRINITY	34.591	-87.138
110043741387	<u>ASHTYNN MANOR PHASE V</u>	Non-Major	HUNTSVILLE	34.610569	-86.587069
110043732342	<u>OUTPARCEL 10</u>	Non-Major	HUNTSVILLE	34.6775	-86.55021
110062653677	<u>GRISSOM HIGH SCHOOL</u>	Non-Major	HUNTSVILLE	34.641356	-86.573783
110042372090	<u>HIGHWAY 72 BORROW SOURCE</u>	Non-Major	ATHENS	34.7908	-87.028119
110045481803	<u>BELL GROVE MANOR AND CEDAR PARK AT BELL GROVE</u>	Non-Major	HUNTSVILLE	34.60619	-86.57908
110043739176	<u>CROSS CREEK SUBDIVISION</u>	Non-Major	MADISON	34.763333	-86.767167
110020524823	<u>JET PEP NUMBER 538</u>	Non-Major	HUNTSVILLE	34.740667	-86.595453
110044260448	<u>SAVANNAH</u>	Non-Major	MADISON	34.60148	-86.75388
110010109024	<u>KNIGHT LUMBER CO</u>	Non-Major	ATHENS	34.830556	-86.965556
110014325079	<u>D AND D ENGINES INC</u>	Non-Major	HAZEL GREEN	34.902	-86.59
110010073446	<u>HARVEST SCHOOL</u>	Non-Major	HARVEST	34.847333	-86.749028
110020071045	<u>MADISON CO PW GRIMWOOD RD BRDG</u>	Non-Major	MERIDIANVILL E	34.901944	-86.5825
110010104608	<u>FED EX NATIONAL LTL DECATUR</u>	Non-Major	DECATUR	34.616667	-87.071667
110056119221	<u>WATER LINE RELOCATION - INTERCHANGE OF I-565 AT COUNTY LINE ROAD</u>	Non-Major	MADISON	34.6625	-86.786944
110057191373	<u>FIELDS ROAD BORROW PIT</u>	Non-Major	LACEYS SPRING	34.560733	-86.588188
110055217304	<u>LOTS IN THE VILLAGE OF PROVIDENCE</u>	Non-Major	HUNTSVILLE	34.7585	-86.6905
110055360041	<u>US 31 SIDEWALKS AND STREETScape</u>	Non-Major	ATHENS	34.796111	-86.948889
110055360087	<u>CHANEY THOMPSON PARK - PARK 1</u>	Non-Major	HUNTSVILLE	34.599393	-86.549647
110056124698	<u>BRF-0020(508) PS1422</u>	Non-Major	HILLSBORO	34.649167	-87.212778
110012228847	<u>PRATT AND WHITNEY AUTOMATION</u>	Non-Major	MADISON	34.636667	-86.850556
110010104396	<u>DOUBLE BUBBLE CAR WASH</u>	Non-Major	HARVEST	34.856944	-86.749444
110055359963	<u>THE LEDGES LOT 10</u>	Non-Major	HUNTSVILLE	34.664369	-86.512547
110055620421	<u>SHADOW BROOK</u>	Non-Major	HARVEST	34.844942	-86.737731
110020181514	<u>BERRYHILL ESTATES PHASE 3</u>	Non-Major	NEW MARKET	34.8371	-86.4734
110055621796	<u>BRIGHTON PARK PHASE 3</u>	Non-Major	MADISON	34.69598	-86.79831
110055217778	<u>THE COTTAGES AT INDIAN LAKE</u>	Non-Major	HUNTSVILLE	34.587	-86.5489
110036419783	<u>JOHNSON ELEMENTARY SCHOOL</u>	Non-Major	ATHENS	34.867957	-86.841669
110055246808	<u>BISHOP FARMS PHASES 3 AND 4</u>	Non-Major	HUNTSVILLE	34.778889	-86.695

Registry ID	Name	Type	City	Latitude	Longitude
110055217849	<u>WESTVIEW CHURCH EXPANSION</u>	Non-Major	ATHENS	34.789444	-87.000833
110013761303	<u>REID ELEM SCH</u>	Non-Major	ATHENS	34.75225	-87.036806
110010104154	<u>TANKERSLEYS CHEVRON</u>	Non-Major	HARTSELLE	34.449444	-86.903333
110015662184	<u>EDENSHIRE SUBDIVISION PHASE 1</u>	Non-Major	HUNTSVILLE	34.8304	-86.4882
110020073677	<u>47-SMITH-2 BORROW PIT</u>	Non-Major	OWENS CROSS ROADS	34.604861	-86.491472
110010073035	<u>HUNTSVILLE QUARRY</u>	Non-Major	HUNTSVILLE	34.7917	-86.6333
110010068675	<u>OWENS ELEMENTARY SCHOOL WWTP</u>	Non-Major	ATHENS	34.80127	-86.97225
110044262339	<u>TOON TRACT</u>	Non-Major	HUNTSVILLE	34.843983	-86.70585
110037932583	<u>FEDEX NATIONAL LTL INC DEC</u>	Non-Major	DECATUR	34.598333	-87.044167
110006790197	<u>COMPLETE AUTO RECYCLERS INC</u>	Non-Major	GURLEY	34.750525	-86.429108
110015628819	<u>H AND H GROCERY</u>	Non-Major	TONEY	34.941667	-86.757778
110043500725	<u>STILLWATER COVE PHASE I</u>	Non-Major	MADISON	34.702	-86.821
110054911459	<u>ROGER TIDMORE FARMS</u>	Non-Major	ARAB	34.348889	-86.484444
110059789910	<u>JEMISON/MCNAIR PROPERTY</u>	Non-Major	HUNTSVILLE	34.7877	-86.6163
110043496641	<u>FTA TRAMWAY EXPANSION</u>	Non-Major	HUNTSVILLE	34.7095	-86.6398
110043268040	<u>HURRICANE CREEK BORROW PIT</u>	Non-Major	GURLEY	34.77	-86.42
110055238862	<u>CREEKSIDE@HARDIMAN PLACE</u>	Non-Major	MADISON	34.69443	-86.79603
110055238924	<u>THE MEADOWS AT HAMPTON COVE</u>	Non-Major	OWENS CROSS ROADS	34.941617	-86.570333
110041258055	<u>MCDONALD BROTHERS CONSTRUCTION</u>	Non-Major		34.815	-86.749444
110055216163	<u>INDIAN CREEK TOWN HOMES</u>	Non-Major	HUNTSVILLE	34.7869	-86.715278
110055248165	<u>STPHV-4500 (029) GILLESPIE RD. EXT</u>	Non-Major	MADISON	34.728889	-86.785833
110055248183	<u>HUNTSVILLE-MADISON COUNTY CONSOLIDATED JUSTICE PROJECT</u>	Non-Major	HUNTSVILLE	34.7366	-86.597253
110055248227	<u>ANSLEE FARMS CONNECTOR ROAD</u>	Non-Major	HUNTSVILLE	34.796667	-86.671944
110055360531	<u>CREEKSIDE AT HARDIMAN PLACE LOTS 1, 3, 36-45, 47- 50, 52-54, 57-64</u>	Non-Major	MADISON	34.695841	-86.795942
110043276665	<u>WATERS SITE - NEEL</u>	Non-Major	HARTSELLE	34.46417	-87.054722
110055242508	<u>AUTOZONE STORE 4983</u>	Non-Major	OWENS CROSS ROADS	34.660833	-86.486111
110055620476	<u>WALKER HILL INTERMEDIATE SCHOOL</u>	Non-Major	NEW MARKET	34.905389	-86.527139
110057192318	<u>CANAAN MISSIONARY BAPTIST CHURCH</u>	Non-Major	HILLSBORO	34.648889	-87.185
110055248352	<u>TOWN HALL</u>	Non-Major	OWENS CROSS ROADS	34.5838	-86.4506
110055214478	<u>KELLY COVE</u>	Non-Major	HARVEST	34.829444	-86.709167
110054911191	<u>LINDE EXPANSION</u>	Non-Major	DECATUR	34.63035	-87.011783

Registry ID	Name	Type	City	Latitude	Longitude
110055622018	<u>MCDONALD'S RESTAURANT</u>	Non-Major	MERIDIANVILLE	34.851	-86.5719
110057196092	<u>BROWNS CROSSING SUBDIVISION LOTS</u>	Non-Major	ATHENS	34.76675	-86.8852
110057196118	<u>OAKWOOD @ LAKE FOREST PHASE II</u>	Non-Major	MADISON	34.64398	-86.72456
110055361674	<u>CR 24 HUNTSVILLE BROWNS FERRY ROAD</u>	Non-Major	MADISON	34.728611	-86.854167
110043498391	<u>MADISON EXPANSION PHASE II</u>	Non-Major	MADISON	34.7289	-86.7988
110043496393	<u>DEER TRAIL</u>	Non-Major	ATHENS	34.812753	-86.995225
110043493403	<u>OLDE HERITAGE</u>	Non-Major	MADISON	34.721944	-86.818556
110043505374	<u>MELLOW MUSHROOM</u>	Non-Major	HUNTSVILLE	34.67278	-86.53444
110043505365	<u>JETPLEX INDUSTRIAL PARK NORTH ACCESS ROAD</u>	Non-Major	MADISON	34.66241	-86.76972
110043492949	<u>NHF-0001 (537)</u>	Non-Major	HUNTSVILLE	34.7508	-86.5978
110043506934	<u>GBT REALTY CORP MADISON CORNER</u>	Non-Major	HUNTSVILLE	34.7478	-86.7647
110043506907	<u>HARTSELLE HIGH SCHOOL</u>	Non-Major	HARTSELLE	34.453353	-86.920408
110058927309	<u>GOOSE CREEK SEWER FORCEMAIN</u>	Non-Major	HUNTSVILLE	34.619435	-86.456823
110043504801	<u>LYNN HOLLODAY SITE #2</u>	Non-Major	ATHENS	34.750942	-86.818914
110055361175	<u>SEVERE WEATHER INSTITUTE & RADAR LIGHTENING LABORATORIES</u>	Non-Major	HUNTSVILLE	34.726014	-86.64653
110043491049	<u>ALDOT HSIP 0099 504 PS1159</u>	Non-Major	ATHENS	34.8225	-87.006106
110043490932	<u>FARLEY FARM DEV INC SD</u>	Non-Major	HUNTSVILLE	34.603	-86.5686
110056124974	<u>IT- TRI - COOPERAGE WAY</u>	Non-Major	TRINITY	34.614167	-87.114444
110043495107	<u>SOCCER FIELD/FOOTBALL FIELD-REDSTONE ARSENAL</u>	Non-Major	REDSTONE ARSENAL	34.6546	-86.67
110020738772	<u>ATHENS SPORTSPLEX</u>	Non-Major	ATHENS	34.813333	-86.941944
110043489837	<u>EB-0053 (509) PS 461</u>	Non-Major	HUNTSVILLE	34.7988	-86.6734
110043489784	<u>ANDOVER</u>	Non-Major	MADISON	34.77028	-86.73405
110043501564	<u>STERRS HOMES ADDITIONS, PROJECT 48-5</u>	Non-Major	DECATUR	34.615833	-87.0075
110043501993	<u>MOUNTAIN COVE</u>	Non-Major	TRINITY	34.605372	-87.092997
110043496794	<u>LAUDERDALE CO HIGH SCHOOL CLASSROOM BUILDING</u>	Non-Major	ROGERSVILLE	34.827	-87.2907
110043496758	<u>NASA MSFC BUILDING 4602</u>	Non-Major	HUNTSVILLE	34.6446	-86.6765
110043493136	<u>TURNER WOODALL ROAD PIT</u>	Non-Major	DECATUR	34.599867	-87.052583
110043505427	<u>GILLESPIE PLACE SUBDIVISION</u>	Non-Major	MADISON	34.72889	-86.76333
110043507470	<u>GOSS ROAD WATER LINE</u>	Non-Major	HUNTSVILLE	34.6984	-86.6584
110043502849	<u>ADDISON PARK APARTMENTS</u>	Non-Major	HUNTSVILLE	34.7734	-86.6732
110055360096	<u>LIMESTONE COUNTY CORRECTIONAL FACILITY FORCE MAIN</u>	Non-Major	ATHENS	34.802778	-86.813611
110043489622	<u>PAYTON PLACE SUBDIVISION</u>	Non-Major	ATHENS	34.765	-86.7916

Registry ID	Name	Type	City	Latitude	Longitude
110043489579	<u>IM-I565(308) PS1101</u>	Non-Major	MOORESVILLE	34.6432	-86.8377
110043507345	<u>AMC/USASAC HEADQUARTERS</u>	Non-Major	HUNTSVILLE	34.6474	-86.6595
110043507318	<u>WATER LINE TO SWEETWATER</u>	Non-Major	TANNER	34.6283	-86.9463
110042364358	<u>SEGARS & SEGARS FARM</u>	Non-Major	FALKVILLE	34.393333	-86.878056
110043500244	<u>INGALLS HARBOR PAVILION</u>	Non-Major	DECATUR	34.62278	-86.99472
110043494545	<u>CARRIAGE PARK SUBDIVISION</u>	Non-Major	ATHENS	34.737219	-86.880281
110055361380	<u>BROWN'S CROSSING AT FRENCH MILL</u>	Non-Major	ATHENS	34.7674	-86.8859
110055361433	<u>PINEY CREEK SUBDIVISION</u>	Non-Major	ATHENS	34.7722	-86.9172
110055481376	<u>BRIER FORK SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.823333	-86.4875
110043494457	<u>NATURE'S LANDING PHASE 3</u>	Non-Major	HUNTSVILLE	34.6652	-86.7386
110043494395	<u>HUDSON ALPHA BUILDING 3</u>	Non-Major	HUNTSVILLE	34.7272	-86.6916
110042359168	<u>PRICEVILLE BORROW SOURCE</u>	Non-Major	DECATUR	34.565833	-86.913611
110045515554	<u>N-S CONNECTOR ROAD</u>	Non-Major	MADISON	34.729167	-86.818333
110055479922	<u>H&E EQUIPMENT RENTAL</u>	Non-Major	MADISON	34.672796	-86.770341
110045514038	<u>GREENBRIER WOODS PHASE II</u>	Non-Major	MADISON	34.714372	-86.803931
110010109685	<u>DECATUR ASPHALT PLANT</u>	Non-Major	DECATUR	34.615833	-87.063194
110045478835	<u>BRIDGEWATER LANDING, PHASE I LOTS AND PHASE II</u>	Non-Major	HARVEST	34.783269	-86.785872
110045511353	<u>LOTS AT MCMULLEN COVE</u>	Non-Major	GURLEY	34.696862	-86.43339
110043759616	<u>COBBLESTONE SUBDIVISION</u>	Non-Major	DECATUR	34.524167	-86.885278
110055215930	<u>REDSTONE FEDERAL CREDIT UNION EAST ATHENS BRANCH</u>	Non-Major	ATHENS	34.779444	-86.921389
110000589346	<u>GEORGIA PACIFIC/SOUTHEAST WOOD</u>	Non-Major	ATHENS	34.843333	-86.9725
110059703423	<u>HARVARD ROAD EXTENSION/DOWNTOWN GATEWAY</u>	Non-Major	HUNTSVILLE	34.720044	-86.585356
110013742851	<u>HARTSELLE OIL COMPANY</u>	Non-Major	HARTSELLE	34.466389	-87.086389
110031104864	<u>BAMA CONCRETE PRODUCTS CO INC</u>	Non-Major	ATHENS	34.774167	-86.955
110021029279	<u>BRITTON OIL COMPANY INC</u>	Non-Major	OWENS CROSS ROADS	34.564722	-86.446667
110055222824	<u>GANDY PIT</u>	Non-Major	FALKVILLE	34.349722	-86.833611
110043739185	<u>SUMMERFIELD SUBDIVISION PHASE 5</u>	Non-Major	MADISON	34.795033	-86.726867
110043726938	<u>CYPRESS GARDENS AT LAKE FOREST</u>	Non-Major	HUNTSVILLE	34.643889	-86.732778
110010101567	<u>STRONGS SALVAGE YARD INC</u>	Non-Major	HUNTSVILLE	34.506944	-86.546389
110063221071	<u>JEFFERSON STREET STREETSCAPE</u>	Non-Major	HUNTSVILLE	34.73376	-86.58849
110055213184	<u>AMERICA'S HOME PLACE HOTEL</u>	Non-Major	BELLE MINA	34.629167	-86.875556
110062653472	<u>RIDEOUT ROAD ALDOT IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.705833	-86.671389
110046325099	<u>STONEGATE-PHASES II, III AND V</u>	Non-Major	MADISON	34.7844	-86.7424

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110058920878	GREG ABERCROMBIE FARM	Non-Major	VALHERMOSA SPRINGS	34.552778	-86.697222
110046286773	LAURENWOOD PRESERVE	Non-Major	MADISON	34.7728	-86.7792
110037932324	FEDEX FREIGHT, INC - DCU	Non-Major	MADISON	34.634444	-86.835
110060353781	THE BREAKERS	Non-Major	ATHENS	34.759722	-86.859167
110056996078	STRONG STATION	Non-Major	MADISON	34.759083	-86.726353
110058278607	COLONIAL POINTE	Non-Major	MERIDIANVILLE	34.870044	-86.578584
110055248281	NICK FITCHARD RD, NORTH OF PLUMMER	Non-Major	HUNTSVILLE	34.7755	-86.6698
110044258415	NATURE'S LANDING AT THE RESERVE	Non-Major	MADISON	34.66225	-86.735392
110056342060	CAPITAL PARK AT 72	Non-Major	HUNTSVILLE	34.752575	-86.7064
110056991288	ENVIRONMENTAL RD NEAR 8118	Non-Major	REDSTONE ARSENAL	34.576389	-86.650833
110056987854	RIVER BEND SUBDIVISION	Non-Major	HUNTSVILLE	34.7975	-86.484722
110058277797	RIDGEWOOD MEADOWS PHASE II SUBDIVISION LOTS	Non-Major	HAZEL GREEN	34.92526	-86.59643
110060356314	AUDI HUNTSVILLE, HILEY AUTO GROUP	Non-Major	HUNTSVILLE	34.75363	-86.70808
110060361148	CABELA'S	Non-Major	HUNTSVILLE	34.7075	-86.681389
110064292242	JWEMC - JOE WHEELER ELECTRIC MEMBERSHIP CORP.	Non-Major	TRINITY	34.556389	-87.110833
110060361086	BURGREEN FARMS	Non-Major	MADISON	34.714409	-86.797186
110024813120	GOOD HOPE CONTRACTING CO INC - ASPHALT PLANT #6	Non-Major	CULLMAN	34.340833	-86.988333
110062726698	HILLSBORO FEED COMPANY, LLC	Non-Major	HILLSBORO	34.648611	-87.2075
110056341294	STPAA-HSIP-0146(500) PS1451	Non-Major	SCOTTSBORO	34.868056	-86.203056
110056119579	HERITAGE BROOK SUBDIVISION	Non-Major	MADISON	34.764887	-86.785751
110056119533	LAKESHORE MEADOWS @ INSPIRATIN POINTE SUBDIVISION PHASES III AND IV	Non-Major	MERIDIANVILLE	34.84793	-86.5835
110039171561	BAMA CONCRETE PROD CO INC	Non-Major	ATHENS	34.7522	-86.9644
110010381096	SHELBY CONTRACTING CO	Non-Major	TRINITY	34.621778	-87.079278
110060357849	MCMULLEN COVE	Non-Major	OWENS CROSS ROADS	34.703056	-86.427778
110060357732	SANITARY SEWER RELOCATION	Non-Major	HUNTSVILLE	34.736431	-86.595805
110043264151	BARRY DUNLAP AIRPORT ROAD PIT	Non-Major	LACEYS SPRING	34.54466	-86.604214
110044880064	FOREST RIDGE SUBDIVISION	Non-Major	HUNTSVILLE	34.801111	-86.7353
110060270120	GREEN PROJECT	Non-Major	WOODVILLE	34.66642	-86.235048
110060270111	DUNLAP BOULEVARD EXTENSION/RETAIL DEVELOPMENT	Non-Major	HUNTSVILLE	34.665441	-86.74033
110060269702	HILLTOP RIDGE SUBDIVISION	Non-Major	MADISON	34.73526	-86.7978

Registry ID	Name	Type	City	Latitude	Longitude
110060360005	RG 7200 EXPANSION	Non-Major	HUNTSVILLE	34.6946	-86.678889
110060269025	SRV JORDAN LANE	Non-Major	HUNTSVILLE	34.744331	-86.630744
110060267483	HUBERT BORROW PIT	Non-Major	HAZEL GREEN	34.95264	-86.57135
110043507023	I3MP COMMUNICATIONS UPGRADES, RSA-WIDE	Non-Major	REDSTONE ARSENAL	34.6767	-86.6721
110043494732	COBBLESTONE COVE PHASE 2	Non-Major	OWENS CROSS ROADS	34.685524	-86.438898
110013743057	GRANT WASTEWATER LAGOON	Non-Major	GRANT	34.542587	-86.260539
110032941921	WOODVILLE AUTO PARTS	Non-Major	WOODVILLE	34.612889	-86.227611
110043505604	COLONIAL PROMENADE HUNTSVILLE	Non-Major	HUNTSVILLE	34.7481	-86.7723
110043502359	MADISON CO COMM-DIST 6 SENIOR	Non-Major	HUNTSVILLE	34.804	-86.618
110028271457	HIDDEN VALLEY DAIRY FARM	Non-Major	MOULTON	34.3375	-87.073333
110010105206	OVERNITE TRANS DECATUR FAC	Non-Major	DECATUR	34.597501	-87.052081
110043507648	TIMBERLAKE DEVE SUBDIVISION OF	Non-Major	HUNTSVILLE	34.5876	-86.5781
110043498701	RESEARCH STATION	Non-Major	HUNTSVILLE	34.77157	-86.66759
110043495143	LENARD BRANUM	Non-Major	OWENS CROSS ROADS	34.6307	-86.4611
110043495081	STPAA-STPHV-0001 (531) PS1137	Non-Major	HUNTSVILLE	34.7055	-86.5222
110043507489	JASON BAILEY POULTRY FARM	Non-Major	ATHENS	34.75129	-87.1003
110043493877	ULA SECURITY ACCESS ROAD	Non-Major	DECATUR	34.6232	-87.0701
110043493840	ROBOTICS TECHNOLOGY PARK	Non-Major	TANNER	34.655556	-86.951111
110043493555	SSEA SUBSTATION 22	Non-Major	HUNTSVILLE	34.68	-86.67222
110043494867	ROTARY WING HANGER, REDSTONE ARSENAL	Non-Major	REDSTONE ARSENAL	34.681	-86.66817
110043494849	RENAISSANCE I AND II	Non-Major	HUNTSVILLE	34.6178	-86.5794
110043491405	TURNER HOOVER PIT	Non-Major	TRINITY	34.5812	-87.072117
110006652657	EVERGREEN TRANSP COURTLAND	Non-Major	COURTLAND	34.764167	-87.324722
110043502698	CALDERA RIDGE	Non-Major	ATHENS	34.753	-86.862
110043502661	LEGACY GROVE	Non-Major	ATHENS	34.744806	-86.869361
110043493751	BRIDGEWATER LANDING, PH I LOTS AND PH II	Non-Major	HARVEST	34.78181	-86.79075
110043493742	MAHAFFEY RECYCLING PONDS	Non-Major	MADISON	34.738722	-86.845664
110043493715	LIMESTONE CREEK SAND AND GRAVEL PIT	Non-Major	MADISON	34.737889	-86.843117
110043493644	AL HWY 255 WATER MAIN EXTENSION	Non-Major	HUNTSVILLE	34.7892	-86.6695
110043497347	CLIMATIC MULTI-CHAMBER TEST FACILITY	Non-Major	REDSTONE ARSENAL	34.5975	-86.6212
110043496160	ROTARY WINGS HEADQUARTERS, REDSTONE ARSENAL	Non-Major	HUNTSVILLE	34.6462	-86.6635

Registry ID	Name	Type	City	Latitude	Longitude
110043492574	BRADFORD CREEK GREENWAY	Non-Major	MADISON	34.7143	-86.7793
110043505196	ALABAMA A&M UNIVERSITY SERVICES BUILDING	Non-Major	HUNTSVILLE	34.7855	-86.5615
110025315193	IMPORT AUTO SALES	Non-Major	MADISON	34.748375	-86.788336
110039708288	BURWELL ROAD WWTP	Non-Major	HARVEST	34.833	-86.716611
110024380800	SAN ANN NO 65	Non-Major	ATHENS	34.803333	-86.952222
110010099767	C MART	Non-Major	LEXINGTON	34.896389	-87.384722
110056990886	MAGNOLIA INVESTMENTS OF ALABAMA INC D/B/A JACK DANIEL COOPERAGE	Non-Major	TRINITY	34.627433	-87.111783
110056342658	JIMMY SANDERS - BELLE MINA	Non-Major	BELLE MINA	34.655833	-86.881639
110056342328	GURLEY CONCRETE BATCH PLANT	Non-Major	GURLEY	34.713333	-86.4025
110001716199	ALABAMA FARMERS COOPERATIVE, INC.	Non-Major	DECATUR	34.612778	-86.972778
110009122270	COTACO SCHOOL WWTP	Non-Major	SOMERVILLE	34.48539	-86.69814
110010107543	KIRKPATRICK CONCRETE INCORPORATED	Non-Major	ARAB	34.3906	-86.5147
110007407172	HILL'S AUTO PARTS & SCRAP METAL	Non-Major	LACEYS SPRING	34.5303	-86.6241
110010105046	ALABAMA TRUCK LINES	Non-Major	MADISON	34.780278	-86.657222
110022420842	MARSHALL COUNTY CONCRETE INC	Non-Major	ARAB	34.38451	-86.51393
110007235571	LIMESTONE CORRECTIONAL	Non-Major	CAPSHAW	34.8052	-86.81
110010099295	NORTH ALABAMA LINE AND RELATED FACILITIES	Non-Major	TRIANA	34.553611	-86.763611
110010099302	NORTH ALABAMA LINE AND RELATED FACILITIES	Non-Major	TANNER	34.635	-86.891111
110020434975	MALLARD FOX WEST WWTP	Non-Major	TRINITY	34.631111	-87.109722
110013405083	SCHMIDT OIL PRODUCTS INC	Non-Major	DECATUR	34.591111	-86.9725
110064258529	PILGRIMS PRIDE CORPORATION	Non-Major	FALKVILLE	34.384444	-86.910278
110007032460	T.J. MOSS LUMBER COMPANY	Non-Major	ROGERSVILLE	34.826522	-87.301725
110010070430	HAZEL GREEN WWTP	Non-Major	HAZEL GREEN	34.948889	-86.55075
110031104953	WEST FORK WWTP	Non-Major	HAZEL GREEN	34.95603	-86.5704
110006549422	VULCAN MATERIALS - TRINITY QUARRY	Non-Major	TRINITY	34.625694	-87.086556
110056118525	INTERCHANGE LANDSCAPING PROJECT STPTE TE10(901)	Non-Major	HARTSELLE	34.447003	-86.923744
110059797144	TURNER HOOVER SITE	Non-Major	TRINITY	34.582336	-87.070891
110056994864	HARMON SCRAP METAL - HAZEL GREEN	Non-Major	HAZEL GREEN	34.964506	-86.569907
110056996087	GRAPHICS DRIVE IAR	Non-Major	MADISON	34.670272	-86.7521
110059704191	GLASSCOCK FARMS	Non-Major	HARTSELLE	34.411111	-87.051111
110063017239	JEFF ROAD RESIDENTIAL DEVELOPMENT	Non-Major	HUNTSVILLE	34.7905	-86.71393
110056398492	RSA BLDG 6260 PARKING LOT	Non-Major	REDSTONE ARSENAL	34.663527	-86.690563
110055213193	COLDWATER CREEK PHASE 3	Non-Major	HAZEL GREEN	34.971944	-86.599167

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110059797304	HAMPTON RIDGE, PHASE VI	Non-Major	BIG COVE	34.651414	-86.501767
110056400078	MCDONALD'S - COUNTY LINE ROAD	Non-Major	MADISON	34.701667	-86.786667
110063017257	LINDSAY LANE WIDENING	Non-Major	ATHENS	34.811944	-86.93
110055360167	WILHITE ROAD RR BRIDGE	Non-Major	FALKVILLE	34.31	-86.893333
110056121888	BEADLE LANE SANITARY SEWER EXTENSION	Non-Major	HUNTSVILLE	34.621916	-86.756537
110056400103	NH-HSIP-0001 (580) PS1469	Non-Major	BIG COVE	34.61	-86.455278
110056400121	BUILDINGS 8115, 8116, 8117, & 8122	Non-Major	REDSTONE ARSENAL	34.581944	-86.649167
110056400201	CAVE SPRINGS COVE II	Non-Major	DECATUR	34.532275	-86.872886
110055222897	CRYSTAL SPRINGS BORROW PIT	Non-Major	MADISON	34.81382	-86.72975
110059802307	HHA WORKFORCE HOUSING APTS. ON SR225	Non-Major	HUNTSVILLE	34.788889	-86.670556
110059699278	STONE BROOK SUBDIVISION	Non-Major	MADISON	34.68641	-86.80697
110059699205	MITCHELL CROSSING	Non-Major	DECATUR	34.591683	-87.03045
110059700952	WILD PLUM PLACE, LOTS 2, 10, 16, 18, 20, 22-23, 25-28	Non-Major	HARTSELLE	34.433517	-86.964167
110055360461	NATURE'S TRAIL	Non-Major	HAMPTON COVE	34.6749	-86.48039
110055360522	BUILDING 7804 SECURE LAB FACILITY	Non-Major	REDSTONE ARSENAL	34.58958	-86.63096
110055213512	BAKERS FARM	Non-Major	MADISON	34.72164	-86.79641
110059782329	HALSEY MEDICAL BUILDING	Non-Major	MADISON	34.69194	-86.73747
110055226946	REDSTONE ARSENAL BORROW PIT #5	Non-Major	REDSTONE ARSENAL	34.659444	-86.628056
110054100968	HOSPITAL PARK, LOT 2(PREVIOUSLY HOSPITAL PARK LOT 3)	Non-Major	MADISON	34.750025	-86.7604
110063017774	COMMUNICATION LINE INSTALL - AT&T PROJECT #9391520	Non-Major	DANVILLE	34.41427	-87.091677
110055361120	TVA DECATUR-GUNTERSVILLE TRANSMISSION LINE 161KV RECONDUCTOR	Non-Major	DECATUR	34.59835	-86.95885
110055217242	PARKHILL SUBDIVISION	Non-Major	MADISON	34.7685	-86.7859
110059700122	LUCY'S BRANCH	Non-Major	ATHENS	34.776075	-87.238564
110055360906	NEW PRICEVILLE HIGH SCHOOL	Non-Major	DECATUR	34.550833	-86.894167
110059781749	SHOPS AT MERCHANTS WALK	Non-Major	HUNTSVILLE	34.711275	-86.588864
110043759714	DAVITA SITE	Non-Major	ATHENS	34.792921	-87.000003
110059706796	MOORES CROSSING SUBDIVISION	Non-Major	MADISON	34.70627	-86.81561
110059781614	COMMUNICATION LINE INSTALL - AT&T PROJECT #9358970	Non-Major	NEW HOPE	34.49801	-86.39846
110055361326	PHASE 1 HIGHLAND VILLAGE	Non-Major	ATHENS	34.759	-87.1626

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110059797073	<u>COMMUNICATION LINE INSTALL - AT&T PROJECT #9298283</u>	Non-Major	ARDMORE	34.991941	-86.849887
110059791088	<u>RAY VEST FARM</u>	Non-Major	HARTSELLE	34.4125	-87.034722
110054110001	<u>HOSPITAL PARK LOT 1</u>	Non-Major	MADISON	34.750025	-86.7604
110055361781	<u>SE AREA WATER IMPROVEMENTS</u>	Non-Major	ATHENS	34.7664	-86.8928
110055361941	<u>MERIDIANVILLE SEWER-BERMUDA TO SHELLBORNE</u>	Non-Major	MERIDIANVILLE	34.836389	-86.459167
110056120692	<u>WATERFORD FARM APARTMENTS</u>	Non-Major	ARAB	34.314667	-86.505028
110056341374	<u>FRENCH FARMS BRIDGE REPLACEMENT</u>	Non-Major	ATHENS	34.786111	-86.960556
110056341506	<u>2012 SOUTHWEST SERVICE ZONE WATER LINE REPLACEMENT</u>	Non-Major	ATHENS	34.791944	-87.160556
110056341524	<u>BUILDING 4612 DEMOLITION</u>	Non-Major	HUNTSVILLE	34.646661	-86.672178
110056341640	<u>BERMUDA LAKES PHASES I & II INDIVIDUAL LOTS</u>	Non-Major	MERIDIANVILLE	34.88762	-86.51785
110056341686	<u>BUILDING 6272</u>	Non-Major	REDSTONE ARSENAL	34.663333	-86.690556
110055217518	<u>CVS-DRUG STORE</u>	Non-Major	MERIDIANVILLE	34.874722	-86.571667
110055217572	<u>BELMONT FARMS SD PH II</u>	Non-Major	HARVEST	34.8565	-86.712
110055479593	<u>TWIN RIVERS SUBDIVISION LOTS 2-18,20-40,47,48,65-68,70-73</u>	Non-Major	HAZEL GREEN	34.9397	-86.5633
110058277813	<u>BUILDING CHURCH, SLAUGHTER ROAD</u>	Non-Major	MADISON	34.720556	-86.706389
110055479708	<u>INSPIRATION POINTE PHASE 4</u>	Non-Major	MERIDIANVILLE	34.842639	-86.573639
110058923189	<u>MULLINS BEND</u>	Non-Major	MERIDIANVILLE	34.87971	-86.51804
110056342113	<u>LAKE FOREST</u>	Non-Major	HUNTSVILLE	34.647814	-86.730708
110055480046	<u>EASTSIDE JUNCTION II</u>	Non-Major	ATHENS	34.781714	-86.929097
110055480082	<u>GREEN STREET</u>	Non-Major	REDSTONE ARSENAL	34.652783	-86.6602
110059700934	<u>LAURENWOOD PRESERVE</u>	Non-Major	HUNTSVILLE	34.7727	-86.7793
110059701032	<u>WALMART STORE #6878-00, HAZEL GREEN, AL - 151 PROTO</u>	Non-Major	HAZEL GREEN	34.946781	-86.572711
110041911385	<u>LIMESTONE CO WSA BINFORD TURNER WTP</u>	Non-Major	TANNER	34.71632	-86.956295
110043756469	<u>PUBLIX #573 EXPANSION/HAMPTON COVE CENTER</u>	Non-Major	OWENS CROSS ROADS	34.657316	-86.482177
110054099809	<u>FLEET MANAGEMENT HEAVY DUTY FACILITY</u>	Non-Major	HUNTSVILLE	34.69	-86.600278

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110054115202	<u>BUILDINGS 5410 AND 5473</u>	Non-Major	REDSTONE ARSENAL	34.64184	-86.64672
110056119720	<u>CHRIST PRESBYTERIAN CHURCH</u>	Non-Major	OWENS CROSS ROADS	34.659389	-86.477111
110054906857	<u>GOOCH LANE SHOULDER WIDENING</u>	Non-Major	HUNTSVILLE	34.745833	-86.753611
110054908196	<u>TRANSITE WATER MAIN REPLACEMENT, BUILDING 5250</u>	Non-Major	REDSTONE ARSENAL	34.647613	-86.639479
110042358105	<u>BALD RIVER DEVE LOCKEHURST SUB</u>	Non-Major	HARVEST	34.8083	-86.7603
110000368049	<u>CONTINENTAL AUTOMOTIVE SYSTEMS US INC</u>	Non-Major	HUNTSVILLE	34.64027	-86.75597
110015628695	<u>ROCK N ROLLER ENTERTAINMENT</u>	Non-Major	MADISON	34.696667	-86.744444
110024878596	<u>PINE GROVE GROCERY</u>	Non-Major	MADISON	34.79508	-86.749163
110009121958	<u>JOE WHEELER STATE PARK AND ROGERSVILLE LAGOON</u>	Non-Major	ROGERSVILLE	34.804972	-87.330667
110006653601	<u>SPENCER COMPANIES INC THE</u>	Non-Major	HUNTSVILLE	34.73901	-86.59538
110015628999	<u>WHITEBURG EST 10TH ADDITION</u>	Non-Major	HUNTSVILLE	34.630528	-86.576667
110010068648	<u>SOUTH PARKWAY WTP</u>	Non-Major	HUNTSVILLE	34.58428	-86.56397
110014395715	<u>FARM SUBDIVISION THE</u>	Non-Major	AUSTINVILLE	34.533889	-86.983056
110006652737	<u>JORDAN LANE AUTO AND TRUCK SAL</u>	Non-Major	HUNTSVILLE	34.7818	-86.65953
110030773143	<u>CREWS INC</u>	Non-Major	ATHENS	34.819406	-86.967239
110000367567	<u>3M COMPANY</u>	Non-Major	DECATUR	34.641667	-87.038611
110020408913	<u>PONDEROSA SUBDIVISION</u>	Non-Major	MONROVIA	34.796667	-86.720556
110022281993	<u>KENNEDY DIRT PIT</u>	Non-Major	MADISON	34.747556	-86.770333
110020402303	<u>GOLD CROWN ESTATES</u>	Non-Major	HARTSELLE	34.458333	-86.958333
110020129859	<u>GENESIS SUBDIVISION</u>	Non-Major	MERIDIANVILL E	34.785	-86.500278
110020382646	<u>HONEYSUCKLE RIDGE</u>	Non-Major	LIMESTONE COUNTY	34.777222	-87.156667
110020402642	<u>WALDEN SUBDIVISION</u>	Non-Major	MADISON	34.717778	-86.774167
110020400537	<u>BELLE GROVE ESTATES</u>	Non-Major	MADISON	34.6857	-86.74931
110042366748	<u>UNITED LAUNCH ALLIANCE</u>	Non-Major	TRINITY	34.6304	-87.0785
110042363956	<u>STONERIDGE HOMES INC</u>	Non-Major	MADISON	34.7844	-86.7424
110042370911	<u>JOEL HOLMES H H SAVINGS LLC</u>	Non-Major	EVA	34.314655	-86.781542
110042357446	<u>SECOND CREEK LLC DG</u>	Non-Major	HUNTSVILLE	34.7298	-86.58401
110043501788	<u>LYNN HOLLODAY SITE</u>	Non-Major	ATHENS	34.75683	-86.80854
110043494796	<u>HARVEST SPRINGS YARBROUGH FARM</u>	Non-Major	MADISON	34.83348	-86.78525
110043727009	<u>THE POWER CENTER AT BRIDGE STREET TOWN CENTRE</u>	Non-Major	HUNTSVILLE	34.719167	-86.676111

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110043754844	<u>RACE TRAC</u>	Non-Major	DECATUR	34.619351	-87.031553
110044877595	<u>INDIVIDUAL LOTS IN LAKE FOREST</u>	Non-Major	HUNTSVILLE	34.647706	-86.730755
110045476784	<u>FRENCH FARMS II</u>	Non-Major	ATHENS	34.78695	-86.960778
110045481698	<u>MARTIN RD AT REDSTONE ARSENAL WIDENING AND IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.645389	-86.713373
110046314083	<u>YARBROUGH FARMS SUBDIVISION</u>	Non-Major	MADISON	34.83348	-86.78525
110046320655	<u>BUCKEYE BEND</u>	Non-Major	MERIDIANVILL E	34.886111	-86.518056
110046298458	<u>SPRINGHILL SUITES</u>	Non-Major	HUNTSVILLE	34.72553	-86.59332
110055359972	<u>GREENWAY PARK SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.619661	-86.542836
110055217554	<u>FUTURE FACILITY SITE</u>	Non-Major	SOMERVILLE	34.44542	-86.78386
110055213415	<u>CUMMINGS RESEARCH PARK WEST</u>	Non-Major	HUNTSVILLE	34.7281	-86.6979
110060356289	<u>MAPCO - HOMER NANCE</u>	Non-Major	HUNTSVILLE	34.817778	-86.491667
110063221222	<u>SHADOW BROOK PHASE 3</u>	Non-Major	HARVEST	34.845556	-86.745
110044265201	<u>LIMESTONE CREEK APARTMENTS</u>	Non-Major	MOORESVILLE	34.632778	-86.875556
110043489668	<u>THE GROVE AT HUDSON ALPHA</u>	Non-Major	HUNTSVILLE	34.7272	-86.6907
110020434243	<u>READY MIX USA LLC</u>	Non-Major	HUNTSVILLE	34.671886	-86.5905
110020395534	<u>COUNTRY HEARTH INN</u>	Non-Major	HARTSELLE	34.448194	-86.902139
110045476622	<u>LANIER LAKES SUBDIVISION</u>	Non-Major	MADISON	34.779722	-86.738889
110059699198	<u>NASA TEST STANDS 4693 & 4697 (MARSHALL SPACE FLIGHT CENTER)</u>	Non-Major	HUNTSVILLE	34.632247	-86.671194
110017435211	<u>DELPHI SAGINAW STEERING SYSTEMS</u>	Non-Major	ATHENS	34.647839	-86.953079
110020180267	<u>MONTE SANO FARMS</u>	Non-Major	HUNTSVILLE	34.751667	-86.485278
110059794496	<u>HOBBS ISLAND PROPERTY</u>	Non-Major	HUNTSVILLE	34.572388	-86.549087
110045475419	<u>FIRST BAPTIST CHURCH EXPANSION</u>	Non-Major	HUNTSVILLE	34.72	-86.58787
110014395305	<u>NCB INCORPORATION HWY 36 SITE</u>	Non-Major	HARTSELLE	34.445278	-86.9025
110043727198	<u>OAK BLUFF PHASE 1</u>	Non-Major	HUNTSVILLE	34.585	-86.53111
110009004969	<u>BURDEN-CHILDERS FARMS, INC</u>	Non-Major	UNION GROVE	34.397778	-86.6
110046320600	<u>MADISON MEDICAL BUILDING</u>	Non-Major	MADISON	34.74967	-86.76282
110020188385	<u>ISELL BORROW PIT</u>	Non-Major	HUNTSVILLE	34.803333	-86.531667
110042372081	<u>MORTGAGE INVESTMENT WOODRIDGE 3</u>	Non-Major	HARVEST	34.8222	-86.7628
110000589328	<u>NUCOR STEEL DECATUR LLC</u>	Non-Major	TRINITY	34.638906	-87.089036
110006788789	<u>M AND W AUTO PARTS</u>	Non-Major	ATHENS	34.702445	-87.072479
110054907213	<u>AVALON APARTMENTS AT WARE PARK</u>	Non-Major	MADISON	34.64797	-86.73704
110042373696	<u>WEST HOBBS ST CHURCH OF CHRI</u>	Non-Major	ATHENS	34.805238	-86.991202
110014451360	<u>MS4 PHASE II</u>	Non-Major	DECATUR	34.606318	-86.979957

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110015328377	TORAY FLUOROFIBERS (AMERICA) INC	Non-Major	DECATUR	34.6298	-87.0249
110056341828	MCDONALD'S RESTAURANT - DECATUR	Non-Major	DECATUR	34.57192	-87.01381
110054125521	CAS-WYLE OFFICE FACILITY	Non-Major	HUNTSVILLE	34.71557	-86.68707
110020178243	CHASE FARMS AT GREENBRIER	Non-Major	LIMESTONE COUNTY	34.633028	-86.836056
110000604908	CHORE-TIME CAGE SYSTEMS INC	Non-Major	DECATUR	34.50227	-86.87362
110020073588	IKARD SEPTIC MANUFACTURING AND SALES	Non-Major	HARVEST	34.838156	-86.706128
110020070910	CASCADE CREEK SUBDIVISION	Non-Major	NEWSOME SINKS	34.401194	-86.617694
110020182201	SPARKMAN 9TH GRADE SCHOOL	Non-Major	HARVEST	34.838	-86.714194
110020429419	NORTH RIDGE SUBDIVISION	Non-Major	HARVEST	34.837778	-86.737778
110009123732	LEXINGTON LAGOON AND SPRAYFIELD	Non-Major	LEXINGTON	34.9625	-87.3506
110055990888	HUNTERS CROSSING WWTP	Non-Major	MADISON	34.778563	-86.753217
110006791622	PORT AUTHORITY DITTO LANDING	Non-Major	HUNTSVILLE	34.574167	-86.561944
110020837576	PELA GEOENVIRONMENTAL INC	Non-Major	ATHENS	34.835083	-86.831111
110043039280	B AND K GROCERY	Non-Major	ATHENS	34.748889	-87.038889
110020131454	FORREST ST HWY 31 INTERSECTION	Non-Major	ATHENS	34.796333	-86.951639
110020401849	SUSSEX QUARTER 11TH ADDITION	Non-Major	HAMPTON COVE	34.686944	-86.45525
110020831634	SEVEN PINES SUBDIVISION	Non-Major	CAPSHAW	34.773611	-86.836667
110020130099	DECATUR GEN AMBULATORY CENTER	Non-Major	DECATUR	34.5909	-86.97195
110020184520	HILTON HOTEL HUNTSVILLE	Non-Major	HUNTSVILLE	34.725278	-86.589167
110020181907	FOX RIDGE III	Non-Major	MADISON COUNTY	34.937778	-86.701111
110020529613	ASHLEY ACRES PHASE 3	Non-Major	MERIDIANVILL E	34.844722	-86.535833
110020129617	COVE ESTATES SUBDIVISION	Non-Major	OWENS CROSS ROADS	34.671278	-86.494972
110020544794	WEST PARK FOOTBALL FIELD	Non-Major	MORGAN COUNTY	34.4575	-87.058056
110020129957	HARRIS STATION ROAD	Non-Major	LIMESTONE COUNTY	34.650139	-86.96675
110043497659	REDSTONE GATEWAY	Non-Major	HUNTSVILLE	34.698694	-86.671667
110042365838	SUPERIOR BANK FEDERAL HUNTSVIL	Non-Major	MADISON	34.755	-86.7375
110043275247	GANDY SITE - FALKVILLE	Non-Major	FALKVILLE	34.34962	-86.83223
110043737132	JEFF ROAD WIDENING	Non-Major	HUNTSVILLE	34.756667	-86.71
110043730530	PEBBLE CREEK AT RIVER LANDING	Non-Major	HUNTSVILLE	34.6128	-86.7453

Registry ID	Name	Type	City	Latitude	Longitude
110043739096	DIGNEY ROAD REALIGNMENT	Non-Major	HUNTSVILLE	34.652633	-86.656967
110045481812	BRISTOL CREEK PHASE I, II, AND III	Non-Major	HAMPTON COVE	34.568426	-86.447439
110055180165	FITCHEARD BORROW PIT	Non-Major	HUNTSVILLE	34.793469	-86.658667
110055217224	KELLY COVE PHASE I	Non-Major	HARVEST	34.8264	-86.7134
110055479682	DARLINGTON SUBDIVISION VARIOUS LOTS	Non-Major	MADISON	34.772798	-86.766596
110042983750	CHASE PARK CHURCH OF CHRIST	Non-Major	HUNTSVILLE	34.808763	-86.512961
110062654337	PAYSINGER POULTRY FARM	Non-Major	ELKMONT	34.913814	-86.892295
110063220955	SOFTBALL FIELD #2, BUILDING 4315	Non-Major	REDSTONE ARSENAL	34.655692	-86.67001
110057196109	PEBBLE CREEK PHASE III	Non-Major	MADISON	34.61152	-86.74399
110003025681	UNITED PARCEL SERVICE, INC	Non-Major	HUNTSVILLE	34.79283	-86.57637
110057199133	MORGAN CITY CHURCH OF GOD	Non-Major	UNION GROVE	34.473197	-86.57503
110020061181	OLYMPIA GARDENS	Non-Major	HUNTSVILLE	34.769694	-86.571972
110054106230	WEST LACON RD. BRIDGE	Non-Major	FALKVILLE	34.330556	-86.914444
110045505440	WEST HAVEN SUBDIVISION, PHASE 1	Non-Major	MADISON	34.742917	-86.806422
110006790464	LOADER SERVICES AND EQUIP INC	Non-Major	HUNTSVILLE	34.70221	-86.68818
110020178298	PUBLIC WORKS OFFICE BUILDING	Non-Major	HUNTSVILLE	34.792139	-86.518472
110020831545	JELD WEN INCORPORATION	Non-Major	HARTSELLE	34.418444	-86.918444
110020538186	WYNWOOD AT BEVERLYS PLACE	Non-Major	CAPSHAW	34.804167	-86.775833
110042366686	EDWARD ROSE DEV CO LLC	Non-Major	MADISON	34.6318	-86.8696
110006549459	VULCAN CONSTRUCTION MATERIALS, LP-LACON QUARRY	Non-Major	FALKVILLE	34.338312	-86.898329
110056118589	SANCTUARY COVE PHASE III S/D LOTS	Non-Major	OWENS CROSS ROADS	34.63077	-86.49208
110043490246	BIG COVE ELEMENTARY SCHOOL	Non-Major	HUNTSVILLE	34.6241	-86.4916
110010073543	DANVILLE HIGH SCHOOL WWTP	Non-Major	DANVILLE	34.417611	-87.094944
110020131105	TIFFANY POINTE PHASE 2 AND 3	Non-Major	HUNTSVILLE	34.74502	-86.64993
110042366588	JOHN & THERESE SANFORD	Non-Major	DANVILLE	34.378073	-87.120678
110009040402	TENNESSEE VALLEY AUTO PARTS	Non-Major	HAZEL GREEN	34.9675	-86.568056
110000589293	NICHOLS ALUMINUM ALABAMA INC	Non-Major	DECATUR	34.6169	-87.0176
110020126291	ADOT NHF 8510 008	Non-Major	MERIDIANVILL E	34.753333	-86.595556
110062652071	CAR WASH EXPRESS 4	Non-Major	DECATUR	34.559611	-86.993889
110020538444	DEERE ROAD SELF STORAGE	Non-Major	MORGAN COUNTY	34.54173	-86.912
110020526750	MONROVIA COMMUNITY CENTER	Non-Major	MONROVIA	34.780722	-86.715139

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110020839253	<u>THORNGATE</u>	Non-Major	MADISON	34.72	-86.709167
110042871997	<u>VALLEY STEEL CONSTRUCTION INC</u>	Non-Major	DECATUR	34.61907	-87.00648
110046322699	<u>NUCLEAR PLANT ROAD</u>	Non-Major	TANNER	34.716667	-86.956389
110020542956	<u>DECATUR PRESBYTERIAN CHURCH</u>	Non-Major	MORGAN COUNTY	34.562611	-87.024278
110062653481	<u>GOVERNORS WEST GREENWAY PROJECT</u>	Non-Major	HUNTSVILLE	34.706111	-86.678056
110020181685	<u>COTACO CREEK CROSSING</u>	Non-Major	SOMERVILLE	34.507222	-86.708333
110055167171	<u>INSPIRATION POINTE AND LAKESHORE MEADOWS AT INSPIRATION POINTE LOTS</u>	Non-Major	MERIDIANVILL E	34.84323	-86.57363
110058278386	<u>NH-HSIP-0002(562) PS1505</u>	Non-Major	HUNTSVILLE	34.773056	-86.5275
110043753211	<u>MILLSTONE SUBDIVISION PHASE 3 & 4</u>	Non-Major	MADISON	34.706803	-86.76655
110038520053	<u>WOODALL GROCERY</u>	Non-Major	WOODVILLE	34.851283	-86.103056
110055622063	<u>WINCHESTER ROAD BRIDGE AT FLINT CREEK AIR CARGO RAMP EXPANSION PHASE 4/HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.822778	-86.483056
110054132023	<u>INTERNATIONAL AIRPORT</u>	Non-Major	HUNTSVILLE	34.640846	-86.759311
110056343103	<u>HARMON SCRAP METAL - ATHENS</u>	Non-Major	ATHENS	34.768333	-86.890278
110042359444	<u>AMERICAN LEAKLESS COMPANY</u>	Non-Major	ATHENS	34.760635	-86.9707
110042358169	<u>CROWN GROUP INC CENTRAL STERIL</u>	Non-Major	HUNTSVILLE	34.72537	-86.5843
110042358258	<u>MORGAN CO COMM GANDYS COVE RD</u>	Non-Major	HARTSELLE	34.451561	-86.90441
110010110815	<u>SKIDMORE FARMS</u>	Non-Major	UNION GROVE	34.3983	-86.545266
110020073034	<u>FALCON RIDGE PHASE 4</u>	Non-Major	HUNTSVILLE	34.804444	-86.458333
110020435322	<u>FAULK FARM</u>	Non-Major	BAILEYTON	34.356456	-86.649928
110003032478	<u>AUTOMATIC SCREW MACHINE PRODUCTS COMPANY</u>	Non-Major	DECATUR	34.59734	-86.9852
110001712870	<u>UNITED LAUNCH ALLIANCE - DECATUR OPERATIONS</u>	Non-Major	DECATUR	34.631634	-87.069907
110020181355	<u>BUCHANAN COMMERCIAL SUBDIVISIO</u>	Non-Major	HUNTSVILLE	34.621944	-86.568889
110015734892	<u>SHADOW CREEK</u>	Non-Major	JEFF	34.846944	-86.745
110014453199	<u>APAC NO MEMORIAL PKWY CONST</u>	Non-Major	MERIDIANVILL E	34.766111	-86.587778
110013347342	<u>MS IVY FARMS</u>	Non-Major	SOMERVILLE	34.402095	-86.618619
110057432960	<u>SHERMAN INDUSTRIES INC.</u>	Non-Major	HUNTSVILLE	34.73905	-86.59234
110006652862	<u>BURNETT USED AUTO PARTS</u>	Non-Major	ATHENS	34.78374	-86.917029
110020538426	<u>AGRIBITION CENTER</u>	Non-Major	HUNTSVILLE	34.773611	-86.513056
110020426993	<u>DURHAM ESTATES</u>	Non-Major	HARVEST	34.881944	-86.743333
110020835809	<u>NEAREN CONSTRUCTION CO INC</u>	Non-Major	HUNTSVILLE	34.73715	-86.65828
110020124685	<u>TYONEK MANUFACTURING GROUP</u>	Non-Major	MADISON	34.69214	-86.75928
110020526607	<u>ARROWHEAD LAKE SUBDIVISION</u>	Non-Major	FARLEY	34.586417	-86.550944

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110020129029	<u>MAGNOLIA TRACE SUBDIVISION</u>	Non-Major	HARVEST	34.866944	-86.730278
110020188447	<u>STEED ROAD WAREHOUSE FACILITY</u>	Non-Major	DECATUR	34.611111	-87.055556
110020179723	<u>DURHAM ESTATES</u>	Non-Major	MADISON	34.881389	-86.743333
110021019850	<u>MOORESVILLE WATER LINE REPLACE</u>	Non-Major	CAPSHAW	34.623889	-86.881667
110020541387	<u>LIMESTONE 2002 WATER SYS IMPV</u>	Non-Major	CAPSHAW	34.955	-86.817222
110042363750	<u>ENDEAVOR LLC DIALYSIS CTR</u>	Non-Major	HUNTSVILLE	34.7438	-86.6468
110042368611	<u>ALDOT NHF HSIP 0001 540</u>	Non-Major	HAZEL GREEN	34.9015	-86.5715
110042373099	<u>HAROLD DOZIER CHULA VISTA DR</u>	Non-Major	DECATUR	34.54	-87.058611
11004349522	<u>LANG FARM BORROW PIT</u>	Non-Major	HUNTSVILLE	34.559722	-86.543611
110043489891	<u>ALADDIN LIGHT LIFT</u>	Non-Major	HUNTSVILLE	34.77834	-86.52375
110043732397	<u>REDSTONE PRIMARY #1</u>	Non-Major	REDSTONE ARSENAL	34.67831	-86.66999
110044264836	<u>RENAISSANCE PHASE I AND II</u>	Non-Major	HUNTSVILLE	34.615833	-86.578611
110044274567	<u>TURNER WOODALL ROAD SITE</u>	Non-Major	DECATUR	34.601733	-87.052016
110055246844	<u>COLDWATER CREEK PHASE 2</u>	Non-Major	HAZEL GREEN	34.9719	-86.5992
110045476613	<u>ROCK CREEK SUBDIVISION PHASE 3</u>	Non-Major	HARVEST	34.786628	-86.795814
110045511308	<u>KING RECLAMATION PROJECT</u>	Non-Major	HUNTSVILLE	34.7787	-86.624483
110045511594	<u>DAVIDSON ESTATES PHASE 1</u>	Non-Major	DECATUR	34.536667	-86.885833
110046294112	<u>CARMICHAEL PARK</u>	Non-Major	HUNTSVILLE	34.74309	-86.60907
110055217233	<u>SHOAL CREEK PHASE 1</u>	Non-Major	NEW MARKET	34.8953	-86.5282
110055217064	<u>FIRESTONE COMPLETE AUTO CARE</u>	Non-Major	MADISON	34.748611	-86.773889
110055479325	<u>BORROW AREA 18</u>	Non-Major	REDSTONE ARSENAL	34.595634	-86.589828
110063018309	<u>HUNTSVILLE CAMPUS</u>	Non-Major	HUNTSVILLE	34.71354	-86.65575
110062654462	<u>CARPENTER TECHNOLOGY CORPORATION - ATHENS SOUTH</u>	Non-Major	TANNER	34.658287	-86.956369
110042361752	<u>HUMPHREYSHAMPTON INN ATHENS AL</u>	Non-Major	ATHENS,	34.78112	-86.93697
110010105180	<u>JAY LANDINGS MARINA</u>	Non-Major	DECATUR	34.61907	-87.00648
110055620369	<u>THE VILLAGE AT OVERLAND COVE</u>	Non-Major	HUNTSVILLE	34.77171	-86.68754
110055481018	<u>MID TOWNE ON THE PARK</u>	Non-Major	HUNTSVILLE	34.7423	-86.6967
110063217950	<u>LOGICORE HEADQUARTERS</u>	Non-Major	HUNTSVILLE	34.716768	-86.680101
110020132275	<u>GREENVILLE PIKE STEWART BRANCH</u>	Non-Major	HAZEL GREEN	34.985333	-86.518056
110043505392	<u>IREDELL SUBDIVISION</u>	Non-Major	MADISON	34.770749	-86.499057
110043496035	<u>JEFF BENTON HOMES INC MILLSTON</u>	Non-Major	MADISON	34.7009	-86.7668
110054909667	<u>CRYSTAL MOUNTAIN WATER FACILITY</u>	Non-Major	HUNTSVILLE	34.749441	-86.631241
110006652050	<u>SEQUATCHIE CONCRETE SRV INC</u>	Non-Major	MADISON	34.692315	-86.779238

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110043499666	RAINBOW MOUNTAIN PRESERVE	Non-Major	MADISON	34.728611	-86.728056
110009038451	DOWNS POULTRY	Non-Major	ATHENS	34.75194	-87.05339
110042357712	KEITH GRIFFIN OAKS EAST SUBD	Non-Major	ATHENS	34.8032	-86.9153
110020531370	SOUTHWEST RECREATION CENTER	Non-Major	DECATUR	34.568333	-87.041667
110043495447	MT. ZION ROAD WATER TREATMENT PLANT	Non-Major	MADISON	34.786546	-86.722724
110055479986	DANVILLE RD. - MEANS BRIDGE	Non-Major	DECATUR	34.494444	-87.026389
110058278563	COUNTRY LIVING SENIOR LIVING CENTER	Non-Major	ARAB	34.342333	-86.460278
110042360780	GS LANDGROUP LL FOREST RIDGE S	Non-Major	HUNTSVILLE	34.801111	-86.7353
110042360334	NEW CASTLE DEVE KELLY PLANTATI	Non-Major	MADISON	34.67459	-86.46291
110042358720	HEART OF THE VALLEY YMCA	Non-Major	HUNTSVILLE	34.732208	-86.587024
110045476711	CLAYTON COVE INDIVIDUAL LOTS	Non-Major	HUNTSVILLE	34.772025	-86.738418
110055359749	DECATUR HAULING	Non-Major	DECATUR	34.60484	-87.03887
110054131998	THE VILLAGE OF PROVIDENCE LOTS 34,113,115,135,157,166,180,192-195, COMMERCIAL LO	Non-Major	HUNTSVILLE	34.753459	-86.695234
110041934770	NATIONAL PACKAGING CENTRAL PKWY	Non-Major	DECATUR	34.546885	-86.982511
110042981645	ADAM GOSS	Non-Major	UNION GROVE	34.43926	-86.49153
110054906982	MAGNOLIA PARK PHASES I, II AND III LOTS	Non-Major	OWENS CROSS ROADS	34.69094	-86.44246
110054910691	OLD MADISON PIKE	Non-Major	MADISON	34.708333	-86.706667
110042359453	CROSSWINDS CHURCH	Non-Major	HARVEST	34.8236	-86.7474
110057195985	OSBORNE'S JEWELERS	Non-Major	HUNTSVILLE	34.695896	-86.584294
110030991988	BUCKHORN WWTP	Non-Major	NEW MARKET	34.873889	-86.474167
110020183424	US SPACE AND ROCKET EDUCATION	Non-Major	MADISON COUNTY	34.7	-86.65
110010109729	WIREGRASS CONSTRUCTION COMPANY INC PLANT NO 1 JORDAN LANE	Non-Major	HUNTSVILLE	34.761094	-86.643203
110003377596	HUNTSVILLE-MADISON CO AIRPORT AUTHORITY	Non-Major	HUNTSVILLE	34.64922	-86.77662
110015662228	STALLION CHASE SUBDIVISION	Non-Major	CAPSHAW	34.798	-86.836778
110020177985	POTTERS MILL SUBDIVISION	Non-Major	MADISON	34.745	-86.711944
110020430700	ADOT NHF 0398 049	Non-Major	MOULTON	34.423611	-87.174167
110020130678	RADIANCE TECHNOLOGIES	Non-Major	HUNTSVILLE	34.716667	-86.655556
110020833240	WALGREENS STORE 2363	Non-Major	MADISON	34.736389	-86.743333
110020131025	AL PED DENTAL ASSOC AND ORTHOD	Non-Major	HUNTSVILLE	34.696417	-86.579556
110020538211	HARVEST POINTE SUBDIVISION	Non-Major	MADISON	34.846111	-86.753611
110020181925	HILTON GARDEN INN	Non-Major	HUNTSVILLE	34.708333	-86.7
110039207881	DAWKINS CONCRETE PRODUCTS INC	Non-Major	TRINITY	34.636667	-87.0775

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110043262992	<u>ASBURY THIFT STORE INC</u>	Non-Major	MADISON	34.6986	-86.7383
110042363894	<u>DARNELL FARMS</u>	Non-Major	HILLSBORO	34.644	-87.1892
110042361057	<u>MASTERS WAY CHURCH</u>	Non-Major	MADISON	34.7284	-86.7882
110043493591	<u>STPAA-8570 (601) PS648</u>	Non-Major	HUNTSVILLE	34.7916	-86.6667
110043494108	<u>SPARKS CREEK ESTATES</u>	Non-Major	ARAB	34.3607	-86.4514
110043490674	<u>CROSS CREEK SUBDIVISION, PHASE 2</u>	Non-Major	MADISON	34.762706	-86.763094
110043502714	<u>RIVERTREE CHURCH</u>	Non-Major	OWENS CROSS ROADS	34.6394	-86.4856
110044886415	<u>SALTY BOTTOM BORROW PIT</u>	Non-Major	GURLEY	34.7125	-86.401944
110063868257	<u>FAGAN CREEK CULVERT EXTENSION AND DOWNTOWN STREETScape</u>	Non-Major	HUNTSVILLE	34.72566	-86.5881
110046291598	<u>MERIDIAN BOTTOM RD RELOCATION / RUNWAY 36 EXTENSION</u>	Non-Major	MERIDIANVILL E	34.851166	-86.561633
110055361790	<u>FRENCH MILL & PINEY CREEK INTERCEPTOR</u>	Non-Major	ATHENS	34.7522	-86.9089
110055248218	<u>HERITAGE HEIGHTS, PHASE 1</u>	Non-Major	HARTSELLE	34.441447	-86.891514
110055213237	<u>RAINBOW LANDING PHASE 2</u>	Non-Major	MADISON	34.752778	-86.729167
110060269846	<u>STRATFORD SQUARE ESTATES, PHASE 3</u>	Non-Major	MADISON	34.692992	-86.734936
110060357652	<u>NHF 0002(564) PSI502</u>	Non-Major	HUNTSVILLE	34.760556	-86.562222
110060357634	<u>BOJANGLE'S RESTAURANT & HWY. 72W RETAIL DEVELOPMENT</u>	Non-Major	HUNTSVILLE	34.753994	-86.71086
110060354879	<u>LAUREN PRESERVE</u>	Non-Major	MADISON	34.7081	-86.7706
110060353852	<u>SOCKWELL DITCH IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.641299	-86.573632
110062652963	<u>BROOKWOOD DRIVE EXTENSION</u>	Non-Major	ARAB	34.33022	-86.49775
110020539942	<u>KENTUCKY FRIED CHICKEN RESTUR</u>	Non-Major	MERIDIANVILL E	34.772139	-86.533639
110043759527	<u>NH-0001 (562) PS 1177</u>	Non-Major	MERIDIANVILL E	34.8292	-86.5711
110060360899	<u>HAMPTON COVE RETAIL CENTER</u>	Non-Major	OWENS CROSS ROADS	34.66085	-86.48599
110055360470	<u>THE ISLAND AT THE RESERVE SUBDIVISION</u>	Non-Major	MADISON	34.66019	-86.72639
110027989657	<u>REED CONTRACTING SERVICES INC</u>	Non-Major	HUNTSVILLE	34.77449	-86.66987
110043496963	<u>JOE STILL BUILDING CO INC</u>	Non-Major	HUNTSVILLE	34.72609	-86.64835
110037453984	<u>REED CONTRACTING SERVICES CONCRETE BATCH PLANT</u>	Non-Major	HUNTSVILLE	34.77449	-86.66987
110025354444	<u>APAC MID SOUTH INC</u>	Non-Major	HUNTSVILLE	34.77878	-86.62958
110059797545	<u>HUNTSVILLE SOUTH PARKWAY WTP</u>	Non-Major	HUNTSVILLE	34.583056	-86.576667
110020185681	<u>BAINBRIDGE SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.858889	-86.571667

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110059699250	<u>WAL-MART EXPRESS #3779-00, NEW HOPE, AL</u>	Non-Major	NEW HOPE	34.548197	-86.431075
110055104284	<u>WESTHAVEN PHASE 3</u>	Non-Major	MADISON	34.737089	-86.796744
110020543241	<u>PRICEVILLE FOOTBALL STADIUM</u>	Non-Major	PRICEVILLE	34.535222	-86.881306
110046293685	<u>PUBLIC SAFETY COMPLEX BUILDING</u>	Non-Major	HUNTSVILLE	34.77833	-86.58268
110020399656	<u>OFFICE BUILDING SITE</u>	Non-Major	HUNTSVILLE	34.7575	-86.580833
110020544981	<u>HARVEST GLEN SUBDIVISION</u>	Non-Major	MADISON	34.857778	-86.766389
110000830487	<u>MATTHEWS INDUSTRIES INC</u>	Non-Major	DECATUR	34.60033	-86.98728
110054905750	<u>VERMONT ROAD WASTE AREA</u>	Non-Major	HUNTSVILLE	34.67369	-86.582769
110060269338	<u>BAKERS FARM SUBDIVISION LOTS</u>	Non-Major	MADISON	34.72164	-86.79641
110043758065	<u>FIRESTATION #2</u>	Non-Major	MADISON	34.73666	-86.74121
110043491076	<u>JOHN HAMMONS TOWN AND CONTRY</u>	Non-Major	ATHENS	34.788164	-86.973672
110020410606	<u>BEAVER DAM ESTATES</u>	Non-Major	HUNTSVILLE	34.866667	-86.653889
110064281209	<u>BRITTON OIL STATION #71</u>	Non-Major	HUNTSVILLE	34.73534	-86.61192
110010110691	<u>WARREN FARMS</u>	Non-Major	UNION GROVE	34.405833	-86.480278
110032613303	<u>CITY OF HARTSELLE</u>	Non-Major	HARTSELLE	34.44457	-86.93518
110020388757	<u>RIDGE AT KELLYWOOD THE</u>	Non-Major	HUNTSVILLE	34.823333	-86.722778
110055202301	<u>OAK GROVE AT FARLEY FARM PHASE I LOTS AND PHASE II</u>	Non-Major	HUNTSVILLE	34.60259	-86.56357
110043503161	<u>HUNTSVILLE FORMER MANUFACTURED GAS PLANT SITE</u>	Non-Major	HUNTSVILLE	34.731353	-86.593093
110054120900	<u>SITE 8-LIMESTONE CREEK, NORTH AND SOUTH OF NICK DAVIS ROAD</u>	Non-Major	ATHENS	34.802778	-86.816111
110056121904	<u>CLEGHORN PARK FINAL PHASE</u>	Non-Major	MADISON	34.67017	-86.75345
110000366032	<u>UMICORE SPECIALTY CHEMICALS - ARAB</u>	Non-Major	ARAB	34.343465	-86.455824
110055104293	<u>CLARK SPRING SEWER</u>	Non-Major	DECATUR	34.55988	-87.00012
110055106521	<u>WINDSOR SUBDIVISION</u>	Non-Major	DECATUR	34.595467	-87.035072
110056995266	<u>THE LODGE AT JOHNS ROAD</u>	Non-Major	HUNTSVILLE	34.76625	-86.679117
110042358356	<u>OMEGA HOTEL GROUP</u>	Non-Major	MADISON	34.67796	-86.75333
110042357981	<u>OLD STONE SUBDIVISION</u>	Non-Major	ATHENS	34.7521	-86.886478
110014337627	<u>CHADWICK PLACE SUBDIVISION</u>	Non-Major	ATHENS	34.778611	-86.885
110006789127	<u>TENNESSEE VALLEY RECYCLING LLC</u>	Non-Major	DECATUR	34.62	-87.002222
110000367996	<u>PARKER HANNIFIN CORP</u>	Non-Major	HUNTSVILLE	34.646606	-86.566941
110015821262	<u>NATIONAL PACKAGING COMPANY INC</u>	Non-Major	DECATUR	34.539167	-86.9775
110014349507	<u>DURA COAT PRODUCTS INC</u>	Non-Major	MADISON	34.634316	-86.846668
110009059703	<u>LINDE GAS LLC</u>	Non-Major	DECATUR	34.62946	-87.01574
110010068504	<u>OSDS WWTP</u>	Non-Major	TONEY	34.86121	-86.64256

Registry ID	Name	Type	City	Latitude	Longitude
110020738745	CON WAY SOUTHERN EXPRESS NDE	Non-Major	DECATUR	34.61051	-87.05126
110009040082	NORTH PARKWAY AUTO	Non-Major	MERIDIANVILL E	34.87468	-86.57057
110020839100	ADOT NHF 0157 501	Non-Major	MOULTON	34.423611	-87.174167
110020186145	ENTERPRISE PARK	Non-Major	HUNTSVILLE	34.75995	-86.68157
110020179509	BEASLEY PROPERTIES LLC	Non-Major	ATHENS	34.763528	-86.854917
110020395909	VILLAS AT MADISON	Non-Major	MADISON	34.71236	-86.745454
110020187867	OLD HIGHWAY 20 LIMESTONE CREEK	Non-Major	GREENBRIER	34.671389	-86.864444
110020184619	JF DRAKE TECH COLLEGE LIBRARY	Non-Major	MERIDIANVILL E	34.771889	-86.573222
110020529604	FALCON RIDGE PHASE III	Non-Major	HUNTSVILLE	34.803056	-86.458333
110020740616	MADISON ADVANCE AUTO PARTS	Non-Major	JEFF	34.752222	-86.743611
110020184682	MODAUS ROAD SITE	Non-Major	DECATUR	34.611111	-87.055556
110020424110	WILLOWBROOK BAPTIST CHURCH INC	Non-Major	MADISON	34.74784	-86.77245
110022421379	PUTMANS INDUSTRIAL PARK	Non-Major	GREENBRIER	34.669722	-86.79
110020130865	SOUTHTRUST BANK	Non-Major	MADISON	34.745278	-86.681389
110020831108	SUMMERFIELD SUBDIVISION	Non-Major	HARVEST	34.7925	-86.728333
110040087615	LIMESTONE CO BOARD OF EDUCATION NEW CLEMENTS ELEMENTARY SCHOOL	Non-Major	ATHENS	34.8	-87.1525
110042363983	DOUGLAS ROAD AT DOUGLAS BRANCH	Non-Major	MADISON	34.801045	-86.722503
110043267906	HUNTSVILLE CITY US-72 LEE HWY	Non-Major	HUNTSVILLE	34.73997	-86.60096
110042362626	ATTITUDE LLC LAKE 5 DEV	Non-Major	HUNTSVILLE	34.7067	-86.6797
110043490665	THE SANCTUARY AT RIVER RIDGE	Non-Major	OWENS CROSS ROADS	34.6047	-86.4874
110043506925	AL 431 LLC WALKERS HILL	Non-Major	HUNTSVILLE	34.8812	-86.5493
110007235269	ASCEND PERFORMANCE MATERIALS	Non-Major	DECATUR	34.633889	-87.024444
110045474429	RAYTHEON REDSTON ARSENAL MAGAZINES	Non-Major	REDSTONE ARSENAL	34.558519	-86.656378
110045481796	PAYTON PLACE SUBDIVISION	Non-Major	MADISON	34.768611	-86.785833
110055361442	VILLAGE OF PROVIDENCE, LOTS 113, 157, 171, 181	Non-Major	HUNTSVILLE	34.75718	-86.6911
110055480242	WHITESBURG CHRISTIAN ACADEMY CLASSROOM ADDITION	Non-Major	HUNTSVILLE	34.66926	-86.56723
110059700104	FIELDSTONE	Non-Major	ATHENS	34.7544	-86.8806
110060357901	FOXFIELD FARMS PHASE 1	Non-Major	MADISON	34.71432	-86.76819
110063017747	HERITAGE ESTATES	Non-Major	HARVEST	34.79359	-86.79039
110062647738	PRESERVE ON THE FLINT	Non-Major	NEW MARKET	34.850031	-86.463498
110063602668	KNOX CREEK SANITARY SEWER	Non-Major	MADISON	34.76536	-86.74952

Registry ID	Name	Type	City	Latitude	Longitude
110054113295	RFCU-MILLS ROAD	Non-Major	REDSTONE ARSENAL	34.644689	-86.646369
110043501840	SPEAKE ELEMENTARY SCHOOL	Non-Major	DANVILLE	34.41826	-87.16854
110010109774	WIREGRASS CONSTRUCTION - LACON PLANT	Non-Major	FALKVILLE	34.338312	-86.898329
110043272366	BRELAND HOMES FIELDSTONE PH 3	Non-Major	ATHENS	34.75257	-86.88811
110043497882	MADISON HIGH SCHOOL	Non-Major	MADISON	34.7046	-86.7915
110042368648	ASHTYNN MANOR PROPERTIES LLC	Non-Major	HUNTSVILLE	34.67217	-86.55276
110055213479	BRIDGE STREET TOWN CENTER PHASE 3	Non-Major	HUNTSVILLE	34.716438	-86.675606
110054912190	ATHENS, AL 161KV SWITCHING STATION	Non-Major	ATHENS	34.819292	-86.954983
110020183371	QUARRY WTP	Non-Major	MADISON	34.675	-86.725
110042362582	PRENTISS ROMINE DAYBREAK FARMS	Non-Major	ANDERSON,	34.91601	-87.31878
110055213353	BLAKE BOTTOM INDUSTRIAL PARK	Non-Major	HUNTSVILLE	34.7736	-86.6518
110003029099	BFI WASTE SYSTEMS OF HUNTSVILLE, LLC	Non-Major	HUNTSVILLE	34.74056	-86.63257
110006653629	H OIL INC	Non-Major	LACEYS SPRING	34.563469	-86.578175
110055217723	FLINT CITY PARK	Non-Major	DECATUR	34.52545	-86.97508
110054910469	DECATUR WORKS	Non-Major	DECATUR	34.643611	-87.0377
110059783024	HARTSELLE SHOPPES	Non-Major	HARTSELLE	34.43325	-86.93726
110020411053	CTA INC	Non-Major	MADISON	34.636667	-86.850556
110055231235	NH-HSIP-0067(505) PS1292	Non-Major	DECATUR	34.540833	-86.919167
110046324125	LEOLA ROAD	Non-Major	MOULTON	34.3525	-87.236944
110058278698	3185-0 HUNTSVILLE WALMART	Non-Major	HUNTSVILLE	34.74961	-86.63378
110009044783	PALMER PARK	Non-Major	MADISON	34.690333	-86.774167
110056124037	ETHEREDGE DIRT PIT	Non-Major	DECATUR	34.511972	-86.992
110020128707	ALDRIDGE CK CHANNEL IMPROVEMNT	Non-Major	HUNTSVILLE	34.675	-86.55
110042365785	WIER-WRIGHT ENTERPRISES INC	Non-Major	HUNTSVILLE	34.695852	-86.580744
110042361814	ADAMS HOMES LLC RIVERWOODS	Non-Major	MADISON	34.6219	-86.7203
110041250231	YRC INC. DBA YRC FREIGHT, INC. (409)	Non-Major	DECATUR	34.61908	-87.01453
110058927292	TVA CHARITY LANE	Non-Major	HUNTSVILLE	34.79481	-86.51848
110054101066	CARRIAGE PARK	Non-Major	OWENS CROSS ROADS	34.578697	-86.436703
110054123649	CITY OF MADISON	Non-Major	MADISON	34.68282	-86.74503
110056120727	SHILOH RUN SUBDIVISION LOTS	Non-Major	MADISON	34.70675	-86.75943
110044255793	BRANON SOIL (DIRT) PIT	Non-Major	NEW HOPE	34.53091	-86.41509
110054907017	OAK GROVE AND STONE'S THROW AT THE RESERVE LOTS	Non-Major	MADISON	34.65874	-86.71726
110054906250	NH-HSIP-0001 (571) PS1278	Non-Major	HUNTSVILLE	34.77	-86.585833

Registry ID	Name	Type	City	Latitude	Longitude
110043502670	PARK PLACE	Non-Major	ATHENS	34.7923	-86.9646
110033013986	WRCV FARMS	Non-Major	ELORA	35.04834	-86.39244
110020429026	ASHLEY GREEN SUBDIVISION	Non-Major	MADISON	34.736167	-86.758833
110000367718	CERRO WIRE LLC	Non-Major	HARTSELLE	34.412915	-86.917376
110020132499	SHADOW BROOK	Non-Major	JEFF	34.847222	-86.745
110022454930	HARVEST LANDING SUBDIVISION: LOTS 15-21, 23, AND 101-105	Non-Major	MADISON	34.8301	-86.7544
110020177173	OAKS OF HERITAGE PLANTATION	Non-Major	MADISON	34.718056	-86.784167
110006790179	BIG COVE SALVAGE	Non-Major	BROWNSBORO	34.68852	-86.502
110020179536	HOLLAND SITE SOUTH	Non-Major	DECATUR	34.613417	-87.0155
110009123377	MADISON COUNTY HIGH SCHOOL WWTP	Non-Major	BROWNSBORO	34.74334	-86.43837
110001714583	EFP LLC	Non-Major	DECATUR	34.56303	-86.97947
110020429712	FAMILY SECURITY CREDIT UNION	Non-Major	HARTSELLE	34.43232	-86.9363
110020835998	MOWLIN DEVELOPMENT CO INC	Non-Major	DECATUR	34.603936	-86.986229
110020423013	ATHENS OUTLET VILLAGE	Non-Major	LIMESTONE COUNTY	34.783333	-86.933333
110020186895	CARILLA BAY SUBDIVISION	Non-Major	HUNTSVILLE	34.86	-86.718889
110020129680	SOUTHERN HERITAGE	Non-Major	LIMESTONE COUNTY	34.732222	-86.881667
110042368666	WHITE FEATHER INC SCIENTECH	Non-Major	HUNTSVILLE	34.74499	-86.68809
110043507684	MCMULLEN PLACE LOT 13, HUNTLEIGH LOT 5	Non-Major	DECATUR	34.73935	-86.71837
110044879307	STILLWATER COVE SUBDIVISION PHASE I LOTS AND PHASE III	Non-Major	MADISON	34.703861	-86.815806
110044884809	HWY 55 WEST	Non-Major	FALKVILLE	34.37	-86.96
110044884890	FAIRFIELD INN	Non-Major	ATHENS	34.786389	-86.9425
110046322626	SITE 4--HUNTSVILLE-BROWNSFERRY ROAD	Non-Major	ATHENS	34.730278	-86.911667
110055213264	HAMPTON INN AT HAMPTON COVE	Non-Major	HUNTSVILLE	34.6746	-86.4914
110055216001	BURGREEN PLACE	Non-Major	MADISON	34.731948	-86.796641
110059794414	SOUTHEAST WATER TREATMENT PLANT	Non-Major	GRANT	34.474031	-86.385769
110062654220	ATHENS BULK PLANT	Non-Major	ATHENS	34.792336	-86.967677
110020539844	SHADOW CREEK PHASE III	Non-Major	MADISON COUNTY	34.645	-86.730833
110055248174	ADVANCED AUTO PARTS HARVEST	Non-Major	HARVEST	34.842778	-86.709722
110020129127	PRIMROSE SCHOOL OF BAILEY COVE	Non-Major	HUNTSVILLE	34.72791	-86.6649
110055361157	AUTOZONE 4983	Non-Major	OWENS CROSS ROADS	34.660463	-86.485994
110055990021	JEFF ROAD WWTP	Non-Major	HARVEST	34.783654	-86.714128

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110020070616	BRIARWOOD SUBDIVISION	Non-Major	MADISON COUNTY	34.951389	-86.719444
110054128699	TWICKENHAM SQUARE APARTMENTS & PUBLIX	Non-Major	HUNTSVILLE	34.721792	-86.583622
110043489702	SOUTH RING FIBER	Non-Major	NEW HOPE	34.5093	-86.3983
110056121815	BRACY ENTERTAINMENT TRIANA	Non-Major	HARVEST	34.80921	-86.76281
110044269298	RACETRAC	Non-Major	BIG COVE	34.688642	-86.501094
110063602659	HWY 72 AND COUNTY LINE ROAD SANITARY SEWER	Non-Major	MADISON	34.747961	-86.78857
110054106249	GUM SPRINGS RD BRIDGE	Non-Major	HARTSELLE	34.4425	-86.818056
110042358935	CMH HOMES INC	Non-Major	ATHENS	34.789089	-86.965577
110020178332	OVERNITE TRANSPORT	Non-Major	MORGAN COUNTY	34.601667	-87.034
110000509441	SOUTHWEST WATER TREATMENT FACILITY	Non-Major	MADISON	34.56558	-86.7515
110020839146	HANGAR EXPANSION	Non-Major	GREENBRIER	34.647222	-86.769167
110042358276	RANDY JONES JUBILEE FWC	Non-Major	DECATUR	34.5295	-86.90029
110003025057	EATON HYDRAULICS	Non-Major	DECATUR	34.56304	-86.97898
110056341114	HOLMES AVE BRIDGE REPLACEMENT	Non-Major	HUNTSVILLE	34.729983	-86.594608
110055621787	GRAND HIGHLANDS ESTATES - PHASE 3	Non-Major	HAMPTON COVE	34.6709	-86.46798
110006653282	ALABAMA A THRU Z AUTO PARTS	Non-Major	HARVEST	34.805791	-86.783142
110020403785	POINT MALLARD PARK	Non-Major	MORGAN COUNTY	34.595556	-86.942778
110046314671	PROGRESSIVE UNION M.B. CHURCH PARKING LOT	Non-Major	HUNTSVILLE	34.748208	-86.629035
110043495394	BURNELL WATER TREATMENT PLANT	Non-Major	HARVEST	34.830574	-86.708007
110042359916	TED SLATEN EXCAVATION	Non-Major	SOMERVILLE	34.49519	-86.82921
110060357787	BERMUDA LAKES SUBDIVISION	Non-Major	MERIDIANVILL E	34.88077	-86.51802
110020131604	ARBOR HILL AT THE RESERVE	Non-Major	MADISON	34.66	-86.724444
110055622072	HARVEST ELEMENTARY ADDITION	Non-Major	HARVEST	34.84841	-86.74917
110058923143	GUN FUN	Non-Major	HUNTSVILLE	34.77895	-86.671284
110056341089	WHITESBURG P-8 SCHOOL	Non-Major	HUNTSVILLE	34.674849	-86.567809
110046594645	ALABAMA GREEN LUBRICANTS	Non-Major	ATHENS	34.833794	-86.971638
110054113981	NEW RETAIL STORE IN WOODVILLE AL	Non-Major	WOODVILLE	34.618419	-86.294167
110054118307	PEARCE CONST CO INC	Non-Major	ATHENS	34.754983	-86.959033
110056118696	MADISON BOULEVARD LOT 2B AND 2C COMMERCIAL DEVELOPMENT	Non-Major	MADISON	34.68744	-86.72445
110044244760	19 ACRE SPOILS	Non-Major	HUNTSVILLE	34.699633	-86.684153
110054906303	FARLEY FARM SUBDIVISION, PHASE II	Non-Major	HUNTSVILLE	34.60294	-86.56349

Registry ID	Name	Type	City	Latitude	Longitude
110054905251	<u>PROPOSED LEAD TRACK EXTENSION</u>	Non-Major	DECATUR	34.634	-87.0529
110054909462	<u>PROFESSIONAL OFFICE BUILDING AT TWICKENHAM SQUARE</u>	Non-Major	HUNTSVILLE	34.72207	-86.58207
110046291829	<u>MACEDONIA DIRT PIT</u>	Non-Major	ARDMORE	34.951944	-86.775
110020180980	<u>HH PARKING DECK EXPANSION</u>	Non-Major	HUNTSVILLE	34.724444	-86.581389
110009039879	<u>PRYOR FIELD AIRPORT AUTHORITY</u>	Non-Major	ATHENS	34.6636	-86.9469
110000608619	<u>WOLVERINE TUBE INC DECATUR PLANT</u>	Non-Major	DECATUR	34.59894	-86.95768
110020070590	<u>TIMBERLAKE SUBDIVISION</u>	Non-Major	MADISON COUNTY	34.951667	-86.778889
110010101807	<u>NELSON IRON AND METAL</u>	Non-Major	FLINT CITY	34.512222	-86.969444
110000865056	<u>NAVISTAR DIESEL OF ALABAMA LLC</u>	Non-Major	HUNTSVILLE	34.65422	-86.75956
110009039968	<u>BFI OF ALABAMA INC DECATUR</u>	Non-Major	DECATUR	34.604444	-87.038889
110020431139	<u>ADOT BR 4201</u>	Non-Major	TANNER	34.636389	-86.950556
110003389217	<u>UNITED PARCEL SERVICE DECATUR</u>	Non-Major	DECATUR	34.623524	-87.038508
110020132854	<u>LAWRENCE CR 186 AT ELAM CREEK</u>	Non-Major	MOULTON	34.463889	-87.216667
110020414005	<u>BURNINGTREE MEADOWS PHASE II</u>	Non-Major	DECATUR	34.533417	-86.916889
110020131908	<u>BRIDGES ON THE RIVER THE</u>	Non-Major	HUNTSVILLE	34.8125	-86.486111
110020831527	<u>CEDAR CREEK ROAD</u>	Non-Major	HARTSELLE	34.408333	-86.904167
110020184566	<u>ELM STREET RESERVOIR</u>	Non-Major	ATHENS	34.82	-86.987333
110020528106	<u>BEND THE</u>	Non-Major	MADISON	34.786111	-86.745
110020384449	<u>MCCULLOUGH PITT 2</u>	Non-Major	LAWRENCE COUNTY	34.475	-87.191667
110020835195	<u>OAKSTONE SUBDIVISION</u>	Non-Major	MADISON	34.7	-86.75
110020128878	<u>HIDDEN CREEK PHASE TWO</u>	Non-Major	MORGAN COUNTY	34.600833	-87.095
110039207890	<u>SWING TRANSPORT INC TERM 17</u>	Non-Major	HUNTSVILLE	34.763611	-86.473611
110020133416	<u>MT LEBANON ESTATES</u>	Non-Major	MERIDIANVILLE	34.854722	-86.600556
110020185734	<u>OAK GROVE AT THE RESERVE</u>	Non-Major	MADISON	34.655278	-86.728889
110043496259	<u>WATERCRESS RETAIL DEVELOPMENT</u>	Non-Major	HUNTSVILLE	34.760833	-86.712803
110042965878	<u>SERRA TOYOTA OF DECATUR</u>	Non-Major	DECATUR	34.56006	-86.98873
110043489864	<u>BRAGG FARM RESERVOIR</u>	Non-Major	HAZEL GREEN	34.90273	-86.5838
110043497212	<u>DETENTION PONDS AT NEAL AND TOFTOY RDS. REDSTONE</u>	Non-Major	REDSTONE ARSENAL	34.6596	-86.6524
110044878914	<u>FLINT RIVER AGGREGATE</u>	Non-Major	HUNTSVILLE	34.553889	-86.488611
110044884783	<u>PROVIDENCE PLACE APARTMENTS</u>	Non-Major	HUNTSVILLE	34.756798	-86.68855
110045517133	<u>BRINDLEE MOUNTAIN PARK</u>	Non-Major	UNION GROVE	34.468547	-86.581927

Registry ID	Name	Type	City	Latitude	Longitude
110055218526	GE ACCESS IMPROVEMENTS ON US 231	Non-Major	HUNTSVILLE	34.607691	-86.565267
110060364467	TEST AREA 3 ROAD RESURFACING	Non-Major	REDSTONE ARSENAL	34.644667	-86.699722
110063214800	FAYETTEVILLE MUNICIPAL AIRPORT	Non-Major	FAYETTEVILLE	35.059168	-86.570692
110054907240	BRF 0020(509) PS1174	Non-Major	HILLSBORO	34.638333	-87.132222
110056119855	TA-1 LAYDOWN YARD	Non-Major	REDSTONE ARSENAL	34.61	-86.631944
110055213246	MADISON EYE CARE CENTER	Non-Major	MADISON	34.65782	-86.73313
110006789261	AUTO SALVAGE AND SUPPLY	Non-Major	HUNTSVILLE	34.79903	-86.63113
110027852688	HARVEST GROCERY	Non-Major	HARVEST	34.866556	-86.749639
110055192651	OAKWOOD MULTI-ED COMPLEX	Non-Major	HUNTSVILLE	34.757097	-86.659828
110045474660	REDSTONE ARSENAL	Non-Major	HUNTSVILLE	34.65603	-86.64598
110055620957	CARPENTER TECHNOLOGY CORP	Non-Major	TANNER	34.658287	-86.95638
110042357339	CITY OF ARAB COMMERICAL RETAIL	Non-Major	ARAB	34.350278	-86.504444
110056342480	MATSU ALABAMA, INC.	Non-Major	HUNTSVILLE	34.657915	-86.743946
110044262696	WALNUT COVE SUBDIVISION (MULTIPLE LOTS)	Non-Major	HUNTSVILLE	34.63585	-86.73697
110055172860	RSA BUILDING 5667	Non-Major	REDSTONE ARSENAL	34.632733	-86.649183
110020188857	CAREY ROAD AT MUDDY CREEK	Non-Major	ATHENS	34.876806	-86.939528
110060364387	CLARKSTON SQUARE	Non-Major	HUNTSVILLE	34.640408	-86.571006
110060353825	PARKING LOT FOR BUILDING 4200	Non-Major	REDSTONE ARSENAL	34.659667	-86.672556
110039130320	ROGERS GROUP LACEYS SPRING PLT	Non-Major	LACEYS SPRING	34.558073	-86.577374
110054113963	THOMAS HAMMONS ROAD	Non-Major	TANNER	34.65828	-86.95586
110058198819	C & L WOOD PRODUCTS, INC.	Non-Major	HARTSELLE	34.45059	-86.88021
110063017783	HARVEST VOLUNTEER FIRE DEPARTMENT	Non-Major	HARVEST	34.856919	-86.749072
110020186038	SHIELDS ROAD EXTENSION	Non-Major	HUNTSVILLE	34.773806	-86.529056
110042359578	TAYLOR LANE	Non-Major	HAMPTON COVE	34.6452	-86.4815
110020544641	DOWNTOWN INFRASTRUCTURE IMPROV	Non-Major	HUNTSVILLE	34.724444	-86.591389
110064258379	MADISON	Non-Major	MADISON	34.639444	-86.850556
110007234439	STYROLUTION AMERICA LLC	Non-Major	DECATUR	34.625319	-87.016367
110016705546	LIMESTONE CO W AND SEWER AUTH CREEKSIDE	Non-Major	HARVEST	34.794883	-86.795849
110043491968	ELEMENTARY SCH WWTP				
110043491968	NEW HAVEN SOUTH	Non-Major	ATHENS	34.802431	-86.9856
110043492011	RIVER RIDGE PHASE III	Non-Major	OWENS CROSS ROADS	34.6022	-86.4805

Registry ID	Name	Type	City	Latitude	Longitude
110054117790	<u>INTERCHANGE LANDSCAPING</u>	Non-Major	DECATUR	34.533494	-86.905831
110054110029	<u>ASHTON SPRINGS</u>	Non-Major	HARVEST	34.8009	-86.68701
110054109996	<u>HOSPITAL PARK LOTS 2A AND 2B AND A ROADWAY</u>	Non-Major	MADISON	34.750025	-86.7604
110056340954	<u>WATERS BROTHERS DANVILLE ROAD PIT 1</u>	Non-Major	DECATUR	34.506389	-87.027139
110054908267	<u>WALGREENS</u>	Non-Major	HUNTSVILLE	34.786389	-86.715
110056991153	<u>MIDTOWNE ON THE PARK</u>	Non-Major	HUNTSVILLE	34.7423	-86.6967
110057196083	<u>WEST HAVEN, PHASE I SUBDIVISION LOTS</u>	Non-Major	MADISON	34.742917	-86.806422
110042358775	<u>EVA TOWN PARK</u>	Non-Major	EVA	34.34141	-86.76179
110006652416	<u>ABF FREIGHT SYSTEM, INC.</u>	Non-Major	DECATUR	34.59556	-86.96309
110010107936	<u>ALABAMA CONCRETE CO INC</u>	Non-Major	HUNTSVILLE	34.67106	-86.59576
110014395449	<u>OAKHURST THIRD ADDITION</u>	Non-Major	HUNTSVILLE	34.605	-86.544722
110027369434	<u>MT ZION WTP</u>	Non-Major	HARVEST	34.785556	-86.723333
110020179947	<u>OLD IVY</u>	Non-Major	MADISON	34.702778	-86.723889
110009121912	<u>EAST LAWRENCE SCHOOL LAGOON</u>	Non-Major	TRINITY	34.566519	-87.172201
110020178724	<u>N CULLMAN WATER TRANS MAIN</u>	Non-Major	VINEMONT	34.26	-86.878333
110014394725	<u>EAST LIMESTONE ROAD</u>	Non-Major	CAPSHAW	34.783361	-86.816917
110020188465	<u>MT ZION ROAD DOUGLAS BRANCH</u>	Non-Major	MADISON	34.786528	-86.717222
110020834052	<u>WAL MART SUPER CENTER 5197 00</u>	Non-Major	OWENS CROSS ROADS	34.65998	-86.486
110007348432	<u>MORGAN ENERGY CTR GEN MOTORS</u>	Non-Major	DECATUR	34.639167	-87.064167
110020544972	<u>CHARITY HILLS TWO</u>	Non-Major	MADISON COUNTY	34.947333	-86.652222
110043267489	<u>SANCTUARY COVE LLC IMPROVEMENT</u>	Non-Major	HUNTSVILLE	34.6263	-86.4871
110042364027	<u>MARK WHITT</u>	Non-Major	OWENS CROSS ROADS	34.64374	-86.50208
110015852790	<u>CALHOUN COMM COLLEGE HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.71354	-86.65575
110042363769	<u>MINK CREEK FAIRVIEW DOLLAR GEN</u>	Non-Major	HUNTSVILLE	34.732273	-86.586894
110042370779	<u>OSP REALTY LLC</u>	Non-Major	ATHENS	34.805238	-86.991202
110043506685	<u>BENDERS ELITE FITNESS - KNIGHT STREET</u>	Non-Major	DECATUR	34.56722	-86.9775
110043727287	<u>HERRING PIT</u>	Non-Major	HARTSELLE	34.50076	-87.01351
110043759705	<u>ROCK CREEK SUBDIVISION</u>	Non-Major	MADISON	34.783889	-86.789444
110045476757	<u>OAKS EAST SUBDIVISION</u>	Non-Major	ATHENS	34.803678	-86.912561
110045477621	<u>24/7 FITNESS</u>	Non-Major	HUNTSVILLE	34.772242	-86.54284
110046294639	<u>PALMER PRESERVE</u>	Non-Major	MADISON	34.692258	-86.775528
110046291678	<u>SUPERIOR SCAFFOLDING</u>	Non-Major	DECATUR	34.598056	-87.035
110055360899	<u>MADISON MEDICAL 1 MEDICAL OFFICE BUILDING</u>	Non-Major	MADISON	34.746333	-86.76761

Registry ID	Name	Type	City	Latitude	Longitude
110055214423	<u>BELTLINE CHURCH OF CHRIST PARKING LOT IMPROVEMENTS</u>	Non-Major	DECATUR	34.58371	-87.02385
110013931629	<u>COLDWATER CREEK</u>	Non-Major	HUNTSVILLE	34.75822	-86.59634
110058278652	<u>NHF-0020(517) PS1523</u>	Non-Major	DECATUR	34.615	-86.984167
110059802343	<u>GOSS ROAD REALIGNMENT</u>	Non-Major	REDSTONE ARSENAL	34.69845	-86.65179
110060269604	<u>ACAA60220-ATRP (001) COUNTY LINE ROAD PHASE II</u>	Non-Major	MADISON	34.66553	-86.78683
110038857494	<u>NAVISTAR BIG BORE DIESELS LLC</u>	Non-Major	HUNTSVILLE	34.66287	-86.76756
110043270885	<u>JACKS FAMILY REST - MADISON</u>	Non-Major	MADISON	34.70137	-86.74224
110042361654	<u>CONTINENTAL 238 FUND LLC</u>	Non-Major	HUNTSVILLE	34.6725	-86.580556
110054113348	<u>YOUR EXTENDED ATTIC-HAZEL GREEN</u>	Non-Major	HAZEL GREEN	34.9463	-86.5701
110056341784	<u>UNIT #18 SUBSTATION</u>	Non-Major	REDSTONE ARSENAL	34.698194	-86.640293
110043495125	<u>MADISON MEDICAL BUILDING</u>	Non-Major	MADISON	34.7491	-86.7622
110020534572	<u>MEADOW GREEN OFFICE BUILDING</u>	Non-Major	MADISON	34.673333	-86.76
110054910129	<u>ZIERDT ROAD IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.689227	-86.716182
110043027701	<u>HICKS OIL LOG CABIN GROCERY</u>	Non-Major	ATHENS	34.800399	-87.156139
110020427135	<u>FOLSOM FIELD</u>	Non-Major	VINEMONT	34.261389	-86.861667
110010106937	<u>READY MIX USA, LLC - ROGERSVILLE PLANT</u>	Non-Major	ROGERSVILLE	34.8115	-87.2712
110043502144	<u>LEOLA ROAD PHASE II</u>	Non-Major	MOULTON	34.3889	-87.3139
110020129546	<u>HIGHLAND POINTE APARTMENTS</u>	Non-Major	JEFF	34.758333	-86.7205
110043737114	<u>SLOPE STABILIZATION</u>	Non-Major	DECATUR	34.65328	-87.07016
110020541635	<u>CITGO FUEL EXP AND TRAVEL</u>	Non-Major	MAYSVILLE	34.771944	-86.511389
110059701050	<u>HWY. 431 IMPROVEMENTS</u>	Non-Major	BROWNSBORO	34.688434	-86.502064
110046328407	<u>MAPCO MART</u>	Non-Major	HUNTSVILLE	34.73897	-86.600083
110043277352	<u>JEFF BENTON HOMES SUMM PH 6</u>	Non-Major	MADISON	34.7988	-86.7305
110043491085	<u>LKQ CORP SELF SERVE AL AUTO</u>	Non-Major	HUNTSVILLE	34.77876	-86.650579
110043507096	<u>COVE CREEK PROPERTIES LLC STR</u>	Non-Major	BROWNSBORO	34.6903	-86.5054
110020177164	<u>PILGRIMS PRIDE</u>	Non-Major	DANVILLE	34.393333	-87.028889
110020128173	<u>BISHOP FARMS</u>	Non-Major	MADISON	34.779722	-86.696111
110043741145	<u>BLUE SPRINGS ELEMENTARY</u>	Non-Major	ATHENS	34.795556	-87.154167
110055167251	<u>FORDS CHAPEL UNITED METHODIST CHURCH</u>	Non-Major	HARVEST	34.84141	-86.73085
110038108632	<u>FREEMAN KIRBY SALVAGE YARD</u>	Non-Major	TRINITY	34.54875	-87.13902
110044265130	<u>HAMPTON INN AND SUITES AND HOME2</u>	Non-Major	HUNTSVILLE	34.710278	-86.676667
110054101146	<u>MATCOR EXPANSION</u>	Non-Major	HUNTSVILLE	34.657915	-86.743946
110055093330	<u>TVA ARDMORE - PARK CITY</u>	Non-Major	ELKMONT	34.94514	-86.873852

Registry ID	Name	Type	City	Latitude	Longitude
110042358793	CITY DECATUR 16TH AVE DRAINAGE	Non-Major	DECATUR	34.60587	-87.00767
110057199115	VA HOSPITAL	Non-Major	HUNTSVILLE	34.72485	-86.62083
110042988817	LJ LLC	Non-Major	MADISON	34.787979	-86.749177
110058923107	47-SMITH-2 BORROW PIT	Non-Major	OWENS CROSS ROADS	34.604637	-86.490332
110020179457	BRIDGEHILL SUBDIVISION	Non-Major	MADISON	34.796667	-86.720556
110020543250	BROOKWOOD ACRES	Non-Major	MADISON COUNTY	34.955833	-86.750833
110055620564	HAWKS RIDGE ESTATES PHASE II	Non-Major	HUNTSVILLE	34.69109	-86.57498
110054113829	LEGACY STATION	Non-Major	ARAB	34.345	-86.503
110056341588	LEGACY APARTMENT	Non-Major	HUNTSVILLE	34.67188	-86.53819
110054120713	CORNERSTONE WOL CHURCH	Non-Major	MADISON	34.680076	-86.751806
110056119132	MARTIN ROAD SANITARY SEWER	Non-Major	REDSTONE ARSENAL	34.644852	-86.709886
110043756726	BRUNSWICK SUBDIVISION	Non-Major	ATHENS	34.801197	-86.821711
110044244939	REGIONS BANK BRANCH	Non-Major	DECATUR	34.5616	-86.9716
110000367488	CARGILL INC	Non-Major	DECATUR	34.62666	-87.038484
110022285249	G & H FARMS	Non-Major	UNION GROVE	34.3809	-86.45375
110020436321	MOUNTAIN FORK WTP	Non-Major	NEW MARKET	34.922761	-86.38361
110020071553	JACOBS POINTE PHASE TWO	Non-Major	MADISON	34.782222	-86.683889
110009059794	PEEBLES OIL COMPANY INC	Non-Major	HARTSELLE	34.44979	-86.904276
110038335904	SPS WINCHESTER RD BORROW PIT	Non-Major	HUNTSVILLE	34.819167	-86.488056
110012755982	READY MIX USA MADISON PLANT	Non-Major	MADISON	34.747222	-86.796944
110020177191	BORROW PIT	Non-Major	MOULTON	34.458333	-87.195833
110010110646	HEREFORD & SONS FARM	Non-Major	GURLEY	34.701141	-86.351138
110020072632	TWELVE OAKS SUBDIVISION	Non-Major	TONEY	34.9325	-86.786111
110014395680	PROVIDENCE	Non-Major	HUNTSVILLE	34.759444	-86.699722
110012237178	LITTRELL LUMBER MILL INC	Non-Major	DECATUR	34.59153	-87.02446
110010107188	DCA READY MIX INC	Non-Major	HARTSELLE	34.41655	-86.91584
110038335940	SCHUECK FABRICATION DECATUR	Non-Major	HILLSBORO	34.643611	-87.146111
110020431264	ADOT BR 002 512	Non-Major	ATHENS	34.784722	-86.948333
110020188919	CREEKSIDE PLANTATION	Non-Major	CAPSHAW	34.790556	-86.787778
110020132934	CHEROKEE RIDGE SD GOLF COURSE	Non-Major	MARSHALL COUNTY	34.414167	-86.573056
110025355336	RELIANCE BANK	Non-Major	ATHENS	34.778056	-86.923889
110020529926	CEDAR LAKE DETENTION POND	Non-Major	DECATUR	34.52503	-86.97185

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110039170054	WILLIAMS SERVICE ELM STREET	Non-Major	ATHENS	34.81941	-86.96734
110042364009	MADISON CO COMM LOVE BRANCH	Non-Major	HARVEST	34.853364	-86.784539
110043496115	WINNGATE FORCE MAIN	Non-Major	ATHENS	34.9109	-86.8178
110043492093	GREENLAWN PLANTATION PHASE 8	Non-Major	MERIDIANVILL E	34.839731	-86.564217
110043494037	LOW GAP ROAD AT GLOVER BRANCH	Non-Major	OWENS CROSS ROADS	34.59596	-86.41395
110043497258	WATERFORD PHASE 5	Non-Major	MADISON	34.710833	-86.795556
110043277450	DECATUR HOUSING AUTHORITY	Non-Major	DECATUR	34.59259	-86.96605
110043734938	NEW CLEMENTS ELEMENTARY SCHOOL	Non-Major	ATHENS	34.7999	-87.1526
110043761239	HWY 53 AT HARVEST ROAD CONVENIENCE STORE	Non-Major	HARVEST	34.858889	-86.721667
110044878059	SOUTHLAND INTERNATIONAL	Non-Major	MADISON	34.642778	-86.841389
110045476365	BUILDING 5300	Non-Major	REDSTONE ARSENAL	34.6507	-86.6289
110045487040	WALGREENS BROWNSFERRY ROAD	Non-Major	MADISON	34.726995	-86.786427
110046291865	NSR, DECATUR, AL, PROPOSED MAINLINE REALIGNMENT	Non-Major	TRINITY	34.603324	-87.071493
110046320290	LEGENDWOOD PHASE II, III AND IV	Non-Major	MADISON	34.77277	-86.7644
110046294611	NHF-0067(501) PS511	Non-Major	DECATUR	34.562222	-86.973611
110046291277	I-65 VACANT LAND	Non-Major	HARTSELLE	34.447972	-86.896755
110046314966	CA-4 EXPANSION	Non-Major	DECATUR	34.61934	-87.02172
110055248147	UNNAMED	Non-Major	HUNTSVILLE	34.7678	-86.4431
110055217279	DARLINGTON	Non-Major	MADISON	34.74868	-86.74097
110055216181	SOUTHPOINTE RIDGE PH 2	Non-Major	HAZEL GREEN	34.97645	-86.58206
110055217563	CUSTOM CAMPER TRAILERS	Non-Major	HUNTSVILLE	34.73628	-86.62807
110022447887	LAFARGE ATHENS CONCRETE PLANT	Non-Major	ATHENS	34.77492	-86.96153
110062649889	RSA-095	Non-Major	REDSTONE ARSENAL	34.6228	-86.602
110045476631	HARVEST LANDING PHASE 1	Non-Major	HARVEST	34.83348	-86.78525
110063868266	WYNN DRIVE RELOCATION	Non-Major	HUNTSVILLE	34.7133	-86.65574
110045505618	I3MP COMMUNICATIONS UPGRADES, RSA-WIDE	Non-Major	REDSTONE ARSENAL	34.696667	-86.670833
110055242517	WHITEHEAD POND	Non-Major	MADISON	34.74631	-86.74101
110042357874	RICKY ISBELL BUCKEYE BEND	Non-Major	NEW MARKET	34.885	-86.53
110044269537	WESTERN AREA INTERCEPTOR SEWER PHASE 5	Non-Major	MADISON	34.734	-86.816383
110060357910	FOXFIELD FARMS PHASE 2	Non-Major	MADISON	34.71432	-86.76819
110020179386	5025 BRADFORD BUILDING	Non-Major	HUNTSVILLE	34.728417	-86.667639

Registry ID	Name	Type	City	Latitude	Longitude
110055622777	<u>MALLARD FOX LIFT STATION & MALLARD FOX FORCE MAIN</u>	Non-Major	DECATUR	34.65326	-87.06976
110046291213	<u>SIX-POINT INTERSECTION OF WALL TRIANA HIGHWAY</u>	Non-Major	MADISON	34.859722	-86.748889
110043762363	<u>PARTNERS SUPPLY DISTRIBUTION BUILDING</u>	Non-Major	HUNTSVILLE	34.76236	-86.5972
110006790151	<u>67 AUTO SALVAGE</u>	Non-Major	SOMERVILLE	34.494703	-86.844777
110020130927	<u>BEAVER CREEK</u>	Non-Major	HUNTSVILLE	34.849722	-86.595
110032941869	<u>READY MIX USA LLC HUNTSVILLE</u>	Non-Major	HARVEST	34.839472	-86.710361
110020531628	<u>OAKS AT HERITAGE PLANTATION</u>	Non-Major	MADISON COUNTY	34.716667	-86.781667
110044302242	<u>POLYPLEX USA LLC</u>	Non-Major	DECATUR	34.652933	-87.071889
110023133982	<u>BLACKBERRY FARM PHASE 2</u>	Non-Major	MERIDIANVILLE	34.85214	-86.58856
110056119052	<u>TVA GUNTERSVILLE - KETONA NERC PROJECT</u>	Non-Major	GUNTERSVILLE	34.41723	-86.401599
110020523370	<u>ARAB DOLLAR GENERAL</u>	Non-Major	ARAB	34.3175	-86.503611
110054118165	<u>HAWK'S LANDING SUBDIVISION</u>	Non-Major	ATHENS	34.8233	-86.9325
110056341944	<u>BRUNSWICK SUBDIVISION LOTS: 1,62-64,73,81,84-87,94,96,98-100,107-117,137 &139-14</u>	Non-Major	ATHENS	34.80277	-86.81984
110056119123	<u>MOORESVILLE ROAD AT FRENCH MILL CREEK</u>	Non-Major	ATHENS	34.766389	-86.877222
110054908034	<u>LUCAS FERRY AND SANDERFER WIDENING</u>	Non-Major	ATHENS	34.77629	-87.00125
110056998888	<u>WINGATE SUBDIVISION PUMP STATION, SS FORCE MAIN & GRAVITY SEWER</u>	Non-Major	ATHENS	34.914444	-86.819444
110042358374	<u>WOODRIDGE SUBDIVISION PH. 3 (SEE ATTACHED)</u>	Non-Major	HARVEST	34.82098	-86.76032
110013807791	<u>IMI TENNESSEE, INC. - FAYETTEVILLE</u>	Non-Major	FAYETTEVILLE	35.06678	-86.56402
110057194548	<u>PROPOSED FIRE STATION #6</u>	Non-Major	HUNTSVILLE	34.69979	-86.60349
110000514257	<u>CONTINENTAL GRAIN WAYNE FARMS DECATUR DIV</u>	Non-Major	DECATUR	34.60832	-87.04245
110020187144	<u>HUNTSVILLE TENNIS CENTER</u>	Non-Major	HUNTSVILLE	34.685278	-86.592222
110006790712	<u>NICHOLS CONCRETE EQUIPMENT CO</u>	Non-Major	TONEY	34.86678	-86.6847
110015663646	<u>FRANKLIN STATION</u>	Non-Major	MADISON	34.722222	-86.7675
110020410679	<u>WESTERN AREA WWTP OUTFALL</u>	Non-Major	MADISON COUNTY	34.553972	-86.762306
110020186421	<u>VERMONT ROAD WASTE AREA</u>	Non-Major	HUNTSVILLE	34.664167	-86.595278
110020181943	<u>HUNTSVILLE LUMBER</u>	Non-Major	HUNTSVILLE	34.78125	-86.7
110020838049	<u>YOUNG BORROW PIT</u>	Non-Major	FALKVILLE	34.3075	-86.88
110020838539	<u>U S HWY 72 AND PARAMOUNT DRIVE</u>	Non-Major	JEFF	34.750278	-86.698056
110020834105	<u>FOX RIDGE PHASE 2</u>	Non-Major	HUNTSVILLE	34.937778	-86.713333
110020133577	<u>CORNERSTONE CENTER II</u>	Non-Major	CAPSHAW	34.776389	-86.831944
110020521853	<u>NEW HOPE MOUNTAIN ESTATE</u>	Non-Major	NEW HOPE	34.546944	-86.432778

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110020188009	WALLING FARMS	Non-Major	DANVILLE	34.383333	-87.15
110020128681	STATELINE ROAD ESTATES	Non-Major	MADISON COUNTY	34.984722	-86.704444
110043265579	MING ENTERPRISES LLC HARDEES	Non-Major	HUNTSVILLE	34.7928	-86.6689
110042364535	ENFINGER STEELE CARRINGTON	Non-Major	OWENS CROSS ROADS	34.638	-86.49
110043262929	WCI LLC WAREHOUSE	Non-Major	TANNER	34.637175	-86.879152
110042363803	KEVIN MILLER DEV	Non-Major	EVA	34.3467	-86.7637
110043498694	HAMPTON VILLAGE SUBDIVISION LOTS	Non-Major	OWENS CROSS ROADS	34.66997	-86.49564
110043502590	NHF-0053(532) PS1189	Non-Major	HUNTSVILLE	34.6558	-86.5688
110043725804	LACEYS SPRING QUARRY	Non-Major	LACEYS SPRING	34.558073	-86.577374
110045477612	BUCKHORN SUBDIVISION PHASE 1	Non-Major	NEW MARKET	34.875	-86.450833
110046287692	MADISON COUNTY HEALTH DEPARTMENT, VECTOR CONTROL	Non-Major	HUNTSVILLE	34.6897	-86.59853
110046292141	LIFESOUTH MADISON, AL	Non-Major	MADISON	34.687416	-86.725141
110055202034	BORROW PIT	Non-Major	SOMERVILLE	34.44646	-86.783715
110055480894	TVA HARTSELLE - CULLMAN 161-KV UPRATE COMMUNICATION LINE INSTALL - AT&T PROJECT	Non-Major	HARTSELLE	34.4267	-86.943717
110060357670	#9371946	Non-Major	VALHERMOSO SPRINGS	34.50875	-86.67506
110063021867	NORTH ELM INDUSTRIAL PARK	Non-Major	ATHENS	34.830278	-86.965
110062649567	BROWNS FERRY CROSSING	Non-Major	MADISON	34.723199	-86.786609
110006789920	BAMA PARTS	Non-Major	HAZEL GREEN	34.90274	-86.56665
110043496375	MAYFIELD TRUCKING	Non-Major	HARTSELLE	34.43274	-86.93229
110006033041	WESTERN EXPRESS INC	Non-Major	DECATUR	34.521588	-86.89493
110006788468	CGF INDUSTRIES INC	Non-Major	ARDMORE	34.991944	-86.846944
110054118281	EAST SIDE JUNCTION SHOPPING CENTER	Non-Major	ATHENS	34.783	-86.926
110055094437	ALDI FOODS	Non-Major	HUNTSVILLE	34.613154	-86.5661
110020129984	REDSTONE ARSENAL BOWLING CTR	Non-Major	MADISON COUNTY	34.712806	-86.640306
110020421168	LEKTRON INC	Non-Major	HARTSELLE	34.471583	-86.955583
110020719089	WEST HUNTSVILLE K 8 SCHOOL	Non-Major	JEFF	34.758056	-86.698333
110014452760	MS4 PHASE II	Non-Major	HUNTSVILLE	34.792433	-86.518516
110012234297	TOYOTA MOTOR MANUFACTURING ALA	Non-Major	HUNTSVILLE	34.828579	-86.642635
110014337618	WESTGATE SUBDIVISION	Non-Major	RIPLEY	34.809444	-87.012778
110020128887	HARDIMAN PLACE	Non-Major	LIMESTONE	34.699333	-86.798389

Registry ID	Name	Type	City	Latitude	Longitude
110045513075	<u>NEW RETAIL DEVELOPMENT HSV, PULASKI PIKE #13651</u>	Non-Major	HUNTSVILLE	34.792778	-86.616389
110063217610	<u>SCALF PHASE II</u>	Non-Major	HUNTSVILLE	34.60549	-86.55887
110042369656	<u>TORAY CARBON FIBERS</u>	Non-Major	DECATUR	34.6287	-87.0161
110046314733	<u>HMCAA: GROUP VI IMPROVEMENTS</u>	Non-Major	HUNTSVILLE	34.627847	-86.779867
110054113320	<u>OVERLOOK DRIVE TOPSOIL STORAGE</u>	Non-Major	REDSTONE ARSENAL	34.695516	-86.69395
110054118334	<u>NEW RETAIL STORE</u>	Non-Major	MADISON	34.79734	-86.74915
110020430407	<u>ADOT MGF ACNHF 0157 500</u>	Non-Major	DANVILLE	34.3125	-86.998611
110054103233	<u>BAMA CONCRETE PRODUCTS CARPENTER PLANT</u>	Non-Major	TANNER	34.716732	-86.956761
110045474456	<u>TEST AREA 6</u>	Non-Major	REDSTONE ARSENAL	34.644444	-86.70177
110006790188	<u>A1 USED AUTO PARTS INC</u>	Non-Major	HUNTSVILLE	34.778737	-86.639314
110043274729	<u>FRIEDMAN INDUSTRIES INC</u>	Non-Major	DECATUR	34.642648	-87.075561
110055221870	<u>WILLOWBROOK AT MADISON</u>	Non-Major	MADISON	34.76653	-86.71634
110020128896	<u>RIVER BEND AT MOUNTY CARMEL</u>	Non-Major	MAYSVILLE	34.795	-86.4925
110054912074	<u>JACK DANIEL COOPERAGE</u>	Non-Major	TRINITY	34.620667	-87.113717
110055213344	<u>LUCAS FERRY PROPERTY</u>	Non-Major	ATHENS	34.7767	-87.0013
110046315304	<u>NATURE'S LANDING PHASE 3</u>	Non-Major	MADISON	34.663056	-86.735833
110014453215	<u>APAC GENE KING</u>	Non-Major	MERIDIANVILLE	34.779722	-86.619722
110043273953	<u>BROOKS FARM</u>	Non-Major	SOMERVILLE	34.40925	-86.67787
110044255766	<u>B & B RECYCLING</u>	Non-Major	LACEYS SPRING	34.503011	-86.635515
110054897885	<u>LADD PLACE</u>	Non-Major	HUNTSVILLE	34.7989	-86.4556
110054907197	<u>STILLWATER COVE SUBDIVISION PHASE III LOTS</u>	Non-Major	MADISON	34.70003	-86.81562
110054899972	<u>84 LUMBER - MADISON COUNTY</u>	Non-Major	MERIDIANVILLE	34.77124	-86.50339
110056991135	<u>GOLDEN CORRAL HUNTSVILLE</u>	Non-Major	HUNTSVILLE	34.73869	-86.65836
110057195930	<u>CENTRAL PARKWAY WAREHOUSE</u>	Non-Major	DECATUR	34.576	-86.985278
110042357730	<u>SAGEBROOK AT KELLY SPRINGS</u>	Non-Major	HARVEST	34.83069	-86.73211
110006790142	<u>JAMES ALTON DAVIS AND KEVIN E MCWITHEY</u>	Non-Major	HUNTSVILLE	34.82045	-86.57139
110006653193	<u>DAVID MOORE TRACTOR REPAIR</u>	Non-Major	NEW MARKET	34.941573	-86.515059
110014395635	<u>LUCY BRANCH WWTP</u>	Non-Major	ATHENS	34.777	-87.226
110009039977	<u>LATE NIGHT ENTERPRISES, INC.</u>	Non-Major	HARVEST	34.784551	-86.832302
110020070368	<u>MILL CREEK VILLAGE SUBDIVISION</u>	Non-Major	ARAB	34.35	-86.5
110009123493	<u>HAMILTON PIT</u>	Non-Major	LAWRENCE COUNTY	34.634167	-87.109167

Registry ID	Name	Type	City	Latitude	Longitude
110012756099	WILLIAMS EXPRESS	Non-Major	ATHENS	34.802945	-86.954179
110003376221	VULCAN MATERIALS CO	Non-Major	HUNTSVILLE	34.7786	-86.62819
110022454663	T AND J TRUCKING INC	Non-Major	VINEMONT	34.263908	-86.880541
110006788173	HICKS OIL COMPANY INC	Non-Major	ATHENS	34.792336	-86.967677
110020178653	HARTSELLE HWY31 SEWER REPLACEM	Non-Major	HARTSELLE	34.445	-86.943056
110010104332	CULLMAN REGIONAL AIRPORT	Non-Major	VINEMONT	34.268231	-86.861325
110014395074	FIELDS PIT 1	Non-Major	DANVILLE	34.381944	-87.093889
110020526741	FUTURITY DOWNS PHASE 3	Non-Major	MERIDIANVILL E	34.86075	-86.597944
110020835970	WESTMINSTER CHRISTIAN ACADEMY	Non-Major	MADISON	34.78656	-86.72561
110020401590	APT RESEARCH INC	Non-Major	HUNTSVILLE	34.73063	-86.66352
110021019789	MADISON COUNTY JAIL PROJECT	Non-Major	HUNTSVILLE	34.736111	-86.596111
110020129074	TIMBERLANDLAKE ESTATES SUBD	Non-Major	DECATUR	34.527972	-87.01
110020722020	BRIAR RIDGE SUBDIVISION	Non-Major	HARVEST	34.859444	-86.785556
110020129261	DISCOVERY ELEMENTARY SCHOOL	Non-Major	HUNTSVILLE	34.730556	-86.756167
110020129412	CHURCHILL DOWNS SUBDIVISION	Non-Major	PRICEVILLE	34.458333	-86.958333
110020132248	BRUDERER MANUFACTURING	Non-Major	HUNTSVILLE	34.772778	-86.523611
110020831019	FIRST CHURCH OF THE NAZARENE	Non-Major	ROGERSVILLE	34.821944	-87.280556
110020179215	SPRINGS AT WATERCREST	Non-Major	ATHENS	34.810944	-87.004222
110020406390	HARVEST LANDING SUBDIVISION	Non-Major	MADISON COUNTY	34.831667	-86.759167
110020531343	RYANS DECATUR	Non-Major	DECATUR	34.594889	-86.999694
110020531389	CROWSON PIT	Non-Major	HARVEST	34.811389	-86.769444
110020426298	KELLY SPRINGS BORROW PIT	Non-Major	JEFF	34.815	-86.696111
110042363581	FAMILY SECURITY CREDIT UNION N	Non-Major	DECATUR	34.571448	-87.020475
110042361182	RARE HOSPITALITY INTERNATION	Non-Major	DECATUR	34.561999	-86.972623
110042362010	HUNTSVILLE ENTERPRISES / PLUMM	Non-Major	HUNTSVILLE	34.767222	-86.669722
110043265506	BALLARD CONST CO INC REDSTONE	Non-Major	HUNTSVILLE	34.6654	-86.6529
110043268157	FOCUS INVESTMENTS LLC CHELSEA	Non-Major	MADISON	34.7192	-86.7677
110043499498	FIELD HOUSE, WATER & SEWER	Non-Major	ATHENS	34.810278	-86.941389
110043495973	HWY 53 BORROW AREA	Non-Major	HUNTSVILLE	34.7986	-86.6503
110000514514	WAYNE FARMS LLC DECATUR EAST FURTHER PROCESSING	Non-Major	DECATUR	34.608889	-87.046944
110043497043	MCDONALD'S RESTAURANT	Non-Major	HARVEST	34.846913	-86.713359
110043497249	COVENTRY AT MCCULLEN COVE	Non-Major	BIG COVE	34.693333	-86.433611
110044258594	CVS PHARMACY #10037	Non-Major	HUNTSVILLE	34.63044	-86.56687

Registry ID	Name	Type	City	Latitude	Longitude
110043276656	SNAP LLC DAVIDSON ESTATES	Non-Major	DECATUR	34.53917	-86.88861
110043058348	CELL PAK LLC	Non-Major	DECATUR	34.605504	-87.034673
110043504972	HARBOR POINTE APARTMENTS PHASE 2	Non-Major	DECATUR	34.55556	-86.99278
110043759698	LAKE FOREST SUBDIVISION LOTS 8-11 (BLOCK 15) & LOTS 5-6 (BLOCK 13)	Non-Major	HUNTSVILLE	34.643611	-86.730556
110045516795	LETSON BROTHERS FARM PIT	Non-Major	HILLSBORO	34.638892	-87.158119
110045515634	BRIER CREEK SUBDIVISION PHASES I & II	Non-Major	MERIDIANVILL E	34.862637	-86.535785
110043492832	ASHBURY SUBDIVISION	Non-Major	MADISON	34.690278	-86.786944
110045475295	CLUBFIELD	Non-Major	HUNTSVILLE	34.65094	-86.582781
110046305011	SHILOH RUN SUBDIVISION	Non-Major	MADISON	34.7066	-86.759444
110046315457	UAHUNTSVILLE GREENWAY & STUDENT CENTER & NURSING BUILDING	Non-Major	HUNTSVILLE	34.7251	-86.63958
110055361807	STORAGE DEPOT RESEARCH PARK	Non-Major	HUNTSVILLE	34.781	-86.6716
110055215887	REED CONTRACTING SERVICES INC CONCRETE PLANT 3	Non-Major	MADISON	34.654348	-86.807293
110055215994	BLAKE DEVELOPMENT	Non-Major	HUNTSVILLE	34.793194	-86.669583
110055481438	SOMERSET PHASE II	Non-Major	HUNTSVILLE	34.79036	-86.51181
110055479959	BUFFALO WILD WINGS	Non-Major	DECATUR	34.55945	-87.00328
110043490870	T J CONST INC HWY 53 UTILITY	Non-Major	HUNTSVILLE	34.7934	-86.669
110021019814	CENTERPOINTE SECTION	Non-Major	ATHENS	34.783611	-86.933889
110020521602	HAZEL GREEN ADVANCE AUTO PARTS	Non-Major	HAZEL GREEN	34.933583	-86.572194
110022282019	JACKS NUMBER 202	Non-Major	MADISON	34.73719	-86.62725
110063216078	EVA (COUNTY ROAD 55) NEW RETAIL STORE	Non-Major	EVA	34.332222	-86.760833
110020133050	FRIEND ROAD AT POPLAR CREEK	Non-Major	LESTER	34.755556	-87.125917
110054907865	HWY. 251 GAS MAIN EXTENSION	Non-Major	ATHENS	34.876389	-86.836111
110042357437	C & C SIDING INC OFFICE BUILD	Non-Major	SOMERVILLE	34.499295	-86.852391
110055217867	RESEARCH PARK STORMWATER IMPROVEMENTS	Non-Major	HUNTSVILLE	34.71704	-86.68009
110006652513	MOONTOWN AIRPORT	Non-Major	BROWNSBORO	34.74653	-86.46019
110043494331	WARE PARK PUMP STATION	Non-Major	HUNTSVILLE	34.646	-86.7197
110020402731	PLANTATION EAST PHASE II	Non-Major	LIMESTONE COUNTY	34.756944	-86.880556
110014452305	HARTSELLE CITY OF C D LANDFILL	Non-Major	HARTSELLE	34.459444	-86.935278
110013812446	DECATUR PLANT	Non-Major	TRINITY	34.605083	-87.065167
110010102780	NORTH ALABAMA USED AUTO PARTS	Non-Major	NEW MARKET	34.943003	-86.511203
110044244715	8 ACRE SPOIL SITE	Non-Major	HUNTSVILLE	34.695583	-86.693608

Registry ID	Name	Type	City	Latitude	Longitude
110020188893	CORNERSTONE DEVELOPMENT	Non-Major	LIMESTONE COUNTY	34.776417	-86.832056
110055621091	BUILDING 4260 REPLACEMENT	Non-Major	REDSTONE ARSENAL	34.65725	-86.67225
110054118343	LIBERTY FARMS	Non-Major	DANVILLE	34.49638	-87.09016
110056341775	HERITAGE HEALTHCARE, LLC	Non-Major	MADISON	34.718472	-86.787028
110056125241	SAGEBROOK SUBDIVISION	Non-Major	HARVEST	34.83069	-86.73211
110056124670	SHELLBOURNE PARK	Non-Major	GURLEY	34.81452	-86.45435
110043756708	RFCU COUNTY LINE ROAD	Non-Major	MADISON	34.73355	-86.78634
110055106479	OLD COBBLESTONE SUBDIVISION	Non-Major	MADISON	34.68085	-86.81514
110055103150	NATIONAL BANK OF COMMERCE AT THE SHOPPES OF MADISON	Non-Major	MADISON	34.751111	-86.754864
110055104159	SOMERSET PH. 1-3	Non-Major	HUNTSVILLE	34.794444	-86.509722
110056398152	FRENCH FARMS VILLAGE APARTMENTS	Non-Major	ATHENS	34.785056	-86.960917
110043500832	PARK HAMPTON SUBDIVISION	Non-Major	HAMPTON COVE	34.67488	-86.4847
110044251608	PROPOSED EXON FUEL EXPRESS	Non-Major	ATHENS	34.764819	-86.86696
110054906214	STPAA-0053 (509) PS 461	Non-Major	HUNTSVILLE	34.794444	-86.67
110056995248	FAMILY DOLLAR - UNIVERSITY DRIVE, HUNTSVILLE, AL	Non-Major	HUNTSVILLE	34.736043	-86.609593
110054911280	GOVERNORS DRIVE PARK	Non-Major	HUNTSVILLE	34.719861	-86.577083
110042359088	THE WILLOWS AND NICKEL CREEK AT RIVER LANDING	Non-Major	HUNTSVILLE	34.6095	-86.7449
110002436105	MOSS LUMBER INDUSTRIES, INC.	Non-Major	GURLEY	34.69455	-86.3712
110020072856	JACOBS COVE PHASE IV	Non-Major	HUNTSVILLE	34.792222	-86.71
110010075186	ARDMORE WWTP	Non-Major	ARDMORE	34.985556	-86.852861
110009691495	CROSSCREEK SUBDIVISION WWTP	Non-Major	SOMERVILLE	34.459778	-86.796333
110020182826	LOW GAP ROAD AT HILL CREEK	Non-Major	NEW HOPE	34.574444	-86.401056
110006790605	STEIN OF ALABAMA LLC	Non-Major	DECATUR	34.653452	-87.076147
110020177574	BAY POINTE CONDOMINIUMS	Non-Major	ATHENS	34.777222	-87.220278
110003391204	SCHWARZE INDUSTRIES	Non-Major	HUNTSVILLE	34.78499	-86.53307
110010071368	DALLAS-LINCOLN WTP	Non-Major	HUNTSVILLE	34.74682	-86.582645
110032765728	NEW MARKET WW MGMT FACILITY	Non-Major	NEW MARKET	34.84886	-86.458173
110020189400	NEW HAVEN SUBDIVISION	Non-Major	AHTENS	34.803583	-86.987583
110022550425	BOJANGLES CHICKEN AND BISCUITS	Non-Major	ATHENS	34.784315	-86.94527
110020839280	NEW MORGAN COUNTY JAIL	Non-Major	DECATUR	34.605278	-86.985833
110020526411	SUN MEADOWS SUBDIVISION	Non-Major	HARTSELLE	34.454167	-86.8925

Registry ID	Name	Type	City	Latitude	Longitude
110042370868	FRIENDSHIP METHODIST CHURCH	Non-Major	ATHENS	34.798195	-87.001081
110043493724	THE PRESERVE AT LIMESTONE CREEK	Non-Major	MADISON	34.733603	-86.856667
110043495474	FIRST BAPTIST CHURCH OF ARAB	Non-Major	ARAB	34.322401	-86.496163
110043277370	CITY OF HUNTSVILLE OLD BIG COV	Non-Major	HUNTSVILLE	34.6891	-86.5015
110045476481	BRADFORD CREEK GREENWAY	Non-Major	MADISON	34.700605	-86.777766
110043503688	BORROW AREA 18	Non-Major	REDSTONE ARSENAL	34.595634	-86.589828
110046331055	ROCK CREEK PHASE 3 LOTS	Non-Major	MADISON	34.785478	-86.785647
110046322911	KELLY PLANTATION PHASE IV	Non-Major	HARVEST	34.83342	-86.72495
110055213291	PET CARE FACILITY	Non-Major	MADISON	34.67018	-86.75433
110055242438	BLAKE BOTTOM ROAD OVER INDIAN CREEK BRIDGE REPLACEMENT	Non-Major	HUNTSVILLE	34.786389	-86.712222
110055217162	WHITEHALL	Non-Major	MADISON	34.7378	-86.7417
110060353834	ARBORS AT RIVER LANDING	Non-Major	HUNTSVILLE	34.6174	-86.7536
110060356323	FREEMAN AVENUE SITE	Non-Major	ATHENS	34.789919	-86.955719
110062652446	THE ARBORS AT BROWNSFERRY CROSSING PHASE II AND PHASE I LOTS 30-32, 44,45, 58	Non-Major	MADISON	34.72506	-86.78982
110055620993	MATSUMOTO US TECHNOLOGIES, INC.	Non-Major	MADISON	34.69215	-86.76364
110025382869	SOURCE ONE	Non-Major	TANNER	34.633278	-86.955611
110020189106	FRANK HEREFORD ROAD	Non-Major	NEW MARKET	34.888667	-86.408833
110010095814	FOX RIDGE SUBDIVISION	Non-Major	CAPSHAW	34.766139	-86.820028
110033017401	UNITED PLATING INCORPORATED	Non-Major	HUNTSVILLE	34.78162	-86.53659
110020838664	HAMPTON COVE ATM	Non-Major	HUNTSVILLE	34.61374	-86.56733
110002447825	PPG INDUSTRIES INC.	Non-Major	HUNTSVILLE	34.77325	-86.53025
110062649987	RG 6500	Non-Major	HUNTSVILLE	34.6946	-86.678889
110034185478	MORRIS FARMS LANDFILL	Non-Major	HILLSBORO	34.703571	-87.201836
110046315992	LYNN HOLLADAY SITE# 2	Non-Major	MADISON	34.747958	-86.821595
110020402205	TIMBERWIND V	Non-Major	MADISON COUNTY	34.8925	-86.498333
110020126558	NEW CUT RD BRIDGE REPLACEMENT	Non-Major	HARTSELLE	34.398056	-87.021667
110009040821	WAVAHO OIL COMPANY-PRICEVILLE FACILITY	Non-Major	DECATUR	34.519191	-86.886829
110009039940	ARROW TERMINALS	Non-Major	DECATUR	34.647778	-87.081667
110044257764	SPRINGHILL MANOR SUBDIVISION	Non-Major	HUNTSVILLE	34.78119	-86.48311
110020182755	107 WEST DUBLIN DRIVE	Non-Major	MADISON	34.68	-86.754444
110057199124	CUMBERLAND CHURCH	Non-Major	HUNTSVILLE	34.73232	-86.58965
110020188982	FLINT MILL SECOND ADDITION	Non-Major	MADISON COUNTY	34.680583	-86.445778

Registry ID	Name	Type	City	Latitude	Longitude
110020531334	QUARRY WATER TREATMENT PLANT	Non-Major	MADISON	34.677222	-86.736667
110043271170	OLD RAILROAD BED PIT	Non-Major	HARVEST	34.809722	-86.776111
110029517271	RONNIE SCREWS FARM	Non-Major	BAILEYTON	34.304258	-86.661284
110043274836	A NORTHSIDE AUTO SALVAGE	Non-Major	HUNTSVILLE	34.77294	-86.57084
110056400210	TVA ATHENS - ARDMORE UPRATE	Non-Major	ELKMONT	34.94528	-86.87385
110010132285	J AND M CYLINDERS GASES INC	Non-Major	DECATUR	34.61303	-87.01189
110020180775	MADISON COUNTY EXEC AIRPORT	Non-Major	MERIDIANVILL E	34.870556	-86.555556
110037574817	REED CONTRACTING SERVICES	Non-Major	DECATUR	34.561213	-86.98597
110020384831	TRINITY BAPTIST CHURCH	Non-Major	TRINITY	34.58925	-87.09075
110054113936	YATES INDUSTRIES	Non-Major	DECATUR	34.603667	-87.0377
110044244831	SPRING HILL SUITES	Non-Major	HUNTSVILLE	34.74881	-86.69351
110054908356	RSA BUILDING 5431	Non-Major	REDSTONE ARSENAL	34.640383	-86.63453
110000865127	PARKER HANNIFIN CORP	Non-Major	HUNTSVILLE	34.681399	-86.60694
110007348405	DECATUR ENERGY CENTER, LLC	Non-Major	DECATUR	34.626864	-87.022204
110027990547	REDSTONE BLDG 5565	Non-Major	REDSTONE ARSENAL	34.631389	-86.636111
110010126274	BFI WASTE SERVICES LLC	Non-Major	HUNTSVILLE	34.679056	-86.606371
110010102067	DEANS AUTO PARTS CO.	Non-Major	LACEYS SPRING	34.541549	-86.587799
110020393590	POTTERS MILL SUBDIVISION	Non-Major	MADISON	34.74293	-86.714531
110025360810	MING ENTERPRISES	Non-Major	ATHENS	34.803471	-86.970989
110020726419	HOLMES DRAKE ROAD BRIDGE	Non-Major	EVA	34.330278	-86.844167
110020126157	MCCULLEY MANOR SUBDIVISION	Non-Major	CAPSHAW	34.770278	-86.86
110020186706	FUTURITY DOWNS PHASE III	Non-Major	MERIDIANVILL E	34.86075	-86.597944
110011380576	MARTIN TRANSPORT	Non-Major	DECATUR	34.5431	-86.9804
110020185841	CARRINGTON PHASE I	Non-Major	MOONTOWN	34.638056	-86.484167
110020129608	HARVEST SPRINGS SUBDIVISION	Non-Major	MADISON	34.811667	-86.774167
110044258406	BALCH ROAD OVER KNOX CREEK BRIDGE REPLACEMENT	Non-Major	MADISON	34.757222	-86.7675
110043267844	MADISON CO COMM WINCHESTER RD	Non-Major	HUNTSVILLE	34.7965	-86.5392
110042370751	HUNTSVILLE EMERGENCY MEDICAL	Non-Major	MADISON	34.744217	-86.765318
110043756842	PARK HILL SUBDIVISION	Non-Major	HARVEST	34.77032	-86.79074
110043754675	ATHENS BOE	Non-Major	ATHENS	34.807594	-86.950919
110044876710	HUNTSVILLE BEHAVIORAL HEALTHCARE CENTER	Non-Major	HUNTSVILLE	34.75353	-86.66007
110045514118	PROPOSED RESTAURANTS/BANKS	Non-Major	HUNTSVILLE	34.744444	-86.601389

Registry ID	Name	Type	City	Latitude	Longitude
110045515420	<u>JONES ROAD PUMP STATION AND EAST FORCE MAIN</u>	Non-Major	ATHENS	34.798889	-86.85
110046328997	<u>SANCTUARY COVE PHASE 5</u>	Non-Major	HUNTSVILLE	34.626658	-86.48825
110046293408	<u>IDB REAL ESTATE</u>	Non-Major	DECATUR	34.619711	-87.055529
110055361601	<u>THE SPRINGS AT MADISON</u>	Non-Major	MADISON	34.692222	-86.779722
110055361095	<u>THE BRIDGES IN RESEARCH PARK</u>	Non-Major	HUNTSVILLE	34.71011	-86.68494
110055360559	<u>YARBROUGH FARMS SUBDIVISION LOTS PHASE II</u>	Non-Major	HARVEST	34.83348	-86.78525
110055215645	<u>SOMERVILLE WASTEWATER COLLECTION</u>	Non-Major	SOMERVILLE	34.449403	-86.761633
110055214628	<u>INSPIRATION ON GREEN MOUNTAIN</u>	Non-Major	HUNTSVILLE	34.612222	-86.516667
110055479815	<u>FARLEY FARM POND</u>	Non-Major	HUNTSVILLE	34.602058	-86.566044
110059706803	<u>RIVERS LANDING SUBDIVISION</u>	Non-Major	TRIANA	34.60231	-86.73644
110062651483	<u>CHURCH STREET</u>	Non-Major	HUNTSVILLE	34.73295	-86.590075
110062650723	<u>SHADOW MOUNTAIN LOTS</u>	Non-Major	DECATUR	34.512	-86.89526
110045478700	<u>DIRT PIT</u>	Non-Major	ATHENS	34.771583	-87.0962
110043761514	<u>BRIDGEMILL SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.57815	-86.51267
110042359266	<u>FRIEDRICH POULTRY FARM</u>	Non-Major	FALKVILLE	34.31615	-86.82033
110038857519	<u>TELEDYNE BROWN ENGINEERING INC PLANT 3</u>	Non-Major	TANNER	34.639063	-86.900534
110054894441	<u>NORTH ALABAMA LINE AND RELATED FACILITIES</u>	Non-Major	COUNTYWIDE	34.356944	-86.899444
110057196127	<u>PROPOSED QUALTECH</u>	Non-Major	HUNTSVILLE	34.744083	-86.689333
110009123395	<u>GURLEY WWTP</u>	Non-Major	GURLEY	34.6956	-86.41727
110045478844	<u>VALLEYBROOK SUBDIVISION</u>	Non-Major	HUNTSVILLE	34.80628	-86.57023
110045477523	<u>ARAB EXPRESS CAR WASH</u>	Non-Major	ARAB	34.343249	-86.501856
110012756035	<u>SOUTHEASTERN FREIGHT LINES INC</u>	Non-Major	MADISON	34.634743	-86.844013
110020126763	<u>STEEGER ROAD SCHOOL</u>	Non-Major	MERIDIANVILLE	34.875861	-86.570167
110020133611	<u>BIBB GARRETT RD IMPROVEMENTS</u>	Non-Major	LIMESTONE COUNTY	34.642222	-86.893889
110054132121	<u>FOREST MEADOW PHASE I AND II</u>	Non-Major	HUNTSVILLE	34.639827	-86.730396
110020129485	<u>HERITAGE PROVENCE PHASE FOUR</u>	Non-Major	HUNTSVILLE	34.731944	-86.793333
110055361692	<u>GEE'S DIRT PIT</u>	Non-Major	TANNER	34.745894	-86.95625
110045476640	<u>OAK HILL SUBDIVISION</u>	Non-Major	ARDMORE	34.973889	-86.819444
110043503401	<u>BRIGHTON PARK</u>	Non-Major	MADISON	34.6981	-86.7978
110020424842	<u>NEKTAR THERAPEUTICS</u>	Non-Major	HUNTSVILLE	34.745176	-86.596862
110033039129	<u>ARAB CITY LANDFILL</u>	Non-Major	ARAB	34.332	-86.4894
110043507185	<u>BARKLEY BRIDGE INTERCEPTOR SEWER</u>	Non-Major	HARTSELLE	34.409722	-86.940278
110062653588	<u>ROBOTICS TECHNOLOGY PARK</u>	Non-Major	TANNER	34.652014	-86.950664

Registry ID	Name	Type	City	Latitude	Longitude
110054113339	RSA BUILDINGS 3458 AND 3459	Non-Major	REDSTONE ARSENAL	34.679816	-86.63535
110000367479	GE CO	Non-Major	DECATUR	34.589904	-86.950879
110020060333	WINDSOR PARKE PHASE ONE	Non-Major	MADISON	34.722222	-86.768333
110055621313	HYPES CONST LLC	Unpermitted	HUNTSVILLE	34.63979	-86.73503
110055620671	PRAKASH DARJI	Unpermitted	HUNTSVILLE	34.61425	-86.54542
110062656451	URBAN AUTO	Unpermitted	HUNTSVILLE	34.82401	-86.47341
110063878530	LEGACY SOUTHERN HOMES LLC	Unpermitted	HARVEST	34.79815	-86.76464
110054902129	GUS KING PROPERTY	Unpermitted	UNION GROVE	34.38796	-86.471818
110055097176	J&D AUTO SALES	Unpermitted	ARDMORE	34.983627	-86.810234
110054108595	TWICKENHAM VILLAGE LOT 2	Unpermitted	HUNTSVILLE	34.67946	-86.51464
110064100761	MARK HARRIS HOMES LLC	Unpermitted	HUNTSVILLE	34.79022	-86.51241
110044241576	QUINTON THOMPSON PROPERTY	Unpermitted	HARVEST	34.79285	-86.78461
110054128181	TRACY HALL	Unpermitted	HUNTSVILLE	34.78214	-86.50972
110045475810	AL HERITAGE HOMES ELM RIDGE	Unpermitted	HUNTSVILLE	34.78049	-86.66414
110059803100	PEARCE CONST CO - YULISTA WARE	Unpermitted	MERIDIANVILLE	34.8544	-86.55486
110044271267	JOE HILLIS PIT	Unpermitted	GURLEY	34.62282	-86.41343
110054118628	SARAH TILLERY	Unpermitted	ARDMORE	34.95189	-86.77474
110044263025	BARRETT UPHOLSTERY AND REFIN	Unpermitted	DECATUR	34.60889	-86.98791
110045474358	CAVE SPRING IMPOUNDMENT	Unpermitted	DECATUR	34.54502	-86.85382
110054905901	NEW CASTLE DEV INC GREENWAY	Unpermitted	MADISON	34.68771	-86.75654
110054906045	HAGEN HOMES	Unpermitted	HARTSELLE	34.406771	-86.930059
110054103448	JOSEPH NIX PROPERTY	Unpermitted	ROGERSVILLE	34.833921	-87.355663
110056122299	JENO AUTO RECYCLING	Unpermitted	HAZEL GREEN	34.94751	-86.64377
110015916311	UNITED PRINTED CIRCUITS	Unpermitted	HUNTSVILLE	34.75306	-86.64328
110054125781	RODNEY HOGAN	Unpermitted	VINEMONT	34.26469	-86.9038
110046296799	TONY ROBERTS AUTO REPAIR	Unpermitted	ELKMONT	34.93206	-86.9283
110054128207	CB&S BANK	Unpermitted	HUNTSVILLE	34.72663	-86.58304
110054136252	QUEEN KLEEN	Unpermitted	HUNTSVILLE	34.80942	-86.51103
110054108602	CRESTPARK 2ND EDITION LOT 18	Unpermitted	HUNTSVILLE	34.67463	-86.51766
110054901512	RED LEAF LAND LLC	Unpermitted	HUNTSVILLE	34.72326	-86.54046
110054108443	WHITT DAIRY FARM	Unpermitted	HUNTSVILLE	34.69916	-86.62033
110054901816	WESLEY KIRBY TOWING & GARAGE	Unpermitted	MOULTON	34.490489	-87.159876
110054906134	DR HORTON LEGACY OF MONROVIA L	Unpermitted	HUNTSVILLE	34.80108	-86.72426
110054125807	ZANE HILL	Unpermitted	VINEMONT	34.25485	-86.85101

Registry ID	Name	Type	City	Latitude	Longitude
110054126012	RANDY JOHNSON FARM	Unpermitted	DANVILLE	34.383057	-87.126934
110054125736	WHEELER DIRT PIT	Unpermitted	HUNTSVILLE	34.779909	-86.51184
110054108586	CUMBERLAND ESTATES LOT 9	Unpermitted	HUNTSVILLE	34.6648	-86.5127
110054101280	BRAMLETT AUTOMOTIVE BUICK GM	Unpermitted	DECATUR	34.546445	-86.975023
110054103723	LAWRENCE DEV MCKEE RD SITE	Unpermitted	HARVEST	34.882314	-86.749175
110055187756	BANCORPSOUTH	Unpermitted	HUNTSVILLE	34.72555	-86.58221
110056342783	GEMSTONE FOODS LLC	Unpermitted	DECATUR	34.60468	-86.97835
110063020813	ROWE HAULING ANDEXC BORROW PIT	Unpermitted	DANVILLE	34.37094	-87.02235
110063020895	COVES OF CROOKED CREEK	Unpermitted	MERIDIANVILLE	34.85487	-86.57479
110059803823	UNKNOWN9784	Unpermitted	HUNTSVILLE	34.69078	-86.59993
110058280827	PEE WEES RECYCLING	Unpermitted	SOMERVILLE	34.465789	-86.709944
110045475776	FRANKLIN PURSER	Unpermitted	ARAB	34.343275	-86.461509
110003034993	BK MANUFACTURING INC	Unpermitted	ARAB	34.346711	-86.448261
110046296986	ISBELL READY MIX MADISON	Unpermitted	MADISON	34.743441	-86.796326
110006033032	BOBBY LANG PONTIAC INC	Unpermitted	DECATUR	34.5463	-86.9738
110060361282	DECATUR UTILITIES WWTP	Unpermitted	DECATUR	34.62063	-86.99733
110060361237	LAUREN PRESERVE	Unpermitted	MADISON	34.70832	-86.76884
110060361193	MASSEY METAL	Unpermitted	SOMERVILLE	34.522614	-86.751763
110060361905	HUNTSVILLE CITY OF CHASE WWTP	Unpermitted	HUNTSVILLE	34.78591	-86.48303
110060358624	72 & COUNTY LINE UTILITIES	Unpermitted	HUNTSVILLE	34.670754	-86.597313
110062653409	BROWNSFERRY CROSSING	Unpermitted	HUNTSVILLE	34.71148	-86.58775
110062653427	SCOTT ROCK	Unpermitted	OWENS CROSS ROADS	34.61682	-86.45008
110062652632	SHADOW MOUNTAIN DEV	Unpermitted	DECATUR	34.512	-86.89526
110063214551	BILL & DEANNA BRITT	Unpermitted	HARTSELLE	34.41554	-86.93839
110056342845	MULLINS BEND	Unpermitted	HAZEL GREEN	34.8796	-86.5181
110062656638	TOWER HILL LLC	Unpermitted	HUNTSVILLE	34.7257	-86.58785
110010075239	NEW HOPE LAGOON	Unpermitted	NEW HOPE	34.530056	-86.388639
110045484515	BEDII OR BRIAN OKAY HWY 72	Unpermitted	ATHENS	34.751	-86.8158
110062650983	THE CLAYTON GRP - FMC TRANQUIL	Unpermitted	HUNTSVILLE	34.856617	-86.572208
110043732342	OUTPARCEL 10	Unpermitted	HUNTSVILLE	34.6775	-86.55021
110059782971	SMART LIVING - JEFF RD RESIDEN	Unpermitted	HUNTSVILLE	34.7905	-86.71393
110059783006	LEDGESTONE DEV LLC	Unpermitted	HUNTSVILLE	34.77	-86.503056
110044273639	RBC BANK - LAKE FOREST	Unpermitted	HUNTSVILLE	34.6465	-86.7328
110044273906	BRELAND HOMES PARK HILL SD	Unpermitted	HARVEST	34.77032	-86.79074

Registry ID	Name	Type	City	Latitude	Longitude
110059783202	LEXINGTON LAGOON AND SPRAYFLD	Unpermitted	LEXINGTON	34.9625	-87.3506
110058927363	LOONEY ROAD DEV LLC	Unpermitted	ATHENS	34.8233	-86.9325
110010381096	SHELBY CONTRACTING CO	Unpermitted	TRINITY	34.621778	-87.079278
110043264151	BARRY DUNLAP AIRPORT ROAD PIT	Unpermitted	LACEYS SPRING	34.54466	-86.604214
110001934211	SPRING BRANCH WASTEWATER TREATMENT PLANT	Unpermitted	HUNTSVILLE	34.670861	-86.597917
110059803869	NTI INVEST - MAPCO - HOMER NAN	Unpermitted	HUNTSVILLE	34.817778	-86.491667
110059803119	CREWS INC - FREEMAN AVE SITE	Unpermitted	ATHENS	34.789919	-86.955719
110063021787	OLD TOWN INVESTMENTS LLC	Unpermitted	HUNTSVILLE	34.687778	-86.717159
110059803173	NEW HOPE TELEPHONE CO OP	Unpermitted	OWENS CROSS ROADS	34.496283	-86.388133
110058927372	DIXIE METAL CRAFT CORP	Unpermitted	HAZEL GREEN	34.92089	-86.5723
110056121094	COVES OF CROOKED CREEK 1046	Unpermitted	HAMPTON COVE	34.66924	-86.47381
110055216742	VTS HOMES	Unpermitted	HUNTSVILLE	34.75398	-86.69342
110055097372	JOHN HAYS BORROW AREA	Unpermitted	HUNTSVILLE	34.646218	-86.56695
110054137796	ROCK CREEK SUBDIVISION	Unpermitted	MADISON	34.785478	-86.785647
110060361273	FOXFIELD	Unpermitted	MADISON	34.75582	-86.73055
110062651278	LIMESTONE CO LUCY BRANCH WWTP	Unpermitted	ATHENS	34.77782	-87.22579
110062651250	TELEDYNE BROWN ENG PLANT 2	Unpermitted	TANNER	34.641305	-86.900739
110054103475	JOHN JOHNSON RD DEVELOPMENT	Unpermitted	TRINITY	34.60783	-87.07912
110055248414	I LOVE SUSHI II RESTAURANT	Unpermitted	MADISON	34.747972	-86.766667
110054125790	MICHEAL STAUDT POND	Unpermitted	HARTSELLE	34.44394	-86.96672
110056121245	PRICEVILLE CONTRACTNEW CTR PIT	Unpermitted	HARTSELLE	34.477833	-86.854733
110044244092	TOMMY LIVINGSTON PROPERTY	Unpermitted	DECATUR	34.506488	-86.869784
110054114926	ARYS BODY SHOP	Unpermitted	UNION GROVE	34.46567	-86.55686
110032613303	CITY OF HARTSELLE	Unpermitted	HARTSELLE	34.44457	-86.93518
110044272505	RODGER SHABLE	Unpermitted	DECATUR	34.5723	-86.99136
110056121076	CAVE SPRINGS COVE	Unpermitted	DECATUR	34.534852	-86.872706
110044272694	PAUL CAUSEY PROPERTY	Unpermitted	HAZEL GREEN	34.96887	-86.67736
110044273782	ROCK CREEK SD	Unpermitted	HUNTSVILLE	34.70186	-86.5864
110059783024	HARTSELLE SHOPPES	Unpermitted	HARTSELLE	34.43325	-86.93726
110059782962	LEE BLDRS - HILEY AUTO GRP AUD	Unpermitted	HUNTSVILLE	34.75363	-86.70808
110055620895	STONERIDGE HOMES INC MCMULLEN	Unpermitted	HUNTSVILLE	34.78049	-86.66414
110054132862	MIKE JONES	Unpermitted	HARVEST	34.83785	-86.70588
110044246606	OLD RAILROAD BED RD PIT	Unpermitted	MADISON	34.73718	-86.77844
110055178695	SAGEBROOK	Unpermitted	MADISON	34.8351	-86.7323

Registry ID	Name	Type	City	Latitude	Longitude
110063601909	<u>DON THOMAS AUTO SALES INC</u>	Unpermitted	ATHENS	34.760118	-86.83722
110054108568	<u>CUMBERLAND ESTATES LOT 10</u>	Unpermitted	HUNTSVILLE	34.67528	-86.51776
110056999770	<u>BUBBAS EXCAVATION LLC</u>	Unpermitted	LACEYS SPRING	34.555	-86.565556
110063713487	<u>BRINDLEE MOUNTAIN VOLUNTEER</u>	Unpermitted	UNION GROVE	34.470039	-86.567262
110000367950	<u>MEADOW GOLD DAIRIES</u>	Unpermitted	HUNTSVILLE	34.72794	-86.59288
110054901745	<u>REED CONTRACTING OPERATIONS</u>	Unpermitted	HUNTSVILLE	34.77449	-86.66987
110063214454	<u>SHERMAN INDUSTRIES DECATUR</u>	Unpermitted	DECATUR	34.605054	-87.054165
110055187845	<u>WILLOWBROOK AT MADISON</u>	Unpermitted	HUNTSVILLE	34.66905	-86.5392
110054115346	<u>WILLIAM RAY DAVIS PROPERTY</u>	Unpermitted	NEW HOPE	34.50305	-86.38464
110044244074	<u>DARREN SMITH PROPERTY</u>	Unpermitted	EVA	34.3694	-86.66634
110044244083	<u>DONALD TROPSE</u>	Unpermitted	SOMERVILLE	34.4987	-86.72006
110044241503	<u>DYNAMIC AUTO SALVAGE</u>	Unpermitted	HUNTSVILLE	34.79693	-86.50067
110044255766	<u>B & B RECYCLING</u>	Unpermitted	LACEYS SPRING	34.503011	-86.635515
110063713548	<u>REED CONTR WINCHESTER RD PIT</u>	Unpermitted	HUNTSVILLE	34.8178	-86.49147
110054113482	<u>BUD WHORLEY</u>	Unpermitted	GURLEY	34.773643	-86.546246
110054136109	<u>UNION HILL DEV INC</u>	Unpermitted	SOMERVILLE	34.447449	-86.61956
110044256113	<u>EL SLATON PIT</u>	Unpermitted	TRINITY	34.5917	-87.1428
110044251010	<u>ROCK CREEK LOTS</u>	Unpermitted	HUNTSVILLE	34.70276	-86.55387
110044262918	<u>SILAS ALEXANDER PIT</u>	Unpermitted	TRINITY	34.58569	-87.15827
110045480109	<u>RANDY JOHNSON FARM</u>	Unpermitted	DANVILLE	34.383057	-87.126934
110063878521	<u>VILLAS AT RESEARCH PARK</u>	Unpermitted	MADISON	34.72548	-86.73469



Wheeler National Wildlife Refuge

NPDES Permit Facilities and Impaired Waters

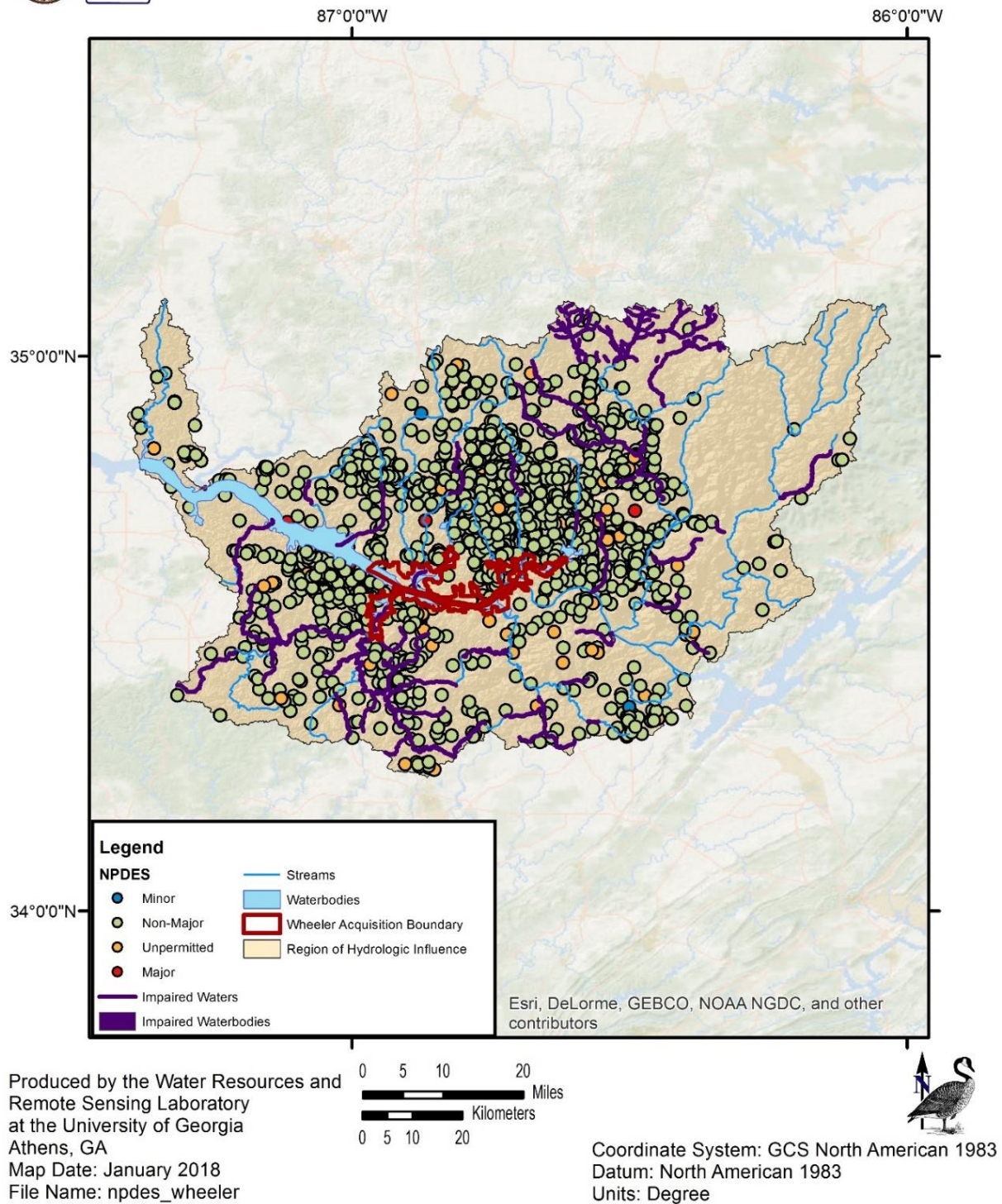


Figure A- 7. All NPDES facilities and impaired waters in the RHI of Wheeler NWR. (EPA, 2015, 2016).

