

STATE OF GEORGIA
DRINKING WATER STATE REVOLVING FUND PROGRAM
STATE FISCAL YEAR 2018 ANNUAL REPORT



Working together for safe drinking water for all Georgians

Prepared by the
GEORGIA ENVIRONMENTAL FINANCE AUTHORITY
for the
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IV
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**DRINKING WATER STATE REVOLVING FUND ANNUAL REPORT
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STATE OF GEORGIA DRINKING WATER STATE REVOLVING FUND PROGRAM STATE FISCAL YEAR 2018 ANNUAL REPORT

INTRODUCTION

The Drinking Water State Revolving Fund (DWSRF) program provides assistance to public water systems for capital improvement projects in Georgia to protect public health through regulatory compliance, ensure adequate water supply, and promote the goals of the federal Safe Drinking Water Act of 1974 (SDWA), as amended. The 1996 amendments to the SDWA (Pub. L. 104-182) authorized the administrator of the U.S. Environmental Protection Agency (EPA) to establish a DWSRF loan program to assist states in financing local public water system infrastructure needed to achieve or maintain compliance with SDWA requirements in order to protect public health. In accordance with the DWSRF Program Guidelines published by the EPA Office of Water (816-R-97-005) in February 1997, each capitalization grant recipient must submit at least a biennial report on the activities of the DWSRF. This FY2018 DWSRF Program Annual Report covers both the program and set-aside activities, and compares these activities to the activities proposed in the 2017 Intended Use Plan (IUP).

The Georgia Environmental Finance Authority (GEFA) was created by the Georgia General Assembly in 1986 as the successor agency to the Georgia Development Authority Environmental Facilities Program. GEFA serves as the central state agency for assisting local governments in financing the construction, extension, rehabilitation, replacement, and securitization of public works facilities. The governor of Georgia appoints eight members to the GEFA board of directors and three ex-officio members are designated by the GEFA's enabling legislation. The Georgia Environmental Protection Division (EPD) provides some professional services for the DWSRF. These services include: project reviews and approvals; planning; project development; information tracking; information gathering and development of the National Needs Survey; issuing Notices of No Significant Impacts (NONSIs) and Categorical Exclusions (CE); assistance with the National Information Management System (NIMS) and administration of EPD's set-aside activities and certain sections of the Drinking Water Benefits reporting database.

EXECUTIVE SUMMARY

In June 2017, GEFA submitted the IUP and application for the 2017 DWSRF grant. The 2017 DWSRF grant was awarded on August 17, 2017, for \$17,968,000. On June 30, 2018, the 2018 DWSRF grant application and IUP was submitted to EPA for \$26,175,000 and awarded on August 8, 2018. Funds from the EPA received by Georgia's DWSRF through June 30, 2018, total \$443,992,847. Georgia's required state match is \$81,458,719 for a total of \$525,451,566.

Attachment 1 shows the total sources of funds by quarter during state Fiscal Year 2018 (FY2018) including federal grant funds, state match contributions, repayments from direct federal loans, repayments from state match loans, and interest earnings generated from these accounts. Attachment 1 also shows the closing fees collected by quarter. Attachment 2 shows the balances within these accounts as of June 30, 2018.

The DWSRF executed 30 new assistance agreements in FY2018 for a total of \$50,205,000. This total assistance amount includes \$46,077,392 in low-interest loans and \$4,127,608 in principal forgiveness funds (Attachment 3). Attachment 4 shows information about these projects in the NIMS format. The DWSRF provided \$14,613,984 to small water systems servicing fewer than 10,000 residents, while \$8,474,375 was provided to small water systems servicing fewer than 3,300 residents. Lastly, GEFA and EPD have entered all necessary information into the Drinking Water Benefits reporting database for projects funded through state FY2018.

All projects listed below were on the fundable list and are eligible public water systems. If the project was not the highest priority project at the time, it bypassed those higher priority projects according to the IUP bypass procedures. All commitments

were made to qualified local governments or water and sewerage authorities according to the requirements of the Georgia Department of Community Affairs (DCA), and all have a verified Service Delivery Strategy approved by DCA. Additionally, all loan recipients have the technical, managerial, and financial capability to operate a water system. Each project was also reviewed in accordance with the EPA-approved State Environmental Review Process (SERP) and was issued a NONSI or a CE. Below is a short description for each of the projects funded in state FY2018.

ADDITIONAL SUBSIDIZATION PROJECTS

Banks County Board of Commissioners (DW2016034)

On April 12, 2018, Banks County Board of Commissioners signed a \$310,000 assistance agreement, including \$61,886 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Banks County Board of Commissioners has drawn \$39,609.04 from this commitment.

Blue Ridge (DW2016036)

On February 7, 2018, Blue Ridge signed a \$250,000 assistance agreement, including \$49,970 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Blue Ridge has drawn \$104,099.90 from this commitment.

Comer (DW16003)

On September 18, 2017, Comer signed a \$125,000 increase to the existing \$362,000 assistance agreement entered on October 24, 2016, including \$144,800 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and installing PVC water mains. As of the end of state FY2018, Comer has drawn \$487,000 from this commitment.

Coweta County Water and Sewerage Authority (DW2016012)

On June 6, 2018, Coweta County Water and Sewerage Authority signed a \$7,400,000 assistance agreement, including \$500,000 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system, backflow preventers, and related appurtenances. As of the end of state FY2018, Coweta County Water and Sewerage Authority has not drawn any funds from this commitment.

Ellaville (DW2016046)

On March 12, 2018, Ellaville signed a \$501,000 assistance agreement, including \$100,086 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Ellaville has not drawn any funds from this commitment.

Flovilla (DW2016037)

On April 16, 2018, Flovilla signed a \$297,000 assistance agreement, including \$59,400 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Flovilla has not drawn any funds from this commitment.

Harris County Board of Commissioners (DW2016030)

On March 7, 2018, Harris County Board of Commissioners signed a \$1,812,000 assistance agreement, including \$362,294 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Harris County Board of Commissioners has not drawn any funds from this commitment.

Hart County Water and Sewer Authority (DW15032)

On February 5, 2018, Hart County Water and Sewer Authority signed a \$365,000 agreement, including \$110,000 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system

and related appurtenances. As of the end of state FY2018, Hart County Water and Sewer Authority has not drawn any funds from this commitment.

Hinesville (DW2016021)

On February 14, 2018, Hinesville signed a \$2,605,000 assistance agreement including \$500,000 in principal forgiveness. This project includes raising three existing elevated water storage tanks, removing a tank from service, rehabilitating wells and well building, and related appurtenances. As of the end of state FY2018, Hinesville has not drawn any funds from this commitment.

Homer (DW2016014)

On June 21, 2018, Homer signed a \$450,000 agreement, including \$90,000 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Homer has not drawn any funds from this commitment.

Kingsland (DW2017016)

On January 24, 2018, Kingsland signed a \$1,500,000 assistance agreement, including \$300,000 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system, installing clearwell at the water treatment plant, demolishing a public works building, and related appurtenances. As of the end of state FY2018, Kingsland has not drawn any funds from this commitment.

McRae-Helena (DW2016018)

On October 26, 2017, McRae-Helena signed a \$2,326,000 assistance agreement, including \$465,820 in principal forgiveness. This project includes rehabilitating the water distribution system, installing water lines, replacing water meters with an automatic meter reading (AMR) system, and related appurtenances. As of the end of state FY2018, McRae-Helena has drawn \$98,607.78 from this commitment.

Quitman (DW2016043)

On May 22, 2018, Quitman signed a \$1,467,000 assistance agreement, including \$293,307 in principal forgiveness. This project includes installing an advanced metering infrastructure (AMI) system, rehabilitating wells, and related appurtenances. As of the end of state FY2018, Quitman has not drawn any funds from this commitment.

Roberta (DW15008)

On January 2, 2018, Roberta signed a \$25,000 increase to the existing \$725,000 assistance agreement entered on October 25, 2016, including \$290,000 in principal forgiveness. This project includes decommissioning an elevated storage tank, installing water mains and pressure valves, replacing water meters with automatic meter reading (AMR) system and upgrading the existing telemetry system. As of the end of state FY2018, Roberta has drawn \$750,000 from this commitment.

Satilla Regional Water and Sewer Authority (DW2016027)

On December 14, 2017, Satilla Regional Water and Sewer Authority signed a \$1,685,000 assistance agreement, including \$336,845 in principal forgiveness. This project includes replacing water meters with an automatic meter reading (AMR) system, installing backflow preventers, and related appurtenances. As of the end of state FY2018, Satilla Regional Water and Sewer Authority has drawn \$1,090,385.51 from this commitment.

Schley County Utilities Authority (DW2016038)

On March 20, 2018, Schley County Utilities Authority signed a \$406,000 assistance agreement, including \$81,200 in principal forgiveness. This project includes installing a well filtration system. As of the end of state FY2018, Schley County Utilities Authority has not drawn any funds from this commitment.

Thomaston (DW15022)

On September 21, 2017, Thomaston signed a \$2,250,000 assistance agreement, including \$500,000 in principal forgiveness. This project includes replacing water mains, fire hydrants, valves, service line connections, and related appurtenances. As of the end of state FY2018, Thomaston has drawn \$13,636.25 from this commitment.

Towns County Water and Sewerage Authority (DW2018003)

On June 5, 2018, Towns County Water and Sewerage Authority signed a \$1,015,000 assistance agreement, including \$203,000 in principal forgiveness. This project includes replacing a booster pump station, water lines, and related appurtenances. As of the end of state FY2018, Towns County Water and Sewerage Authority has not drawn any funds from this commitment.

BASE DWSRF PROJECTS

Allentown (DW2016029)

On July 7, 2017, Allentown signed a \$42,000 assistance agreement. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Allentown has drawn \$4,500 from this commitment.

Bartow County (DW2017003)

On August 2, 2017, Bartow County signed a \$6,230,000 assistance agreement. This project includes installing an elevated water tank, service lines, water meters, and related appurtenances. As of the end of state FY2018, Bartow County has drawn \$1,497,755.64 from this commitment.

Camilla (DW2016035)

On October 6, 2017, Camilla signed a \$1,406,000 assistance agreement. This project includes installing water mains, fire hydrants, valves, an advanced metering infrastructure (AMI) system, and related appurtenances. As of the end of state FY2018, Camilla has drawn \$997,191.70 from this commitment.

Chickamauga (DW2017010)

On May 2, 2018, Chickamauga signed a \$400,000 assistance agreement. This project includes constructing a new well and chemical feed building, rehabilitating a water tank, and related appurtenances. As of the end of state FY2018, Chickamauga has not drawn any funds from this commitment.

Dawsonville (DW2017009)

On September 21, 2017, Dawsonville signed a \$569,000 assistance agreement. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Dawsonville has drawn \$500,505.51 from this commitment.

Homer (DW2016015)

On June 21, 2018, Homer signed a \$700,000 assistance agreement. This project includes rehabilitating a steel standpipe, installing a new well and well house, and related appurtenances. As of the end of state FY2018, Homer has not drawn any funds from this commitment.

Milledgeville (DW2018006)

On June 12, 2018, Milledgeville signed a \$3,000,000 assistance agreement. This project includes planning, design, and permitting services for a new water treatment plant. As of the end of state FY2018, Milledgeville has not drawn any funds from this commitment.

Monticello (DW2017021)

On November 21, 2017, Monticello signed a \$3,336,000 assistance agreement. This project includes purchasing 705 acres of land containing six groundwater wells. As of the end of state FY2018, Monticello has drawn \$3,336,000 from this commitment.

Pelham (DW2016040)

On March 27, 2018, Pelham signed a \$20,000 increase to the existing \$510,000 assistance agreement entered on May 25, 2017. This project includes replacing water meters with an automatic meter reading (AMR) system and related appurtenances. As of the end of state FY2018, Pelham has drawn \$504,292.52 from this commitment.

Perry (DW2017006)

On December 21, 2017, Perry signed a \$7,800,000 assistance agreement. This project includes constructing a new water treatment plant, two wells, and related appurtenances. As of the end of state FY2018, Perry has drawn \$524,015.60 from this commitment.

Pickens County (DW2017012)

On May 2, 2018, Pickens County signed a \$1,413,000 assistance agreement. This project includes constructing water distribution lines and related appurtenances. As of the end of state FY2018, Pickens County has drawn \$23,491.73 from this commitment.

St. Marys (DW2017002)

On February 5, 2018, St. Marys signed a \$500,000 assistance agreement. This project includes renovating three ground level concrete clearwells and related appurtenances. As of the end of state FY2018, St. Marys has not drawn any funds from this commitment.

MEETING IUP GOALS AND OBJECTIVES

The 2017 DWSRF IUP listed three goals for the program.

1. To reduce unliquidated obligations within the DWSRF, GEFA will identify strategies to increase the use of DWSRF set-aside funds. This includes identifying and funding on-going and future set-aside activities for maximizing the use of all set-aside spending.

Status: In FY2018, GEFA continued its commitment to support Georgia's communities by allocating 10 percent of the DWSRF grant to assisting statewide programs and 15 percent of the grant for local assistance. By partnering with EPD, GEFA was able to implement the following set-aside activities: source water assessment program plan, threat of waterborne disease plan, information management plan, capacity development plan, statewide water management plan, water conservation and efficiency plan, and wellhead protection plan. As of June 30, 2018, \$5,708,413.77 was spent on set-aside activities in FY2018, which shows significant progress on reducing unliquidated obligations.

2. Complementary to goal number one, GEFA will spend down and close the FY2014 grant by June 30, 2017. Additionally, GEFA will spend down the FY2015 grant by June 30, 2018. This will allow GEFA to meet EPA's DWSRF unliquidated obligations reduction strategy.

Status: GEFA closed the FY2014 grant in May 2018, and the FY2015 grant was closed in February 2018.

3. GEFA will continue to emphasize the protection of public health through safe drinking water. The primary goal of the DWSRF program is public health through regulatory compliance. By financing water system improvements on the FY2017 project list, a revolving loan program will be created where each community assisted by the DWSRF program is provided affordable safe drinking water.

Status: GEFA continues to focus on the protection of public health by financing water system improvements through the revolving loan program. With a focus on affordable safe drinking water, in FY2018, the GEFA board of directors approved raising the maximum amortization period to 30 years for communities designated as disadvantaged. The designation will be based on GEFA's affordability criteria and the loan term may not exceed the useful life of the project. Allowing a 30-year term for qualifying communities will allow new financing options not previously available to improve water systems throughout the state.

DWSRF LOAN DISBURSEMENTS

The DWSRF disbursed funds to 66 active projects during state FY2018. Attachment 5 shows projects that received funds by quarter in state FY2018. The DWSRF disbursed a total of \$41,382,675.29 in state FY2018. Many of these projects received a mix of additional subsidization, base DWSRF funds, and state match funds. Attachment 6 compares the projected disbursement schedules indicated within the 2017 and 2018 IUPs for state FY2018 against the actual disbursements made in state FY2018. The DWSRF disbursed 220% percent of projected disbursements in state FY2018.

DWSRF STATE MATCH

During state FY2018, projects that received federal capitalization grant dollars used a cash draw ratio of 77.53 percent federal dollars and 22.47 percent state match dollars. GEFA is considering implementing a new process whereby state match funds are disbursed before federal funds, upon prior approval from EPA. This new approach will closely align with EPA's suggested methodology. GEFA received sufficient general obligation bond funds from the state to match the DWSRF program at 20 percent. These bond funds will be deposited into the same DWSRF fund as grant payments are made. Attachment 1 shows the amount of state match funds provided during state FY2018 by quarter.

DWSRF LOAN REPAYMENTS

In state FY2018, 31 projects closed in the DWSRF for a total of \$50,063,072 in commitments (Attachment 7). The total dollar value disbursed to these 31 projects within state FY2018 was \$48,510,736.43, which equals 97 percent of the contracted amount. All projects completed the construction phase and entered the repayment phase of the DWSRF loan process. To maintain the revolving nature of the DWSRF, repayments including the principal, interest, and fees are credited to the DWSRF. The repayments credited to the DWSRF from federal and state match projects along with the interest earnings from these accounts totaled \$17,714,740.96 (Attachment 1).

ASSURANCES AND SPECIFIC PROPOSALS

The DWSRF adheres to the certifications covered in the SDWA and those within Georgia's Operating Agreement with the regional EPA office. The specific certifications are:

1. Capitalization Grant Agreement
2. Payment Schedule
3. State Matching Funds
4. Commitment of 120 percent in One Year
5. Timely Expenditures
6. Enforceable Requirements of the Safe Drinking Water Act
7. Cross Cutting Issues
8. State Law and Procedures
9. State Accounting and Auditing Procedures
10. Recipient Accounting and Auditing Procedures
11. Annual Report

12. Limitations on Eligibility
13. Environmental Review Process
14. Maintain the Fund
15. Perpetuity
16. Types of Assistance
17. Priority List
18. Annual Audit
19. Intended Use Plan
20. Annual Federal Oversight Review and Technical Assistance
21. Dispute Resolution
22. Reserve the right to transfer up to 30% of grant amount between programs
23. NIMS
24. PBR

A copy of the state FY2018 unaudited financial is provided under separate cover.

DISADVANTAGE BUSINESS ENTERPRISE (DBE) PARTICIPATION

Within GEFA's agreement, recipients are required to encourage participation of small, minority- and women-owned businesses in all project subcontracts. The state's DWSRF percentage goal through September 30, 2018, is four percent for Minority Business Enterprises (MBE) and four percent for Women Business Enterprises (WBE). A summary of DBE utilization is in Attachment 9. The data provided in Attachment 9 is for the reporting period of October 1, 2016 through September 30, 2017, representing the most recent full fiscal year of data reported.

GEFA has made a tremendous effort to comply with the EPA's Six Good Faith Efforts. Telephone calls and emails are regularly made to DBE subcontractors to encourage their participation both the CWSRF and DWSRF projects. DBE's are alerted to GEFA-approved projects as soon as they appear in our database, allowing subcontractors to inquire and prepare for these projects prior to the bid date. Subcontractors are urged to pursue EPA/Georgia Department of Transportation (DOT)/ Small Business Administration certification. GEFA staff are available to answer questions and assist subcontractors in the application process. GEFA also maintains an in-house bidder's list of certified DBE prime and subcontractors. The data for the bidder's list is collected and forwarded to loan recipients with compliance approval. The bidder's list also serves as a database of MBE and WBE and non-MBE/WBE prime and subcontractors.

In considering whether firms could subcontract with DBEs, GEFA encourages prime contractors to follow the Six Good Faith Efforts to solicit the services of minority- and women-owned businesses and withholds approval for a project if documentation is insufficient. Prime contractors are provided with an example of an EPA-approved newspaper advertisement and an example of a solicitation letter to eliminate generic newspaper advertisements and poorly-written letters. The Georgia Department of Transportation, city of Atlanta, Small Business Administration, and MARTA are several resources for prime contractors in its solicitation for identifying DBE-certified subcontractors. In addition, an EPA bidder's list is available upon request from GEFA. Guidance is provided in all related construction contracts to encourage prime contractors to divide work when feasible.

PROGRAM ADMINISTRATION (4 PERCENT)

In state FY2018, GEFA and EPD spent \$718,720 on program administration. Administrative and programmatic services provided by EPD include: project reviews; planning; reviewing and uploading needs surveys; and issuing NONSIs and CEs (Attachment 8).

During state FY2018, the GEFA Water Resources Division processed 66 DWSRF project draw requests.

SMALL SYSTEM TECHNICAL ASSISTANCE (2 PERCENT)

During state FY2018, Georgia spent \$295,350 via a contract with the Georgia Rural Water Association (GRWA) to provide "circuit rider" type technical activities including technical and managerial assistance and Synthetic Organic Compound (SOC) sampling. Under the provisions of this contract, GRWA is required to provide up to 10 percent of the visits within 48 hours of notification by EPD to quickly address problems posing an immediate threat to public health.

The visits made by GRWA technicians fall into the following categories: actual compliance, potential compliance, water conservation, managerial, finance, operational maintenance, and water treatment. The variety of technical assistance provided by the circuit-rider technicians includes, but is not limited to, rate studies, water audits and leak detection surveys, pipe and valve location services, infrastructure assessments, source water protection, operation and maintenance programs, on-site operational assistance, troubleshooting and problem-solving, fluoridation equipment evaluations and inspections, and the identification of financing alternatives.

For the contract period from July 1, 2017, to June 30, 2018, a total of 3,390 face-to-face contact visits were made to small water systems requiring technical assistance. This contract also requires GRWA to perform SOC sampling for public water systems throughout the state on a scheduled basis. During state FY2018, 360 visits were made in order to collect and submit the required SOC samples to the EPD laboratory.

ASSISTANCE TO STATE PROGRAMS (10 PERCENT)

States are allowed to use up to 10 percent of its capitalization grant to provide funding for certain activities that provide "Assistance to State Programs." These activities support Georgia's Public Water System Supervision Program (PWSS) and include: operator training and certification; cross-connection control; EPD's Cryptosporidium Strategy; capacity development; source water assessment and wellhead protection; information management; and water conservation and efficiency.

The following is a summary of activities funded under the 10 percent set-aside to assist in the implementation SDWA.

PUBLIC WATER SYSTEM SUPERVISION OPERATOR TRAINING

The Georgia State Board of Examiners for the Certification of Water and Wastewater Treatment Plant Operators and Laboratory Analysts was created by legislation enacted in 1969 for the purpose of protecting the public health, safety, and welfare by establishing minimum qualifications for persons who operate public water supply treatment plants, water distribution systems, wastewater treatment plants, wastewater collection systems, or who conduct certain tests of water or wastewater samples in conjunction with the operation of public water system or wastewater treatment plants.

The certification board is part of the Professional Licensing Boards Division of the Office of the Secretary of State and is comprised of six members appointed by the governor. Five are active in the profession and one is a member from the public at large. At least two of the six board members must be operators. All members are appointed for four year terms. The board meets six times per year.

The board certifies six categories of licenses for public water system operators and laboratory analysts. Currently, 4,937 licensees hold current certificates. Requirements for all categories include education, training, experience, and passage of a validated certification examination. The table below shows the number of certified operators by classification level for the reporting period 2004-2017. The data is also used to establish a baseline for EPD to measure progress in operator training and certification.

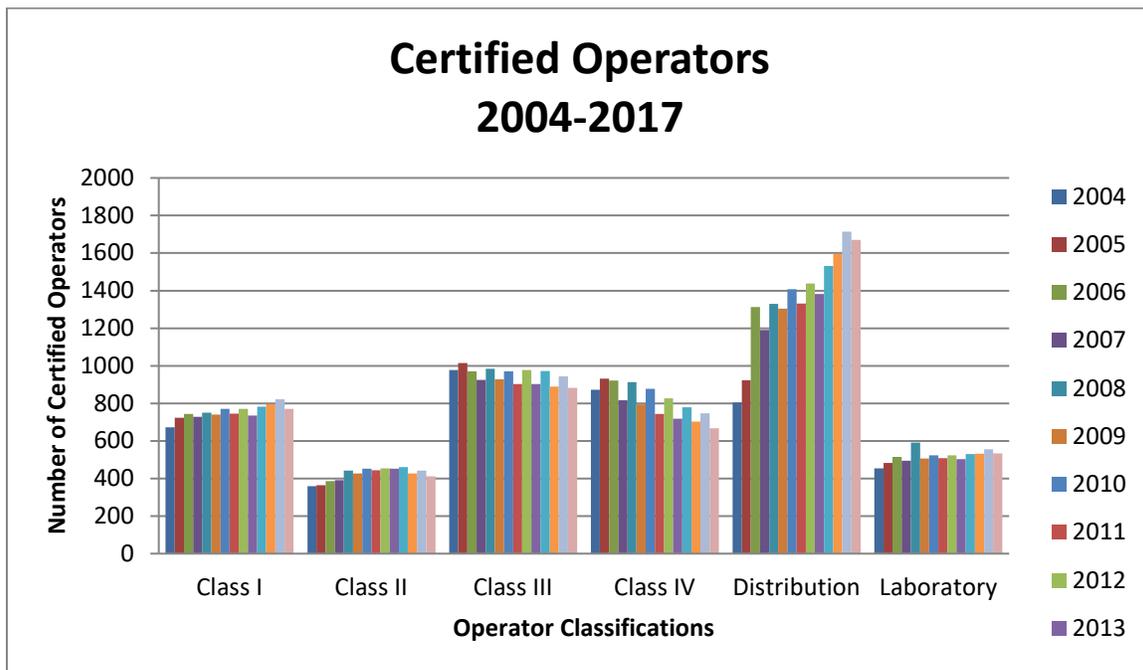
Georgia's operator certification program was revised to include an exam for Class IV Water Operators in accordance with federal guidelines. The exam requirement for prospective Class IV Water Operators ensures these licensed operators have

the required knowledge and ability to successfully operate and maintain groundwater systems that serve populations of 25 to 999 people. The exams for all operator classification levels are developed and validated by the Association of Boards of Certification. In its capacity development program, EPD has utilized many resources and has placed a very high priority on operator training and certification. EPD realizes the importance of experienced, certified operators having the necessary knowledge and training to properly operate and maintain a public water system.

Table 1. Certified operators licensed in Georgia by year and classification level.

Operator License	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Class I	672	723	744	729	750	741	770	746	771	735	783	796	821	771
Class II	359	364	386	391	442	427	453	444	454	452	461	427	442	412
Class III	977	1,015	971	925	984	929	971	903	978	903	973	890	943	882
Class IV	872	932	922	817	913	794	878	743	827	718	779	703	747	667
Distribution	805	923	1,132	1,190	1,330	1,304	1,407	1,332	1,438	1,383	1,531	1596	1715	1671
Laboratory	454	482	515	494	592	507	524	508	524	503	531	532	555	534
Total	4,139	4,439	4,670	4,546	5,011	4,702	5,003	4,676	4,992	4,694	5,058	4,944	5,223	4,937

Table 1. Certified operators licensed in Georgia by year and classification level.



CROSS CONNECTION CONTROL

EPD has worked with GAWP to establish a state certification and re-certification program for backflow assembly testers using the American Backflow Prevention Association's nationally recognized certification program.

EPD requires all backflow prevention devices connected to any public water system be tested annually by backflow prevention assembly testers holding a valid certification from a tester certification program recognized by the EPD. GAWP has worked

under contract to assist EPD in establishing and maintaining the Statewide Backflow-Prevention Tester Certification Program. GAWP has been designated by EPD to administer the certification program by utilizing exams provided by the Association of Boards of Certification. In addition, the American Backflow Prevention Association, the American Society of Sanitary Engineering, and the University of Florida/TREEO Center have been approved as official certification programs and are authorized to provide certification exam results to GAWP to license backflow assembly testers. Approximately 2,478 backflow prevention professionals have been certified since the beginning of the program.

IMPLEMENTATION OF EPD'S CRYPTOSPORIDIUM STRATEGY

During state FY2018, EPD utilized 10 percent set-aside funding to continue the implementation of its Cryptosporidium Strategy Program, including the following activities:

1. Continued implementation of the federal Surface Water Treatment Rule (SWTR);
2. Implementation activities associated with the Interim Enhanced Surface Water Treatment Rule (IESWTR) for surface water systems serving more than 10,000 people;
3. Activities required under the Long-Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR) for surface water systems serving less than 10,000 people;
4. Activities required under the Long-Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR) for surface water systems serving less than 3,300 people;
5. Activities required under the Long-Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) for all surface water systems and the Stage 2 D/DBPR for all surface and all groundwater systems.

During this reporting period, EPD performed source water monitoring at the surface water supply intakes for *cryptosporidium*, *E. coli* and turbidity, as required by early implementation requirements of the LT2ESWTR. The *cryptosporidium* monitoring is conducted monthly for 24 consecutive months. At the end of the monitoring period, EPD determines whether any of the systems will be required to perform additional treatment techniques to inactivate and/or remove existing pathogens based on the *cryptosporidium* concentration of the source water (bin classification). Twenty-seven surface water systems began their second round of monitoring in October 2011 and ended in September 2013. Thirty surface water systems began their second round of monitoring in October 2013 and ended September 2015. Forty-two surface water systems began their second round of monitoring in October 2015 and will end in September 2017. Thirty-three small surface water systems are scheduled to begin their second round of monitoring in October 2017, and will end in September 2019.

Other important aspects of EPD's Cryptosporidium Strategy Program include conducting sanitary surveys, conducting system inspections and providing on-site technical assistance. EPD regularly conducts scheduled sanitary surveys for all public water systems in Georgia. The principal purpose is to identify and resolve problems that may potentially pose a threat to public health. The sanitary surveys address eight components required by the EPA including: water source, treatment, distribution system, finished water storage, pumps, pump facilities and controls, monitoring and reporting and data verification, system management and operation, and operator compliance with state requirements. The sanitary survey report provides official, written documentation to water system officials outlining the improvements that need to be made to their system.

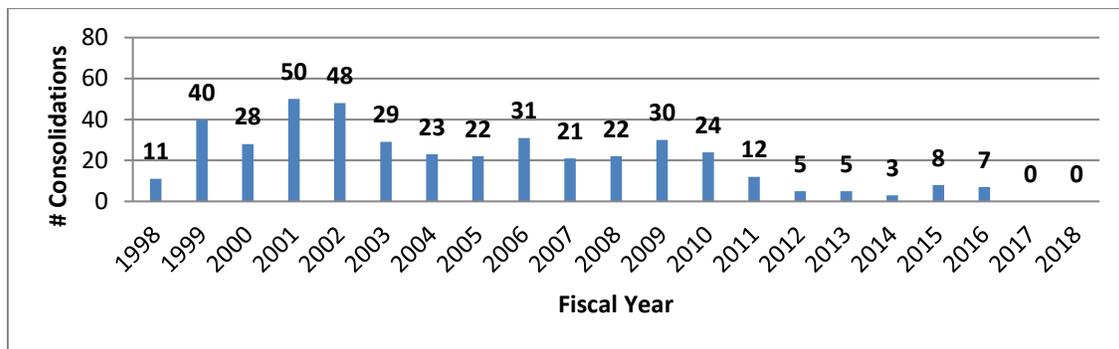
CAPACITY DEVELOPMENT PROGRAM

During state FY2018, EPD utilized funds from the 10 percent set-aside for activities associated with the implementation of Georgia's capacity development strategy, which was approved by EPA on September 21, 2000. As an important part of Georgia's capacity development strategy, EPD requires all new community and non-transient non-community public water systems, and those undergoing ownership changes, to develop a business plan to demonstrate adequate managerial and financial capacity. The business plan, in most cases, is required prior to issuance of the initial permit to operate or prior to the transfer of the existing operating permit. As of June 30, 2018, EPD has received 1,129 business plans. During state FY2018, 101 business plans were received from 39 new public water systems and 62 existing water systems.

In addition to this requirement, all surface water and Ground Water Under Direct Influence (GWUDI) treatment plants are required to develop Operation & Maintenance (O&M) Plans, in accordance with the latest edition of the Division's "Guidance Manual for Preparing Public Water Supply O&M Plans." The O&M Plan is required prior to the start-up and permitting of a new surface water plant or GWUDI treatment plant. In addition, if not already on file with EPD, existing surface water and GWUDI systems are required to prepare an O&M Plan within the compliance schedule established for this deficiency in the sanitary survey. Groundwater systems with significant violations must develop business plans and/or O&M Plans, as required by EPD. These actions are intended to help both new and existing systems to stay in compliance with existing and future regulations. As of June 30, 2018, EPD has received detailed O&M Plans from 78 surface water or GWUDI systems.

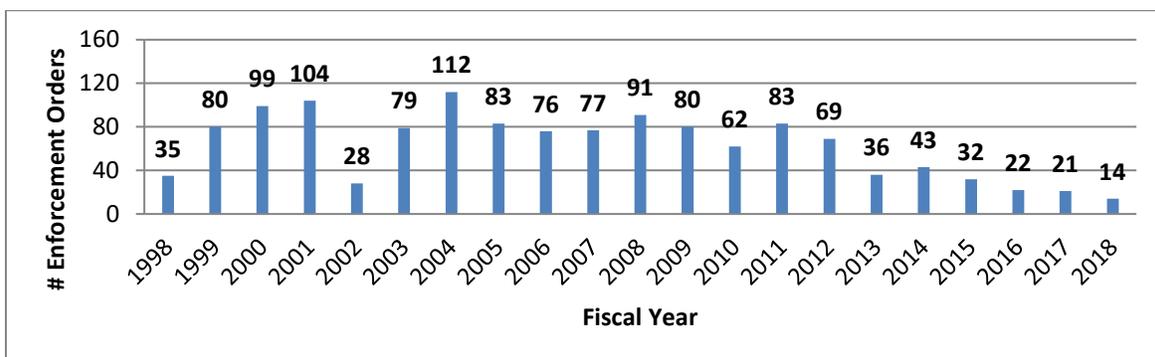
EPD utilizes informal and formal enforcement actions, such as written Notices of Violations (NOVs), Consent Orders, and Administrative Orders to promote compliance with federal and state drinking water regulations. Enforcement is an important tool in dealing with public water systems that lack adequate capacity. EPD's stringent enforcement program has been a significant factor in encouraging private public water systems with limited capacity to physically merge or consolidate with local governmentally-owned water systems or water authorities. Table 2 below shows the number of consolidations for public water systems in Georgia. During state FY2018, the state has zero consolidations with governmentally-owned water systems. However, four small privately owned public water systems consolidated with large privately-owned community water systems.

Table 2. Consolidations with governmentally owned water systems or water authorities



The continued use of negotiated settlements in the form of Consent Orders seems to be the most effective enforcement mechanism, rather than mandatory fines or civil penalties. Consent Orders allow EPD the flexibility to set appropriate penalties based upon the level of deficiencies and the negotiated plan to correct individual system violations in a timely manner. Table 3 shows the number of enforcement orders issued for violations of the SDWA and/or the permit to operate a public water system.

Table 3. Enforcement Orders for public water systems



SOURCE WATER / GROUND WATER INVESTIGATIONS

During state FY2018, EPD performed activities associated with the implementation of Georgia's Source Water Assessment and Protection Plan. Funds utilized under this category support salary, travel, professional development, and associated miscellaneous expenses for two positions: one geographic information systems (GIS) specialist 3 and one environmental specialist 3.

The GIS specialist 3 administered the GIS Public Water System (PWS) database by updating locational data for public water system withdrawal sources, including surface water intakes, groundwater wells, and springs. The work also included updating and reviewing data for water-supply watersheds and associated Source Water Assessment Plan (SWAP) management zones. Information from the Wellhead Protection Program (WHPP) was also incorporated into this database, including spatial and tabular data derived from WHPP plans, karst PWS source delineations, and potential pollution sources. The GIS specialist 3 also coordinated GIS tasks for Regional Water Planning activities and the ongoing drought. This included both spatial analysis and cartographic production in support of the EPD Director's Office and various programs within the Watershed Protection Branch.

For privately-owned groundwater systems, SWAPs are being completed by the environmental specialist 3 and other in-house staff. Approximately 3,374 source water assessments were prepared from July 1, 2001, through June 30, 2018. During state FY2018, 250 SWAPs were completed for privately-owned community ground water systems, 65 SWAPs were completed for privately-owned transient non-community ground water systems, and 28 SWAPs were completed for privately-owned non-transient non-community ground water systems. This activity for the privately-owned ground water systems will continue in the future. SWAPs are one way EPD ensures safe drinking water for large and small governmentally- and privately-owned public water systems around the state.

GEORGIA ASSOCIATION OF WATER PROFESSIONALS (GAWP)

The GAWP Drinking Water System Capacity Development Support Program fields technical support requests for expertise advice and training. During this reporting period, GAWP sent numerous communication pieces, i.e. special advisories, utility notices, and regulatory updates, directly relevant to the regulated drinking water systems of Georgia. GAWP has an extensive electronic database that is available to the EPD for dissemination of critical information to Georgia's drinking water systems.

GAWP conducted conferences and workshops focused on providing training and continuing education opportunities for professionals in the water industry. In addition, GAWP conducted planning sessions for small, medium, and large utility directors and district director meetings to better address needs of the profession around the state.

LOCAL ASSISTANCE AND OTHER STATE PROGRAMS (15 PERCENT)

States may provide assistance, including technical and financial assistance, to public water systems as part of a capacity development strategy under Section 1420 (c) of the SDWA. States may also use the 15 percent set-aside to support the establishment and implementation of source water assessment and wellhead protection programs. The following provides a summary of the activities funded under the 15 percent set-aside category.

CAPACITY DEVELOPMENT PROGRAM

EPD performed inspections and provided on-site technical assistance and training for public water systems. The on-site visits included, but were not limited to, the following: water treatment plant site visits, operator training, emergency assistance, laboratory inspections, unscheduled system inspections, on-site technical assistance, special sample collections, complaint investigations, construction inspections, record reviews, source water inspections, location specific data collection, cross-connection inspections or investigations, watershed evaluations, and public hearings. On-site technical assistance is

beneficial since most drinking water violations result from water system owner/operator's failure to understand the complex monitoring regulations and failure to perform the required testing and reporting. EPD targets public water systems with poor compliance records and visits these systems on a more frequent basis than those without compliance issues or reporting problems.

During state FY2018, EPD's Watershed Compliance Program (WCP) conducted 35 sanitary surveys and performed 42 on-site inspections of public water systems treating surface water or groundwater under the direct influence of surface water. EPD's district offices conducted 526 sanitary surveys and performed 316 on-site inspections of public water systems using groundwater. EPD personnel provided 1,538 on-site technical assistance visits to water system owners and operators and responded to 138 citizen complaints.

The engineers in the DWP and EPD district offices review and approve engineering plans and specifications and conduct inspections of public water systems, including those under construction, to ensure adequate technical capacity. During the period July 1, 2017 to June 30, 2018, EPD's regulatory authority, which includes the delegated authority, reviewed and approved 408 water system projects for both new and expanding public water systems. The approved projects included, but were not limited to, the design and construction of new water source facilities (intakes, wells, and purchased water connections), water treatment plants (surface water and ground water facilities), finished water storage tanks, pumping facilities, water plant sludge/waste handling and disposal facilities, and water main additions and extensions to existing water distribution systems. EPD environmental engineers conducted inspections of public water systems, including those under construction, to help ensure these systems have adequate technical capacity.

WELLHEAD PROTECTION

During state FY2018, wellhead protection plans were updated for cities, counties, and water authorities when the permit to operate a public water system came up for renewal. New wellhead evaluations were completed for proposed wells to identify potential sources of contamination and any deficiencies in locating the proposed source of supply. During state FY2018, EPD staff completed 82 wellhead protection plans and 22 new wellhead evaluations.

DWSRF-funded associates supported the state geologist and statewide water planning efforts by reviewing and updating drilling plans and estimates for an extensive well program proposed by the state to define critical aquifer conditions including capacity and reserves.

Another geologist in the Watershed Protection Branch identified existing wells for sampling, obtained ground water samples for analyses, evaluated ground water quality, and documented results in reports. Other geologic personnel assisted the Drinking Water Program by evaluating permit applications and ensuring that new system locations comply with wellhead protection regulations.

GEORGIA RURAL WATER ASSOCIATION (GRWA)

During the year reporting period from July 1, 2017 to June 30, 2018, EPD used 2 percent and 15 percent set-aside funds to contract with GRWA for small system technical assistance and operator training (refer to Attachment B).

GRWA collected a total of 360 SOC samples and delivered them to the EPD Laboratory for analysis.

GRWA conducted 3,390 on-site technical assistance visits to water system owners and operators.

GRWA conducted a total of 12 small water system rules and regulatory training workshops to train 363 small water system personnel.

As part of their technical assistance, education, and outreach efforts, GRWA offers two educational conferences in Helen and Jekyll Island each year. 938 water and wastewater personnel and laboratory analysts attended these important training events.

Finally, during the period from July 1, 2017 to June 30, 2018, GRWA provided 159 Water Operator classes to 1,441 individuals on the following topics: Class IV Operator Training, Basic Water Training, Advanced Water Training, Backflow Training, Water Distribution Training, Water Lab Training, Water Exam Review Training, Fluoride Training, Management Training, and Basic Mathematics used in water system operation.

GEORGIA WATER AND WASTEWATER INSTITUTE (GWWI)

The Georgia Water and Wastewater Institute (GWWI) was incorporated in 1993 and today provides the majority of water and wastewater training in the State of Georgia, operating with financial assistance provided through contracts with EPD and modest tuition fees.

During the reporting period from July 1, 2017 to June 30, 2018, GWWI conducted 78 courses related to water, wastewater, and/or laboratory operations, and successfully trained 1,359 operators.

In the training sessions and workshops, GWWI's Technical Assistance, Education, and Outreach efforts reached 2,440 water and wastewater treatment plant operators, maintenance personnel, laboratory analyst, design engineers, consultants, and other professionals concerned about Georgia water and wastewater issues. Training topics included sessions on traditional issues including water and wastewater treatment plant operations, maintenance and design, rules and regulations, laboratory operations, security and safety, and timely discussions on policy issues including drought contingency planning, wastewater re-use, and legislative policy.

**ATTACHMENT 1
SOURCES AND USES OF FUNDS BY QUARTER
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Sources & Uses	Quarter 1 7/2017 - 9/2017	Quarter 2 10/2017 - 12/2017	Quarter 3 1/2018- 3/2018	Quarter 4 4/2018 - 6/2018	Total
Sources					
Direct Capitalization Grant Funds (Accrual Basis)	1,695,397.55	5,452,082.00	2,837,240.35	4,883,182.78	\$ 14,867,902.68
State Match Funds (Accrual Basis)	183,699.19	1,236,194.41	155,265.31	871,172.56	\$ 2,446,331.47
Repayments					
DWSRF Federal & State Principal Repayments	2,435,981.38	4,676,607.60	2,765,218.86	4,920,554.96	\$ 14,798,362.80
DWSRF Federal & State Interest Repayments	703,912.99	719,916.04	738,697.29	753,851.84	\$ 2,916,378.16
Fees Collected					
Closing Fee (program income)	188,525.12	127,810.00	143,460.00	144,660.00	\$ 604,455.12
Investment Earnings (Short & Long Term)					
DWSRF Federal Fund	359,225.36	367,527.35	433,001.36	528,341.21	\$ 1,688,095.28
DWSRF State Match Fund	132,625.07	146,565.63	182,674.38	230,801.52	\$ 692,666.60
Closing Fee (program)	10,712.31	10,820.46	12,119.38	14,515.68	\$ 48,167.83
Closing Fee (non-program)	516.04	589.53	748.80	988.68	\$ 2,843.05
Total Sources	5,710,595.01	12,738,113.02	7,268,425.73	12,348,069.23	\$ 38,065,202.99
Uses					
DWSRF Disbursements - Cap Grant	633,831.68	4,265,338.32	535,724.07	3,005,874.84	\$ 8,440,768.91
DWSRF Disbursements - State Match	183,699.19	1,236,194.41	157,287.61	871,172.56	\$ 2,448,353.77
DWSRF Disbursements - Repayments	12,262,313.56	8,925,476.70	5,280,592.73	4,018,191.92	\$ 30,486,574.91
DWSRF Program Income	290,882.98	558,865.44	203,752.99	357,687.56	\$ 1,411,188.97
DWSRF Non-Program Income	23.49	24.90	25.70	27.55	\$ 101.64
DWSRF Set-aside (2%)	-	73,837.50	73,837.50	147,675.00	\$ 295,350.00
DWSRF Administration (4%)	163,039.00	278,171.20	277,509.80	-	\$ 718,720.00
DWSRF Set-aside (10% & 15%)	898,526.87	834,734.98	1,950,168.98	1,729,632.94	\$ 5,413,063.77
Total Uses	14,432,316.77	16,172,643.45	8,478,899.38	10,130,262.37	49,214,121.97

**ATTACHMENT 2
DWSRF REPAYMENT ACCOUNTS
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Account	Balance*	Investment Earnings	Expected Uses of Funds
DWSRF Federal Repayment Fund	120,641,910.64	1,688,095.28	Project Funding
DWSRF State Match Repayment Fund	52,052,280.26	692,666.60	Project Funding
Closing Fee Account (Non-program)	229,858.74	2,843.05	Water Supply Related Activities
Closing Fee Account (Program)	3,094,706.48	48,167.83	DWSRF Activities
Total	176,018,756.12	2,431,772.76	

*Balance as of 06/30/2018

**ATTACHMENT 3
COMMUNITIES RECEIVING DWSRF FINANCIAL ASSISTANCE
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Community	Project Number	Population	Zip Code	Project Type	Total Assistance Agreements	Loan Only Amount	Principal Forgiveness Amount	Binding Commitment Date	Projected Loan Closeout Date	Loan Interest Rate	Fees (%) Collected Outside the Principal of the Loan
Allentown	DW2016029	169	31003	Base SRF	42,000.00	42,000.00	-	7/7/2017	10/1/2017	0.50%	1%
Banks County Board of Commissioners	DW2016034	2,329	30547	Additional Subsidization	310,000.00	248,114.00	61,886.00	4/12/2018	10/1/2018	0.89%	1%
Bartow County	DW2017003	56,000	30120	Base SRF	6,230,000.00	6,230,000.00	-	8/2/2017	12/1/2018	1.89%	1%
Blue Ridge, City of	DW2016036	718	30513	Additional Subsidization	250,000.00	200,030.00	49,970.00	2/7/2018	11/1/2018	0.89%	1%
Camilla, City of	DW2016035	5,360	31730	Base SRF	1,406,000.00	1,406,000.00	-	10/6/2017	4/1/2018	0.89%	1%
Chickamauga, City of	DW2017010	4,594	30707	Base SRF	400,000.00	400,000.00	-	5/2/2018	5/1/2019	1.89%	1%
Coweta County Water and Sewerage Authority	DW2016012	57,000	30263	Additional Subsidization	7,400,000.00	6,900,000.00	500,000.00	4/6/2018	12/1/2021	0.89%	1%
Comer, City of*	DW16003	1,185	30629	Base SRF	125,000.00	125,000.00	-	9/18/2017	12/1/2017	0.89%	1%
Dawsonville, City of	DW2017009	2,634	30534	Additional Subsidization	569,000.00	455,200.00	113,800.00	9/21/2017	12/1/2018	0.50%	1%
Ellaville, City of	DW2016046	1,850	31806	Additional Subsidization	501,000.00	400,914.00	100,086.00	3/12/2018	12/1/2018	0.89%	1%
Flovilla, City of	DW2016037	640	30216	Additional Subsidization	297,000.00	237,600.00	59,400.00	4/16/2018	9/1/2018	0.89%	1%
Harris County	DW2016030	22,356	31811	Additional Subsidization	1,812,000.00	1,449,706.00	362,294.00	3/7/2018	11/1/2019	0.89%	1%
Hart County Water and Sewer Utility Authority	DW15032	4,000	30643	Additional Subsidization	365,000.00	255,000.00	110,000.00	2/5/2018	12/1/2018	0.50%	1%
Hinesville, City of	DW2016021	33,437	31313	Additional Subsidization	2,605,000.00	2,105,000.00	500,000.00	2/14/2018	12/1/2018	0.89%	1%
Homer, Town of	DW2016014	950	30547	Additional Subsidization	450,000.00	360,000.00	90,000.00	6/21/2018	1/1/2021	0.88%	1%
Homer, Town of	DW2016015	950	30547	Base SRF	700,000.00	700,000.00	-	6/21/2018	1/1/2022	1.63%	1%
Kingsland, City of	DW2017016	16,000	31548	Additional Subsidization	1,500,000.00	1,200,000.00	300,000.00	1/24/2018	2/1/2019	0.50%	1%
McRae-Helena, City of	DW2016018	8,338	31055	Additional Subsidization	2,326,000.00	1,860,180.00	465,820.00	10/26/2017	8/1/2019	1.34%	1%
Milledgeville, City of	DW2018006	20,900	31061	Base SRF	3,000,000.00	3,000,000.00	-	6/12/2018	12/1/2018	2.25%	1%
Monticello	DW2017021	2,100	31046	Base SRF	3,336,000.00	3,336,000.00	-	11/21/2017	12/1/2017	1.89%	1%
Pelham, City of*	DW2016040	3,900	31779	Base SRF	20,000.00	20,000.00	-	3/27/2018	8/1/2018	0.89%	1%
Perry, City of	DW2017006	16,764	31069	Base SRF	7,800,000.00	7,800,000.00	-	12/21/2017	11/1/2019	1.89%	1%
Pickens County	DW2017012	1,500	30143	Base SRF	1,413,000.00	1,413,000.00	-	5/2/2018	12/1/2019	1.89%	1%
Quitman, City of	DW2016043	3,850	31643	Additional Subsidization	1,467,000.00	1,173,693.00	293,307.00	5/22/2018	11/1/2018	0.92%	1%
Roberta, City of*	DW15008	1,300	31078	Base SRF	25,000.00	25,000.00	-	2/1/2018	1/1/2018	1.49%	1%
Satilla Regional Water and Sewer Authority	DW2016027	14,311	31502	Additional Subsidization	1,685,000.00	1,348,155.00	336,845.00	12/14/2017	12/1/2018	0.65%	1%
Schley County Utilities Authority	DW2016038	5,000	31806	Additional Subsidization	406,000.00	324,800.00	81,200.00	3/20/2018	11/1/2018	0.89%	1%
St. Marys, City of	DW2017002	14,311	31558	Base SRF	500,000.00	500,000.00	-	2/5/2018	7/1/2018	1.40%	1%
Thomaston, City of	DW15022	450	30286	Additional Subsidization	2,250,000.00	1,750,000.00	500,000.00	9/21/2017	12/1/2018	0.89%	1%
Towns County Water and Sewer Authority	DW2018003	200	30582	Additional Subsidization	1,015,000.00	812,000.00	203,000.00	6/5/2018	12/1/2020	1.25%	1%
TOTAL					\$ 50,205,000.00	\$ 46,077,392.00	\$ 4,127,608.00				

*Increase to an existing agreement

ATTACHMENT 4
BINDING COMMITMENTS BY CATEGORY, POPULATION & DOLLAR VALUE
DRINKING WATER STATE REVOLVING FUND

FY2018
July 1, 2017 - June 30, 2018

Commitment by Category	# of Binding Commitments*	Assistance Amount (\$)	Commitment by Population Size	# of Binding Commitments	Assistance Amount (\$)
Planning and Design Only	1	3,000,000	Less Than 501	2	684,328
Construction:			501 to 3,300	9	7,790,047
Treatment	6	4,443,740	3,301 to 10,000	6	6,139,609
Transmission & Distribution	21	29,887,175	10,001 to 100,000	9	27,808,799
Source	3	4,588,319	100,001 and above	1	6,230,000
Storage	1	2,315,660	Total	27	\$ 48,652,783.00
Purchase of System	0	0			
Restructuring	0	0			
Land Acquisition	1	3,336,000			
Other	11	1,081,889			
Total	44	\$ 48,652,783.00			

*Assistance Agreements may be counted in more than one category when they fund more than one category.

**Calculations are consistent with the Drinking Water Benefits Reports database and net out funds returned by projects closed in state FY

**ATTACHMENT 5
DISBURSEMENT OF FUNDS BY QUARTER
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Community	Project #	Quarter 1 7/2017 - 9/2017	Quarter 2 10/2017 - 12/2017	Quarter 3 1/2018- 3/2018	Quarter 4 4/2018 - 6/2018	Total
Adairsville, City of	DW2016013	-	110,000.00	391,641.42	94,614.90	\$ 596,256.32
Adel, City of	DW12004	-	-	-	238,840.58	\$ 238,840.58
Allentown, City of	DW2016029	-	4,500.00	-	-	\$ 4,500.00
Argyle, Town of	DW2016020	94,900.00	-	-	-	\$ 94,900.00
Baldwin, City of	DW13016	158,981.54	-	-	-	\$ 158,981.54
Baldwin, City of	DW14015	174,251.54	-	101,197.98	22,855.99	\$ 298,305.51
Banks County Board of Commissioners	DW2016034	-	-	-	198,410.00	\$ 198,410.00
Bartow County	DW2017003	-	-	1,117,232.27	380,523.37	\$ 1,497,755.64
Bartow, Town of	DW2016026	128,549.88	45,345.12	-	-	\$ 173,895.00
Blue Ridge, City of	DW16007	104,225.50	17,556.00	-	-	\$ 121,781.50
Blue Ridge, City of	DW2016036	-	-	104,099.90	-	\$ 104,099.90
Boston, City of	DW16006	-	-	24,840.46	119,909.54	\$ 144,750.00
Bowdon, City of	DW15025	-	26,369.73	9,600.00	594,505.47	\$ 630,475.20
Bronwood, City of	DW15027	11,165.00	-	-	-	\$ 11,165.00
Cairo, City of	DW16009	1,014,185.00	23,718.60	57,877.30	29,264.10	\$ 1,125,045.00
Calhoun, City of	DW13003	97,764.20	44,766.50	322,303.17	-	\$ 464,833.87
Camilla, City of	DW2016035	-	837,326.50	54,513.50	105,351.70	\$ 997,191.70
Claxton, City of	DW15002	154,738.30	-	142,312.09	-	\$ 297,050.39
Clayton, City of	DW14011	-	-	-	145,281.85	\$ 145,281.85
Cochran, City of	DW15019	15,127.61	871,531.07	34,224.00	8,832.00	\$ 929,714.68
College Park, City of	DW2016044	504,195.32	531,634.30	232,103.45	99,410.31	\$ 1,367,343.38
Comer, City of	DW16003	146,406.05	134,762.08	-	-	\$ 281,168.13
Commerce, City of	DW15005	-	554,203.59	173,230.13	-	\$ 727,433.72
Cornelia, City of	DW15024	105,317.50	108,521.20	-	47,499.80	\$ 261,338.50
Cornelia, City of	DW12008	33,750.00	518,364.25	184,406.75	353,970.48	\$ 1,090,491.48
Covington, City of	DW13006	142,405.48	-	-	-	\$ 142,405.48
Damascus, City of	DW15023	21,875.00	-	-	251,225.00	\$ 273,100.00
Dawsonville, City of	DW2017009	348,069.78	124,213.57	28,222.16	-	\$ 500,505.51
Dawsonville, City of	DW14008	-	-	-	68,311.60	\$ 68,311.60
Fannin County Water Authority	DW13020	155,228.10	-	-	-	\$ 155,228.10
Floyd County Board of Commissioners	DW2017004	-	209,568.27	-	-	\$ 209,568.27
Fort Valley Utilities Commission	DW14001	77,567.49	100,531.33	-	-	\$ 178,098.82
Gray, City of	DW16002	46,219.65	-	-	-	\$ 46,219.65
Harris County	DW11013	-	-	54,239.49	-	\$ 54,239.49
Hart County Water and Sewer Utility Authority	DW13017	184,019.55	-	-	-	\$ 184,019.55
Hartwell, City of	DW15015	1,037,837.33	749,690.60	482,572.52	582,849.08	\$ 2,852,949.53

Community	Project #	Quarter 1 7/2017 - 9/2017	Quarter 2 10/2017 - 12/2017	Quarter 3 1/2018- 3/2018	Quarter 4 4/2018 - 6/2018	Total
Hinesville, City of	DW15035	139,574.84	388,939.02	-	263,107.53	\$ 791,621.39
Homerville, City of	DW15016	135,850.37	-	-	54,630.53	\$ 190,480.90
Jones County	DW15018	11,095.00	3,650.00	76,235.00	143,023.80	\$ 234,003.80
Kingsland, City of	DW2016017	360,708.50	104,896.20	86,892.25	-	\$ 552,496.95
Lumpkin County Water and Sewerage Authority	DW14010	66,564.05	96,441.96	63,578.26	-	\$ 226,584.27
Lumpkin County Water and Sewerage Authority	DW15017	358,703.66	43,183.44	-	-	\$ 401,887.10
Maysville, City of	DW15003	323,834.20	755,428.66	285,704.48	259,473.06	\$ 1,624,440.40
McRae-Helena, City of	DW2016018	-	47,970.38	-	50,637.40	\$ 98,607.78
Milledgeville, City of	DW15038	53,081.23	91,651.63	105,718.80	142,565.27	\$ 393,016.93
Millen, City of	DW15011	35,244.22	25,745.79	-	-	\$ 60,990.01
Monticello, City of	DW2017021	-	-	-	3,336,000.00	\$ 3,336,000.00
Nashville, City of	DW16010	77,577.91	42,734.32	95,949.05	115,293.99	\$ 331,555.27
Ocilla, City of	DW16001	32,312.10	116,307.43	33,751.23	-	\$ 182,370.76
Pelham, City of	DW2016040	283,712.80	50,861.97	77,232.42	92,485.33	\$ 504,292.52
Perry, City of	DW2017006	-	-	-	524,015.60	\$ 524,015.60
Pickens County	DW2017012	-	-	-	23,491.73	\$ 23,491.73
Riceboro, City of	DW16011	-	8,660.00	-	-	\$ 8,660.00
Rincon, City of	DW2016019	295,848.91	549,025.81	800,615.48	351,711.27	\$ 1,997,201.47
Ringgold, City of	DW15021	-	217,000.00	-	-	\$ 217,000.00
Roberta, City of	DW15008	266,349.45	104,682.92	35,000.00	-	\$ 406,032.37
Satilla Regional Water and Sewer Authority	DW2016027	-	-	48,000.00	1,042,385.51	\$ 1,090,385.51
Sylvester, City of	DW14005	495,897.57	443,009.01	400,822.15	249,691.48	\$ 1,589,420.21
Tallapoosa, City of	DW14009	85,711.60	60,226.88	41,329.00	-	\$ 187,267.48
Thomaston, City of	DW14002	-	532,484.28	-	-	\$ 532,484.28
Thomaston, City of	DW15022	-	-	-	13,636.25	\$ 13,636.25
Thomasville, City of	DW11017	469,461.09	-	-	-	\$ 469,461.09
Thomasville, City of	DW2016016	-	47,440.00	13,275.00	21,860.00	\$ 82,575.00
Tybee Island, City of	DW2016045	5,446.60	1,113,907.47	-	103,433.67	\$ 1,222,787.74
Waycross, City of	DW2016005	20,000.00	-	-	-	\$ 20,000.00
Winder, City of	DW2016025	4,806,090.51	1,234,159.55	-	1,404,003.53	\$ 7,444,253.59
Total		\$ 13,079,844.43	\$ 11,091,009.43	5,678,719.71	\$ 11,533,101.72	\$ 41,382,675.29

**ATTACHMENT 6
COMPARISON OF PROJECTED VERSUS ACTUAL DISBURSEMENTS
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Projected Disbursements	Quarter 1 7/2017 - 9/2017	Quarter 2 10/2017 - 12/2017	Quarter 3 1/2018- 3/2018	Quarter 4 4/2018 - 6/2018	Total
Projected FY2018 DWSRF Disb. from 2016 IUP	600,000.00	3,069,784.00	3,321,783.00	3307869	\$ 10,299,436.00
Projected FY2018 DWSRF Disb. from 2017 IUP	\$ 2,650,431.00	3,900,000.00	4,359,077.00	4,189,000.00	\$ 8,548,077.00
Total Projected Disbursements for FY2017	\$ 3,250,431.00	\$ 6,969,784.00	\$ 7,680,860.00	\$ 7,496,869.00	\$ 18,847,513.00
Actual FY2017 DWSRF Disbursements	\$ 13,079,844.43	\$ 11,091,009.43	\$ 5,678,719.71	\$ 11,533,101.72	\$ 41,382,675.29
Percent Disbursed of Projected	402%	159%	74%	154%	220%

**ATTACHMENT 7
PROJECTS CLOSED
DRINKING WATER STATE REVOLVING FUND**

**FY2018
July 1, 2017 - June 30, 2018**

Community	Project Number	DWSRF Assistance Amount	Amount Disbursed	Percentage Disbursed	Loan Execution Date	Final Close	Loan Interest Rate
Adel, City of	DW12004	\$1,145,872.00	\$1,145,872.00	100%	3/23/2015	6/1/2018	1.31%
Argyle, Town of	DW2016020	\$103,000.00	\$94,900.00	92%	2/23/2017	10/1/2017	1.89%
Baldwin County	DW09039	\$5,266,563.00	\$5,266,563.00	100%	10/10/2012	7/1/2017	3.00%
Blue Ridge, City of	DW16007	\$211,985.00	\$210,108.50	99%	7/8/2016	1/1/2018	1.09%
Bronwood, City of	DW15027	\$154,625.00	\$152,393.56	99%	6/10/2016	1/1/2018	1.09%
Cairo, City of	DW16009	\$1,189,645.00	\$1,189,645.00	100%	9/12/2016	6/1/2018	0.50%
Calhoun, City of	DW13003	\$6,943,847.00	\$6,492,236.74	93%	12/2/2013	4/1/2018	1.21%
Claxton, City of	DW15002	\$1,000,000.00	\$986,257.40	99%	1/15/2016	2/1/2018	1.38%
Comer, City of	DW16003	\$487,000.00	\$487,000.00	100%	9/18/2017	1/1/2018	0.89%
Covington, City of	DW13006	\$4,500,000.00	\$4,500,000.00	100%	6/3/2014	10/1/2017	0.50%
Damascus, City of	DW15023	\$403,000.00	\$273,100.00	68%	3/9/2017	4/1/2018	1.63%
Fannin County Water Authority	DW13020	\$905,000.00	\$672,559.18	74%	5/2/2016	10/1/2017	2.03%
Fort Valley Utilities Commission	DW14001	\$1,500,000.00	\$1,500,000.00	100%	6/18/2015	11/1/2017	1.03%
Gray, City of	DW16002	\$810,135.00	\$624,663.94	77%	5/2/2016	8/1/2017	1.03%
Griffin, City of	DW14014	\$6,275,000.00	\$6,275,000.00	100%	7/17/2015	7/1/2017	1.03%
Harris County	DW11013	\$2,750,000.00	\$2,512,568.54	91%	9/19/2016	2/1/2018	1.40%
Hart County Water and Sewer Utility Authority	DW13017	\$2,000,000.00	\$2,000,000.00	100%	2/26/2015	10/1/2017	0.52%
Hiawassee, City of	DW15031	\$450,000.00	\$443,313.45	99%	9/20/2016	7/1/2017	0.50%
Leesburg, City of	DW13014	\$786,100.00	\$671,878.00	85%	1/5/2015	7/1/2017	2.03%
Lumpkin County Water and Sewerage Authority	DW14010	\$1,000,000.00	\$957,882.18	96%	2/26/2015	3/1/2018	2.03%
Lumpkin County Water and Sewerage Authority	DW15017	\$750,000.00	\$728,949.68	97%	4/12/2016	12/1/2017	0.52%
Millen, City of	DW15011	\$165,000.00	\$165,000.00	100%	4/21/2016	1/1/2018	1.03%
Monticello, City of	DW2017021	\$3,336,000.00	\$3,336,000.00	100%	11/21/2017	12/1/2017	1.89%
Ocilla, City of	DW16001	\$623,300.00	\$597,830.61	96%	7/1/2016	3/1/2018	0.75%

Community	Project Number	DWSRF Assistance Amount	Amount Disbursed	Percentage Disbursed	Loan Execution Date	Final Close	Loan Interest Rate
Pelham, City of	DW2016040	\$530,000.00	\$504,292.52	95%	3/27/2018	5/1/2018	0.89%
Rabun County Water and Sewer Authority	DW14006	\$2,500,000.00	\$2,500,000.00	100%	7/20/2015	7/1/2017	0.50%
Ringgold, City of	DW15021	\$217,000.00	\$217,000.00	100%	2/3/2016	12/1/2017	0.50%
Roberta, City of	DW15008	\$750,000.00	\$750,000.00	100%	10/25/2016	2/1/2018	1.49%
Thomaston, City of	DW14002	\$2,000,000.00	\$2,000,000.00	100%	7/22/2015	11/1/2017	1.03%
Thomasville, City of	DW11017	\$1,200,000.00	\$1,145,840.64	95%	7/11/2012	10/1/2017	1.38%
Unified Government of Webster County	DW15026	\$110,000.00	\$109,881.49	100%	7/7/2016	12/1/2017	0.94%
Total		\$50,063,072.00	\$48,510,736.43	96.9%			

ATTACHMENT 8
ADMINISTRATIVE & SET-ASIDE EXPENSES BY CATEGORY
DRINKING WATER STATE REVOLVING FUND

FY2018
July 1, 2017 - June 30, 2018

Set-aside Category	SRF Amount Expended
2% Set-aside	
Small System Technical Assistance	295,350.00
Subtotal	\$ 295,350.00
4% GEFA/EPD Administration	
Personnel	718,720.00
Subtotal	\$ 718,720.00
10% PWSS Set-aside	
PWSS Administration	924,298.36
SWP Technical Assistance	147,424.59
Capacity Development	1,228,561.96
Subtotal	\$ 2,300,284.91
15% Local Assisitance Set-aside	
Wellhead Protection Programs	1,193,677.06
Capacity Development	1,919,101.80
Subtotal	\$ 3,112,778.86
Total	\$ 5,413,063.77

**ATTACHMENT 9
DBE UTILIZATION
DRINKING WATER STATE REVOLVING FUND**

October 1, 2016 - September 30, 2017*

Semi-Annual Dates	Summaries		
	MBE (\$)	WBE (\$)	TOTAL (\$)
October 1, 2016 - September 30, 2017	1,151,139.24	1,408,175.74	\$ 2,559,314.98
TOTAL	\$ 1,151,139.24	\$ 1,408,175.74	\$ 2,559,314.98
PERCENTAGE GOAL	4.00%	4.00%	8.00%
PERCENTAGE ACTUAL**	3.21%	3.93%	7.15%

*DBE information is provided on an annual basis to EPA

**Percentage Actual is calculated by dividing the DBE funds disbursed by the total DWSRF funds disbursed in the same period

ATTACHMENT 10
DWSRF CAPITALIZATION GRANTS AVAILABLE & SPENT
DRINKING WATER STATE REVOLVING FUND

As of June 30, 2018

Capitalization Grant	Project Funds	2% Set-aside	4% Set-aside	10% Set-aside	15% Set-aside	Total Funds
2018 Funds Available	18,060,750.00	523,500.00	1,047,000.00	2,617,500.00	3,926,250.00	26,175,000.00
2018 Funds Spent	-	-	-	-	-	-
% of Funds Spent	0%	0%	0%	0%	0%	0%
2017 Funds Available	12,397,920.00	359,360.00	718,720.00	1,796,800.00	2,695,200.00	17,968,000.00
2017 Funds Spent	12,388,514.82	95,391.38	718,720.00	-	-	13,202,626.20
% of Funds Spent	100%	27%	100%	0%	0%	73%
2016 Funds Available	12,504,870.00	362,460.00	724,920.00	1,812,300.00	2,718,450.00	18,123,000.00
2016 Funds Spent	12,504,870.00	362,460.00	724,920.00	1,382,843.94	2,492,472.71	17,467,566.65
% of Funds Spent	100%	100%	100%	76%	92%	96%
Total Funds Available	\$ 42,963,540.00	\$ 1,245,320.00	\$ 2,490,640.00	\$ 6,226,600.00	\$ 9,339,900.00	\$ 62,266,000.00
Total Funds Spent	\$ 24,893,384.82	\$ 457,851.38	\$ 1,443,640.00	\$ 1,382,843.94	\$ 2,492,472.71	\$ 30,670,192.85
Total % of Funds Spent	58%	37%	58%	22%	27%	49%

Attachment B

**Georgia Rural Water Association (GRWA)
Georgia Water & Wastewater Institute, Inc. (GWWI)**



Georgia Rural Water Association

P.O. Box 383 • Barnesville, GA 30204 • phone 770-358-0221 • fax 770-358-4379
Website: WWW.GRWA.ORG • E-Mail: grwal@grwa.org and info@grwa.org

Georgia Rural Water Association

Public Water System Capacity Development Activities

JULY 1, 2017 through JUNE 30, 2018

Technical Assistance, Education, Outreach Efforts:

During the subject period, GRWA offered 171 Training Classes reaching 1,804 operators in Georgia. In addition, 1,816 water system and industry personnel attended the 2 Technical Training Conferences conducted by GRWA during this period.

Through the combined efforts of GRWA's Statewide Training Program, On-Line Training Courses, Technical Training Conferences, and On-Site Technical Assistance Program, over 7,000 operators, system personnel, and industry professionals were reached by GRWA to further System Capacity Development.

The following is a breakdown of the different ways GRWA utilized its resources to reach the water industry professionals and meet the needs of System Capacity Development.

GRWA Technical Training & Exhibit Demonstration Conferences:

<u>Dates</u>	<u>Attendance</u>
<u>Oct. 23-25, 2017</u>	<u>346</u> water system personnel Total water industry attendance <u>673</u>
<u>May 15-17, 2018</u>	<u>592</u> water system personnel Total water industry attendance <u>1,143</u>

GRWA Water System Technical Assistance:

<u>Dates</u>	<u>On-site Technical Assistance (TA)</u>
<u>7/1/17 to 6/30/18</u>	<u>3,390 face to face TAs made to water systems</u>

GRWA Completed 12 Business Plans for water systems during this period. GA EPD requires systems complete Business plans to demonstrate that a system will technically, managerially, and financially be capable of meeting all regulatory requirements to provide safe and adequate drinking water and to provide for the proper collection and treatment of all wastewater. GRWA assist systems in completing these plans.

Technical Assistance Visits and SOC Sampling:

In addition to the number of public water systems visited for technical assistance: **360 WATER SAMPLES** were collected during subject period. **SOC water samples.**
SOC= Synthetic Organic Contaminants: To collect and deliver samples to the state lab for SOC water testing to ensure water quality.

Capacity Development Training Activities:

Small Water System Rules & Regulatory Training
Regulatory Training Workshops July 1, 2017- June 30, 2018

Training Workshops: **12** Operators Trained: **363**

Classroom Training for Water System Operators and Personnel
7/1/2016 thru 6/30/2017.

YEAR	No. of Classes	No. of Operators	Class Topics
July 2016- June 2017	<u>101</u>	<u>1,373</u>	Class IV Operator Training; Basic Water Training; Advanced Water Training; Backflow Training; Water Distribution Training; Water Lab Training; Water Exam Review Training; Fluoride Training; Management Training; Basic and Applied Math; Pump; Safety; Confined Space Entry; O & M of Process Analyzers.
July 2016 – June 2017	On-Line Training Courses: 58	Operators taking On-line Training Courses: 68	
<u>Total</u>	<u>159</u>	<u>1,441</u>	



Georgia Water & Wastewater Institute, Inc.

A Subsidiary of the Georgia Association of Water Professionals

511 Stadium Drive
Carrollton, Georgia 30117
(770) 214-0153
(770) 214-0219 - FAX

July 1, 2018

MEMORANDUM

To: Rais Khan, Georgia Environmental Protection Division

From: Pamela S. Burnett, Executive Director
Georgia Water & Wastewater Institute

RE: Operator Training Program Update – Fiscal Year July 1, 2017 - June 30, 2018

Georgia's water and wastewater utilities have recently entered a new era in protecting public water supplies and providing safe tap water. Today, new challenges and issues face utility operations that require increased support and guidance from State agencies as well as training from professional organizations such as the Georgia Water & Wastewater Institute.

GWWI was separately incorporated in 1993, and today provides the majority of water and wastewater operator training in the State of Georgia, operating with financial assistance provided through contracts with EPD and modest tuition fees. The curriculum includes training in the areas of basic and advanced water and wastewater treatment plant operations, industrial wastewater treatment plant operations, laboratory operations, backflow prevention and cross-connection control, and numerous related courses in such areas as utilities supervision and management, safety, and maintenance. GWWI annually offers approximately 95 courses, with a total attendance of over 1300 students. GWWI is dedicated to education and dissemination of technical and scientific information.

GWWI is pleased to report the following information related to Operator Training in the State of Georgia.

Reporting Period of July 1, 2017 - June 30, 2018

1. DWSRF 15% Set-aside Funds: Class 4 Water Operator Training Update:

Relating to the Class IV Water Operator Training Program, GWWI completed the following during the 2018 fiscal period of July 1, 2017 - June 30, 2018:

- Offered 2 Class IV Water Training Course
- Successfully trained 13 operators

While attending these courses, the operators were informed on Georgia's groundwater sources, including types of aquifers and wells, groundwater protection, water treatment, and proper operation of a small water plant under state and federal guidelines. Major topics include Groundwater Resources in Georgia, The Safe Drinking Water Act, Monitoring Requirements, and Basic Mathematics.

Due to the economic climate, cut in travel and training budgets, GWWI has take extra measures in attempts to attract class IV operators to the Class IV training course. We continue to look into ways to take these training materials to the operators which are in need. GWWI is open to any suggestions of efforts to attract Class IV operators.

2. DWSRF 10% Set-aside Funds: Water and Wastewater and Laboratory Analysts Training

Relating to the Water, Wastewater and Laboratory Analysts Training, GWWI completed the following during the 2018 fiscal period of July 1, 2017 - June 30, 2018:

- Conducted 78 courses related to water, wastewater and/or laboratory operations.
- Successfully trained 1359 operators

GWWI is dedicated to education and dissemination of technical and scientific information. We welcome any comments and/or questions related to our training. Please contact us at (770) 214-0153.

Thank you for your continued support of our efforts.

Sincerely,



Pamela S. Burnett,
Executive Director
Georgia Water & Wastewater Institute, Inc.



Georgia Water & Wastewater Institute, Inc.

A Subsidiary of the Georgia Association of Water Professionals

511 Stadium Drive
Carrollton, Georgia 30117
(770) 214-0153
(770) 214-0219 - FAX

July 1, 2018

MEMORANDUM

To: Rais Khan, Georgia Environmental Protection Division

From: Pamela S. Burnett, Executive Director
Georgia Water & Wastewater Institute

RE: Technical Assistance, Education & Outreach Update
Fiscal Year July 1, 2017 – June 30, 2018

Georgia's water and wastewater utilities have recently entered a new era in protecting public water supplies and providing safe tap water. Today, new challenges and issues face utility operations that require increased support and guidance from State agencies as well as training from professional organizations such as the Georgia Water & Wastewater Institute.

The Georgia Water & Wastewater Institute goes beyond typical classroom type training in efforts to reach the needs of the operators in the State of Georgia. In doing so, GWWI participates in many events coordinated by our parent organization, the Georgia Association of Water Professionals (formerly GW&PCA). GAWP conducts numerous conferences and workshops focused on providing continuing education opportunities for professionals in the water and wastewater industry. At these events, GWWI participates in the presentation of technical papers and "short" training sessions throughout the conference and/or event. GWWI also participates in the exhibiting functions of these events by having a display booth explaining and advertising the training opportunities offered by GWWI. GAWP also conducts planning sessions for small, medium, and large utility directors as well as Association-wide District Director Meetings in efforts to better address the needs of the profession around the State. At these planning type meetings, GWWI attends, not only to make utility directors statewide aware of our training programs and offerings, but also to serve as a resource to the utilities as they plan for the future. This has proven to be a very effective tool for both the utility as well as GWWI in making sure the operators receive the types of training that are needed and required.

The following is a report of the events GWWI attended and participated in during Fiscal Year July 1, 2017 – June 30, 2018.

- **July 16-19 2017** **GAWP Annual Conference & Expo** **Savannah, GA**
 - **(1,519 attendees)** GAWP's Annual Conference includes sessions on traditional topics such as water and wastewater treatment plant operations, maintenance and design, laboratory operations, and safety, as well as timely discussions on policy issues such as drought contingency planning, wastewater re-use, and legislative policy.

• **November 14-15, 2017**

Fall Conference & Expo

Athens, GA

- **(482 attendees)** The Fall Conference is targeted towards the operations-level professionals and includes sessions on traditional topics such as water and wastewater treatment plant operations, maintenance and design, laboratory operations, and safety.

• **April 10-11, 2018**

Spring Conference & Expo

Jekyll Island

- **(439 attendees)** The Spring Conference is targeted towards the operations-level professionals and includes sessions on traditional topics such as water and wastewater treatment plant operations, maintenance and design, laboratory operations, and safety.

During the Fiscal Year July 1, 2017 – June 30, 2018 period, GWWI's Technical Assistance, Education & Outreach efforts reached over 2440 water and wastewater treatment plant operators, maintenance personnel, laboratory analyst, design engineers, consultants, and other concerned about Georgia water and wastewater issues.

GWWI is dedicated to education and dissemination of technical and scientific information. We welcome any comments and/or questions related to our training. Please contact us at (770) 214-0153.

Thank you for your continued support of our efforts.

Sincerely,



Pamela S. Burnett
Executive Director
Georgia Water & Wastewater Institute, Inc.