

2018 Annual Capacity Development Program Report

State Fiscal Year 2018
July 1, 2017 to June 30, 2018

September 2018

Department of Environmental Protection
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Introduction

The 1996 Amendments to the Federal Safe Drinking Water Act (SDWA) focused on promoting the technical, managerial, and financial (TMF) capacity of public water systems to comply with the National Primary Drinking Water Regulations. These amendments also required states to prepare an annual report documenting the ongoing implementation of the Capacity Development Program to address capacity determinations for new systems and the application of an approved strategy for existing public water systems.

In the 1996 amendments to the SDWA, Congress ensured that each state would establish a Capacity Development Program by tying program requirements outlined in Section 1420(a) and (c) to the Drinking Water State Revolving Funds. In accordance with Section 1420(a) of the SDWA, the New Jersey Safe Drinking Water Act (N.J.S.A. 58:12A) was amended on August 2, 1999 (P.L. 1999 Chapter 176) to establish the legal authority to assure that all new community and nontransient noncommunity water systems demonstrate adequate technical, managerial and financial capacity. The New Jersey Department of Environmental Protection (Department) subsequently adopted regulations at N.J.A.C. 7:10-13 which established the requirements to assure that all new public community and nontransient noncommunity water systems have adequate capacity. In addition, New Jersey developed and implemented a Capacity Development Strategy (Section 1420(c)) to assist existing systems with developing and maintaining capacity. The United States Environmental Protection Agency (USEPA) approved the Department's first Capacity Development Strategy on September 28, 2000, which was subsequently updated in 2009 and 2013. If New Jersey had failed to obtain legal authority to ensure that new water systems demonstrate technical, managerial, and financial capacity, or had not implemented a Capacity Development Strategy, New Jersey, the State would have received only 80 percent of its Annual Capitalization Grant allotment from the USEPA (Section 1452(a)(1)(G)). This means that New Jersey's allocation of funds for the Drinking Water State Revolving Fund and set-asides would be reduced by up to \$3 to 4 million dollars per year.

This report provides information regarding the activities implemented by the Department's Capacity Development Program during State Fiscal Year 2018 (SFY18), which covers the period from July 1, 2017 through June 30, 2018. The activities included in this report were outlined in the Capacity Development Program SFY18 Work Plan (2018 Work Plan), which was submitted to USEPA on November 27, 2017.

Pursuant to Section 1420(c)(3) of the 1996 Federal Safe Drinking Water Act amendments, the Department must also prepare a report to the Governor (Governor's report) on the efficacy of the State's Capacity Development Strategy every three years. The 2017 Governor's report addresses the progress made towards improving the TMF capacity of public water systems during 2015, 2016, and 2017, and was finalized and submitted to Governor Christie on September 29, 2017. Information included in this SFY2018 report will also be included in the next Governor's report due by September 30, 2020.

SFY18 Implementation Reporting Criteria

A. New Systems Program

- 1. Has the State's legal authority (statutes/regulations) to implement the New Systems Program changed within the previous reporting year?***

The New Jersey Safe Drinking Water Act rules (the rules) at N.J.A.C. 7:10-13 require new community and nontransient noncommunity water systems to demonstrate TMF capacity to meet federal and State regulations in effect, or likely to be in effect, upon the start date of system operations. This subchapter was readopted without change effective March 29, 2017 and will expire March 29, 2024.

- 2. Have there been any modifications to the State's control points? If so, describe the modifications and any impacts these modifications have had on implementation of the New Systems Program?***

There have been no modifications to New Jersey's control points during SFY2018, which are used by agencies to ensure capacity for new systems. In accordance with the State's Capacity Development Strategy, the Department requires permits for the construction of new community water systems as a control point to ensure safe and reliable drinking water is provided to the public. For newly constructed water systems and newly discovered noncommunity systems, which are typically found during site visits conducted by County Environmental Health Agency (CEHA) inspectors, the Department requires a TMF Evaluation to determine the system's capacity. For a system to become a Department approved water system, a TMF Evaluation is required, including a description of the system, an infrastructure replacement plan, compliance with operator certification requirements, well pump test results, a cross-connection control plan, information about the water system's organizational structure, an emergency management plan, a description of water system policies, a capital improvement plan, and various other requirements under N.J.A.C. 7:10-13.

- 3. Indicate whether any new system approved within the past three years under the Capacity Development Program has been on the Enforcement Targeting Tool (ETT) list.***

Appendix I lists those new community and new nontransient noncommunity systems approved by the Department during SFY2016, SFY2017, and SFY2018. There is one new community and three new nontransient noncommunity water systems that are currently listed on USEPA'S Office of Enforcement and Compliance's Enforcement Targeting Tool (ETT) with unresolved violations. Appendix I includes the water system's ETT score, updated as of June 2018, along with information on the assistance that has

been, or will be given, to return the system to compliance. In many cases, new water systems incur monitoring and reporting violations in the first few years of operation.

B. Existing Systems Program

- 1. Regarding the State's approved existing systems strategy, which programs, tools, and/or activities were used, and how did each assist existing public water systems in acquiring and maintaining TMF capacity?***

Programs, Tools, and Activities

The following programs, tools, and activities, as described below, are used for the Capacity Development Program, to continue to assist water systems in acquiring and maintaining technical, managerial, and financial capacity:

- Penalty Guidance Policy;
- Operator Certification Program and Training;
- Mandatory electronic reporting requirements for analytical results (most parameters);
- Department's Drinking Water Watch application – this application makes monitoring schedules readily accessible;
- Improved data management;
- Technical, managerial, and financial evaluations and technical assistance; and
- Other activities.

Penalty Guidance Policy

The "Penalty Guidance Policy" is utilized by the Department's Division of Water Compliance and Enforcement (Enforcement) to assess penalties for water systems that have received violations. Enforcement considers various factors to avoid and/or lessen penalties for each violation issued to the water system prior to returning the water system to compliance. These factors include the severity of a given violation, the level of offense, the type of water system, the seriousness of the violation, the system's violation history from that past three (3) years, and the economic benefit the violator has realized the result of not complying or delaying compliance.

Operator Certification Program and Training

The Department uses the Operator Certification Program to promote and sustain knowledgeable licensees, capable of operating a water system, through the following goals:

- Ensuring that all community and nontransient noncommunity water systems have the appropriate classification of licensed operator responsible for performing the required duties and responsibilities;
- Assisting with training, certification, and license renewal;
- Reviewing training courses for initial certification and continuing education;
- Making trainings more available and affordable to operators; and
- Using federal funds to enhance the program and assure that New Jersey meets USEPA guidelines.

During SFY18, the Department offered training sessions and seminars for licensed operators that covered a variety of topics including the maintenance of TMF capacity to comply with federal and State regulations.

One of the contracts the Department utilizes to provide operator training is with New Jersey Water Association (NJWA). The \$161,000 contract required NJWA to provide 70 training sessions from January 1, 2016 to December 31, 2017, to operators and owners of small drinking water systems, although systems of all sizes were welcome to attend. During SFY18, a total of 28 training sessions were provided to operators and system owners. Some topics covered at these trainings were filtration maintenance, operation and management practices, fundamentals of underground utility, Geographic Information Systems (GIS), and other essential topics for drinking water operators. These sessions provided training to 64 small water systems (i.e. those serving less than 10,000), with a total of 817 individuals attending. A new contract with NJWA with the same scope of services was recently approved. The Department will continue to explore ideas for new training sessions with NJWA and the licensed operators.

In addition to the above contract, the Department also has a \$181,000 contract with Rutgers University to provide 50% tuition subsidies to licensed operators for drinking water related continuing education courses. This contract required Rutgers University to provide affordable drinking water-related courses, from July 1, 2015 to December 31, 2017, to licensed operators at a discounted rate. This contract was given a 3 month no-cost time extension to continue to provide tuition subsidies through March 31, 2018. A new contract is currently being executed to continue to provide these much-needed subsidies for drinking water operators.

In SFY18, the Department offered training on the implementation of the Water Quality Accountability Act P.L. 2017, c. 133 (WQAA), enacted in New Jersey to improve the safety, reliability, and administrative oversight of water infrastructure. This law requires systems with more than 500 service connections to routinely perform certain best management practices and to develop cybersecurity and asset management plans. The Department, in close coordination with the partners set forth in the WQAA (i.e. the Department of Community Affairs and the Board of Public Utilities), will provide guidance and/or training on asset management planning in the coming year.

The Operator Certification program is currently undertaking a self-assessment to promote growth and improve processes within the program, as well as provide guidance to the regulated community on the duties and responsibilities required of a licensed operator and water system owner. As the Department evaluates this program, it recognizes that training sessions can be valuable opportunities to obtain stakeholder input. The program will continue to seek beneficial training opportunities and sessions to solicit input from stakeholders and enhance communication.

Electronic Reporting, Drinking Water Watch, and Data Management

The Department's internal and external databases and applications are a vital asset of the Capacity Development Program. The *New Jersey Electronic Environmental (E2) Reporting System*, is a web-based system designed to accept analytical results submitted by drinking water laboratories on behalf of water systems to meet Federal and State requirements. The Department utilizes the USEPA *Safe Drinking Water Information System (SDWIS)* for compliance determinations based on sampling data being reported. The current version being used is *SDWIS/State web release 3.33* to store data and perform compliance determinations. The Department's web-based application, *Drinking Water Watch*, allows water systems and operators to easily view sampling data submitted through E2, compliance determinations, and violation data. Providing access to this information allows water systems and operators to respond to their test results quickly. In addition, the use of the Department's *Environmental Management System (NJEMS)* system is widely used for compiling and maintaining drinking water inventory data, system information, permitting documents, reporting, and enforcement activities.

In SFY18, through the use of these different data systems, along with the development of newly designed, more effective queries to tabulate information, the Capacity Development Program was able to improve its efficiency in reviewing water system compliance data needed to evaluate the capacity level of a given system.

Technical Assistance and Technical, Managerial, and Financial Evaluations

In SFY18, the Department provided direct technical assistance to water systems that failed to demonstrate adequate TMF capacity, in conjunction with evaluating the TMF capacity of those water systems that were either referred to the program for assistance, or required to demonstrate capacity, with the intention of resolving the issues they may face. This function is performed on an ongoing basis.

The Department routinely provides technical assistance via direct consultation with water systems to comply with existing construction and operation regulations. For this reporting period, the Department provided the following direct assistance to drinking water systems and their operators:

- The Engineering Services Contract is an agreement that the Department has with NJWA to contract engineering services to those small water systems in need of design and planning documents that would fulfill submittal requirement for obtaining a Drinking Water State Revolving Fund (DWSRF) loan for a capital improvement project. The design and planning documents must be for a prospective project that the water system needs to meet a deficiency to bring the water system into compliance. The work that is done under this contract includes a preliminary asset management assessment, engineer's recommendations, and an evaluation on alternative options. During SFY18, the NJWA assisted five water systems at various stages under the existing contract and continues to identify other water systems as candidates for funding under this contract; and
- Site visits with Department staff, in coordination with Enforcement and the County Environmental Health Act Certified Agencies (CEHAs) are performed routinely to assist water systems in achieving and maintaining compliance with the rules. Site visits are prioritized to focus on water systems on the Capacity Development Strategy List (explained in detail in Section B.2.) and to provide help addressing water system deficiencies. Appendix II summarizes the status of water systems on the 2016 Strategy List and the assistance performed SFY18.

The TMF evaluations done for those water systems required to demonstrate TMF capacity for this reporting period were through the following:

- Mid-way evaluations for water systems on the 2016 Strategy List were conducted. An update on those evaluations can be found in Appendix II;
- Federal regulation (SDWA 1452(a)(3)) prohibits water systems from obtaining DWSRF funding for a capital improvement project if the water system does not have TMF capacity. After the Department ranks and prioritizes eligible projects, the water system submits environmental planning documents, engineering planning and specification documentation, and a construction application needed for review. During this process, the Department determines the TMF capacity of its applicants according to N.J.A.C. 7:10-2.7. In SFY18, \$124,881,823 DWSRF funds were invested for 27 drinking water projects. The assistance provided by the Department for these projects were executed agreements in the form of executed loan commitments, refinanced short-term debt, refinanced long-term debt, and guarantee or purchase insurance;
- Systems that have been reclassified from a transient noncommunity water system to a community water system or a nontransient noncommunity water system must demonstrate TMF capacity. During SFY18, four transient noncommunity water systems were reclassified to nontransient noncommunity water systems due to a population increase. The Department is working with the CEHAs to determine if any of those systems have had any new construction, or if all construction was made

prior to August 21, 2000. If new construction occurred after the effective date of this requirement, the Department will reach out to these systems, requesting demonstration of capacity.

Other Activities

There are other ongoing activities that compliment or support the Capacity Development Program. These activities include:

- Maintenance and periodic update of Department's Asset Management Policy website (<http://www.nj.gov/dep/assetmanagement/>);
- Maintenance of an accurate inventory of systems and the status of violations;
- Execution of a Joint Partnership with the New Jersey American Water Works Association to assist struggling systems obtain no-cost engineering assistance through the Community Engineering Corps;
- A self-assessment of New Jersey's Capacity Development Program, started in 2017, to evaluate and enhance the program. This involves the review of every process associated with the Capacity Development Program, including the development of the Strategy List, the tracking of relevant data and progress, the identification of systems in need of assistance or development of capacity, training offerings, and forms and processes;
- In SFY18, the Department continued coordination with those entities that were re-awarded USEPA Compliance Grant Contracts during this new grant contract cycle: NJWA, RCAP Solutions, the New Jersey Section of the American Water Works Association (AWWA-NJ), and the University of North Carolina Environmental Finance Center (EFC). The following provides a SFY18 status updates for those awardees of the USEPA Compliance Grant Contracts:
 - a. NJWA provides technical assistance to small systems out of compliance with the SDWA, as well as training sessions for operators and system owners;
 - b. EFC provided asset management training called *Asset Management – Beyond the Basics*, in NJ on August 23rd, 2018 at Thomas Edison College in Trenton, NJ; and
 - c. RCAP and AWWA-NJ are partnering to provide training courses on SDWA Regulations and Basic Math and Chemistry. Along with the trainings,

RCAP has also been reaching out to at-risk water systems to provide technical assistance for deficiencies at several water systems.

The Department is assisting by providing recommendations for training topics, training locations, and the names of the systems in most need of assistance. The Department will continue to periodically update USEPA Region 2 on the ongoing coordination efforts with these entities.

2. *How has the State continued to identify systems in need of capacity development assistance?*

The principal way that the Department identifies systems in need of capacity development assistance is through the preparations of a Strategy List. The preparation of the Strategy List identifies and prioritizes those public water systems most in need of capacity development. The Strategy List also enables the Department to prioritize the Program's resources such that it can perform TMF capacity evaluations and provide assistance in order of need. Methods of identification of those systems in need of capacity development include the review of compliance history through database queries, Department staff recommendations, and those systems that are on the ETT list with a score of 11 or greater.

The status of the systems on the 2016 Strategy List can be found in Appendix II. The Strategy List currently identifies 20 community and noncommunity water systems as priorities for receiving assistance. This 2016 Strategy List was compiled in the summer of 2016. Twelve of the systems on the 2016 Strategy List were carried over from the 2013 Strategy List and eight systems were new additions. The Department evaluated all water systems that were carried over from the previous 2013 Strategy List using the Department's Evaluation & Benchmark Criteria Assessment Form and for some systems, site inspections were conducted in collaboration with Enforcement.

Additionally, water systems with water quality or TMF issues, as identified by Department staff or CEHAs during the interim, are offered assistance and may be added to the next Strategy List. The Department is considering different ways to identify and assist systems in need before they are listed on the Strategy List. The site visit form used by Department staff, now includes additional questions pertaining to TMF capacity. The Department is also prioritizing site visits based on risk factors, such as systems with a licensed operator who serves as a licensed operator for 10 or more systems. The focus is to target at-risk and sensitive population systems that may have a greater potential to exhibit inadequate TMF capacity. With the use of the cumulative site visit form, along with an existing method that is utilized to assign points that determine a system's priority level, the Department looks to streamline efforts Division-wide to guarantee the promotion of safe, adequate, and reliable water systems throughout New Jersey.

3. *What was the State’s approach in offering and/or providing assistance if statewide public water systems capacity concerns or capacity needs have been identified?*

The Department has reached out and provided assistance to those systems on the 2016 Strategy List as well as additional systems that were in need of assistance. The capacity evaluations performed for these community and noncommunity water systems identified areas where assistance should be focused. These evaluations are performed on an ongoing basis and will continue for a three-year cycle until a new list is drafted. The status of activities for these systems can be found in [Appendix II](#).

In SFY18, the Capacity Development Program continued to perform background research; conduct TMF capacity evaluations and site visits; develop improvement plans; and help systems implement those improvement plans. Staff have facilitated meetings with system representatives (e.g., owners, managers, licensed operators, and consulting engineers), regulatory agencies (e.g., enforcement inspectors, compliance managers, and permit reviewers), and representatives from other public water systems to identify and evaluate alternatives and options for developing system capacity and will continue to perform this effort in the upcoming state fiscal year. The Capacity Development Program uses these coordination efforts and activities to relay information regarding available resources and guidance materials and provided training sessions at numerous locations and forums.

To improve water system operation, the Department also continues to identify training needs for small water system owners and operators and offer training as noted in the “Operator Certification and Training” section in Section B.1.

Lastly, the Department continues to review activities and approaches that other state capacity development programs implement to identify and consider successful strategies. In January 2018, the Department partnered with the Association of State Drinking Water Administrators (ASDWA) to generate a survey focused on gaining input on how licensed operator duties are regulated and enforced in other States, as well as the criteria used for allowing licensed operators to operate and maintain multiple drinking water systems. The objective of this survey was for the Department to review various approaches on how other States implement their capacity development and operator certification programs, along with how they address issues that may arise from their regulated community. In SFY19, the Department looks to continue review of program activities to advance the Capacity Development program strategy.

4. *If the State performed a review of implementation of the existing systems strategy, discuss the review and how findings have been or may be addressed.*

The Capacity Development Program is currently in the process of conducting an ongoing self-assessment of the program to identify improvement in the existing program methods and activities, to review of the processes used to develop its Strategy List, to find potential resources for the regulated community, and to create advantageous partnerships with stakeholders to work towards a common goal of ensuring safe and reliable drinking water throughout the State. The Department anticipates progressing on set goals regarding improving program functions and the scope of assistance offered to drinking water systems and their operators in the future. The Department will continue to reevaluate the program and its strategy on an ongoing basis, to analyze and modify necessary changes.

5. *Did the State make any modifications to the existing system strategy?*

As a result of the self-assessment, the Capacity Development Program strategy has been revised to focus on a team approach to aid those systems on the Strategy List (listed in Appendix II). With this approach, the Department's intent is to have individuals work closely with the assigned systems to provide them with the resources needed to achieve compliance, since many systems remain on the list without noticeable improvement. The utilization of a team approach will help dedicate more attention to these at-risk systems. The addition of varying backgrounds, experience-levels, and subject matter experts involved in this approach would also be beneficial to provide different perspectives on which plans of action would be best for a given water system.

The Capacity Development Program's efforts in seeking and creating assistance partnerships and guidance for the regulated community are ongoing. The Program continues to make modifications to its strategy to benefit New Jersey's drinking water systems and their licensed operators, keeping with the Department's mission statement, and furnishing it with beneficial and proactive efforts.

APPENDIX I

**CAPACITY DEVELOPMENT PROGRAM:
NEW COMMUNITY AND NONTRANSIENT NONCOMMUNITY PUBLIC WATER SYSTEMS
DURING STATE FISCAL YEARS 2016, 2017, AND 2018
WITH
USEPA'S OFFICE OF ENFORCEMENT AND COMPLIANCE'S ENFORCEMENT TARGETING TOOL (ETT) SCORES
(07/01/2015 to 06/30/2018)**

PWSID NO.	SYSTEM NAME	OPERATION START DATE	VIOLATION TYPE	ETT SCORE	STATUS OF ASSISTANCE
Community Water Systems					
1924006	Town Center at Wantage	01/26/2017	Monitoring/Reporting (MR) for Radionuclides; Maximum Contaminant Level (MCL) Exceedance for Revised Total Coliform Rule	12	<ul style="list-style-type: none"> Sanitary Survey conducted on 10/30/17; System submitted a technical, managerial, and financial (TMF); System implemented corrective actions and the Department required monthly source water monitoring to confirm there is no issue with the well; The system received an <i>E. Coli</i> MCL violation on 2/23/2018 requiring a Level 2 Assessment. The assessment identified a broken outside sample tap and service line repair as a cause of the issue. System made these repairs and chlorinated. The Department issued the system a temporary treatment approval on 3/2/2018 for a 4-log UV for disinfection. System returned to compliance on 3/19/2018.
Nontransient Noncommunity Water Systems					
1319497	Oak Glenn Plaza 2	04/20/2017	N/A	0	<ul style="list-style-type: none"> System has no violations
0614350	ARC of Cumberland County - Evanoff	02/21/2017	MR/Lead and Copper Rule	1	<ul style="list-style-type: none"> System submitted a Corrosion Control Treatment (CCT) Plan on 12/14/2017; System is required to submit Lead and Copper sampling plan, and a Water Quality Parameters sampling plan; Based on the most recent lead and copper sampling results, the system is in compliance with the ALE.
2122333	John Johnson Chrysler Dodge Jeep & Ram	09/29/2016	MR/Nitrates; Treatment Technique (TT) Violation/Revised Total Coliform Rule (RTCR)	10	<ul style="list-style-type: none"> Sanitary Survey conducted by CEHA on 05/08/2018- no significant deficiencies found; System was returned to compliance after conducting nitrate monitoring in 4th Quarter of 2018.

PWSID NO.	SYSTEM NAME	OPERATION START DATE	VIOLATION TYPE	ETT SCORE	STATUS OF ASSISTANCE
<i>Nontransient Noncommunity Water Systems</i>					
1436386	SCE Realty LLC	4/28/2016	Copper (CU) Action Level Exceedance	0	<ul style="list-style-type: none"> System submitted a CCT Plan on 7/20/2017; System's lead and copper sampling plan was approved on 8/9/2017; System was returned to compliance after 3 consecutive 6 months of monitoring below the ALE.
1326378	Merola Tile	11/17/2015	NA	0	<ul style="list-style-type: none"> System has no violations
1019344	Toyota World of Clinton	10/01/2015	NA	0	<ul style="list-style-type: none"> System has no violations
1902366	Andover Professional Condo	09/10/2015	NA	0	<ul style="list-style-type: none"> Sanitary Survey conducted at system 01/17/17; All previous violations have been returned to compliance.
0603331	QIS Inc.	08/25/2015	MR/Nitrate	7	<ul style="list-style-type: none"> The Department is awaiting a revised Technical, Managerial, and Financial Evaluation Plan; All previous violations have been returned to compliance.
1107325	Terhune Orchards	07/16/2015	NA	0	<ul style="list-style-type: none"> Sanitary Survey conducted at system 11/15/17; no violations were observed.

APPENDIX II

**CAPACITY DEVELOPMENT PROGRAM:
STATUS OF ACTIVITIES FOR SYSTEMS ON
2016 STRATEGY LIST**
Status as of June 30, 2018

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
	<i>Community</i>			
1	NJ0301001	Buttonwood Mobile Home Park	<ul style="list-style-type: none"> • Radiological MCL issues • Aging infrastructure • Poor operation and maintenance (O&M); • No licensed operator; • Failure to issue annual consumer confidence reports; • Inadequate storage; • No meter to measure flow; 	<p>Carry over system from the 2013 List.</p> <ul style="list-style-type: none"> • Radiological violations have been returned to compliance; • System has obtained a licensed operator, but overall management and finances are inadequate; • An Administrative Consent Order (ACO) was executed on May 1, 2017; • Department staff is providing technical assistance, in partnership with Enforcement, to help the system comply with the required action items under their ACO.
2	NJ0612001	Bayshore Mobile Home Park	<ul style="list-style-type: none"> • Nitrate MCL violations • High sodium in wells; • Septic problems due to cesspools; • Radiological violations 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • Treatment installed for nitrates and radiologicals; • pH adjustment added for corrosion control in 2013; • ACO closed-out; • Department executed Settlement Agreement with system in June 2018 to resolve violations; • Department intends to review TMF of system during site visit; • Department will monitor system's accrued violations quarterly to view improvement.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
3	NJ0702001	Bloomfield Water Department	<ul style="list-style-type: none"> • MCL/disinfection byproducts • TCR violations 	<p>Added to 2016 Strategy List.</p> <ul style="list-style-type: none"> • MCL exceedances for disinfection byproducts in 2015, 2016 and 2017; • Total Coliform Rule (TCR) violations in 2016 have been returned to compliance; • EPA and the Department conducted a sanitary survey in August 2017; • The Department will be compiling a profile of this system, its assets, as well as coupling it with a site inspection, if needed, to see what assistance is needed to achieve capacity; • System attempted to obtain a Drinking Water State Revolving Fund (DWSRF) loan to address deficiencies but submitted project has been lagging; • Outreach letter to system offering TMF assistance was sent and response from the licensed operator shows that they are very interested in the program; • Department is awaiting a complete TMF Evaluation Plan before continuing site visit.
4	NJ0714001	Newark Water Department	<ul style="list-style-type: none"> • Lead and Copper Rule ALE • DBP MCL violations • Open finished water reservoir 	<p>Added to 2016 Strategy List.</p> <ul style="list-style-type: none"> • Accrued ALE violations for Lead and Copper Rule; • Required to evaluate existing corrosion control treatment and submit recommendation by the end of 2017; • System is working towards covering their open finished water reservoir; • Multiple disinfectant by-product violations throughout the distribution system in 2018; • Newark completed a Comprehensive Performance Evaluation (CPE) and Comprehensive Technical Assistance (CTA) to identify issues at the treatment plant that need to be addressed; • Department is using completed CPE/CTA and TMF evaluation, coupling it with a site inspection to see what assistance is needed to achieve capacity; • Efforts are underway to replace some lead service lines through DWSRF funds

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
5	NJ1013001	Hampton Borough	<ul style="list-style-type: none"> • System lacks firm capacity • System only has one operational well; • No approved contract for interconnection with Glen Gardner 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • DWSRF funds have been awarded authorization for the construction of backup well #5; • A Safe Drinking Water Permit to Construct was issued on July 2016 for the new well construction; • System is looking to complete construction of well around February 2019 • Department will follow up accordingly to see what progress has been made.
6	NJ1710304	Eaglesview Health & Rehab	<ul style="list-style-type: none"> • Radiological MCL violations 	<p>Added to 2016 Strategy List.</p> <ul style="list-style-type: none"> • System has accrued numerous radiological violations; • ACO issued to return the system back into compliance; • O&M submitted and under review by Enforcement; • Treatment was installed 12/2017, but system is still getting violations; • ACO closing soon. The Department continues to monitor system for additional assistance needs
7	NJ1615001	West Milford MUA-Birch Hill Park	<ul style="list-style-type: none"> • Ground Water Rule (GWR) Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
8	NJ1615002	West Milford MUA-Greenbrook Estate	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.
9	NJ1615006	West Milford MUA-Parkway	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.
10	NJ1615012	West Milford MUA-Awosting	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.
11	NJ1615014	West Milford MUA-Crescent Park	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
12	NJ1615016	West Milford MUA- Olde Milford Estate	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.
13	NJ1615018	West Milford MUA- Bald Eagle Village	<ul style="list-style-type: none"> • GWR Significant Deficiencies • Significant sanitary survey deficiencies 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System has continued to struggle with numerous operational and maintenance issues and is currently undergoing purchase by a private owner; • Per change in ownership, system will be required to complete a technical, managerial, and financial evaluation to assess their capacity.
14	NJ1904004	North Shore Water Association	<ul style="list-style-type: none"> • Facility lacks auxiliary power • Distribution system is antiquated • System only has one well • Financial problems • Leaking oil tank contaminated well and treatment was installed by Spill Fund 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System will need a storage waiver; • Department looks to work with the system to decommission old well, if needed; • A recent TMF evaluation completed • The Department plans to conduct a site inspection with Enforcement and a technical assistance provider to provide further assistance; • Working with system on recommendations on TMF capacity.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
15	NJ1921001	Sussex Water Department	<ul style="list-style-type: none"> • Distribution system improvements needed • Disinfectant by-product issues 	<p>Added to 2016 Strategy List.</p> <ul style="list-style-type: none"> • ACO issued for Disinfection Byproduct (DBP) Rule violations, as well as other system deficiencies; • A site visit was conducted with Enforcement to determine the status of the system's ACO compliance; • System received United States Department of Agriculture (USDA) Water and Waste Disposal funds to put in place project that would help with DBP issues; • EPA performed a sanitary survey with Enforcement and the Department 5/21-23/2018; • EPA is in the process of drafting Administrative Orders (AOs) that will incorporate concerns about the system's chemical storage, employee safety with regards to Chlorine dioxide gas, on-site data storage, monitoring and reporting, licensed operator coverage, standard operating procedure (SOP)/O&M manual and recordkeeping.
16	NJ1922010	The Village of Lake Glenwood	<ul style="list-style-type: none"> • GWR significant deficiencies • Firm capacity issues • Undersized mains • Lead Consumer Notice Violation 	<p>Carry over from the 2013 List.</p> <ul style="list-style-type: none"> • System received assistance through the Engineering Initiative Contract to assist with applying for a DWSRF loan and meeting system deficiencies; • An asset management assessment was performed for the system; • Construction of well #1 and #2 and treatment upgrades to correct GWR significant deficiency have been completed; • Planning docs and design plans & specs completed and submitted all required permits; • Lead Consumer Notice violation issues; • Department will continue to monitor system's compliance to ensure capacity is maintained.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
17	NJ2103002	Belvidere Square Apartment Complex	<ul style="list-style-type: none"> • Chronic coliform excursions • well rehabilitation needed 	<p>Added to 2016 Strategy List.</p> <ul style="list-style-type: none"> • System is a part of the Engineering Contract, and they are close to getting a loan for the construction design of their system, but are still undergoing planning and design review; • System installed a double check valve in January which helped increase their low-pressure issues while they are operating on community water; • System has an approved modified treatment plant permit dated May 2018 requiring construction to be completed by the end of October 2019; • The Department will continue to monitor the progress of this system's project to ensure completion.

#	PWSID#	PWS NAME	INITIAL REASON LISTED	CURRENT STATUS OF ASSISTANCE
Noncommunity				
18	NJ0339320	Wagner Boot Camp	<ul style="list-style-type: none"> • Total Coliform Rule Violations • Stage 2 Disinfectants and Disinfectant Byproducts Rule violations 	Added to 2016 Strategy List. <ul style="list-style-type: none"> • System is nearing completion of installing PVC pipe to allow for appropriate disinfection contact time. • The Department will continue to monitor project to completion.
19	NJ0603324	Deerfield Municipal Court & Senior Center	<ul style="list-style-type: none"> • MCL/Radionuclides • MCL/ Nitrate 	Added to 2016 Strategy List. <ul style="list-style-type: none"> • System has consistently been in compliance with initial deficiencies and an up to date O&M was sent to the Department; • Department will continue to monitor system compliance.
20	NJ1808374	Bunker Hill Lutheran Church	<ul style="list-style-type: none"> • MCL/Total Coliform Rule • MR/ Total Coliform 	Added to 2016 Strategy List. <ul style="list-style-type: none"> • System installed UV disinfection system for 4-log virus inactivation and has resolved initial issues; • Department will continue to monitor system compliance.