



DRINKING WATER BRANCH

FY2019 ANNUAL REPORT

APRIL 2020

Table of Contents

Program Management and Administration	3
Public Participation	3
Permitting Activities	4
Water System Inspection Activities	5
SDWIS/State Activities	6
Drinking Water Security Program.....	6
Capacity Development Program	7
Consumer Confidence Report Program	7
Potability Certificate Program.....	7
Bottled Water Program.....	8
Source Water Assessment Program (SWAP) – Surface Water Sources.....	8
Source Water Assessment Program (SWAP) – Groundwater Sources.....	9
Wellhead Protection Program	9
Area Wide Optimization Program (AWOP) Participation.....	10
Enforcement Activities.....	11
Bacteriological Monitoring and Compliance	11
Chemical Monitoring and Compliance	12
Lead and Copper Monitoring Program	13
Disinfection Byproduct Monitoring and Compliance.....	14
Laboratory Certification Program	14
Drinking Water State Revolving Fund Activities	15
Operator Certification Program.....	15
Response to Natural/Man-Made Disasters	15
APPENDICES.....	16

Location of Tables

Table 1: Operating Permit Summary.....	4
Table 2: Construction Permit Summary.....	5
Table 3: Enforcement Actions	11

**FY2019 ANNUAL REPORT
DRINKING WATER BRANCH-WATER DIVISION
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

Program Management and Administration

The Drinking Water Branch currently employs eight environmental engineers, one part-time/retired environmental engineer, six environmental scientists, two administrative assistants, and three supervisors.

ADEM's Drinking Water Branch regulates "public water systems." There are two categories of public water systems regulated by the Drinking Water Branch: community water systems, and non-community water systems.

Community water systems serve the same people year-round. Examples of community water systems include water systems owned and operated by cities, towns, counties, and mobile home parks. At the end of FY2019, there were 510 community water systems in Alabama.

Non-community water systems are water systems that serve the public but do not serve the same people year-round. There are two types of non-community water systems: non-transient and transient. A non-transient non-community water system is a public water system that regularly serves at least 25 of the same individuals at least six months per year. Examples of non-transient non-community water systems include schools and industries that have their own water supply system. At the end of FY2019, there were 22 non-transient non-community water systems in Alabama. A transient non-community water system serves the public, but not the same individuals, at least 60 days per year. Examples of transient non-community water systems include rest areas and campgrounds that have their own water supply system. At the end of FY2019, there were 47 transient non-community water systems in Alabama.

During FY2019, the Drinking Water Branch conducted 697 site visits, including 582 inspections, 22 technical assistance visits, and 93 sampling visits. The Branch issued, renewed, or modified 69 permits in FY2019. There were 9 Notices of Violation (NOV) and 7 administrative/consent orders issued in FY2019.

Public Participation

Branch staff continued to be very active in numerous water industry organizations, including making presentations and attending the following:

- Alabama Dept. of Economic and Community Affairs Meetings,
- Community Development Block Grant (CDBG) Project Meetings,

- Alabama Rural Water Association (ARWA) Annual Conference,
- ARWA District Meetings (Board Member Training),
- AWPCA Annual Conference
- American Water Works Assoc. (AWWA) Alabama/Mississippi Section Annual Conference,
- ADEM Surface Water Meeting,
- AWWA Teleconferences,
- EPA Multi-Regional Capacity Development & Operator Certification Workshop,
- Association of State Drinking Water Administrators (ASDWA) Spring Conference,
- ASDWA Annual Conference, and

Permitting Activities

In order to operate, a public water system is required to have a valid permit issued by ADEM. Community water system permits are valid for six years and non-community water system permits are valid for ten years. Before a permit can be considered for renewal, an application package (application, fee, and any additional information required) must be submitted to ADEM for review and processing. The district inspector responsible for ensuring a water system complies with Department regulations reviews the information on the application and in the system files before issuing the renewal permit. Special conditions are included in some permits to correct system deficiencies, to address areas of non-compliance, or to place requirements on a system that are not specifically addressed in the permit general conditions. For water purchased from other public water systems, copies of the purchase contracts are required as a part of the application process to ensure that each purchase system has a legal contract for an adequate water supply.

In FY2019, operating permits were issued/renewed for 13 water systems, and 14 permit modifications were issued for changes in ownership, consolidation of water systems, facility name changes, or other changes. Table 1 contains the breakdown of Operating Permit activity.

**TABLE 1
OPERATING PERMIT SUMMARY**

Type	Community	Transient Non- Community	Non Transient Non- Community	Total
Water System Permit Renewals	10	0	3	13
New Water Systems Activated	0	3	0	3
Water Systems Inactivated	3	2	2	7

Public water systems must obtain a permit prior to the start of construction on any major addition (e.g. storage tanks, booster pump stations, new sources, and significant water main additions). A satisfactory application package (permit application, fee, and plans/specifications stamped by a professional engineer) must be received before ADEM will issue a construction permit. Upon

issuance of the permit, the project information is logged into a database and its progress is tracked through quarterly (at a minimum) reports submitted by the water system. Staff engineers reviewed and issued 42 construction permits in FY2019.

Approval to place the permitted project into service is given after submittal of the required information. This information may include a project completion form with material quantities and final costs, satisfactory bacteriological results, and pressure test results. An on-site final inspection of the new facilities is generally not required. Record drawings must be provided to ADEM within 30 days of the final inspection or completion on the project. A new water system becomes a regulated public water system when a compliance activation date is set and monitoring requirements are established. Table 2 lists public water system construction permit activities.

TABLE 2
CONSTRUCTION PERMIT SUMMARY

Facility/Equipment	Permitted for Construction	Placed into Service
Miles of Water Main	190.5	26.6
Customer Services (New)	104	50
Fire Hydrants	301	45
Wells and Capacity (GPM)	10 @ 7,931 combined	3 @ 1,300 combined
New Water Treatment Plants (MGD)	1 @ 0.700	N/A
Additions to WT Plants	N/A	9.2 gpm/ft ² GAC
Tanks and Capacity (MG)	5 @ 3.45 combined	1 @ 1.0 combined
Final Project Cost	N/A	\$35,062,987.74

Water System Inspection Activities

The Branch staff inspects all community and non-community systems on an annual basis. At a minimum, every third year a sanitary survey is conducted on each water system in lieu of an annual inspection. The goal of these inspections is to review the required documentation maintained at the Department and water system office, discuss system operation and maintenance policies, check chlorine residuals, pH, and iron content, and visually inspect the system facilities to confirm proper operation and maintenance. During these inspections, the Branch staff offers technical assistance to water system personnel to improve system operation. Issues such as deteriorating equipment, inadequate water storage tank maintenance, proposed or new regulations, public relations, operator certification, water conservation plans, bacteriological/chemical monitoring plans, monitoring/reporting violations, and proposed or ongoing construction projects are frequently discussed. Additional visits to water systems are performed to finalize construction projects, address customer complaints and monitoring violations, conduct susceptibility analysis of sources, and attend board/council meetings.

A total of 582 inspections (308 sanitary surveys and 274 annual inspections) were conducted in FY2019. Appendix A lists water system inspection activities.

SDWIS/State Activities

In FY2019, the Drinking Water Branch continued to use its database of record, SDWIS/STATE Web Release 3.32. CDS continued to be utilized for automated compliance determination and sample tracking. A Drinking Water Branch representative attended the 2019 ASDWA/EPA Data Management Users Conference in Atlanta, GA during July, 2019 to receive continuing education regarding the SDWIS/STATE program. It was announced in Atlanta that SDWIS Prime was being put on hold due to security issues. The Branch continued to report Drinking Water Branch Data to EPA using FedRep, which is part of the Modernized Data Flow System implemented by EPA. Data was reported via XML format using FedRep.

The Information Systems Branch is continuing to maintain the electronic data reporting system (eDWRs) for the Drinking Water Branch. This system is used by certified laboratories and water systems to submit data electronically via XML. The health department and all laboratories are using eDWRs to submit their data in XML format. Data submitted via XML is directly uploaded into SDWIS/STATE.

Drinking Water Security Program

The protection of public infrastructure is a cornerstone of Alabama's Homeland Security program, especially public drinking water supplies; therefore, the Drinking Water Branch assists water systems to ensure the safety of Alabama's drinking water supply.

The Drinking Water Branch continues to conduct security inspections and assist drinking water utilities with emergency response, as well as provide technical assistance and information to utilities, consultants, Department staff, and the general public.

The Branch is currently drafting a Standard Operating Procedure (SOP) designed to ensure prompt and efficient responses between the utility, public health personnel, law enforcement, medical, and other emergency responders in the event of an intentional, natural, or terrorist act involving public water systems.

To more efficiently communicate with the drinking water utilities in the State, the Branch maintains a communications tool called GroupCast, which is used to send reporting reminders and distribute information in times of emergencies.

Capacity Development Program

The Safe Drinking Water Act (SDWA) requires states to develop a Water System Capacity Development Strategy and Implementation Plan. The basis of ADEM's plan is to limit the development of non-viable systems. Procedures established by this plan were incorporated into a Capacity Development Strategy which has been utilized to reduce the number of systems that do not have the technical, financial, or managerial ability to operate in accordance with state and federal requirements. An aspect of this plan involves partnering with the ARWA.

In FY2019, ADEM contracted with the ARWA for their assistance to water systems that were having difficulty in complying with regulations and needed significant improvement in their technical, managerial, and financial capacity. ARWA aided two systems' financial and managerial capacity by correcting deficiencies within their billing systems and providing assistance to address high employee turnover. ARWA also provided assistance to eight other systems where specific concerns were noted during inspections. The Drinking Water Branch continues to work with these systems to correct any deficiencies noted by ARWA that have yet to be resolved.

Also for FY2019, ADEM prepared the Annual Capacity Development Implementation Report and submitted it to EPA. This report profiled The Department's work with public drinking water systems to improve their technical, financial, and managerial abilities.

Consumer Confidence Report Program

The 1996 amendments to the Safe Drinking Water Act require community water systems to provide an annual Consumer Confidence Report (CCR) to their customers. The content of the CCR and delivery method is specified in ADEM's Drinking Water regulations (ADEM Admin. Code 335-7-14). The CCR includes information for each calendar year and is delivered to customers and the Drinking Water Branch no later than July 1 of the following year. In addition to the copy of the CCR supplied to the Branch, a water system must also certify by July 1 the CCR delivery method met ADEM's Drinking Water regulations. This Annual Report covers the calendar year 2018 CCRs, which were due by July 1, 2019. Of the 510 water systems required to complete a CCR and Certification Form, three (3) systems did not meet the 2018 CCR requirements and were issued administrative orders, with financial penalties. All three water systems submitted complete CCRs after the deadline, but before the close of the year.

Potability Certificate Program

There is an agreement with the US Department of Agriculture (USDA) and the Alabama Department of Public Health (ADPH) for ADEM to issue water potability certificates to meat processing facilities, ice producing facilities and dairies, which have their own water processing source. If a facility uses process water from a permitted public water system, the operating permit for the PWS is accepted in lieu of issuing a potability certificate. These facilities are required to submit biannual bacteriological results and maintain a free chlorine residual of one part per million

(ppm). Based on the review of these bacteriological results, renewal of the certificate is either granted or denied. In FY2019, two potability certificates were renewed.

Bottled Water Program

The Drinking Water Branch is responsible for approving bottled water sources and maintains a database of approved sources in the state. An informational package is mailed to persons interested in the development of a bottled water source. This package lists the steps needed for approval of a bottled water source. Treatment of the source is based on its raw water quality. A Branch representative conducts an on-site inspection of the source and its treatment facility and issues an initial approval or non-approval of the bottled water source. After approval of a source, the Food and Drug Administration, through an agreement with ADPH, is responsible for the regulation of all bottled water facilities.

Currently, there are five approved sources of bottled water in Alabama. These five sources include two municipal springs and three private wells.

Source Water Assessment Program (SWAP) – Surface Water Sources

The 1996 amendments to the SDWA require a SWAP be completed for “surface” sources. Under the amendments, a surface source was to include sources traditionally classified as such – rivers, creeks, lakes, as well as other sources designated as Groundwater Under the Direct Influence of surface water (GUDI). Alabama has completed a SWAP for all permitted surface water sources. In FY2019, there were 81 water systems utilizing 121 active sources classified as surface water.

A surface water SWAP must be completed prior to issuing a permit to construct the intake at the source. A water system is required to review its SWAP prior to submitting its permit renewal application package (every six years for community and ten years for non-community water systems). The assessments are to be updated when there is a significant change in the contaminant inventory or susceptibility analysis. A completed SWAP for a surface water source must include the following:

- Delineation of the watershed,
- Contaminant source inventory,
- Susceptibility analysis of each possible contaminant source in the inventory,
- Contingency plan, and
- A public awareness requirement

The majority of potential contaminant sites within the source water assessment areas have been given a “low susceptibility” ranking. The main reason for these low rankings is that many of the raw water sources were designated for drinking water at the time of construction, and therefore, public use is controlled. The majority of potential contaminant sites stem from highway bridge crossings where vehicular traffic may be high but the potential for a “contamination event” is relatively low.

Source Water Assessment (SWAP) – Groundwater Sources

All public water supply systems with ground water sources have completed a SWAP for each of their existing sources. All water systems are required to update their SWAPs when applying for reissuance of their permits-to-furnish water. All new groundwater sources must have a completed SWAP, prior to using the source for potable water. A completed SWAP for a groundwater source must include the following:

- Delineation of the source water assessment area (SWAA),
- An inventory of the possible contaminant sources within the SWAA,
- A susceptibility analysis of each possible contaminant source in the inventory, and
- A public awareness requirement

When the SWAP requirements were initially required in February 2003, Alabama had a total of 414 public water supply systems that utilized one or more groundwater sources. These systems were required to complete a SWAP for their groundwater sources. The public water supply systems were categorized as follows:

- 310 Community Groundwater Systems
- 75 Non-Community Transient Groundwater Systems, and
- 29 Non-Community Non-Transient Groundwater Systems

Alabama received thirteen SWAPs for thirteen new or expanded groundwater sources in FY2019. Ten of these reports were submitted from existing public water systems. Three of these reports were submitted from new Transient Non-Community (TNC) water systems. SWAPs have been finalized for eleven of the new well sources. One SWAP was for a permit update. For the remaining groundwater source, the SWAP is currently in the process of being reviewed and finalized.

Wellhead Protection Program

The wellhead protection program is regulated through the Drinking Water regulations, but is administered by a staff member in ADEM's Groundwater Branch.

Underground storage tanks (UST) are potential significant sources of chemical contaminants in groundwater in Alabama. Approximately 194 UST compliance inspections were completed within wellhead protection areas. During FY2019, approximately 214 corrective action sites were located in designated wellhead protection areas or within one mile of public drinking water wells.

The 2019 Alabama UST Assessment and Remediation Conference was held on April 24-25, 2019 with over 140 attendees. The 2019 ADEM Annual Groundwater Conference was held on June 12 with approximately 163 attendees. The conference was a daylong agenda of presentations for environmental professionals, regulatory agencies, academia, and interested public.

The Groundwater Festival Program continues to be a part of the Wellhead Protection Program by providing a structured outreach and education event. It provides an avenue for utilities to become involved in and initiate drinking water education programs in their service area. ARWA, with input from ADEM, continues to maintain the Water Festival website. Water festival grant approvals were issued for 22 counties throughout Alabama. Each grant was issued in the amount of \$1,000. These festivals were held to educate students and citizens across the state about the wise use, conservation, and development of our natural resources including groundwater sourced drinking water and aquifer preservation. Volunteers from across the state participated in the events including ADEM personnel. Funding for these grants was made available through ADEM's Pollution Control Grant Fund.

Area Wide Optimization Program (AWOP) Participation

ADEM continued to be a proactive participant in the U.S. EPA Region 4 Area Wide Optimization Program (AWOP). 2019 marked the 22st year of ADEM's involvement in AWOP. AWOP is a program designed to optimize performance of water systems beyond regulatory limits to provide increased public health protection. The program sets goals for turbidity at surface water treatment plants, disinfection byproducts (DBP), chlorine residual, storage tanks and other parameters. The AWOP team then assists water systems in meeting these goals through various activities. Below is a list of activities conducted in FY2019.

- Each surface water engineer and inspector has made AWOP a priority for the systems in their district and incorporates AWOP principles into their daily activities. This includes discussions with water systems about AWOP goals during inspections. Additionally, two ground water engineers and two inspectors have participated in AWOP events in FY2019.
- ADEM held the 21st Annual Surface Water Meeting in October 2018. Approximately 300 individuals attended the one day meeting. At the meeting, 63 Optimization Awards were awarded to water treatment plants that meet the microbial optimization goals during calendar year 2017. These 63 WTPs provide water to approximately 2.5 million Alabamians.
- ADEM staff attended two Region 4 AWOP planning meetings and workshops during FY2019. The first was held November 2018 (Port Charlotte, FL) and the second was held March 2019 (Cherokee, NC). Additionally, ADEM staff attended the AWOP National Meeting that was held August 2019 in Cincinnati, OH.
- ADEM conducted three sessions of Distribution Performance Based Training during FY2018. The sessions were held on January 24, April 24 and August 27, 2019. The water systems in attendance were Scottsboro, Albertville, Jackson and Boaz.
- ADEM started a new series of Microbial Performance Based Training during FY2019. The first session was held on October 11, 2018

- The water systems in attendance were Athens, Dekalb-Jackson, Madison, and Shelby County. Three additional sessions have been completed in January, April and August 2019.
- ADEM participated in the Alabama Water Pollution Control Association’s Annual Short Course School in September 2019, which was held in Orange Beach, AL.
- In 2016, ADEM began tracking distribution system performance in relation to the DBP goals. Based upon the second Quarter 2019 data, 186 of 238 (78%) distribution systems on quarterly DBP monitoring met all the DBP goals.

Enforcement Activities

Drinking Water Branch enforcement activities are shown in Table 3. A total of 134 violation letters (e.g. – Maximum Contaminant Level (MCL) exceedances, Monitoring and Reporting violations, state (non-federal) violations, etc.) were mailed to water systems during FY2019.

TABLE 3
ENFORCEMENT ACTIONS

Enforcement Action	No.
Violation Letters	134
Compliance Meetings	0
Violation Follow-ups	0
Notices of Violation	9
Show Cause Hearings	3
Consent Orders	6
Unilateral Orders	1
Litigation Cases	0

Nine Notice of Violations (NOVs) were issued for systems incurring multiple violations over time or having multiple deficiencies at one time. One of the six consent orders issued included a financial penalty. Five orders were issued for various system operation and maintenance issues and two were issued for several Disinfection Byproduct monitoring violations. Three show cause meetings were held to allow a system to contest a proposed order’s findings of fact or the amount of its proposed fine. ADEM did not enter into any litigation during FY2019.

Bacteriological Monitoring and Compliance

On December 1, 2014, the Revised Total Coliform Rule went into effect in Alabama. There are two types of assessments in the rule. A Level One Assessment is required anytime a system collecting less than 40 compliance samples has more than one total coliform-positive in a month or a system collecting more than 40 compliance samples has more than five percent of their total

samples in a month coliform-positive. A Level Two Assessment is required when a system incurs an E. Coli MCL violation or has more than one Level One Assessment required in a rolling twelve-month period.

The following is a summary for FY2019:

- 510 community water systems were required to monitor monthly for bacteriological contaminants. No system incurred an E. Coli MCL violation. 23 systems were required to conduct a Level One Assessment, and no systems were required to conduct a Level Two Assessment (two Level One Assessments within a rolling 12 month period). Five systems incurred monitoring violations, with one system incurring more than one monitoring violation during FY2019.
- 95.69% of community water systems were in compliance with monitoring and reporting requirements, and 82.6% were in compliance with assessment standards or requirements. FY2019 compliance rates were lower than FY2018 for monitoring and reporting requirements and FY2019 compliance rates were lower than FY2018 for assessments.
- 23 Non-Transient Non-Community (NTNC) water systems were required to monitor for bacteriological contaminants each month they were providing potable water. No NTNC water system incurred an MCL or monitoring violation, and no systems were required to conduct an assessment.
- 100% of NTNC water system were in compliance with monitoring and reporting requirements.
- 46 Transient Non-Community (TNC) water systems were required to monitor for bacteriological contaminants each month they were providing potable water. No systems incurred E. Coli MCL violations. Two systems were required to conduct a Level One Assessment and one system was required to conduct a Level Two Assessment. One system incurred a monitoring violation during FY2019.
- 86.95% of Transient Non-Community systems were in compliance with monitoring and reporting requirements, and all systems were in compliance with assessment standards and requirements. FY 2019 compliance rates were lower than FY2018 for monitoring/reporting requirements and assessments.

Chemical Monitoring and Compliance

Chemical monitoring is scheduled based on the calendar year. Therefore, only a summary of the results for CY2019 will be included in this annual report. A complete report of chemical compliance data for CY 2019 will be included in the 2019 annual violations report which will be produced by June 2020.

The following is a summary for CY2019:

- 273 water systems monitored 673 different sources for inorganic contaminants. All water systems with sources were required to monitor for nitrates. No systems incurred an MCL violation for inorganic contaminants.

- 274 water systems monitored for volatile organic chemicals (VOCs). Of the 551 ground and surface sources analyzed during FY2019, 53 sources had detections for 16 different regulated VOCs. No systems incurred an MCL violation for VOCs.
- 214 water systems monitored for synthetic organic chemicals (SOCs). Of the 479 ground and surface sources analyzed for SOCs, 41 sources had detections for 11 different regulated SOCs. No systems incurred an MCL violation for SOCs in FY2019.
- 127 systems (74 surface and 53 ground water) were required to monitor for turbidity. In contrast to the other contaminants monitored for in this section, there is no MCL for turbidity. Turbidity above 0.3 mg/L in over 95% of the filtered water samples constitutes a ‘treatment technique’ violation. No system incurred a monitoring or treatment technique violation in FY2019.

Lead and Copper Monitoring Program

The Lead and Copper regulations were modified in 2009 requiring water systems that conduct monitoring to notify the sampled customer of their levels of lead and copper. This notification must also include the action levels, health effects of lead, and steps the customer can take to reduce the lead level in their drinking water. Water systems also must submit a report to ADEM anytime a new source or treatment is added or a major modification to an existing treatment is made. This report must detail any effect of this treatment change on lead and copper levels and must be approved by ADEM before the source or treatment is added or changed.

The Drinking Water Branch also has developed a process when a single sample exceeds the Lead or Copper compliance limit. When these compliance limits are exceeded, the laboratories are required to immediately report the results to ADEM. Drinking Water Branch personnel then contact the water system to discuss follow-up activities, which include informing the customer of the high level and requiring the system to resample. Each system due to monitor for Lead and Copper during the year is sent a reminder memo so they can begin preparation for the monitoring.

In FY2019, the Drinking Water Branch continued to ensure that the systems collecting samples followed their sampling plan and instituted follow-up procedures to ensure that samples were collected at the proper tiers. The Branch also undertook to ensure that systems with lead service lines were identified and sites with lead service lines were sampled properly.

A total of 223 water systems monitored for Lead and Copper in FY2019. The Mid Clarke Water System exceeded the copper action level and the East Lauderdale County Water Authority exceeded the lead action level. Water systems that exceed an action level must submit a corrosion control plan, conduct source water and water quality parameter monitoring, and return to monitoring every six months. In addition, systems that exceed the lead action level must provide their customers with lead and copper education materials.

A complete report of lead and copper compliance data for CY 2019 will be included in the 2019 annual violations report, which will be produced by June 2020.

Disinfection Byproduct Monitoring and Compliance

The Stage 2 Disinfection Byproduct Rule (Stage 2) monitoring began in January 2012. These regulations require all water systems to determine compliance by a locational running annual average. All community and NTNC water systems are required to monitor for disinfection byproducts (DBPs), which include total trihalomethanes (TTHM) and haloacetic acids (HAA5). One system incurred a MCL violation for HAA5s and nine systems incurred MCL violations for TTHMs. This was two less than the number of MCL violations for HAA5s and three more than the number of MCL violations that occurred for TTHMs that occurred in FY2018.

Seventeen water systems incurred monitoring violations for disinfection byproducts during FY2019. The primary reason for the increased number of disinfection byproduct monitoring violations in FY2019 was a failure to collect the samples in the proper week in the proper month. Also, because systems that incurred a quarterly monitoring violation continued to incur the violation for the next three quarters that the results would have used to determine compliance, ten systems incurred MCL violations during FY2019.

All water systems with high DBP levels are also required to conduct and submit an operation evaluation level (OEL) study. This study evaluates all aspects of system operation that might contribute to the high DBP levels.

All systems with a surface or GUDI source are required to monitor for total organic carbon (TOC). These systems were required to collect raw water and a combined filtered water sample each month. TOC results from each plant are evaluated to determine if the plant is meeting TOC removal requirements or to determine if monitoring could be reduced to quarterly for TOCs. No water systems incurred treatment technique violations for failure to meet TOC removal requirements and two water systems incurred monitoring violations.

23 water systems that feed chlorine dioxide are required to monitor for chlorites. No water system incurred a monitoring or maximum contaminant level violation for chlorites in FY2019.

Laboratory Certification Program

All chemical and bacteriological analyses of water samples for compliance purposes are required to be analyzed at a laboratory certified by ADEM or EPA.

During FY2019, 27 bacteriological laboratories were certified during at least part of the year. No laboratories were decertified during FY2019. The certified bacteriological laboratories consisted of two State laboratories, eighteen water system laboratories and seven commercial laboratories.

Also, 29 chemical and radiological laboratories (10 in-state and 19 out-of-state) were certified during FY2019. Of the 29, two were new out-of-state laboratories.

Appendices B and C contain a list of certified chemical, radiological, and bacteriological laboratories.

The Drinking Water Branch continued to coordinate meetings with ADPH and ADEM Field Operations Division each quarter to discuss the laboratory certification program and any issues that have arisen. In addition, ADEM revised its written program plan and SOP.

Drinking Water State Revolving Fund Activities

The Drinking Water State Revolving Fund (SRF) Annual Report is incorporated by reference and has been submitted to the SRF & Surface Water Grants Section of EPA Region IV under separate cover.

Drinking Water Branch engineers assist in the technical review of the SRF applications each year.

Operator Certification Program

The FY2019 Alabama Operator Certification Annual Report is incorporated by reference and has been submitted to the EPA Region IV Operator Certification Coordinator under separate cover.

The Drinking Water Branch works closely with ADEM's operator certification section to address system concerns or deficiencies related to operator oversight matters. For example, to address potential concerns regarding operator error or analytical data errors.

Response to Natural/Man-Made Disasters

There were no significant natural/man-made disasters in Alabama during FY 2019. However, the Drinking Water Branch collected current contact information from water systems and acquired a communications tool (GroupCast) to facilitate rapid dissemination of information to water systems during emergencies.

APPENDIX A

Water System Annual Inspections and Other Visits

System	Inspection Date	Type
ABBEVILLE WATER WORKS & SEWER BOARD	01/09/19	Sanitary Survey
ADDISON WATER WORKS	03/04/19	Sanitary Survey
AKRON WATER SYSTEM	01/08/19	Operation and Maintenance
ALA. WAREHOUSE/LOWER POOL #2	08/29/19	Operation and Maintenance
ALABAMA DOT/I-10 AL/FL WELCOME CENTER	09/17/19	Sanitary Survey
ALABASTER WATER BOARD	05/03/19	Operation and Maintenance
ALBERTVILLE UTILITIES BOARD	02/27/19	Operation and Maintenance
ALEXANDER CITY WATER DEPARTMENT	11/13/18	Operation and Maintenance
ALICEVILLE WATER & SEWER BOARD	03/14/19	Sanitary Survey
ALLEN AAF	03/20/19	Sanitary Survey
ALLGOOD WATER WORKS (TOWN OF)	04/02/19	Sanitary Survey
ALTOONA WATER & SEWER BOARD	04/03/19	Operation and Maintenance
ANDALUSIA (UTILITIES BOARD OF)	05/24/19	Operation and Maintenance
ANNISTON WATER & SEWER BOARD	07/25/19	Operation and Maintenance
ARAB WATER WORKS BOARD	02/26/19	Operation and Maintenance
ARDMORE WATER SYSTEM	07/16/19	Sanitary Survey
ARITON WATER WORKS	07/25/19	Operation and Maintenance
ARLEY WATER WORKS	10/15/18	Operation and Maintenance
ASBURY WATER SYSTEM	04/23/19	Operation and Maintenance
ASHFORD WATER WORKS	01/07/19	Sampling
ASHFORD WATER WORKS	07/09/19	Operation and Maintenance
ASHLAND WATER & SEWER BOARD	01/09/19	Sanitary Survey
ASHVILLE WATER AND SEWER	03/19/19	Operation and Maintenance
ATHENS UTILITIES	03/04/19	Operation and Maintenance
ATTALLA WATER WORKS BOARD	05/23/19	Sanitary Survey
AUBURN WATER WORKS	12/04/18	Operation and Maintenance
AUTAUGA CO WATER AUTHORITY	07/10/19	Operation and Maintenance
AUTAUGAVILLE WATER WORKS	07/11/19	Operation and Maintenance
AVON WATER SYSTEM	08/28/19	Operation and Maintenance
BAKERHILL WATER AUTHORITY	09/12/19	Operation and Maintenance
BALDWIN BAPTIST CAMP	09/17/19	Sanitary Survey
BALLEWS APARTMENTS	06/24/19	Sanitary Survey
BALLEWS APARTMENTS	03/01/19	Site Inspection
BANKS WATER SYSTEM	01/10/19	Sanitary Survey
BASF CORPORATION	08/29/19	Sanitary Survey
BAYOU LA BATRE UTILITIES	03/11/19	Sanitary Survey
BEAR CREEK WATER WORKS	05/16/19	Sanitary Survey
BEATRICE WATER SYSTEM	04/15/19	Sanitary Survey
BEAUREGARD WATER AUTHORITY	10/09/18	Sampling

BEAUREGARD WATER AUTHORITY	12/12/18	Sanitary Survey
BEAUREGARD WATER AUTHORITY	01/17/19	Sampling
BEAUREGARD WATER AUTHORITY	04/10/19	Sampling
BELFOREST WATER SYSTEM	10/11/18	Sampling
BELFOREST WATER SYSTEM	07/18/19	Sampling
BELFOREST WATER SYSTEM	06/14/19	Sampling
BELFOREST WATER SYSTEM	03/28/19	Sanitary Survey
BELFOREST WATER SYSTEM	01/15/19	Sampling
BELK WATER SYSTEM	05/14/19	Operation and Maintenance
BELK WATER SYSTEM	08/05/19	Sampling
BELK WATER SYSTEM	08/20/19	Sampling
BELK WATER SYSTEM	09/04/19	Sampling
BELK WATER SYSTEM	09/16/19	Sampling
BERRY WATER DEPARTMENT, TOWN OF	05/24/19	Sanitary Survey
BESSEMER WATER SERVICE	08/23/19	Sanitary Survey
BESSEMER WATER SERVICE	10/31/18	Investigation/Complaint
BETHEL WATER SYSTEM	08/15/19	Sanitary Survey
BEULAH UTILITIES DISTRICT	04/29/19	Operation and Maintenance
BIG OAK CAMPGROUND	06/27/19	Sanitary Survey
BIG WILLS WATER & FIRE PRO AUTHORITY	07/18/19	Sanitary Survey
BILLINGSLEY WATER SYSTEM	03/07/19	Operation and Maintenance
BIRMINGHAM AL VA MEDICAL CENTER	08/30/19	Sanitary Survey
BIRMINGHAM WATER WORKS BOARD	03/01/19	Other
BIRMINGHAM WATER WORKS BOARD	04/04/19	Sanitary Survey
BLACK WATER WORKS	07/24/19	Sanitary Survey
BLOUNT COUNTY WATER	04/26/19	Operation and Maintenance
BLOUNTSVILLE UTILITIES BOARD	08/15/19	Operation and Maintenance
BLUE HOLE WATER COMPANY, INC., THE	03/01/19	Sanitary Survey
BLUE SPRINGS WATER WORKS	09/13/19	Operation and Maintenance
BOAZ WATER & SEWER BOARD	01/30/19	Operation and Maintenance
BOLDO WATER & FIRE PROT. AUTHORITY	07/09/19	Operation and Maintenance
BRANTLEY WATER WORKS	03/08/19	Sanitary Survey
BRENT UTILITIES BOARD	02/28/19	Operation and Maintenance
BREWTON WATER WORKS	01/24/19	Sanitary Survey
BRIDGEPORT UTILITIES BOARD	01/22/19	Sanitary Survey
BRILLIANT WATER WORKS	01/15/19	Operation and Maintenance
BROOKSIDE WATER WORKS	06/13/19	Sanitary Survey
BRUNDIDGE WATER DEPARTMENT	01/11/19	Sanitary Survey
BUHL, ELROD & HOLMAN WATER AUTHORITY	03/20/19	Sanitary Survey

BUTLER COUNTY WATER AUTHORITY	04/11/19	Sanitary Survey
BUTLER WATER SYSTEM	08/05/19	Operation and Maintenance
CAA-CTC PLAINVIEW HEAD START PROGRAM	04/29/19	Operation and Maintenance
CALERA WATER WORKS	12/12/18	Operation and Maintenance
CALHOUN COUNTY WATER & FIRE PR AUTHORITY	06/12/19	Operation and Maintenance
CAMDEN WATER & SEWER DEPARTMENT	05/08/19	Operation and Maintenance
CAMP ALAMISCO	08/22/19	Operation and Maintenance
CAMP ASCCA	08/22/19	Operation and Maintenance
CAMP COTTAQUILLA GSA	03/28/19	Sanitary Survey
CAMP HILL UTILITIES BOARD	04/29/19	Operation and Maintenance
CAMP LEE	08/15/19	Sanitary Survey
CAMP MAC	08/29/19	Operation and Maintenance
CAMP SUMATANGA	03/27/19	Sanitary Survey
CAMP VICTORY	07/18/19	Operation and Maintenance
CARBON HILL UTILITIES BOARD	05/15/19	Operation and Maintenance
CARROLLS CREEK WATER AUTHORITY	03/14/19	Sanitary Survey
CARROLLTON WATER WORKS	04/09/19	Sanitary Survey
CASTLEBERRY WATER SYSTEM	01/22/19	Operation and Maintenance
CEDAR BLUFF UTILITIES BOARD	04/12/19	Sanitary Survey
CENTRAL ELMORE WATER AUTHORITY	08/06/19	Operation and Maintenance
CENTRAL TALLADEGA COUNTY WATER AUTHORITY	09/04/19	Sanitary Survey
CENTRE WATER & SEWER BOARD	01/25/19	Operation and Maintenance
CENTREVILLE WATER & SEWER	02/27/19	Operation and Maintenance
CHANDLER MTN/GREASY COVE WATER AUTHORITY	07/24/19	Sanitary Survey
CHATOM UTILITIES BOARD	08/07/19	Operation and Maintenance
CHATTAHOOCHEE VALLEY WATER SUPPLY DIST	04/05/19	Sanitary Survey
CHEAHA STATE PARK	03/28/19	Sanitary Survey
CHEROKEE COUNTY WATER AUTHORITY	01/23/19	Other
CHEROKEE COUNTY WATER AUTHORITY	06/10/19	Sanitary Survey
CHEROKEE WATER & GAS DEPARTMENT	03/07/19	Sanitary Survey
CHILDERSBURG WATER & SEWER BOARD	02/06/19	Sanitary Survey
CHILDREN'S BIBLE MINISTRIES OF NORTH AL	06/27/19	Sanitary Survey
CHILTON WATER AUTHORITY	07/18/19	Sanitary Survey

CHISHOLM HEIGHTS WATER & F P AUTHORITY	07/10/19	Site Inspection
CHISHOLM HEIGHTS WATER & F P AUTHORITY	07/10/19	Sanitary Survey
CHOCTAW-EDNA WATER AUTHORITY, INC.	08/05/19	Operation and Maintenance
CITIZENS WATER SERVICE, INC.	01/10/19	Sanitary Survey
CLANTON WATER DEPARTMENT	11/14/18	Operation and Maintenance
CLAY COUNTY WATER AUTHORITY	09/05/19	Operation and Maintenance
CLAYTON WATER WORKS & SEWER	09/10/19	Operation and Maintenance
CLEAR CREEK HARBOR, LLC	03/29/19	Sanitary Survey
CLEBURNE COUNTY WATER AUTHORITY	04/25/19	Sanitary Survey
CLEVELAND WATER WORKS	08/15/19	Operation and Maintenance
CLIO WATER WORKS	09/11/19	Operation and Maintenance
COALING WATER AUTHORITY	03/15/19	Operation and Maintenance
COASTAL FOREST PRODUCTS, LLC	03/20/19	Sanitary Survey
COFFEE COUNTY WATER AUTHORITY	06/27/19	Operation and Maintenance
COFFEEVILLE WATER WORKS (TOWN OF)	02/20/19	Sanitary Survey
COKER WATER AUTHORITY	03/20/19	Operation and Maintenance
COLBERT COUNTY RURAL WATER SYSTEM	02/07/19	Operation and Maintenance
COLEMAN LAKE USFS REC AREA	03/28/19	Sanitary Survey
COLLINSVILLE WATER WORKS	05/07/19	Sampling
COLLINSVILLE WATER WORKS	06/18/19	Sampling
COLLINSVILLE WATER WORKS	09/26/19	Technical assistance
COLLINSVILLE WATER WORKS	06/05/19	Sampling
COLLINSVILLE WATER WORKS	05/21/19	Sampling
COLLINSVILLE WATER WORKS	04/01/19	Sampling
COLLINSVILLE WATER WORKS	03/19/19	Sampling
COLLINSVILLE WATER WORKS	01/25/19	Sanitary Survey
COLLINSVILLE WATER WORKS	03/04/19	Sampling
COLLINSVILLE WATER WORKS	04/16/19	Sampling
COLUMBIA WATER WORKS	07/26/19	Operation and Maintenance
COLUMBIANA WATER WORKS	02/26/19	Operation and Maintenance
COOK SPRINGS WATER AUTHORITY	05/08/19	Operation and Maintenance
COOSA PINES RECREATION ASSOC., INC.	03/29/19	Sanitary Survey
COOSA VALLEY WATER SUPPLY DISTRICT	07/23/19	Operation and Maintenance
COPELAND FERRY/PUMPKIN CENTER WA	07/12/19	Sanitary Survey
CORDOVA WATER WORKS & GAS BOARD	07/11/19	Sanitary Survey
COTTONWOOD WATER WORKS	07/12/19	Operation and Maintenance

COVINGTON COUNTY WATER AUTHORITY	06/12/19	Operation and Maintenance
COWARTS WATER SYSTEM	07/12/19	Operation and Maintenance
COWIKEE WATER AUTHORITY	09/11/19	Operation and Maintenance
CROSSVILLE WATER BOARD	06/10/19	Operation and Maintenance
CUBA WATER BOARD	08/21/19	Sanitary Survey
CULLMAN COUNTY WATER DEPARTMENT	02/21/19	Operation and Maintenance
CULLMAN UTILITIES BOARD	04/25/19	Construction
CULLMAN UTILITIES BOARD	01/25/19	Operation and Maintenance
CULLMAN WATER WORKS, CITY OF	02/22/19	Operation and Maintenance
CUMBERLAND MOUNTAIN WATER	10/09/18	Sanitary Survey
CUMBERLAND MOUNTAIN WATER	09/26/19	Technical assistance
CURRY WATER AUTHORITY	07/09/19	Operation and Maintenance
CWM WATER AUTHORITY	05/24/19	Sanitary Survey
DADEVILLE WATER WORKS & SEWAGE BOARD	04/30/19	Operation and Maintenance
DALE COUNTY WATER AUTHORITY	07/25/19	Sanitary Survey
DALEVILLE WATER & SEWER BOARD	05/30/19	Operation and Maintenance
DALLAS COUNTY WATER & SEWER AUTHORITY	08/09/19	Operation and Maintenance
DAPHNE (UTILITIES BOARD OF THE CITY OF)	03/29/19	Sanitary Survey
DAUPHIN ISLAND WATER & SEWER	05/07/19	Sanitary Survey
DAVISTON WATER SYSTEM (TOWN OF)	08/22/19	Operation and Maintenance
DECATUR (MUNICIPAL UTILITIES BOARD OF)	10/17/18	Operation and Maintenance
DEER PARK-VINEGAR BEND WATER & FPA	08/09/19	Operation and Maintenance
DEKALB-JACKSON WATER SUPPLY DISTRICT	10/09/18	Operation and Maintenance
DEKALB-JACKSON WATER SUPPLY DISTRICT	04/25/19	Technical assistance
DEMOPOLIS WATER WORKS AND SEWER BOARD	08/22/19	Sanitary Survey
DETROIT WATER WORKS	01/15/19	Operation and Maintenance
DOLLAR GENERAL #19936 GORDON, AL	03/19/19	Sanitary Survey
DOLLAR GENERAL-BROADWAY GROUP, LLC	06/17/19	Operation and Maintenance
DORA UTILITIES	10/02/18	Sampling
DORA UTILITIES	10/16/18	Sampling
DORA UTILITIES	11/06/18	Sampling
DORA UTILITIES	11/20/18	Sampling
DORA UTILITIES	07/12/19	Operation and Maintenance

DOTHAN UTILITIES (CITY OF)	07/10/19	Sanitary Survey
DOUBLE SPRINGS (TOWN OF) W&S BOARD	03/04/19	Sanitary Survey
DOUGLAS WATER AUTHORITY	04/02/19	Sanitary Survey
DOZIER WATER WORKS	03/08/19	Sanitary Survey
EAST ALABAMA WATER & FIRE PRO DISTRICT	04/29/19	Operation and Maintenance
EAST BREWTON WATER & SEWER BOARD	01/24/19	Sanitary Survey
EAST CENTRAL BALDWIN COUNTY WATER & FPA	03/27/19	Sanitary Survey
EAST CULLMAN WATER SYSTEM	03/07/19	Operation and Maintenance
EAST LAUDERDALE COUNTY WATER AUTHORITY	12/12/18	Sanitary Survey
EAST LOWNDES WATER ASSOCIATION	01/15/19	Operation and Maintenance
ECH AAF	03/20/19	Sanitary Survey
ECCLECTIC WATER WORKS & SEWER BOARD	10/19/18	Sanitary Survey
EDWARDSVILLE WATER & FIRE PRO AUTHORITY	05/20/19	Technical assistance
EDWARDSVILLE WATER & FIRE PRO AUTHORITY	04/23/19	Operation and Maintenance
ELBA WATER WORKS	07/23/19	Sanitary Survey
ELDRIDGE WATER SYSTEM	11/14/18	Operation and Maintenance
ELKMONT WATER WORKS	04/25/19	Operation and Maintenance
ELMORE WATER & SEWER AUTHORITY	04/25/19	Operation and Maintenance
ENERGY CENTER WATER SYSTEM	09/06/19	Sanitary Survey
ENGLEWOOD-HULLS WATER SYSTEM, INC.	03/15/19	Operation and Maintenance
ENTERPRISE WATER WORKS	06/26/19	Operation and Maintenance
EQUITY GROUP - EUFAULA DIVISION, LLC	08/29/19	Operation and Maintenance
ESCAMBIA COMMUNITY UTILITIES LLC	01/23/19	Sanitary Survey
EUFAULA WATER WORKS	09/16/19	Operation and Maintenance
EUREKA WATER SERVICE, INC.	08/15/19	Sanitary Survey
EUTAW WATER DEPARTMENT	02/06/19	Operation and Maintenance
EVERGREEN ESTATES	03/21/19	Sanitary Survey
EVERGREEN WATER WORKS	01/25/19	Sanitary Survey
EXCEL WATER SYSTEM	04/17/19	Operation and Maintenance
FACKLER TRUCK STOP	06/25/19	Sanitary Survey
FAIRHOPE WATER SYSTEM (CITY OF)	03/28/19	Sanitary Survey
FAIRVIEW WATER SYSTEM (CONECUH)	01/22/19	Sanitary Survey
FALKVILLE WATER WORKS	03/05/19	Sanitary Survey
FARLEY NUCLEAR PLANT	08/28/19	Operation and Maintenance
FAUNSDALE WATER WORKS	08/20/19	Operation and Maintenance

FAYETTE CO. WATER COORD. & F. P. A.	05/14/19	Operation and Maintenance
FAYETTE WATER WORKS BOARD	10/09/18	Operation and Maintenance
FAYETTEVILLE WATER AUTHORITY	06/26/19	Operation and Maintenance
FIVE STAR WATER SUPPLY DISTRICT	07/23/19	Operation and Maintenance
FLOMATON WATER WORKS	01/23/19	Operation and Maintenance
FLORALA REST AREA (U.S. 331)	07/18/19	Operation and Maintenance
FLORALA WATER WORKS & SEWER BOARD	06/14/19	Sanitary Survey
FLORENCE WATER-WASTEWATER DEPARTMENT	04/17/19	Operation and Maintenance
FOLEY (UTILITIES BOARD OF THE CITY OF)	03/27/19	Sanitary Survey
FORDS VALLEY & HWY 278 WATER	07/25/19	Sanitary Survey
FORKLAND WATER SYSTEM	01/09/19	Sanitary Survey
FORT DEPOSIT WATER & SEWER BOARD	12/18/18	Sanitary Survey
FORT PAYNE WATER WORKS BOARD	04/23/19	Sanitary Survey
FORT RUCKER - AMERICAN WATER	03/20/19	Sanitary Survey
FORWARD OPERATING BASE	03/20/19	Sanitary Survey
FOSTERS-RALPH WATER AUTHORITY	02/06/19	Operation and Maintenance
FRANKLIN COUNTY WATER SERVICES AUTHORITY	06/12/19	Operation and Maintenance
FRANKLIN WATER SYSTEM (TOWN OF)	04/29/19	Operation and Maintenance
FRANKVILLE WATER & FIRE PRO AUTHORITY	08/06/19	Operation and Maintenance
FREEMANVILLE WATER SYSTEM	01/23/19	Operation and Maintenance
FRIENDSHIP WATER WORKS	10/19/18	Operation and Maintenance
FRISCO CITY WATER SYSTEM	04/23/19	Sanitary Survey
FRUITDALE WATER SYSTEM	08/22/19	Sanitary Survey
FT MITCHELL WATER SYSTEM	12/04/18	Sanitary Survey
FULTON (UTILITIES BOARD OF THE TOWN OF)	02/19/19	Operation and Maintenance
GADSDEN WATER WORKS AND SEWER BOARD	05/22/19	Operation and Maintenance
GANTT WATER SYSTEM	06/13/19	Sanitary Survey
GARDEN CITY WATER DEPARTMENT	02/21/19	Sanitary Survey
GENEVA WATER WORKS	05/30/19	Operation and Maintenance
GEORGIANA WATER WORKS & SEWER BOARD	04/12/19	Sanitary Survey
GILBERTOWN (UTILITIES BOARD OF TOWN OF)	08/06/19	Operation and Maintenance
GLEN ALLEN WATER SYSTEM	11/14/18	Sanitary Survey
GLENCOE WATER WORKS BOARD	06/11/19	Sanitary Survey
GLENWOOD WATER WORKS	01/16/19	Operation and Maintenance
GOLDEN ROD BROILERS	10/12/18	Sanitary Survey

GOODWATER WTR WORKS & SEWER BD (CITY OF)	04/11/19	Sanitary Survey
GORDO WTR GAS & SEWER BOARD	03/19/19	Sanitary Survey
GORDON TOWN OF	07/09/19	Operation and Maintenance
GOSHEN WATER WORKS DIST SYSTEM	01/11/19	Operation and Maintenance
GOVERNMENTAL UTILITY SERVICE CORPORATION	07/10/19	Operation and Maintenance
GRAND BAY WATER WORKS BOARD	03/11/19	Operation and Maintenance
GRAYSVILLE WATER & SEWER BOARD	06/10/19	Sanitary Survey
GRAYSVILLE WATER & SEWER BOARD	07/19/19	Technical assistance
GREEN PARK SOUTH MOBILE HOME PARK	08/28/19	Operation and Maintenance
GREEN POND WATER SYSTEM	01/17/19	Operation and Maintenance
GREENE COUNTY STEAM PLANT	08/21/19	Sanitary Survey
GREENE COUNTY WATER AUTHORITY	01/09/19	Sanitary Survey
GREENETRACK, INC	08/21/19	Sanitary Survey
GREENHILL WATER & FIRE PRO AUTHORITY	12/12/18	Operation and Maintenance
GREENHILL WATER & FIRE PRO AUTHORITY	08/06/19	Sampling
GREENHILL WATER & FIRE PRO AUTHORITY	08/21/19	Sampling
GREENHILL WATER & FIRE PRO AUTHORITY	09/04/19	Sampling
GREENHILL WATER & FIRE PRO AUTHORITY	09/17/19	Sampling
GREENSBORO (UTILITIES BD OF THE CITY OF)	01/08/19	Operation and Maintenance
GREENVILLE WATER WORKS	04/12/19	Sanitary Survey
GROVE HILL WATER WORKS	02/19/19	Sanitary Survey
GUIN WATER & SEWER BOARD	05/06/19	Sampling
GUIN WATER & SEWER BOARD	05/20/19	Sampling
GUIN WATER & SEWER BOARD	06/17/19	Sampling
GUIN WATER & SEWER BOARD	07/15/19	Operation and Maintenance
GUIN WATER & SEWER BOARD	08/08/19	Sampling
GUIN WATER & SEWER BOARD	08/20/19	Sampling
GULF SHORES (UTILITIES BOARD CITY OF)	03/26/19	Sanitary Survey
GULF STATE PARK INTERPRETIVE CENTER WTS	02/08/19	Sanitary Survey
GUNTERSVILLE WATER WORKS & SEWER BOARD	05/20/19	Sanitary Survey
GURLEY WATER SYSTEM	06/25/19	Sanitary Survey
HACKLEBURG WATER & SEWER BOARD	05/16/19	Operation and Maintenance

HACKNEYVILLE WATER & FIRE PRO AUTHORITY	08/22/19	Operation and Maintenance
HALE COUNTY WATER AUTHORITY	02/05/19	Sanitary Survey
HALEYVILLE WATER WORKS & SEWER BOARD	05/16/19	Operation and Maintenance
HAMDEN RIDGE WATER AUTHORITY	01/22/19	Sanitary Survey
HAMILTON WATER AND WASTEWATER DEPARTMENT	07/15/19	Operation and Maintenance
HANCEVILLE (THE WWSB OF THE CITY OF)	04/01/19	Sanitary Survey
HARPERSVILLE WATER SYSTEM	10/04/18	Operation and Maintenance
HARTFORD WATER WORKS	07/24/19	Operation and Maintenance
HARTFORD WATER WORKS	12/10/18	Sampling
HARTSELLE UTILITY BOARD	03/05/19	Operation and Maintenance
HARVEST-MONROVIA WATER SYSTEM	12/04/18	Sampling
HARVEST-MONROVIA WATER SYSTEM	03/05/19	Sampling
HARVEST-MONROVIA WATER SYSTEM	06/05/19	Sampling
HARVEST-MONROVIA WATER SYSTEM	09/03/19	Sampling
HARVEST-MONROVIA WATER SYSTEM	09/05/19	Sampling
HARVEST-MONROVIA WATER SYSTEM	10/16/18	Operation and Maintenance
HAWK PRIDE MT WATER SYSTEM	04/16/19	Sanitary Survey
HAYDEN WATER WORKS	02/27/19	Sanitary Survey
HAYNEVILLE WATER DEPARTMENT	12/13/18	Sanitary Survey
HEADLAND WATER WORKS	01/10/19	Sanitary Survey
HEATH WATER SYSTEM	06/13/19	Sanitary Survey
HEFLIN WATER WORKS	07/17/19	Operation and Maintenance
HEFLIN WATER WORKS	09/24/19	Sampling
HELENA UTILITY BOARD	03/20/19	Operation and Maintenance
HENRY COUNTY WATER AUTHORITY	01/10/19	Operation and Maintenance
HIGH BLUFF AAF	03/20/19	Sanitary Survey
HIGHLAND WATER AUTHORITY	01/31/19	Operation and Maintenance
HILLTOP RV PARK	09/17/19	Sanitary Survey
HOBSON CITY WATER SYSTEM	10/30/18	Technical assistance
HOBSON CITY WATER SYSTEM	04/26/19	Sanitary Survey
HOBSON WATER SYSTEM	08/22/19	Sanitary Survey
HODGES WATER SYSTEM	12/11/18	Sanitary Survey
HOKES BLUFF WATER BOARD	06/10/19	Sanitary Survey
HOLLINS WATER AUTHORITY	01/08/19	Sanitary Survey
HOLTVILLE WATER SYSTEM	12/14/18	Sanitary Survey
HOUSTON COUNTY WATER AUTHORITY	07/26/19	Operation and Maintenance
HUBBARD LANDING, INC	09/18/19	Sanitary Survey
HUGULEY WATER AUTHORITY	04/29/19	Operation and Maintenance
HUNTSVILLE UTILITIES	08/21/19	Operation and Maintenance
HURTSBORO WATER & SEWER BOARD	12/05/18	Sanitary Survey
I-65 RV CAMPGROUND	08/14/19	Sanitary Survey

INTERNATIONAL PAPER (AUTAUGA CO.)	04/03/19	Sanitary Survey
INTERNATIONAL PAPER COMPANY (SELMA)	04/05/19	Sanitary Survey
IRONDALE WATER SYSTEM	04/30/19	Sanitary Survey
JACK WATER SYSTEM, INC	06/26/19	Operation and Maintenance
JACKSON COUNTY WATER AUTHORITY	10/12/18	Operation and Maintenance
JACKSON COUNTY WATER AUTHORITY	09/26/19	Technical assistance
JACKSON WATER WORKS & SEWER BOARD	08/09/19	Sanitary Survey
JACKSONS GAP WATER AUTHORITY	04/30/19	Sanitary Survey
JACKSONVILLE WATER WORKS, GAS AND SEWER	07/24/19	Sanitary Survey
JASPER WATER WORKS AND SEWER BOARD	11/16/18	Sanitary Survey
JCG FOODS OF ALABAMA LLC	06/26/19	Sanitary Survey
JEMISON WATER WORKS	03/19/19	Sanitary Survey
JOHNSONS CROSSING WATER SYSTEM	02/20/19	Sanitary Survey
JOPPA, HULACO & RYAN WATER AUTHORITY	03/06/19	Sanitary Survey
KANSAS WATER SYSTEM	07/10/19	Operation and Maintenance
KELLYTON WATER SYSTEM	04/11/19	Sanitary Survey
KENNEDY WATER WORKS BOARD	01/17/19	Operation and Maintenance
KINSEY WATER SYSTEM	11/07/18	Operation and Maintenance
KINSTON WATER WORKS	06/27/19	Operation and Maintenance
KUSHLA WATER DISTRICT	05/07/19	Sanitary Survey
LAD MARINA & CAMPGROUND	06/27/19	Sanitary Survey
LAFAYETTE WATER WORKS	07/26/19	Sanitary Survey
LAGRANGE MOUNTAIN WATER AUTHORITY	03/01/19	Operation and Maintenance
LAKE MITCHELL WATER, INCORPORATED	04/10/19	Sanitary Survey
LAKE THOLOCCO RECREATION AREA - AMERICAN	03/20/19	Sanitary Survey
LAKESIDE MARINA	03/26/19	Sanitary Survey
LANETT WATER WORKS	04/29/19	Operation and Maintenance
LEEDS WATER BOARD	12/04/18	Sanitary Survey
LEIGHTON (WSB OF THE TOWN OF)	12/11/18	Operation and Maintenance
LEMOYNE WATER SYSTEM, INC.	03/12/19	Operation and Maintenance
LEROY WATER AUTHORITY	08/06/19	Operation and Maintenance
LEVEL PLAINS WATER SYSTEM	05/30/19	Operation and Maintenance
LEXINGTON WATER WORKS AND SEWER	07/10/19	Site Inspection

LEXINGTON WATER WORKS AND SEWER	07/10/19	Sanitary Survey
LIFELINK CAREER RESOURCE CENTER, INC	08/30/19	Operation and Maintenance
LIMESTONE COUNTY WATER SYSTEM	03/05/19	Sanitary Survey
LINCOLN (CITY OF)	05/01/19	Operation and Maintenance
LINDEN UTILITIES BOARD	08/20/19	Operation and Maintenance
LINEVILLE WATER WORKS BOARD	01/08/19	Sanitary Survey
LITTLE WAXIE WATER AUTHORITY	02/26/19	Sanitary Survey
LITTLEVILLE WATERWORKS	06/13/19	Sanitary Survey
LIVINGSTON WATER WORKS	04/10/19	Sanitary Survey
LOACHAPOKA WATER AUTHORITY	12/12/18	Sanitary Survey
LOCKHART WATER WORKS	06/14/19	Sanitary Survey
LOGAN LANDING RV RESORT & CAMPGROUND	03/29/19	Sanitary Survey
LOUISVILLE WATER WORKS	09/11/19	Operation and Maintenance
LOWNDES COUNTY WATER SYSTEM	12/12/18	Sanitary Survey
LOWNDES COUNTY WATER SYSTEM	04/03/19	Sampling
LOWNDESBORO WATER SYSTEM	12/12/18	Operation and Maintenance
LOXLEY (TOWN OF)	03/25/19	Sanitary Survey
LUVERNE WATER & SEWER DEPARTMENT	03/05/19	Operation and Maintenance
LYEFFION WATER AND FIRE PRO AUTHORITY	01/22/19	Sanitary Survey
LYNN WATER WORKS	05/15/19	Operation and Maintenance
MACON COUNTY WATER AUTHORITY	12/12/18	Operation and Maintenance
MACON COUNTY WATER AUTHORITY	09/23/19	Sampling
MACON COUNTY WATER AUTHORITY	06/27/19	Sampling
MACON COUNTY WATER AUTHORITY	12/12/18	Sanitary Survey
MACON COUNTY WATER AUTHORITY	10/09/18	Sampling
MACON COUNTY WATER AUTHORITY	01/17/19	Sampling
MADISON COUNTY WATER DEPARTMENT	07/17/19	Sanitary Survey
MADISON WATER WORKS & SEWER	06/10/19	Operation and Maintenance
MAGNOLIA SPRINGS HEAD START CENTER	09/18/19	Sanitary Survey
MALVERN WATER DEPARTMENT	07/24/19	Operation and Maintenance
MAPLESVILLE WATER WORKS	03/19/19	Sanitary Survey
MARBURY WATER SYSTEM, INC.	08/27/19	Sampling
MARBURY WATER SYSTEM, INC.	08/14/19	Sampling
MARBURY WATER SYSTEM, INC.	07/10/19	Operation and Maintenance
MARBURY WATER SYSTEM, INC.	09/23/19	Sampling
MARGARET WATER WORKS	05/22/19	Sanitary Survey
MARION COUNTY PUBLIC WATER AUTHORITY	12/03/18	Sampling

MARION COUNTY PUBLIC WATER AUTHORITY	05/17/19	Operation and Maintenance
MARION WATER DEPARTMENT	04/09/19	Operation and Maintenance
MCB WATER AUTHORITY, INC.	03/13/19	Sanitary Survey
MCCALL WATER SYSTEM INC	01/24/19	Sanitary Survey
MCINTOSH WATER & FIRE PRO AUTHORITY	08/07/19	Sanitary Survey
MCKENZIE WATER BOARD	04/11/19	Operation and Maintenance
MCVAY WATER SYSTEM	03/26/19	Sanitary Survey
MEXIA WATER SYSTEM, INC.	04/23/19	Sanitary Survey
MID-CENTRAL WATER AUTHORITY	03/27/19	Sanitary Survey
MID-CLARKE WATER SYSTEM	03/27/19	Sanitary Survey
MIDLAND CITY WATER DEPARTMENT	11/07/18	Operation and Maintenance
MIDWAY WATER WORKS	04/23/19	Operation and Maintenance
MILLBROOK UTILITIES	04/26/19	Sanitary Survey
MILLERS FERRY WATER AUTHORITY, INC.	05/08/19	Sanitary Survey
MILLERVILLE WATER & FIRE PRO AUTHORITY	01/09/19	Sanitary Survey
MILLPORT WATER WORKS	01/17/19	Operation and Maintenance
MILLRY WATER WORKS	08/05/19	Operation and Maintenance
MITCHELL WATER SYSTEM INC	03/13/19	Operation and Maintenance
MOBILE BOARD OF WATER AND SEWER COMM.	08/08/19	Operation and Maintenance
MOBILE COUNTY WATER & FIRE PRO AUTHORITY	05/09/19	Sanitary Survey
MONROEVILLE (WATER WORKS BD. OF CITY OF)	04/23/19	Sanitary Survey
MONTEVALLO WATER WORKS & SEWER	03/13/19	Operation and Maintenance
MONTGOMERY WATER WORKS	11/28/18	Informal System Inspection
MONTGOMERY WATER WORKS	07/03/19	Sanitary Survey
MOSSSES WATER & FIRE PRO AUTHORITY	12/18/18	Sanitary Survey
MOULTON WATER WORKS BOARD	02/04/19	Operation and Maintenance
MOUNDEVILLE WATER WORKS	01/08/19	Sanitary Survey
MT ANDREW WATER AUTHORITY	09/10/19	Operation and Maintenance
MT. VERNON (TOWN OF)	05/08/19	Sanitary Survey
MULGA WATER WORKS AND GAS DEPARTMENT	06/12/19	Sanitary Survey
MUNFORD WATER AUTHORITY, INC.	06/26/19	Sanitary Survey
MUSCLE SHOALS UTILITY BOARD	04/18/19	Operation and Maintenance
MYRTLEWOOD WATER SYSTEM	08/21/19	Operation and Maintenance
NAPIER FIELD WATER SYSTEM	07/18/19	Operation and Maintenance

NATCHEZ TRACE PARKWAY	06/13/19	Sanitary Survey
NAUVOO WATER WORKS	05/15/19	Operation and Maintenance
NE MORGAN CO WATER AND SEWER AUTHORITY	04/26/19	Operation and Maintenance
NECTAR WATER SYSTEM	08/15/19	Operation and Maintenance
NEW BROCKTON WATER DEPARTMENT	03/07/19	Operation and Maintenance
NEW HOPE WATER SYSTEM	04/23/19	Operation and Maintenance
NEW LONDON WATER & FIRE PRO AUTHORITY	03/13/19	Operation and Maintenance
NEW LONDON WATER & FIRE PRO AUTHORITY	07/08/19	Sampling
NEW SITE WATER SYSTEM	08/22/19	Operation and Maintenance
NEWTON WATER WORKS BOARD	03/07/19	Sanitary Survey
NEWVILLE WATER SYSTEM	11/07/18	Operation and Maintenance
NORTH BALDWIN UTILITIES	02/22/19	Operation and Maintenance
NORTH CHOCTAW WATER & SEWER AUTHORITY	08/05/19	Operation and Maintenance
NORTH CLARKE WATER AUTHORITY	08/22/19	Sanitary Survey
NORTH DALLAS WATER AUTHORITY	08/09/19	Operation and Maintenance
NORTH MARSHALL UTILITIES	03/01/19	Sanitary Survey
NORTHEAST ALABAMA WATER SYSTEM	04/25/19	Operation and Maintenance
NORTHEAST ETOWAH COUNTY WATER CO-OP	01/31/19	Operation and Maintenance
NORTHPORT WATER WORKS	05/22/19	Sanitary Survey
NORTHWEST ST CLAIR WATER SYSTEM	01/24/19	Sanitary Survey
NOTASULGA WATER SYSTEM	04/29/19	Operation and Maintenance
OAKMAN WATER WORKS	07/10/19	Operation and Maintenance
OASIS TRAVEL CENTER	09/17/19	Sanitary Survey
ODENVILLE (UTIL BOARD OF THE TOWN OF)	08/21/19	Operation and Maintenance
OHATCHEE WATER SYSTEM	08/14/19	Sanitary Survey
OLD CAHAWBA ARCHAEOLOGICAL PARK	03/21/19	Sanitary Survey
OLD LINE WATER SYSTEM	02/20/19	Sanitary Survey
ONEONTA UTILITIES BOARD	01/23/19	Operation and Maintenance
OPELIKA UTILITIES	06/18/19	Operation and Maintenance
OPP UTILITIES BOARD	09/04/19	Operation and Maintenance
ORANGE BEACH WATER, SEWER AND F.P.A.	02/07/19	Sanitary Survey

ORRVILLE WATER DEPARTMENT (TOWN OF)	08/08/19	Sanitary Survey
OWASSA-BROWNSVILLE WATER AUTHORITY	01/25/19	Sanitary Survey
OWASSA-BROWNSVILLE WATER AUTHORITY	05/13/19	Sampling
OWASSA-BROWNSVILLE WATER AUTHORITY	08/13/19	Sampling
OWENS CROSSROADS WATER AUTHORITY	07/16/19	Sanitary Survey
OXFORD WATER WORKS & SEWER BOARD	09/24/19	Operation and Maintenance
OZARK UTILITIES BOARD	07/25/19	Operation and Maintenance
OZARK UTILITIES BOARD	06/19/19	Sampling
OZARK UTILITIES BOARD	11/15/18	Sampling
OZARK UTILITIES BOARD	02/07/19	Sampling
PARK CITY WATER AUTHORITY, INC	03/29/19	Operation and Maintenance
PARKER CREEK WATER COMPANY	04/10/19	Sanitary Survey
PARRISH WATER WORKS BOARD	07/11/19	Operation and Maintenance
PEACH QUEEN KOA CAMPGROUNDS WATER SYSTEM	03/19/19	Sanitary Survey
PELHAM WATER WORKS	03/25/19	Operation and Maintenance
PELL CITY WATER WORKS	08/28/19	Operation and Maintenance
PENNINGTON (UTILITIES BOARD OF)	08/05/19	Operation and Maintenance
PERDIDO BAY WATER, SEWER & FPA	03/26/19	Sanitary Survey
PERRY COUNTY WATER AUTHORITY	04/24/19	Sanitary Survey
PETERSON WATER SYSTEM	03/13/19	Operation and Maintenance
PHENIX CITY UTILITIES	08/08/19	Operation and Maintenance
PHIL CAMPBELL WATER WORKS	06/12/19	Sanitary Survey
PICKENS COUNTY WATER & F. P. AUTHORITY	04/09/19	Sanitary Survey
PIEDMONT UTILITIES BOARD	04/26/19	Sanitary Survey
PIKE COUNTY WATER AUTHORITY	12/19/18	Operation and Maintenance
PILGRIM-PROVIDENCE WATER AUTHORITY	03/05/19	Sanitary Survey
PILGRIMS PRIDE CORPORATION	08/28/19	Operation and Maintenance
PINCKARD WATER DEPARTMENT	03/07/19	Sanitary Survey
PINE APPLE WATER WORKS	05/09/19	Sanitary Survey
PINE BLUFF WATER AUTHORITY	06/19/19	Sanitary Survey
PINE HILL WATER DEPARTMENT	09/06/19	Operation and Maintenance
PINE LEVEL WATER AUTHORITY	03/08/19	Sanitary Survey
PINEDALE SHORES WSFPA	03/27/19	Sanitary Survey
PINTLALA WATER SYSTEM, INC.	01/17/19	Operation and Maintenance
PISGAH WATER WORKS	07/18/19	Sanitary Survey

PLURIS ALABAMA LLC	12/12/18	Sanitary Survey
POLLARD WATER SYSTEM	01/23/19	Sanitary Survey
PRATTVILLE (WATER WORKS BOARD OF)	07/12/19	Sanitary Survey
PRICHARD WATER WORKS BOARD	08/14/19	Sanitary Survey
PROVIDENCE WATER AUTHORITY	07/10/19	Operation and Maintenance
QUINT-MAR WATER AUTHORITY	11/15/18	Sampling
QUINT-MAR WATER AUTHORITY	02/05/19	Sampling
QUINT-MAR WATER AUTHORITY	03/01/19	Sanitary Survey
QUINT-MAR WATER AUTHORITY	04/17/19	Sampling
QUINT-MAR WATER AUTHORITY	07/17/19	Sampling
RAGLAND (THE WW BOARD OF THE TOWN OF)	08/28/19	Operation and Maintenance
RAINBOW CITY UTILITIES BOARD	08/14/19	Sanitary Survey
RAMER WATER COMPANY, INC.	03/05/19	Sanitary Survey
RANBURNE WATER & SEWER DEPARTMENT	04/23/19	Sanitary Survey
RANDOLPH COUNTY WATER & SEWER AUTHORITY	01/10/19	Sanitary Survey
RANDOLPH WATER SYSTEM	03/19/19	Sanitary Survey
RANGE CONTROL	03/20/19	Sanitary Survey
RAY COMMUNITY WATER & FIRE PRO AUTHORITY	05/23/19	Sanitary Survey
RED BAY WATER & GAS BOARD	04/15/19	Operation and Maintenance
RED LEVEL WATER WORKS	01/25/19	Sanitary Survey
REECE CITY WATER SYSTEM	07/18/19	Operation and Maintenance
REFORM WATER & SEWER BOARD	03/19/19	Operation and Maintenance
REMLAP-PINE MTN WATER AUTHORITY	06/20/19	Sanitary Survey
REMLAP-PINE MTN WATER AUTHORITY	07/18/19	Technical assistance
REPTON WATER WORKS	01/22/19	Sanitary Survey
RIVER FALLS WATER SYSTEM	01/25/19	Sanitary Survey
RIVERSIDE (TOWN OF)	05/01/19	Operation and Maintenance
RIVERVIEW WATER WORKS	01/24/19	Operation and Maintenance
ROANOKE (THE UTIL. BD. OF THE CITY OF)	07/18/19	Operation and Maintenance
ROBERTSDALE (CITY OF)	03/25/19	Sanitary Survey
ROCKFORD WATER WORKS	04/10/19	Sanitary Survey
ROGERSVILLE WATER WORKS & SEWER BOARD	12/12/18	Sanitary Survey
RUSSELL COUNTY WATER AUTHORITY	01/11/19	Operation and Maintenance

APPENDIX A

RUSSELLVILLE WATER WORKS	02/05/19	Sanitary Survey
RUSSELLVILLE WATER WORKS	09/16/19	Sampling
RUTLEDGE WATER WORKS	03/05/19	Operation and Maintenance
SAMSON WATER WORKS	07/24/19	Sanitary Survey
SANFORD WATER SYSTEM	01/25/19	Sanitary Survey
SARALAND WATER SERVICE	03/12/19	Sanitary Survey
SARDIS CITY WATER BOARD	01/30/19	Operation and Maintenance
SATSUMA WATER WORKS	03/12/19	Operation and Maintenance
SCOTTSBORO WATER WORKS	01/23/19	Operation and Maintenance
SECTION-DUTTON WATER SYSTEM	10/12/18	Sanitary Survey
SELLERS STATION WATER SYSTEM	01/17/19	Operation and Maintenance
SELMA WATER WORKS & SEWER BOARD	08/07/19	Sanitary Survey
SHEFFIELD UTILITIES DEPARTMENT	02/06/19	Sanitary Survey
SHELBY COUNTY WATER SYSTEM	10/17/18	Sanitary Survey
SILVERHILL WATER SYSTEM (TOWN OF)	03/27/19	Operation and Maintenance
SLOCOMB WATER WORKS AND SEWER BOARD	07/24/19	Sanitary Survey
SMITHS WATER AND SEWER AUTHORITY	03/27/19	Operation and Maintenance
SNEAD WATER WORKS	04/02/19	Operation and Maintenance
SNOWDOUN WATER SYSTEM INC	11/07/18	Sampling
SNOWDOUN WATER SYSTEM INC	04/25/19	Sanitary Survey
OLON DIXON FORESTRY EDUCATION CENTER	07/18/19	Operation and Maintenance
SOUTH ALABAMA UTILITIES WATER SYSTEM	05/08/19	Operation and Maintenance
SOUTH BULLOCK COUNTY WATER AUTHORITY	07/17/19	Sanitary Survey
SOUTH CRENSHAW COUNTY WATER AUTHORITY	01/16/19	Operation and Maintenance
SOUTH CRENSHAW COUNTY WATER AUTHORITY	02/13/19	Sampling
SOUTH CRENSHAW COUNTY WATER AUTHORITY	08/28/19	Sampling
SOUTH DALLAS WATER AUTHORITY	08/08/19	Sanitary Survey
SOUTH GATE MOBILE HOME PARK	08/28/19	Operation and Maintenance
SOUTH MARENGO CO WATER & FIRE PRO AUTH	08/23/19	Sanitary Survey
SOUTHPORT CAMPGROUNDS	09/19/19	Sanitary Survey

SOUTHSIDE WATER WORKS	03/19/19	Operation and Maintenance
SOUTHWEST ALABAMA WATER AUTHORITY	10/11/18	Sampling
SOUTHWEST ALABAMA WATER AUTHORITY	01/14/19	Sampling
SOUTHWEST ALABAMA WATER AUTHORITY	04/15/19	Sanitary Survey
SOUTHWEST ALABAMA WATER AUTHORITY	05/13/19	Sampling
SOUTHWEST ALABAMA WATER AUTHORITY	08/12/19	Sampling
SPANISH FORT WATER SYSTEM	02/21/19	Sanitary Survey
SPANISH FORT WATER SYSTEM	09/10/19	Sampling
SPANISH FORT WATER SYSTEM	06/14/19	Sampling
SPANISH FORT WATER SYSTEM	10/12/18	Sampling
SPANISH FORT WATER SYSTEM	12/11/18	Sampling
SPANISH FORT WATER SYSTEM	01/15/19	Sampling
SPRING VALLEY WATER AUTHORITY	04/11/19	Sanitary Survey
SPRINGVILLE WATER WORKS	06/18/19	Sampling
SPRINGVILLE WATER WORKS	07/08/19	Sampling
SPRINGVILLE WATER WORKS	06/04/19	Sampling
SPRINGVILLE WATER WORKS	05/21/19	Sampling
SPRINGVILLE WATER WORKS	05/07/19	Sampling
SPRINGVILLE WATER WORKS	04/16/19	Sampling
SPRINGVILLE WATER WORKS	04/01/19	Sampling
SPRINGVILLE WATER WORKS	08/22/19	Operation and Maintenance
ST STEPHENS WATER SYSTEM	06/13/19	Sampling
ST STEPHENS WATER SYSTEM	08/06/19	Operation and Maintenance
ST STEPHENS WATER SYSTEM	08/12/19	Sampling
ST. ELMO-IRVINGTON WATER AUTHORITY	05/07/19	Sanitary Survey
STAR-MINDINGALL WATER AUTHORITY	01/11/19	Sanitary Survey
STEELE WATER WORKS BOARD	07/24/19	Sanitary Survey
STERRETT-VANDIVER WATER SYSTEM	08/15/19	Sanitary Survey
STEVENSON (UTIL. BOARD OF THE TOWN OF)	07/18/19	Operation and Maintenance
STEWARTVILLE WATER AUTHORITY	05/07/19	Sanitary Survey
STYX RIVER RESORT WATER SYSTEM	09/17/19	Sanitary Survey
SULLIGENT (CITY OF)	01/15/19	Operation and Maintenance
SUMITON WATER WORKS BOARD	07/12/19	Sanitary Survey
SUMMERDALE WATER WORKS	10/11/18	Sampling
SUMMERDALE WATER WORKS	01/14/19	Sampling
SUMMERDALE WATER WORKS	03/28/19	Sanitary Survey

SUMMERDALE WATER WORKS	06/13/19	Sampling
SUMMERDALE WATER WORKS	08/13/19	Sampling
SUMTER COUNTY WATER AUTHORITY	04/03/19	Sanitary Survey
SWAN CREEK COMMUNITY (BSI, LLC)	07/16/19	Sanitary Survey
SWEARENGIN WATER SYSTEM	04/23/19	Operation and Maintenance
SWEETWATER WATER & SEWER BOARD	08/21/19	Operation and Maintenance
SYCAMORE WATER AND SEWER AUTHORITY	02/06/19	Operation and Maintenance
SYLACAUGA UTILITIES BOARD	10/30/18	Operation and Maintenance
TAC-X AAF	03/20/19	Sanitary Survey
TALLADEGA COUNTY WATER SYSTEM	01/23/19	Sanitary Survey
TALLADEGA WATER AND SEWER BOARD, CITY OF	10/29/18	Operation and Maintenance
TALLADEGA-SHELBY WATER TREATMENT PLANT	04/12/19	Operation and Maintenance
TALLASSEE WATER WORKS	02/27/19	Operation and Maintenance
TATE & LYLE SUCRALOSE, INC. WATER SYSTEM	08/28/19	Sanitary Survey
TAYLOR WATER SYSTEM	07/12/19	Operation and Maintenance
THOMASTON WATER WORKS & GAS BOARD	08/22/19	Sanitary Survey
THOMASVILLE WATER WORKS & SEWER BOARD	08/05/19	Operation and Maintenance
THORSBY WATER WORKS BOARD	05/07/19	Sanitary Survey
TIBBIE WATER & FIRE PROTECTION AUTHORITY	08/22/19	Sanitary Survey
TILLISON BEND WATER AUTHORITY	07/25/19	Sanitary Survey
TOTH FIELD	03/20/19	Sanitary Survey
TOWN CREEK WATER SYSTEM	04/11/19	Sanitary Survey
TOWNLEY WATER AUTHORITY	07/10/19	Operation and Maintenance
TRAINING AREA-15	03/20/19	Sanitary Survey
TRI COMMUNITY WATER SYSTEM	04/26/19	Sanitary Survey
TRIANA WATER WORKS	04/25/19	Operation and Maintenance
TRINITY WATER WORKS SYSTEM	04/26/19	Sanitary Survey
TROY UTILITIES (CITY OF)	01/10/19	Operation and Maintenance
TRUSSVILLE UTILITIES	04/24/19	Sanitary Survey
TURNERVILLE WATER & FIRE PRO DISTRICT	03/13/19	Operation and Maintenance
TUSCALOOSA WATER & SEWER	07/17/19	Operation and Maintenance
TUSCUMBIA WATER WORKS	04/16/19	Operation and Maintenance

TUSKEGEE UTILITIES BOARD	08/15/19	Operation and Maintenance
TWIN WATER AUTHORITY	12/11/18	Operation and Maintenance
TYSON FARM, INC. (BLOUNT CO.)	08/30/19	Operation and Maintenance
TYSON FARM, INC. (BLOUNT CO.)	09/03/19	Sampling
U.S. AMINES LLC- CELANESE CHEMICALS	08/28/19	Sanitary Survey
UNION GROVE UTILITY BOARD	03/06/19	Operation and Maintenance
UNION SPRINGS UTIL BOARD	01/08/19	Sampling
UNION SPRINGS UTIL BOARD	02/25/19	Sampling
UNION SPRINGS UTIL BOARD	04/23/19	Sanitary Survey
UNIONTOWN UTILITIES BOARD	03/11/19	Sampling
UNIONTOWN UTILITIES BOARD	08/20/19	Sanitary Survey
UNIONTOWN UTILITIES BOARD	09/30/19	Sampling
UNIVERSITY OF ALABAMA AT BIRMINGHAM	08/16/19	Sanitary Survey
UPPER BEAR CREEK WATER AUTHORITY	02/28/19	Operation and Maintenance
URIAH WATER SYSTEM INC.	04/17/19	Sanitary Survey
US ARMY GARRISON-REDSTONE ARSENAL	06/11/19	Sanitary Survey
V.A.W. WATER SYSTEM, INC	02/22/19	Operation and Maintenance
VALLEY HEAD WATER WORKS BOARD	06/11/19	Sanitary Survey
VERNON WATER AND SEWER BOARD	01/16/19	Sanitary Survey
VINA WATER WORKS BOARD	06/12/19	Sanitary Survey
VINCENT WATER WORKS BOARD	03/13/19	Sanitary Survey
WADLEY UTILITIES BOARD	01/10/19	Sanitary Survey
WAGARVILLE WATER SYSTEM	07/17/19	Sampling
WAGARVILLE WATER SYSTEM	08/22/19	Sanitary Survey
WALDO WATER SYSTEM	01/23/19	Sanitary Survey
WALL STREET WATER AUTHORITY	04/29/19	Operation and Maintenance
WALNUT GROVE (TOWN OF)	04/03/19	Operation and Maintenance
WALNUT HILL WATER AUTHORITY	04/30/19	Operation and Maintenance
WALTER WATER AUTHORITY	02/20/19	Sanitary Survey
WARRIOR RIVER WATER AUTHORITY	12/06/18	Sanitary Survey
WASHINGTON COUNTY WATER AUTHORITY	08/07/19	Operation and Maintenance
WATER WORKS, INC.	09/04/19	Operation and Maintenance
WATTSVILLE WATER AUTHORITY	05/08/19	Operation and Maintenance
WAYNE FARMS LLC	08/28/19	Operation and Maintenance
WEAVER WATER SYSTEM	07/24/19	Sanitary Survey
WEBB WATER SYSTEM	07/26/19	Operation and Maintenance

WEBB WATER SYSTEM	09/17/19	Sanitary Survey
WEDOWEE WATER, SEWER, & GAS BOARD	07/24/19	Sanitary Survey
WEST AUTAUGA WATER AUTHORITY	07/11/19	Sanitary Survey
WEST BANK DAMSITE/GEORGE W ANDREWS	08/29/19	Operation and Maintenance
WEST BANK DAMSITE/W F GEORGE LAKE	08/29/19	Operation and Maintenance
WEST BARBOUR COUNTY WATER AUTHORITY	09/13/19	Operation and Maintenance
WEST BLOCTON WATER WORKS	03/07/19	Operation and Maintenance
WEST DALLAS CO WATER AUTHORITY	08/08/19	Operation and Maintenance
WEST ESCAMBIA UTILITIES INC.	01/23/19	Sanitary Survey
WEST ETOWAH WATER & FIRE PRO AUTHORITY	04/03/19	Operation and Maintenance
WEST ETOWAH WATER & FIRE PRO AUTHORITY	03/04/19	Sampling
WEST JEFFERSON WATER WORKS (TOWN OF)	06/11/19	Sanitary Survey
WEST LAUDERDALE CO WATER & FPA	07/11/19	Site Inspection
WEST LAUDERDALE CO WATER & FPA	07/11/19	Sanitary Survey
WEST LAWRENCE WATER COOP	04/12/19	Sanitary Survey
WEST MORGAN-EAST LAWRENCE WATER AUTHORITY	03/06/19	Sanitary Survey
WESTROCK COATED BOARD, LLC	08/29/19	Operation and Maintenance
WETUMPKA WATER WORKS & SEWER BOARD	10/23/18	Sampling
WETUMPKA WATER WORKS & SEWER BOARD	12/14/18	Operation and Maintenance
WHITE HALL WATER BOARD	12/13/18	Sanitary Survey
WHITE HOUSE WATER SYSTEM, INC.	02/21/19	Operation and Maintenance
WHORTON BEND WATER AUTHORITY	02/01/19	Sanitary Survey
WILCOX COUNTY WATER AUTHORITY	05/09/19	Sanitary Survey
WILDERNESS RV PARK	09/17/19	Sanitary Survey
WILLS CROSS ROADS WATER SYSTEM	01/09/19	Sanitary Survey
WILSONVILLE WATER WORKS	10/04/18	Sanitary Survey
WILTON WATER WORKS	10/04/18	Operation and Maintenance
WILTON WATER WORKS	03/20/19	Informal System Inspection
WINFIELD WATER WORKS & SEWER BOARD	07/16/19	Operation and Maintenance
WISE METALS GROUP, LLC (CONSTELLIUM)	06/13/19	Operation and Maintenance

WOLF CREEK WATER AUTHORITY	01/25/19	Sanitary Survey
WOODLAND WATER BOARD	06/04/19	Operation and Maintenance
YORK WATER SYSTEM/CITY OF YORK	04/10/19	Sanitary Survey
YORK WATER SYSTEM/CITY OF YORK	04/10/19	Sanitary Survey

APPENDIX B

Certified Chemical and Radiological Laboratories

<i>Laboratory</i>	<i>State</i>
Advanced Environmental Laboratories, Inc.	Alabama
AIRL	Tennessee
Alabama Department of Environmental Management	Alabama
Babcock Laboratories, Inc.	California
Birmingham Water Works Board	Alabama
CMSI Chemical Laboratory	Alabama
Eastern Analytical	New Hampshire
Eberline Services – Oak Ridge Laboratory	Tennessee
EMSL Analytical, Inc.	New Jersey
Energy Testing Laboratory	Wyoming
Pace Analytical National Center for Innovation Decatur	Alabama
Pace Analytical National Center for Innovation Tennessee	Tennessee
Environmental Resource Analysts	Alabama
Eurofins Eaton Analytical	California
Eurofins Eaton Analytical – South Bend	Indiana
Florida Radiochemistry	Florida
Guardian Systems	Alabama
KNL Laboratory Services	Florida
Mobile Field Office – ADEM	Alabama
Montgomery Industrial Waste Laboratory	Alabama
National Testing Laboratories	Michigan
Pace Analytical Services – Mobile	Alabama
Pace Analytical Services - Minnesota.	Minnesota
Pace Analytical Services - Florida	Florida
Pace Analytical Services – Pittsburgh	Pennsylvania
Pace Analytical Services – Madisonville, KY	Kentucky
Southern Environmental Testing	Alabama
Stillbrook Environmental Testing lab	Alabama
Sutherland Environmental Testing Laboratory	Alabama
TestAmerica Pensacola	Florida
TestAmerica Savannah	Georgia
Pace Analytical Tuscaloosa	Alabama
Waypoint Analytical	Tennessee

APPENDIX C

Certified Bacteriological Laboratories

<i>Laboratory ID</i>	<i>Laboratory</i>	<i>Type</i>
30140	Albertville City Laboratory	Municipal
30080	Alexander City Laboratory	Municipal
30160	Anniston Water Works Laboratory	Municipal
30210	Bessemer Utilities Laboratory	Municipal
30010	Birmingham Water Works Board	Municipal
30270	Bridgeport Water Treatment Plant Laboratory	Municipal
30070	Chattahoochee Valley	Municipal
41080	Environmental Resource Analysts	Commercial
40310	Environmental Technical Services Mobile	Commercial
30240	Five Star Filter Plant Bacteriological Laboratory	Municipal
30030	Gadsden Water Works Laboratory	Municipal
40050	Guardian Systems	Commercial
30300	Houston County Regional Lab	State
20060	Huntsville Utilities Laboratory	Municipal
30250	Limestone County Bacteriological Laboratory	Municipal
30310	Madison County Water Laboratory	Municipal
41760	Mississippi Department of Health	State
10060	Mobile Branch Laboratory	State
30040	Mobile Water Service Laboratory	Municipal
10070	Montgomery Branch Laboratory	State
30220	Montgomery Industrial Waste Laboratory	Municipal
30050	Montgomery Water Works Laboratory	Municipal
30330	Northeast Alabama Water District Testing Laboratory	Municipal
30170	Opelika Water Works Laboratory	Municipal
40810	Pace Analytical Services Mobile	Commercial
40160	Pace Analytical National Center for Innovation Decatur	Commercial
41570	Pace Analytical Montgomery	Commercial
40170	Pace Analytical Tuscaloosa	Commercial
30060	Phenix City Water Works Laboratory	Municipal
41650	Polyenvironmental Corporation	Commercial
30320	Smiths Water Laboratory	Municipal
40570	Southern Environmental Testing	Commercial
30130	Tuscaloosa Water Laboratory	Municipal

APPENDIX C