NEW JERSEY ENVIRONMENTAL INFRASTRUCTURE FINANCING PROGRAM

STATE FISCAL YEAR 2019 PRIORITY SYSTEM AND PROJECT PRIORITY LIST

STATE FISCAL YEAR 2018 THIRD AMENDED PROJECT PRIORITY LIST

DISASTER RELIEF EMERGENCY FINANCING PROGRAM REPORT AND PROJECT PRIORITY LIST

Submitted to the State Legislature by

- The New Jersey Environmental Infrastructure Trust
- The New Jersey Department of Environmental Protection

JANUARY 2018

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New Jersey Environmental Infrastructure Trust

Public Board Members

Robert A. Briant, Jr., Vice Chairman
Roger Ellis, Treasurer
Mark Longo, Secretary

Ex-Officio Members

Ford Scudder, New Jersey State Treasurer
Bob Martin, DEP Commissioner
Charles A. Richman, DCA Commissioner

Executive Director

David E. Zimmer, CFA

New Jersey Department of Environmental Protection

Mailing Address:

P.O. Box 402
Trenton, NJ 08625

Location Address:

401 East State Street
Trenton, NJ 08625
609-292-2885

New Jersey Environmental Infrastructure Trust

Mailing Address:

3131 Princeton Pike
Building 4, Suite 216
Lawrenceville, NJ 08648
609-219-8600

Report to the Legislature
Pursuant to

P.L. 1985, Chapter 334
New Jersey Wastewater Treatment Trust Act of 1985
as amended by P.L. 1997, Chapter 224

Presented by

Bob Martin, Commissioner
New Jersey Department of Environmental Protection

Robert A. Briant, Jr., Vice-Chairman
New Jersey Environmental Infrastructure Trust

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New Jersey Department of Environmental Protection

New Jersey Environmental Infrastructure Trust

TO: Members of the New Jersey State Legislature

FROM: Bob Martin, Commissioner, New Jersey Department of Environmental Protection

Robert A. Briant, Jr., Vice-Chairman, New Jersey Environmental Infrastructure Trust

DATE: January 15, 2018

SUBJECT: State Fiscal Year 2019 New Jersey Environmental Infrastructure Financing Program

Introduction

In accordance with N.J.S.A. 58:11B-9(d), 20 and 20.1, the Department of Environmental Protection (DEP) and the New Jersey Environmental Infrastructure Trust (EIT), are transmitting the attached annual report which summarizes, as required:

(i) The ranking system and funding policies for projects to be funded in the State Fiscal Year (SFY) 2019 NJ Environmental Infrastructure Financing Program ("NJEIFP" or "Priority System");
(ii) The initial SFY2019 Project Priority List;
(iii) The 3rd amended SFY2018 Project Priority List;
(iv) The Disaster Relief Emergency Financing Program (Statewide Assistance Infrastructure Loan Program, or SAIL) project priority list;
(v) A comprehensive report on projects that received funding in SFY2017;
(vi) A comprehensive report on SAIL projects funded in the SFY2017.

Background

The NJEIFP provides funds to local government units (LGUs) and private water systems to ensure that the State's water infrastructure is properly constructed to State and Federal standards. These projects are critical in protecting public health, water quality, and the state's natural resources as well as supporting economic growth. For the past 31 years, DEP and the Trust have leveraged State and Federal funds (provided through the US State Revolving Fund (SRF) Program) with publicly issued tax-exempt bonds maximizing the number of projects funded while simultaneously focusing on cost and operational efficiencies. To date:

- The NJEIFP has issued more than **$7.2 billion** in low-interest loans;
- New Jersey's ratepayers have saved an estimated **$2.46 billion** in interest costs and Principal Forgiveness grants; and
- Total loan spending has generated over **124,000** direct construction jobs throughout the State[1].

DEP and the Trust have continued to develop new initiatives to increase the number of environmental projects funded each year and implement measures that simplify the application process and reduce costs. Specifically, the Trust augmented its enterprise software for more efficient functionality and project

[1] Based on the US GSA's estimate of 20 jobs per $1 million prior to 2012 and 12 jobs per $1 million thereafter.

tracking, streamlined the procedures by which requests are submitted on behalf of LGUs to the State Division of Local Government Services for their statutorily required approval to incur debt, and in accordance with P.L.2017, c. 71, launched the Water Infrastructure Savings Enabling (WISE) Act Calculator, an online tool to produce a Financing Cost Estimate; a comparative and transparent cost estimate of financing a project through the NJEIFP versus directly by the LGU.

SFY2019 - Initial Project List **408 projects / $3.72 billion**

The January Report identifies a pool for the SFY2019 NJEIFP consisting of 408 projects with an estimated value of $3.72 billion, continuing to demonstrate the NJEIFP's importance and commitment to meeting the State's environmental infrastructure needs. Please refer to:

- ***Appendix A*** *for those* ***Clean Water*** *projects identified on the SFY2019 Clean Water Interim Financing Program Project Priority List (SFY2019 CW Priority List) and, the 3rd-Amended SFY2018 Clean Water Interim Financing Program Project Priority List (SFY2018 CW Priority List),*
- ***Appendix B*** *for the* ***Drinking Water*** *projects identified on the SFY2019 Drinking Water Interim Financing Program Project Priority List (SFY2019 DW Priority List) and, the 3rd-Amended SFY2018 Drinking Water Interim Financing Program Project Priority Lists (SFY2018 DW Project Priority List)*.

SFY2019 Financing Program

Almost all NJEIFP projects are initially financed through the Trust's short-term loan program which currently offers zero percent financing. These favorable loan terms provide the most efficient costs of financing and provide borrowers flexibility by allowing them to begin work, including pre-construction activities such as legal and design efforts, when their projects are ready. The program converts a short-term loan to a long-term loan upon construction completion offering sum-certain long-term financing which mitigates IRS compliance issues, eliminates supplemental funding and minimizes interest costs as borrowers pay interest only on funds needed for the project and only on the amount of funds utilized at the time of draw.

The majority of these projects will receive long-term loans funded 75% with DEP funds at 0% interest and 25% with Trust AAA market rate funds, consistent with recent financing programs. On average, participants save over 40%, or $400,000 in interest costs per $1.0 million borrowed over 30 years compared to independent financing.

SFY2019 - Project Priority System

Base SRF Program – Clean Water - Includes specific incentivized set-asides for;

(i) Stormwater and nonpoint source pollution abatement projects in the *Barnegat Bay Watershed*,
(ii) *Combined Sewer Overflow Abatement* (CSO) projects utilizing green infrastructure, and
(iii) *Asset Management* - for Small Systems, defined as serving populations pf 10,000 or less.

The NJEIFP will continue the *Coastal Community Water Quality Restoration* set-aside established in SFY18 should funds remain unobligated at fiscal year-end as well as the *Brownfield Restoration* set-aside.

Base SRF Program - **Drinking Water.** Includes specific incentivized set-asides for;

(i) *NANO* - for Small System DW projects, up to **$4 million** of Principal Forgiveness funds,
(ii) Replacement of *Lead Service Lines* Program, up to **$30 million** in Principal Forgiveness funds,
(iii) *Engineering Reimbursement* Program – for Small Systems, up to **$2.8 million** in Principal Forgiveness funds for reimbursement of Engineering costs, and

(iv) *Asset Management* **-** for Small Systems.

Sandy SRF Program. The State was awarded **$229.3 million** of special SRF appropriations from the federal government for Sandy impacted wastewater treatment and distribution systems. Since SFY2015, the majority of these Borrowers receive financing with loans consisting of:

(i) 56% funds at 0% interest rate and 19% Principal Forgiveness from the DEP, and
(ii) 25% funds at a AAA interest rate from the Trust.

DEP & Trust-Only Loans. Borrowers receiving a CSO loan in excess of applicable caps on an incentivized program are eligible for 100% interest-free financing from DEP.

Lead Abatement - The Financing Program will provide loans for the abatement of lead in the water systems of public community and non-profit, non-community water systems. As much as $30 million will be made available for a Lead Service Line Replacement Program for communities having a median household income less than the median household income for the county in which they are located. Financing in the form of 90% principal forgiveness and a 10% DEP interest free loan, with a $1.0 million cap per project, is being offered for "complete projects". Complete projects alleviate lead in all affected system components (service provider lines, property owner lines, and any internal plumbing, and delivery fixtures). Eligible borrowers must provide documentation of the presence of lead components.

SFY2019 – Highlights

In SFY2019, the NJEIFP will continue features introduced in recent years including an initiative for abating lead in water systems of publicly owned facilities. Highlights of the program include:

- **Short-Term Funding Readily Available** – Elimination of deadlines as rolling applications and an award process for short-term loans is in effect throughout the year regardless of the time of application or need;
- **Attractive borrowing terms and rates** – the NJEIFP is offering up to 100% interest free short-term financing during construction of the project;
- **CSO Initiatives -** Communities in CSO sewer-sheds may access short-term funds for Planning & Design work for up to 10 years to develop long-term control plans and begin construction;
- **More Frequent Bond Issuance -** The Trust issues long-term bonds twice per year allowing participants to regularly roll short-term construction loans into long-term financing;
- **Longer Loan Maturities -** The NJEIFP is offering loan terms up to 30 years for qualified projects, lowering the annual repayment obligation for municipalities and systems. The program is considering extended term financing beyond 30 years for CSO abatement projects;
- **Supplemental Assistance -** The Department employs outside engineering services when conditions exceed the resources of the Department;
- **Asset Management -** The Financing Program, in compliance with new Federal requirements enacted under the Water Resources Reform and Development Act (WRRDA), is implementing an Asset Management Program (AMP) to maximize the return on investment of public funds;

SFY2017 – Recap **91 Projects / $498.6 M**

Short-Term Loans – 72 projects received short-term financing for the first time totaling **$327.9 M.**
Short-Term Rolls – 5 projects outstanding prior to SFY2017 were adjusted and received **$25.5 M.**
Short-Term *SAIL* Loan – 2 SAIL projects received short-term financing for the first time totaling **$91.4 M.**
Short-Term *SAIL* Rolls – 1 SAIL project outstanding prior to SFY2017 was adjusted and received **$6.7 M.**

(Note: These 3 loans bring the total SAIL loans issued to-date for Superstorm Sandy, to $189.8 million representing nine (9) projects for five (5) borrowers to address immediate cash flow needs in advance of federal disaster reimbursement grants.

SAIL borrowers benefit from Trust involvement in the compliance of FEMA requirements and processing submissions of reimbursement requests to FEMA resulting in 90% of all approved costs (the maximum allowable under FEMA's reimbursement cap for Sandy) in an average time of just 22 days.)

Long-Term Loans – 11 projects received long-term financing for the first time totaling **$40.1 million.**
Long-Term Rolls – 35 projects, previously funded with short-term loans, converted to long-term loans for an additional **$7.0 M.**
Refundings – The Trust continued to take advantage of historically low interest rates in January 2017, refunding two outstanding NJEIT bond series totaling $106.355 million par amount. The Series 2017A-R1 bonds saved 22 communities **$2.36 million** and the Series 2017A-R2 bonds saved 93 communities an additional **$7.8 million** in lower annual debt service payments over the remaining life of the bonds.

The Trust's upcoming May Report will set forth the Project Eligibility List of those projects eligible for long-term funding in SFY2019 and the plan by which those projects participating in the SFY2019 Financing and SAIL Programs will be funded.

We look forward to meeting with you to discuss the upcoming year's financing program. We and our staff remain available to answer any questions you may have regarding projects on the attached lists or any of the NJEIFP's initiatives contained within this Report.

Thank you for your time and continued support.

Bob Martin
Commissioner,
NJ Department of Environmental Protection

Robert A. Briant, Jr.
Vice-Chairman,
NJ Environmental Infrastructure Trust

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JANUARY REPORT

FOR STATE FISCAL YEAR 2019
PRIORITY SYSTEM AND PROJECT PRIORITY LIST

FINANCING PROGRAM BACKGROUND

INTRODUCTION

This January Report (Report) is submitted to the New Jersey State Legislature (Legislature) pursuant to N.J.S.A. 58:11B-1 et seq., specifically, N.J.S.A. 58:11B-9(d), 20 and 20.1. It has been prepared by the New Jersey Department of Environmental Protection (Department or DEP) and the New Jersey Environmental Infrastructure Trust (NJEIT or Trust), which together administer the New Jersey Environmental Infrastructure Financing Program ("NJEIFP" or "Financing Program") to provide short and long-term loans for the planning and construction of environmental infrastructure projects.

This Report summarizes and includes:

(i) The method employed to prioritize projects and establish project rankings for the State Fiscal Year (SFY), beginning July 1, 2018 (SFY2019)

(ii) The NJEIFP's initial SFY2019 Interim Financing Program Project Priority List (Project Priority List) identifying projects to be considered for funding in SFY2019

(iii) A third amended SFY2018 Project Priority List to amend the list of projects to be considered for funding in SFY2018

(iv) A List of projects financed in the most recently completed fiscal year, SFY2017, in compliance with the requirements set forth in the Trust Enabling Act N.J.S.A. 58:11B-20(d) and 20.1(d), including the project name, project description, loan type, and loan amount.

(v) A list of project applications under review for short-term loans pursuant to the Disaster Relief Emergency Financing Program **(SAIL)** for projects to improve resiliency in future natural disasters

(vi) A comprehensive report on SAIL funded projects financed through December 31, 2017

In May, the Trust and the Department will jointly publish the Financial Plan (also known as the "May Report"). The May Report will summarize the NJEIFP's available loan programs, loan terms, and the loan closing process for projects to be funded in SFY2019.

Federal requirements regarding funds appropriated under the Clean Water Act (CWA) and Safe Drinking Water Act (SDWA) necessitate the NJEIFP's development of an annual Clean Water Priority System, Intended Use Plan, and Project Priority List (together the CW Plan) and a Drinking Water Priority System, Intended Use Plan, and Project Priority List (together the DW Plan). In November of 2017, the DEP issued

the proposed CW Plan and DW Plan for projects to be financed in SFY2019 pursuant to its obligations under the CWA and SDWA. Those publications are largely summarized in this January Report.

GOALS

The main objectives of the NJEIFP is to:

- Provide capital for water and wastewater infrastructure renewal to protect public health and the environment for multiple generations of New Jersey citizens;
- Continue serving as the Garden State's premier source of environmental infrastructure financing through self-sustaining, efficient and transparent programs;
- Establish and efficiently manage a permanent source of funding for clean water and drinking water infrastructure projects;
- Provide project financing at a much lower cost than program participants could achieve individually thereby passing substantial savings on to New Jersey taxpayers and rate payers; and
- Increase access to capital markets for those participants that find it difficult or expensive on their own, due to lower credit ratings or a lack of familiarity with debt financing.

SFY2019 NJEIFP

HIGHLIGHTS

The NJEIFP is continuing initiatives developed and enacted in recent years for SFY2019.

i. Rolling application and funding process: Legislative amendments to the Trust's enabling act permit changes to the IFP list to be submitted to the legislature four times during the fiscal year enabling the Program to more readily offer borrowers short-term loans that are more in line with their time frames, particularly when their projects are ready for construction. The IFP list can now be updated periodically as project applications are received and ranked by the Department as generally meeting SRF parameters. This change is an important component of a rolling application process improving responsiveness to individual borrowers' construction schedules as opposed to mandating compliance with annual financing or legislative deadlines.

ii. Fiscal Sustainability Plan (Asset Management): H.R. 3080, the Water Resources Reform and Development Act of 2014 (WRRDA) requires all SRF loan recipients receiving funds for the repair, replacement, or expansion of a treatment works to develop and implement a Fiscal Sustainability Plan (FSP) or certify that they have developed and implemented such a plan for the funded project. An FSP requires a Borrower to:

(i) Inventory critical assets that are part of the treatment works,
(ii) Evaluate the condition and performance of inventoried assets or asset groupings,

(iii) Certify that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan, and

(iv) Present a plan for maintaining, repairing as necessary, and replacing the treatment works and funding such activities.

iii. Asset Management: The categorization of system assets along with a financial plan that lays out the methods, scheduling and financing of the strategic upkeep and replacement of such assets describes an Asset Management Plan (AMP). The Department and the Trust are working jointly to develop a State-wide Asset Management Program that is intended to increase the responsible management of drinking water and wastewater systems by assisting such systems in the development and implementation of effective AMPs. The Program also aims to identify the human and capital resources necessary to achieve and maintain effective operations, assist owners and operators with clearly defined metrics, and provide technical assistance to owners and operators. The Asset Management Program will include AMP compliance standards as well as a corresponding implementation time table, the Department and/or Trust retaining any necessary professional services to assist the Financing Program in implementing and monitoring such an AMP, and the development of sample templates and standardized planning tools to assist water systems with the creation of their AMP. The Department has launched an asset management webpage (www.nj.gov/dep/assetmanagement/) that sets forth information pertaining to Asset Management, the State Asset Management Program, publications, and financing. It also includes resources such as EPA's interpretative guidance on FSP's and the DEP's Asset Management Guidance & Best Practices document which can be found at: http://www.nj.gov/dep/watersupply/pdf/guidance-amp.pdf. In addition, the Water Quality Accountability Act, P.L. 2017, c. 133 (WQAA), enacted on July 21, 2017, established new requirements for purveyors of public water to improve the safety, reliability, and administrative oversight of water infrastructure. The WQAA applies to water purveyors with more than 500 service connections, which is approximately 300 water systems in New Jersey. The WQAA requires purveyors to create and implement an AMP designed to inspect, maintain, repair, and renew its infrastructure consistent with standards established by the American Water Works Association.

iv. Lead Abatement: The existence of lead service lines in aging drinking water infrastructure poses potential risk to public health which can be significantly reduced through the replacement of lead service lines. The NJEIFP offers funding for the replacement of lead pipes and lead components, including mains and service lines. Up to $30 million is available in principal forgiveness for the Lead Service Line Replacement Program for communities having a median household income less than the median household income for the county in which they are located. Lead service line replacement is eligible for financing at 90% principal forgiveness and the remaining 10% loan at zero interest. There is a $1 million cap on principal forgiveness per project. The following criteria must be met in order for the project to be eligible:

- Be able to document the presence of lead pipes and components

- Provide documentation through historic records that the lines to be replaced are lead. Acceptable records include information on the age of the houses and the high probability of lead lines and components being present, line installation records, etc.
- Partial lead line replacements are not allowable.

v. Continued Transition to Short-Term Loans for Project Planning and Construction: In SFY2015, the Financing Program commenced its multi-year short-term loan program wherein short-term loans are issued for planning and construction, with maturity terms not to exceed three full fiscal years. The NJEIT may utilize commercial paper or similar private capital as a potential source of funds for short-term loans to ensure sufficient capital is available for short-term loans. Short-term loans are issued at interest rates between 0% and 25% of the market rate, depending upon the funding source, which directly reduces the cost of borrowing. Such loans are then refunded and converted into long-term loans when the projects are at or near construction completion. Sizing long-term loans based on actual construction cost as opposed to engineering estimates provides greater certainty as to costs and significantly reduces the incidence of post-loan closing issues including de-obligation of unexpended capital and the issuance of supplemental loans for project overruns, actions which used to require additional work and costs on behalf of the Borrowers and their consultants. The NJEIFP anticipates conversion of certain short-term construction loans semi-annually due to the growth of the construction loan program and as provided for in the statutory amendments. Eligibility for long-term financing includes legislative appropriation of the project, and satisfaction of the Term Financing Criteria established by the Trust requiring a certain percentage of construction completion.

vi. Disaster Relief Emergency Loan Financing Program (aka SAIL): Authorized in SFY2014, the Trust developed and implemented the Statewide Assistance Infrastructure Loan (SAIL) Program. SAIL assists those communities in counties impacted by a declared disaster with financing environmental infrastructure projects to repair adversely impacted systems or improve the resiliency of such systems or similar systems that reasonably would have been impacted by such a disaster. The establishment of well documented and refined program parameters, procurement of technical assistance, successful funding of SAIL projects, and amassing strong working knowledge of reimbursement programs under the Federal Emergency Management Act has positioned the Program to provide immediate assistance to adversely impacted environmental infrastructure systems in the next disaster.

vii. Conduit Redevelopment Projects: For projects with significant private involvement utilizing a local government unit as a conduit to access the Financing Program, the program will continue to offer an interest-free loan from the Department for up to 50% of the allowable project costs (not to exceed $25 million) and a market rate loan from the Trust for the remaining allowable project costs for conduit/redevelopment projects.

FINANCING PROGRAM OFFERINGS

The **NJEIFP** consists of two loan formats, short-term and long-term loans. Together, they provide funding for all aspects, phases and components of designing and building environmental infrastructure projects. NJEIFP Loans are issued, upon approval of applicable NJEIFP program requirements, for costs incurred for designing and constructing projects (and land preservation) that enhance and protect ground and surface water resources, ensure the safety of drinking water, and facilitate responsible, sustainable economic development (Environmental Infrastructure Project).

Each loan is funded from one or more of the following sources: (1) federal appropriation of United States Environmental Protection Agency (USEPA) capitalization grants issued pursuant to the Water Pollution Control Act Amendments of 1972 (CWA) and Safe Drinking Water Act Amendments of 1996 (SDWA); (2) various state bond issues and other state funds; (3) loan repayments; (4) interest earnings; (5) Trust bond proceeds; (6) Trust operating revenues; and (7) Trust Commercial Paper or Line of Credit. In addition, special appropriations through the Disaster Relief Emergency Appropriations Act of 2013 (PL 2013-2) are utilized for Superstorm Sandy Loans.

SHORT-TERM FINANCING

Short-Term loans are available for up to 3 full fiscal years, or up to the statutorily permitted term, to finance the cost of (i) environmental planning and engineering design activities incurred, and (ii) project construction upon application approval. Short-Term Loans for Combined Sewer Overflow Long-Term Control Plans, recognized by the NJEIFP, offer terms of up to ten (10) years. Most borrowers are able to include the 1% DEP loan origination fee (50% of the total DEP loan origination fee) in their short-term loan. Short-Term loans are only issued for activities likely to lead to, or the construction of, an Environmental Infrastructure Project. While the terms of the financing, including Principal Forgiveness, are established at the time of the Short-Term loan, they are contingent upon a project receiving long-term financing. These terms vary primarily with the nature of the project activities or populations served as detailed below.

Short-Term loans are also available under the SAIL Program for environmental infrastructure projects for the repair to systems adversely impacted during natural disasters and/or to improve the resiliency of systems. In addition, Short-Term Loans are available for environmental infrastructure projects necessary to respond immediately to emergencies (other than SAIL) that endanger public health and welfare that are likely to result in substantial environmental damage.

In an effort to reduce transaction costs, each project's Short-Term loan will be for the entire estimated cost of the project, but the commitment of funds is limited to the approved planning and design costs. The agreement is then amended to reflect subsequently approved costs, e.g., construction contract at the time of authorization to award. Short-Term loans are currently offered for terms of up to the statutory limit of three full fiscal years. Note, the Borrower is not obligated to repay principal or interest (if any) during the term of the short-term loans. Instead, the Borrower's long-term loan is utilized to "payoff" the Short-Term Loan, which includes any accrued interest and fees. These totals are rolled into the Borrower's long-term Financing Program loan.

All Short-Term loans are funded with DEP funds. Loans are currently 100% interest free, provided DEP funds are available. If the Trust uses private funds to finance a portion of the short-term loans, the Program will pass the cost of those funds through to Program borrowers.

The SFY2019 Interim Financing Program Clean Water Project Priority List and the SFY2019 Interim Financing Program Drinking Water Project Priority List, set forth in Appendices A and B respectively, identify environmental infrastructure projects eligible for short-term financing pursuant to N.J.S.A. 58:11B-9.

LONG-TERM FINANCING

Long-Term Loans are issued upon completion of a percentage of project construction (demonstrated through submitted requisitions). Due to the enhancements to the Short-Term Financing Program, Long-Term loans are largely mechanisms to refinance previously issued short-term loans for construction and P&D activities. With limited exception, all relevant Program terms and conditions are established at the time of issuance of short-term loans: for example, credit worthiness approval; Division of Local Government Services approval; the State's commitment of long-term funding at the time of certification of each operable project segment; and the applicability of all program benefits (e.g., principal forgiveness). Long-Term Loans provide certainty as to the interest rate which is fixed for periods of up to 30 years or in the case of CSO projects, terms up to 45 years. Consistent with local finance law, Borrowers having short-term loans in excess of three years commence principal repayments in year 3, in an amount not less than 1/30th of the loan amount annually.

SPECIFIC PROGRAMS

i. Base: The general loan program financing all Environmental Infrastructure Projects not categorized below. These loans have an effective interest rate of 25% of the market rate (CW & DW);

ii. Supplemental/Excess Costs: Environmental Infrastructure Projects whose costs exceed the amount financed in a prior Long-Term Loan due to differing site conditions or when the low bid building cost exceeds original State or local authorizations. These loans have a Trust to Fund loan ratio equivalent to that of the original project. The need to issue supplemental long-term loans has subsided as the Financing Program transitions fully to funding through construction loans. (CW & DW);

iii. Superstorm Sandy: Environmental Infrastructure Projects to improve the resiliency of environmental infrastructure systems adversely impacted during Superstorm Sandy. The majority of these loans have a Trust to Fund loan ratio as follows: 19% of eligible project costs funded with principal forgiveness, 56% funded with a DEP 0% interest rate loan and 25% funded with a Trust AAA-rated, market interest loan. It is anticipated that the large majority of such funds will be committed to projects in SFY2018. (CW & DW);

iv. CSO Abatement: In addition to funds carried over from SFY2018, up to $6 million is available in principal forgiveness for CSO abatement projects utilizing green practices (green roofs, blue roofs, rain gardens, porous pavement, and other activities that maintain and restore natural hydrology by infiltrating, evapotranspiring, harvesting and using stormwater) in SFY2019. Loans for these projects receive 50% principal forgiveness, 25% DEP interest free loan and 25% NJEIT AAA market rate financing and are limited to $2M in principal forgiveness. The remaining loan is financed at 100% DEP interest free financing. CSO Abatement Projects without green practices are eligible for 100% DEP interest free financing in SFY2019 and possibly principal forgiveness to the extent funds remain available from SFY2018. The Program is considering extended term financing beyond 30 years for CSO communities. (CW only);

v. Barnegat Bay Projects: In addition to funds carried over from SFY2018, up to $3 million is available in principal forgiveness for stormwater and non-point source pollution management projects in the **Barnegat Bay Watershed.** The Program initially reserved $6 million in principal forgiveness in SFY18 for this category of projects. In October 2018, the Christie Administration provided an additional $4 million in principal forgiveness for a total of $10 million reserved for Barnegat Bay projects in SFY18. These loans have a Trust to Fund loan ratio as follows: up to 50% of eligible project costs are subject to principal forgiveness not to exceed $2 million. The remaining loan is financed at 25% DEP interest free and 25% NJEIT market rate financing. (CW only);

vi. Coastal Community Water Quality Restoration: The Program is offering 50% principal forgiveness for capital improvement projects that will eliminate, prevent or reduce occurrences of shellfish bed or beach closings due to the presence of pathogens. Projects would eliminate such potential sources as failing on-site wastewater systems and cross-connections between storm sewers and sanitary sewers. Project costs up to $5 million would receive 50% principal forgiveness, 25% DEP interest-free, and 25% NJEIT market rate financing. Project costs exceeding $5 million are eligible for the Base CWSRF structure. $2.5 million in principal forgiveness has been committed towards Cumberland County Improvement Authority to resolve failing septics and prevent shellfish bed closures in Downe Township, limited to Fortescue and Gandys Beach. A total of $5 million in principal forgiveness funds was reserved last year. Any amounts that remain unobligated at the end of SFY18, continue to be available for these purposes in SFY19.

vii. Small Drinking Water Systems (NANO): In addition to funds carried over from SFY2018, up to $4 million is available in principal forgiveness for Drinking Water Projects to existing publicly-owned and privately-owned community water systems and non-profit, non-community water systems with populations of 10,000 persons or less offering a 50% principal forgiveness loan. These loans are capped at $1 million and feature a Trust to Fund loan ratio as follows: up to 50% ($500,000) of eligible project costs are subject to principal forgiveness with monies provided by the DEP; 25% of funds are provided by the DEP at 0% interest and 25% of funds are provided by the Trust at the Trust's AAA-rated market rate. Any project costs in excess of $1,000,000 may be loaned under the terms of the base financing program (25% market rate). The DEP waives its fee for NANO loans;

Small water system loans are available to larger, more viable water systems, which are willing to take ownership of small water systems in the calendar year 2018 or later, and make the corresponding, required capital improvements. Therefore, the larger water systems would be eligible for the same enhanced loan terms as the otherwise eligible small water system. (DW only);

viii. Lead Abatement Projects: Up to $30 million is available for Lead Service Line Replacement Program for communities having a median household income less than the median household income for the county in which they are located. This set aside will be offered as principal forgiveness to finance the cost of replacement of lead pipes and lead components in these communities with terms of 90% principal forgiveness and 10% DEP interest free loans up to a $1 million cap in principal forgiveness per project. (DW only);

ix. Asset Management for Small Systems: In addition to funds carried over from SFY2018, up to $1 million is available in principal forgiveness for small system asset management development. NJEIFP provides 100% principal forgiveness to small drinking water and wastewater systems, those that serve 10,000 or fewer people, to develop and implement asset management programs. Loans are capped at $100,000 per applicant and the DEP waives its fee. A capital improvement project valued at $250,000 or more is required from the creation of the asset management program in order to maintain eligibility for principal forgiveness. (DW only);

x. Small Water System Engineering Program: DEP is partnering with the Community Engineering Corps to identify water systems that serve fewer than 500 persons and need assistance to come into compliance. $2.8 million is being made available for this program. 100% principal forgiveness loans will be available to those systems that are assisted by the Community Engineering Corps with a cap of $500,000 per project. (DW only).

DISASTER RELIEF EMERGENCY FINANCING PROGRAM (SAIL)

Disaster-related projects eligible for financing through the SAIL Program include a wide variety of waste water treatment, stormwater management and nonpoint source pollution abatement projects that were impacted by Superstorm Sandy. The SAIL Program provides short-term loans, generally in advance of federal disaster reimbursement grants, to address the immediate cash flow needs of municipalities and authorities for:

- their project's local match requirement and/or in anticipation of reimbursement through federal grant programs including but not limited to FEMA 406 and 404 grant programs, HUD-CDBG and NJEIFP to pay for construction costs related to the repair of infrastructure damaged during Sandy; and
- Projects to improve infrastructure resiliency in future disasters.

Eligible applicants include local government units, including municipalities, counties, sewerage authorities, municipal utilities authorities, county improvement authorities and other subdivisions of government. SAIL significantly broadens the options available for financing such projects by providing funding opportunities to projects otherwise unable to secure financing and expanding funding sources

through low interest loans for terms up to 3 full fiscal years. Currently SAIL Loans are funded at 0% interest rate but are offered at up to 25% of the market rate depending on the availability of funds.

Projects financed through the SAIL Program are on a first-approved, first-funded basis provided the project satisfies the requirements of the SAIL legislation and the Trust Board Resolution originally approved June 13, 2013 and amended and restated on December 13, 2013, which includes:

- Submission of a Letter of Intent and environmental planning documents;
- Project permits;
- Construction design documents and State and Trust loan applications;
- If an applicant seeks SAIL financing for short-term cash flow needs in anticipation of federal reimbursement (e.g. FEMA), the application review also requires satisfaction of the requirements of the federal program from which reimbursement is or will be sought;
- A certification by the Commissioner of the DEP that the Project is necessary and appropriate to repair damage to a wastewater treatment system or water supply facility directly arising from an act of terrorism, seismic activity or weather conditions that occurred within the prior three State Fiscal Years and that gave rise to a declaration by the Governor of the State (the "Governor") of a state of emergency, provided that such wastewater treatment system or water supply facility is located in a county included in the Governor's state of emergency declaration, or
- Mitigate the risk of future damage to a wastewater treatment system or water supply facility from an act of terrorism, seismic activity or weather conditions comparable in scope and severity to an act of terrorism, seismic activity or weather conditions that occurred within the prior three State Fiscal Years and that gave rise to a declaration by the Governor of a state of emergency, provided that such wastewater treatment system or water supply facility is located in a county included in the Governor's state of emergency declaration;
- The Project is listed on the SAIL Disaster Relief Emergency Financing Program Priority List for funding in the forthcoming State Fiscal Year submitted to the Legislature in a form provided by the Commissioner of the DEP and within 3 fiscal years of the declared disaster;
- The proposed Borrower has submitted a complete application for the Project to the Trust; and
- The Board of Directors of the Trust has certified the Project.

The majority of SAIL loan applicants have confirmed interest in long-term NJEIFP financing for a portion of project costs and as such, such SAIL projects will be certified for compliance with SAIL and NJEIFP program requirements as well as program requirements of the applicable federal program from which reimbursement is sought. Given the potential risks to FEMA funding eligibility if EPA capitalization grants are utilized for any portion of long-term loans, significant resources are being committed to ensure consistency of funding sources.

Given the necessity that project expenses meet FEMA/HUD requirements as a condition of reimbursement and the need to have such applications approved expeditiously, the program has retained an outside engineering consulting firm to assist in the review of construction design and eligible costs, conduct site visits and review disbursements. Although it is anticipated that the majority of such costs will be reimbursed by federal funding sources, ineligible/unreimbursed amounts are the responsibility of the applicant. Qualifying SRF amounts will be financed by NJEIFP and paid for by the SAIL program Borrower. Such costs will typically be incorporated into the long-term financing program package.

A particularly successful Program, seventeen (17) SAIL projects, with an estimated cost of $667 million, have expressed interest in SAIL financing, all of which are projects to improve the resiliency of waste water facilities adversely impacted during Superstorm Sandy. As of January 2018, three (3) have completed construction at an estimated cost of $7.9 million, six (6) are under construction at a total estimated cost of $182 million, and it is anticipated that the remaining eight (8) projects will be awarded construction before the end of 2019.

SAIL participants also enjoy a number of unique benefits. Applicants enjoy an abbreviated application review period. Borrowers enjoy a streamlined FEMA reimbursement process: (1) the Trust provides funds to Borrowers to pay construction costs within an average of eight (8) days of receipt of requests for reimbursement, a marked improvement relative to project sponsors who would otherwise be seeking reimbursement from FEMA individually; and (2) SAIL staff possesses an expertise in FEMA regulations and compliance matters and guide Borrowers in the proper structuring of reimbursement requests to reduce the frequency of rejected or unreimbursed cost submissions as well as the probability of non-compliance with FEMA's requirements.

The SFY2019 Disaster Relief Emergency Financing Program Project Priority List set forth in Appendix A identifies environmental infrastructure projects eligible for SAIL financing pursuant to N.J.S.A. 58:11B-9.5. Projects having received SAIL financing through December 15, 2017 are set forth in Appendix C.

ELIGIBLE PROJECTS / BORROWERS

The NJEIFP provides funding for environmental infrastructure projects with a primary focus on clean water and drinking water construction, rehabilitation and repair of systems which are owned and or operated by local government units and public water systems (entities possessing a permit for the delivery of Safe Drinking Water).

Projects eligible for Clean Water funding include wastewater management, storm water management and non-point source pollution control projects, landfill closures, open space land acquisition, brownfield remediation and well sealing. Owners of publicly-owned treatment works (towns, boroughs, municipal utilities authorities, counties, regional water authorities, other local government units, etc.) with projects to improve water quality are eligible for the NJEIFP. Private entities are eligible through public conduit borrowers. The NJEIFP is also opening up project eligibility to private colleges and universities that are interested in sponsoring nonpoint source pollution projects to help address water quality concerns under the Clean Water SRF.

Projects eligible for Drinking Water funds include the rehabilitation or development of sources to replace contaminated drinking water sources, treatment and storage facilities transmission/ distribution pipes and appurtenances to prevent contamination or improve water pressure to safe levels, and upgrades to security measures. Detailed information regarding eligible projects is set forth below. Public community water systems, both privately and publicly owned, and nonprofit non-community water systems (as defined by the National Primary Drinking Water Regulations) are eligible for NJEIFP assistance. Public community water systems owned by water commissions, water supply authorities, and water districts are also eligible. Federally owned systems and State-owned system (State agencies, such as State Police, Parks and Forestry, and Corrections) are not eligible to receive NJEIFP assistance.

In addition to the project types listed above, project sponsors are encouraged to propose any projects to the NJEIFP that have energy efficiency, water efficiency or clean air aspects that may not typically be viewed as a clean water or drinking water project. These activities are likely to be eligible for NJEIFP assistance as USEPA has indicated their support for these sustainability initiatives and the construction of green infrastructure.

Applicants must demonstrate an ability to meet repayment obligations and satisfy the Program's credit worthiness standards, which requires an investment grade credit rating or a suitable credit enhancement with exceptions provided for very small loans. Approximately 91% of the Financing Program's current Borrowers provide a municipal general obligation pledge.

BORROWER BENEFITS

In addition to the significant interest cost savings, Program participants realize significant cost-saving measures through the following program features:

DOLLAR SAVINGS

- Funds Provided Interest Free during Construction – Currently, during the short-term loan period, Borrowers pay no interest on funds utilized;

- Interest Cost Savings – In SFY2018, Program borrowers receive 75% of their long-term financing from the DEP at 0% and the remaining 25% of funds from the Trust at the Trust's AAA market rate, creating a "blended" loan rate of 25% of the AAA market rate. This lower cost of funds results in interest savings of as much as 40% of the total loan amount over 30 years when compared to the cost of these borrowers financing their projects on their own.

- Earnings Credits – Investment earnings from all bond funds, such as the project fund, revenue fund and, when applicable, debt service reserve funds, are distributed to Borrowers as credits toward their debt service payments;

- No bond insurance required - The Program's financial structure produces the highest possible credit rating without the expense or requirement for Borrowers of purchasing costly bond insurance;

- No reserve – Borrowers in the Financing Program are exempted from the Division of Local Government Services requirement of posting a 5% reserve prior to bond issuance;

- Minimized financing costs – Borrowers are charged a flat 10 basis point fee for cost-of-issuance of Trust bonds on the Trust portion of their total project loan. The remainder of the cost-of-issuance of the bonds is paid by the Trust;

- No front-loading requirement – LGUs issuing their own general obligation debt are required to "front load" their repayment schedule. This ensures that debt service payments are larger in the early years of the loan, and decline over time. The Financing Program provides for level debt service throughout the life of the loan normalizing annual payments for rate payers;

- Refunding – The Trust continually monitors market conditions to assess when interest rates meet the State's savings threshold for refunding prior bonds. All savings realized from prior bond refundings (a total of $158 million since the Financing Program's inception), are passed on to Borrowers, further lowering their loan costs; and

- Debt service reserve fund – Investment grade rated Borrowers are relieved of their obligation to commit a portion of loan funds to debt service reserve due to the Program's Master Program Trust collateralization structure.

CASH FLOW FLEXIBILITY

- Upfront Cash – The disbursement of funds is expedited based on a rapid requisition approval process relieving Borrowers from utilizing cash-on-hand to pay contractors and vendors up front;

- Capitalized interest –Borrowers may capitalize interest on the long-term loan as allowable by the IRS guidelines;

- Deferred Principal Repayment – During the Short-Term loan period no principal repayments are due. Additionally, to better align a project's cash flow dynamics, Borrowers may defer principal repayment as allowable by the IRS guidelines;

- Generous allowable costs – Associated project costs, including planning and design, engineering, local financing and curb-to-curb right-of-way restoration may be financed through the program. An eligible project's reserve capacity costs such as excess project capacity may be financed through a Trust-only loan; and

- Flexible Term - Shorter term financing is available for Borrowers who wish to minimize the repayment period of their loan.

ADMINISTRATIVE

- No Arbitrage Worries - The Trust manages federal IRS arbitrage rebate requirements, relieving Borrowers of the cost and administration of this obligation;

- No Secondary Disclosure Requirements – Due to the size of the Financing Program, presently no single Borrower is a Material Obligated entity. As a result, Financing Program Borrowers are not required to fulfill secondary disclosure requirements for the S.E.C.; and

- Timely Decisions – The Department prioritizes Financing Program project reviews.

SFY2017 NJEIFP SUMMARY

PROJECTS

LONG-TERM FINANCING

Bond Pool Projects: A total of **thirty-six (36)** borrowers representing **forty-four (44)** clean water and drinking water projects received long-term NJEIFP financing in the amount of **$47,147,543 in net proceeds** in SFY2017. These projects were funded as part of bond pools through a combination of bond proceeds and state and federal funding sources. The large majority of loans received an interest rate equivalent to 25% of the market rate.

SHORT-TERM LOAN PROJECTS

In the SFY2017 Financing Program, **forty-eight (48)** borrowers representing **seventy-nine (79)** clean water and drinking water projects received short term construction loans in the amount of $451,439,198. Fourteen of these forty-eight borrowers received long-term financing by June 30, 2017.

SAIL LOANS

The Trust issued **two (2)** disaster emergency SAIL Program loans in SFY2017 to finance Superstorm Sandy-related rebuild and resiliency projects in an amount equal to **$97,053,113**:

- **Middlesex County Utilities Authority** for restoration work on the Sayreville Pump Station in the amount of $87,953,113, and
- **Passaic Valley Sewerage Commission** for the rehabilitation of their administration building in the amount of $9,100,000.

The Trust also provided additional financing to the **Bayshore Regional Sewage Authority,** thus increasing its SFY2016 SAIL loan amount by $3,797,981.

By providing construction funds to the above communities, these SAIL loans allowed the undertaking of the physical construction months in advance of when such projects might have otherwise begun, allowing the disaster-impacted system to build resiliency and return to more normal conditions sooner and with less financial strain on the communities.

TOTAL SFY17 PROJECTS

In SFY2017, 107 projects received funding through short-term and/or long-term loans totaling approximately $498.5 million.

See Appendix E for a Summary of these projects.

NJEIFP FINANCING PROGRAM STRATEGY

PRIORITY SYSTEM, INTENDED USE PLAN (IUP), AND PROJECT PRIORITY LIST

BASE SFY2019 NJEIFP AND SANDY NJEIFP PROGRAM LOANS

The CW Plan and DW Plan detail the State's proposal to expend federal capitalization grants to finance the NJEIFP's Clean Water and Drinking Water project loans in the ensuing SFY. The proposed combined CW and DW Plan for SFY2019 was published on November 13, 2017. This Report, in part, reflects the contents of the proposed CW and DW Plans for both the SFY2019 Base and Sandy Financing Programs.

Sources of funding for Superstorm Sandy projects for FFY2018/SFY2019 will come from the unused portion of FFY2017 Disaster Relief Appropriations Act ("DRAA"), and authorized funds from the DEP and the Trust. Although the Department is working to award all of the Sandy CWSRF and DWSRF funds in the SFY2018 Program, there is the possibility that not all of the available funds will be utilized by the end of the fiscal year. Therefore, the Department will continue to accept application submittals under the Sandy CWSRF and DWSRF Program, which generally includes a principal forgiveness component of approximately 19% of the allowable costs. If all of the Sandy CWSRF and DWSRF funds are awarded in SFY2018, new application submittals will still be eligible for financing under the Base Loan Program's 75% DEP and 25% Trust loan structure.

This loan cap was established to ensure that all project sponsors have access to Superstorm Sandy funding and the Principal Forgiveness dollars associated with the funding. If a project sponsor submits multiple drinking water project loan applications that are eligible for Superstorm Sandy DW loans and exceed the $15 million Superstorm Sandy DW loan cap, the project sponsor has the option to select which projects to finance through the Superstorm Sandy DW loan program and which projects it will seek funding pursuant to a NJEIFP DW Base financing loan. Based on Sandy DW loan applications received, it appears the availability of Sandy DW loans will be limited in SFY2019.

Consistent with the SFY2018 Intended Use Plan, the DEP is reserving 4% of the Sandy capitalization grants for program administration expenses and reserving an amount equal to the 20% State Match to ensure that the source funding for the State Match is used in a manner compatible with its origination.

PRIORITY SYSTEM

A single priority system is utilized for both the CW-Base SFY2019 and CW-Sandy Financing Programs. However, two separate priority systems are utilized for each the DW-Base SFY2019 and DW-Sandy Financing Programs. The CW Plan and DW Plans each include a priority system that identifies the project activities that are eligible to be financed in each year's Financing Program. *Eligible project activities are summarized below.*

The CW Plan and DW Plans priority systems set forth the methodology utilized to rank projects. The principal elements of the CW proposed priority system are local environmental enhancement planning activities, project discharge category, water use/water quality, smart growth approvals and population. The highest-ranking systems are those that address discharges of raw, diluted or inadequately treated sewage to the State's waters during wet weather.

The DW proposed priority system describes the ranking methodology for eligible drinking water projects. Project ranking within the DW SFY2019 Base NJEIFP priority system is based on criteria pertaining to compliance, public health, approved water supply plan/studies, state designations, affordability, and population. Project ranking within the DW Sandy NJEIFP priority system is based on criteria pertaining to projects relating to Superstorm Sandy resiliency affordability, and population. The current priority system ranking methodology used for ranking CW and DW projects is *set forth below.*

PROJECT PRIORITY LISTS

Upon receipt of a project sponsor's project information page through H2LOans, the Department makes a determination of project eligibility, ranks the project pursuant to the CWA or SDWA priority system, and places the project in ranked order on a Project Priority List. Identification of a project on a Project Priority List is a prerequisite to NJEIFP loan eligibility. [2]

A Project is then eligible for a short-term loan upon the publication of the Project Priority List with the legislature, the applicant's satisfaction of program application requirements and DEP's approval of a project contract (initially for engineering planning and design and later construction). Upon completion of a percentage of construction (as determined by the program, eventually increasing to 100%), a Project on a Project Priority List will be designated eligible for long-term funding and placed, with other like projects, onto a sub-list referred to as the "Project Eligibility List." Upon enactment of the appropriations law identifying such project for long-term financing, and subsequent long-term loan closing, a project is removed from the Project Priority List. The projects eligible to participate in the SFY2019 Financing Program and their relative rank are set forth in the SFY2019 Project Priority List.

[2] A Project Priority List is an inaccurate indicator of projects to be funded in a given Fiscal Year. Projects are included with little effort by the project sponsor (submission of project information). Moreover, project cost information is generally inaccurate due to its calculation prior to project design and frequent revisions during the application process to reflect changes in scope and other circumstances. Finally, applicants routinely defer or withdraw projects from funding for myriad business reasons.

The combined CW and DW projects on the Project Priority List for the SFY2019 Base NJEIFP and Sandy NJEIFP include a pool of four hundred and eight (408) Clean Water and Drinking Water projects at a total estimated cost of $3.72 billion. The SFY2019 Clean Water Interim Financing Program Project Priority List set forth in *Appendix A* includes environmental infrastructure projects eligible for financing pursuant to the Clean Water SFY19 NJEIFP and Superstorm Sandy financing programs, and consists of two hundred and forty-four (244) Clean Water projects at a total estimated cost of $2,716,346,815. The SFY2019 Drinking Water Interim Financing Program Project Priority List *set forth in Appendix B* includes projects eligible for financing pursuant to the SFY2019 Drinking Water NJEIFP and Superstorm Sandy financing programs, and consists of one hundred and sixty-four (164) Drinking Water projects at a total estimated cost of $1,011,998,586.

Also, included in this Report is the third amended SFY2018 Clean Water Interim Financing Program Project Priority List, and the third amended SFY2018 Drinking Water Interim Financing Program Project Priority List pursuant to N.J.S.A. 58:11B-9(d) which are set forth in Appendices A and B respectively. The first amended SFY2018 Project Priority List was submitted to the legislature on July 6, 2017 and the second amended SFY2018 Project Priority List was submitted October 5, 2017.

ELIGIBLE PROJECT ACTIVITIES

CLEAN WATER

Base SFY2019 NJEIFP Loans are available for all traditional project activities fundable under the NJEIFP as set forth below, such as improvements to wastewater and stormwater systems. Pursuant to USEPA requirements, Sandy NJEIFP loans are limited to a subset of the traditional project activities that improve the resiliency of a system adversely impacted during Superstorm Sandy. SFY2019 and Sandy NJEIFP Loans are also subject to the availability of funds.

CLEAN WATER BASE SFY2019 NJEIFP PROJECTS

i. Wastewater:

Most projects associated with sewage collection, treatment, or disposal are eligible for financing, including correction of inflow/infiltration problems, sludge management and combined sewer overflows. Eligible projects include:

- Secondary and advanced wastewater treatment
- Well sealing
- Flood resiliency
- Sludge handling facilities
- Infiltration and inflow (I/I) correction
- Interceptors, pumping stations and force mains
- Sewer system rehabilitation
- New collection systems

- Correction of Combined Sewer Overflows (CSOs)
- Solutions for malfunctioning septic systems
- Wastewater reuse and conservation projects
- Emergency Repair Projects to replace, in kind, the failure of an essential portion of a wastewater system that will disrupt service for a minimum of 24 hours total and/or poses a substantial threat to the public health, safety and welfare.

ii. Stormwater:

Eligible projects include construction, expansion or replacement of stormwater management systems, including the following:

- Non-point Source Pollution/Stormwater management
- Construction of regional basins
- Major stormwater system rehabilitation
- Replacement of existing storm drains
- Rehabilitation of tide gates
- Extension of outfall points
- Runoff control (manure/feedlots and stream bank stabilization/ restoration)
- Stream/lake embankment restoration
- Salt dome construction

iii. Equipment:

Equipment that provides a water quality benefit can be financed under the NJEIFP including, but not limited to:

- street sweepers
- generators
- sewer flushing and cleaning equipment
- dump trucks
- crawler loaders
- skimmer boats
- aquatic weed harvesters
- outfall netting

iv. Security Monitoring:

Projects designed to improve security at otherwise funding eligible wastewater and drinking water facilities are eligible for funding, including but not limited to fencing, lighting, motion detectors, cameras, secure doors, and alternative auxiliary power sources.

v. Green:

Green projects are those clean water and drinking water projects that incorporate green infrastructure and water or energy efficiency improvements (those that reduce greenhouse gas emissions, for example). Green infrastructure includes such practices as replacing existing pavement with porous pavement, utilizing bioretention, renewable energy, constructing green roofs, creating rain gardens, and other practices that mimic natural hydrology and increase effective perviousness.

vi. Brownfields:

The cleanup of abandoned and contaminated industrial sites is eligible for financing provided a local or county government assumes the repayment obligation for the loan. The NJEIFP will finance the removal of contaminated soil, site-capping and the installation of stormwater controls.

Returning Brownfield sites to productive use protects the environment and preserves open space. Every acre of Brownfield redevelopment spares 4.5 acres of pristine land from development. Brownfield redevelopment also boosts local tax revenue, creates jobs, revitalizes New Jersey's cities and towns, and improves the quality of life for area residents.

The NJEIFP provides loans to municipalities, counties and public authorities to support a wide range of cleanup and remediation activities necessary to restore the Brownfield site for re-use.

vii. Landfills:

Landfill construction activities having a water quality benefit are eligible for NJEIFP financing. Examples include:

- New Landfills (Water quality/protection aspects)
- Capping systems
- Liners
- Leachate collection systems
- Treatment systems
- Sewer connections
- Barge shelters
- Containment booms
- Litter fences
- Gas collection and treatment systems
- Monitoring wells
- Reclamation or reduction activities

viii. Land Preservation:

NJEIFP provides financing for the preservation of open space and farmland given the water quality benefit achieved through such acquisitions. The Program funds preservation with regard to properties protecting stream headwaters and corridors, wetlands, and aquifer recharge areas. Financing for land is compatible with the Green Acres Program, the Garden State Preservation Trust, and Open Space programs financed by local and county Open Space taxes.

While lands purchased through the NJEIFP for preservation as part of Open Space cannot be developed, they may be used for passive recreational activities, such as hiking, fishing and horseback riding. Placement of conservation easements on funded parcels is a requirement which assures that the water quality benefits are preserved in perpetuity. Farmland preservation and best management practices are also eligible.

The NJEIFP will coordinate with the Green Acres Program, when appropriate, to maximize a community's limited open space funds for land acquisition. Through this partnership, municipalities can receive the additional resources to facilitate the purchase of larger and/or more expensive parcels.

ix. Allowable Ancillary Costs:

Additional costs that are eligible within a project include:

- Road repaving
- Utility relocation
- Site grading
- Purchasing land for stormwater use

x. Highlighted Planning and Design Costs:

Projects to develop and implement asset management plans, CSO long-term control plans, and water loss prevention plans are eligible for financing and possible principal forgiveness. The loans must be rolled into an NJEIFP capital improvement project or repaid within three years. CSO long-term control plans can receive loans for up to ten (10) years.

xi. Continued Typical Planning and Design:

Costs incurred in the planning and design phase of a water infrastructure project such as engineering fees, surveys, environmental or geological studies and other costs related to project plan preparation are eligible for funding under the Short-Term Loan program. The loans must be rolled into an NJEIFP capital improvement project or repaid within three years.

CLEAN WATER SANDY SFY2019 NJEIFP PROJECTS

Although NJEIFP staff is working to award all of the Sandy CWSRF funds in the SFY18 Program, there is the possibility that not all Sandy Funds will be committed in the current fiscal year. Given this possibility, the Program will continue to accept application submittals under the Sandy CWSRF Program for SFY2019, which includes a principal forgiveness component of approximately 19% of the allowable costs.

Clean Water Projects may qualify for Sandy NJEIFP funding if they fall within one of the following categories:

- Projects that prevent interruption of collection system operation in the event of a flood or natural disaster;
- Projects that prevent floodwaters from entering a treatment works;
- Projects that maintain the operation of a treatment works and the integrity of the treatment train in the event of a flood or natural disaster;
- Projects that preserve and protect treatment works equipment in the event of a flood or natural disaster; and
- Planning projects that assess a treatment works' vulnerability to flood damage or that analyze the best approach to integrate system and community sustainability/resiliency priorities in the face of a variety of uncertain futures including natural disasters and more frequent and intense extreme weather events, provided the planning work is reasonably expected to result in a capital project.

DRINKING WATER

DRINKING WATER BASE SFY2019 NJEIFP PROJECTS

Public community water systems (as defined by the National Primary Drinking Water Regulations), both privately and publicly owned, and nonprofit non-community water systems are eligible for NJEIFP Loans. Eligibility is limited to these types of water systems that are required to comply with the New Jersey State primary drinking water regulations. Facilities that are defined as water systems but are exempt from regulation under the SDWA are not eligible. The main objective of DWSRF funding is to protect the public health in conformance with the objectives of the SDWA. Federally owned systems and State owned systems (State agencies, such as state police, parks and forestry, and corrections) are not eligible to receive NJEIFP Loans. However, State authorized systems (water commissions, water supply authorities, and water districts) are eligible to receive NJEIFP Loans.

NJEIFP drinking water projects may qualify for funding based on the following criteria:

i. Compliance and Public Health:
   - General Guidelines

     NJEIFP Drinking Water Loans are only available for projects (not including monitoring, operation, and maintenance expenditures) that will facilitate compliance with National

Primary Drinking Water Regulations and applicable USEPA guidance, so that water systems may further achieve the health protection objectives of the SDWA. These include projects to maintain compliance with existing regulations for contaminants with acute health effects (e.g., the Surface Water Treatment Rule, the Total Coliform Rule, Ground Water Rule and nitrate standard) and existing regulations for contaminants with chronic health effects (e.g., Lead and Copper Rule, regulated inorganics, volatile organics and synthetic organics, disinfection by-products, and radiological contaminants). In addition, projects that address the exceedance of a recommended upper limit for a secondary contaminant are DWSRF eligible. Certain types of projects that address water supply issues related to public health protection are also eligible.

- Projects to Replace Aging Infrastructure

  Replacement projects are also eligible if they are needed to maintain compliance or further the public health protection goals of the SDWA. Examples of these include projects to:

  - Rehabilitate or develop sources (excluding reservoirs, dams, dam rehabilitation, and water rights) to replace contaminated sources;
  - Install or upgrade treatment facilities, if the project would improve the quality of drinking water to comply with primary or secondary drinking water standards;
  - Install or upgrade storage facilities, including finished water reservoirs, to meet minimum system storage requirements or prevent the introduction of microbiological contaminants to the water system;
  - Install or replace transmission and distribution pipes to prevent contamination caused by leaks or breaks in the pipe, or improve water pressure to safe levels; and
  - Install and enhance security at drinking water systems, including fencing, lighting, motion detectors, cameras, and alternative auxiliary power sources.

- Projects to Consolidate Water Supplies

  Consolidation projects are eligible for NJEIFP Loans, as follows: 1) extension of water mains by a community water supply system to individual homes with contaminated wells; or 2) purchase or consolidation (i.e., restructure) of a water system that is unable to maintain compliance for technical, financial, or managerial reasons only if the financial assistance will ensure that the system returns to and maintains compliance with SDWA requirements and the owner or operator of the water system agrees to undertake feasible and appropriate changes in operations necessary to ensure the system has the technical, managerial, and financial capability to maintain long-term viability and compliance with SDWA requirements.

ii. Multi-Year Projects / New Wells:

The construction of a new well presents challenges due to the extended length of time required to satisfy all permit requirements and obtain permit approvals. In order to provide a greater

number of financing options and to get funds to water systems earlier in the well construction process, the NJEIFP offers more than one loan for new well projects.

A Short-Term loan is available for the **installation** of a well. Under this process, a project sponsor will apply for a loan to drill a well (new or replacement). The project sponsor would be eligible for loan award after DWSRF programmatic requirements are met and a Bureau of Water System Engineering (BWSE) permit to construct is issued and appropriate well permitting conditions are met. In the case of a test well, a well drilling permit is required only. In this scenario, the well could be constructed but not operated until a final permit is issued. If in the event of unforeseen conditions in which the well could not be utilized or re-designated from a test well to a production well, the project sponsor would be eligible for an additional Short-Term loan to construct a second well. However, the project sponsor will be required to submit documentation describing the failure of the first well and adequate technical analysis supporting the construction of the second well. The project sponsor would remain liable for both loans for both wells. The intent of this program is to ensure that the project sponsor has a usable well that will perform as intended over the life of the loan(s) and to provide the project sponsor with viable financing alternatives.

After a major modification for the Water Allocation diversion permit is issued, if applicable, the project sponsor could apply for an additional Short-Term loan to construct the necessary **appurtenances**, such as a well house, pump, associated treatment, etc. If the project sponsor does not pursue an additional loan for the construction of well appurtenances, the project sponsor must still commit to finalizing the project such that the result is a fully functioning, permitted production well.

An overview that details the process and duration of the new well funding process, such as the steps to obtain the Bureau of Water System Engineering and Bureau of Water Allocation and Well Permitting permits, obtain loan approvals, and submit all required DWSRF loan documents is summarized in a timetable, a copy of which is available by contacting the DWSRF staff at (609) 292-5550.

iii. Green Project Reserve (GPR):

GPR Projects are defined by USEPA as projects that address green infrastructure, water or energy efficiency improvements, or other environmentally innovative activities. Projects meeting this definition will follow the same process as all other NJEIFP drinking water projects. Certain projects, associated with the drinking water system improvements, are considered by USEPA as categorically eligible projects; such as solar power, wind turbines, geothermal or hydroelectric power, green roofs, bio-retention, porous pavements, grey water use, US Building Code LEED certified facilities, installing water efficient devices, new meter for an unmetered area, replacing existing meters with an automated meter reading system and pressure reducing valves. Certain projects may be eligible but need extra justification under a business case review; such as cleaning and lining of water mains, replacing water meters with traditional meters, replacement of water

mains or storage tanks to reduce water losses, energy efficient upgrades to pump stations or treatment plants and installation of SCADA systems.

Further clarification on GPR is available at: www.epa.gov/reg3wapd /infrastructure/gpr.htm.

iv. Small System Loan Projects:

The Small Systems loan program is designed to facilitate small system access to DWSRF financing. Qualified Borrowers are existing publicly-owned and privately-owned community water systems and non-profit, non-community water systems serving populations of 10,000 persons or less. At the loan cap amount of $1 million, 50% ($500,000) is available from the DEP as principal forgiveness; 25% of the total project costs (up to $250,000) is funded by the DEP at 0% interest and 25% of the total project cost is funded by the Trust at the Trust's AAA-rated market rate. This program prioritizes small systems in three tiers as follows: 1) those systems serving a population of 500 persons or less, 2) those systems serving a population of 501 to 3,300 persons and 3) those systems serving a population of 3,301 to 10,000 persons.

DRINKING WATER SANDY SFY2019 NJEIFP PROJECTS

Superstorm Sandy NJEIFP Loans are only available to facilities that were adversely impacted by the storm, including physical damage, loss of power, loss/interruption of mission essential services, etc. for projects that:

- Reduce the likelihood of physical damage to a treatment works or drinking water system;
- Reduce a treatment works' or water system's susceptibility to physical damage or ancillary impacts caused by floods;
- Facilitate preparation for, adaptation to, or recovery from a sudden, unplanned change in the amount of and movement of water in proximity to a treatment works or water system; or,
- Facilitate preparation for, adaptation to, or recovery from climate change or any other type of natural disaster.

In addition, Executive Order 11988 (President Ford) on floodplain management requires that federal agencies use the best available flood data to determine the location of projects and activities. Project sponsors will be required to use the best available flood hazard data identified by the Federal Emergency Management Agency (FEMA), where applicable, to guide decision-making.

PROJECT RANKING METHODOLOGY

CLEAN WATER RANKING CRITERIA (BASE SFY2019 NJEIFP AND SANDY NJEIFP)

The Department ranks all projects on the basis of the total number of ranking points each project receives and places the projects on the Priority List according to their ranking. The ranking system gives highest priority to projects that address discharges of raw, diluted, or inadequately treated sewage to the State's waters during wet weather, including projects to abate combined sewer overflows (CSOs) and projects to

address sanitary sewer systems that overflow. CSO abatement projects are expensive and are usually located in financially distressed urban areas, making cost a serious concern. Discharges from combined sewer systems and sanitary sewer overflows impair water uses, and can lead to the closing of beaches and shellfish beds. Lower-ranked projects can also qualify for financing since projects are certified/approved based on the project's rank, the amount of available funds, and compliance with the Program's requirements and deadlines for planning, design and application submittal.

The Department encourages project sponsors that do not have an existing Asset Management Plan to develop and implement one. Asset management requires actively managing infrastructure capital assets to minimize the total cost of owning and operating them, while delivering the service levels customer's desire. Each utility is responsible for making sure that its system stays in good working order-regardless of the age of components or the availability of additional funds. Asset management programs with long-range planning, life-cycle costing, proactive operations and maintenance, and capital replacement plans based on cost-benefit analyses can be the most efficient method of meeting this challenge.

The Department's Priorities List provide a strategic foundation for structural changes and include objectives to implement projects that will help to protect, maintain and improve water quality in and around the Barnegat Bay while determining the best long-term approach for restoring the ecological health of Barnegat Bay. To support these efforts to improve the water quality of the Bay, the project ranking methodology for the SFY2019 Financing Program provides an additional 300 priority points to nonpoint source and stormwater runoff control projects that are intended to benefit the Barnegat Bay. The additional 300 points will also be assigned to wastewater reuse projects that are intended to offset the loss of freshwater flows caused by the regionalization of sewage treatment plants and the use of ocean outfalls.

In addition to Barnegat Bay projects, projects receive points under five categories. These are (**i**) Sustainable Community Planning Activities, (**ii**) Project Discharge Category, (**iii**) Water Use/Water Quality, (**iv**) Smart Growth Approvals, and (**v**) Population.

i. Sustainable Community Planning Activities:

The purpose of the provisions in this section is to encourage and facilitate implementation of environmentally sustainable practices at the local government level. Prudent environmental planning that incorporates sustainability measures is necessary to achieve cost-effective and environmentally sound water quality improvement within the watershed. Additional priority points will be awarded to projects located in or benefiting municipalities that have implemented programs and actions that go beyond compliance with existing regulatory requirements and incorporate the following environmental enhancement planning strategies.

Sustainable Community Planning: Sustainable communities develop and adopt master plans and ordinances that improve the overall quality of life for citizens of today as well as generations of tomorrow by planning within natural resource capacity constraints and providing for a healthy economy, environment and society. Projects located in or benefiting municipalities where sustainable community strategies have been developed and master plans and/or ordinances

adopted will be awarded an additional 100 priority points. These strategies/ordinances must include but are not limited to the following:

- A plan to reduce water consumption and increase water efficiency and re-use.
- Policies that require consideration of green design in municipal construction projects and redevelopment projects, such as green roofs, green streets, tree filters, rain gardens, rain barrels, porous pavements, etc.

The SFY2019 Priority System reflects the Department's priorities to encourage sustainable growth in communities by incorporating consistent criteria for the protection of natural resources and implementation of smart growth and green design principles.

Green design principles include green building practices that increase energy and water efficiency; use renewable energy; use environmentally friendly building materials that are made with recycled materials, are durable, sustainability harvested or produced locally; improve indoor air quality; and makes appropriate site selection and minimizes site disturbance to reduce environmental impacts.

ii. Project Discharge Category Points:

Table IA. Ranking Points Related to Project Discharge Category for Wastewater Treatment Facilities		
Project Discharge Category	**Description**	**Points**
Combined Sewer Overflow (CSO) & Sanitary Sewer Overflow (SSO)	This category includes projects that involve combined sewer system (CSS) rehabilitation/repair, the construction of treatment and/or storage facilities within CSS, at discharge locations or at STPs that reduce or eliminate CSOs, or the separation of combined sewer systems by the consolidation and elimination or sealing of CSO discharge points. Also included are projects that implement corrective measures to fix overloaded conveyance systems that experience chronic overflows.	600
Sewage Treatment Plant (STP) Improvements	STP improvements include upgrades or other improvements to a treatment process or the elimination of an existing STP and the connection to an alternative treatment facility to meet applicable treatment levels. This category also includes the purchase and installation of security and energy efficiency measures at the STP.	500
Sanitary Sewer System Rehabilitation	This category includes a wide variety of corrective measures to sanitary sewer collection and conveyance systems that do not experience chronic overflows, such as the rehabilitation, repair, or replacement of sanitary sewers, pump stations, interceptors, or the purchase of equipment to properly maintain the sanitary sewer system.	450
Sludge Treatment/Disposal Facilities	Included in this category are projects involving the construction of facilities to manage sludge from STPs or from potable water treatment activities, such as the installation of dewatering equipment, or the implementation of land application or composting activities. Also, included in this category of projects are improvements or repairs to sludge incinerators.	350

Wastewater Reuse	Wastewater reuse includes the construction of facilities that promote the reclamation of water for beneficial reuse such as the use of treated effluent for agricultural or other purposes. This category includes the construction of conveyance and distribution systems to allow for reuse activities.	300
Septic System Repair/Replacement	Under this category are projects that involve repairs, improvements, and/or replacement of individual or small community, on-site septic systems.	275
New Systems	This category includes projects that involve the expansion of a STPs' treatment capacity, and the construction of new facilities to provide collection, conveyance or treatment of sanitary sewage.	250

All projects receive ranking points based on the project discharge category. In case of multiple purpose proposals, projects qualify for the discharge category that represents the major scope of the project. If a project has aspects that can be described by more than one category, the project may be broken into separate projects. Tables IA and IB show the project discharge categories and their corresponding ranking points.

In addition to the point assignments above, projects that implement green infrastructure, water or energy efficiency improvements (including projects that are designed to reduce greenhouse gas emissions) will receive an additional 50 priority points. Green infrastructure includes such practices as replacing existing pavement with porous pavement, bio-retention, green roofs, blue roofs and other practices that mimic natural hydrology and reduce effective imperviousness. Water and energy efficiency activities that can qualify for the additional points include the installation of digester or landfill gas recovery/reuse systems, photovoltaic cells, wind turbines, wastewater reuse, etc. Projects that are a mix of traditional and green technologies are only assigned the points if the green components represent a significant amount of the overall project activities.

Table IB. Ranking Points Related to Project Categories for Stormwater and Nonpoint Source Pollution Management Facilities

Project Category	Description	Points
Stormwater Management and Other NPS activities	This category includes the construction or rehabilitation of stormwater basins, sewer systems or storm drains, the extension of outfall pipes, green roofs, green streets, tree filters, rain gardens, rain barrels, porous pavement or the purchase of maintenance equipment (such as street sweepers, aquatic weed harvesters and skimmer boats). Also, included in this category are projects that stabilize streambanks, restore lakes or address runoff from salt storage facilities and the implementation of measures to address pollution concerns from agricultural cropland activities and manure runoff management and feedlot operations.	225
Landfill Closure, Open Space Land Acquisition and Conservation and Well Sealing	Included in this category is the implementation of measures to prevent and control pollutants from entering groundwater at non-operating landfill sites that are publicly owned and at abandoned well locations. The category also includes open space land acquisition and conservation projects that help to protect or maintain water quality.	150

Landfill Construction and Remedial Action Activities	This category includes the construction of facilities to collect, convey and/or treat leachate and runoff from new publicly-owned landfill cells or from publicly-owned contaminated sites.	75
Projects sponsored by Conduit Borrowers/ Private Activity	This category generally includes environmental infrastructure projects where a developer, LLC, partnership or other private party is involved in the project. Also, included in this category are landfill closure measures and remedial action activities where the project site is privately owned. If a local government unit that sponsors a project on behalf of a private entity commits to providing a general obligation pledge (including its unlimited taxing power or municipal guarantee) as security for the DEP and Trust loans, the project is considered exempt from the conduit financing classification and corresponding funding limitations.	50

iii. Water Use/Water Quality Points:

Points are awarded based on the designated water uses of the receiving water as well as the existing water quality conditions in comparison to the ambient water quality standards. The assignment of points for "public nuisance" is given to on-site system projects where failures have been identified. Table II below shows the breakdown of the ranking points for water use; in general, the highest values are given for projects that discharge to water bodies with potable, recreational, and fishing uses.

Table II. Ranking Points Related to Water Use (Existing and Potential)

Water Use		Basis/Description	Points
Public Potable Water Supply		Wastewater treatment plant discharges likely to have adverse impacts on an existing downstream potable surface water supply intake. Projects are evaluated based on relative distance between STP discharge and public potable water intake locations.	200
Recreation ("Primary Contact")		Waters with bathing areas monitored routinely as public beaches as well as the Delaware River upstream of Trenton (north of East Bridge Street at the Lower Trenton Bridge).	125
Fishing	Shellfish	State water bodies that are designated as shellfish growing waters by *N.J.A.C.* 7:12.	125
	Trout	State freshwater bodies designated for trout production or maintenance by the NJ Water Quality Standards (*N.J.A.C.* 7:9B).	75
	Non-trout	State freshwater classifications not designated trout production or maintenance by *N.J.A.C.* 7:9B (see Trout description above), including all Delaware River freshwater zones above mile-point 85 as defined by the Delaware River Basin Commission.	25
Public Nuisance		Indirect water use impacts; applies to areas with identified on-site wastewater treatment system failures.	50
Agriculture		Surface water for agricultural use, such as irrigation and farm ponds, based on Department diversion permit (permits required for >70 gal/min diversion).	25
Industry		Surface water known to be used for industrial use such as cooling.	25

Table III shows the points for not meeting or marginally meeting certain water quality parameters. The points reflect the impact the parameters have on meeting the State's goal to protect and

enhance surface water resources, quality criteria, and designated water uses. The magnitude of the contribution that municipal sewerage facilities have on each of the conditions is reflected in the points awarded under these categories. Dissolved oxygen and fecal coliform have the highest points because of their immediate and direct impact on the fishable/swimmable water use, coupled with the fact that inadequate municipal treatment facilities can be a major cause of contravening water quality standards.

Nutrients reflect the presence of phosphorus/phosphates and nitrates/nitrites in a water body. Excessive nutrient levels in freshwater streams and lakes may result in impacts on water uses, including algal blooms; depleted oxygen levels; odor, taste and increased treatment costs for purveyors; impacts on aquatic populations, and esthetic concerns. Points are given for nutrients only if the surface waters involved significantly impact existing potable water reservoirs, surface water impoundments or lakes, public bathing areas, or shellfish growing waters. Since there are no nutrient standards for coastal and estuarine waters, no points were assigned for discharges to those water bodies.

Points for toxics address the relative magnitude of ammonia, metals, pesticides, and organic chemicals in the water body. Toxics were also given lower points since in most cases the significant contributions of toxic substances come from industrial sources that are better controlled through pretreatment and are only incidentally abated by municipal treatment facilities. In the case of the toxicity of ammonia, municipal facilities are usually the main source, but the most significant impact is associated with streams designated for trout production/maintenance, which already receive a high number of points under the water use category.

Table III. Ranking Points Related to Water Quality

Water Quality		Points for Water Quality that		
		Meet	**Marginally Meet**	**Do Not Meet**
		The Water Quality Standard*		
Parameter	Dissolved Oxygen	0	50	100
	Fecal Coliform	0	50	100
Parameter	Nutrients	0	25	50
Category	Toxics	0	25	50

*The Surface Water Quality Standard for the applicable parameter or category.

iv. Smart Growth Approvals:

The Department seeks to coordinate and enhance the efforts to encourage smart growth through the implementation of the State Development and Redevelopment Plan. The Department assigns ranking points to projects that serve municipalities that have been approved under the Center Designation or Plan Endorsement Process.

For a project serving more than one municipality, the points were included for ranking purposes if the designated center or the endorsed plan is a significant component of the overall project.

For further information regarding the State Development and Redevelopment Plan, contact the Office of Planning Advocacy in the NJ Department of State at (609) 292-7156.

Table IV. Ranking Points Related to State Planning Commission Approvals	
Community Type	**Points**
Urban Centers and Complexes	50
Regional Centers	25
Existing Designated Towns	15
Existing Villages	10
Hamlets	5

In addition, projects located in or benefiting areas designated as Brownfield Development Areas, TDR receiving areas or Transit Villages also receive 10 points, so that these projects will rank higher than similar projects that are not located in, or provide benefit to, these smart growth areas.

v. Population Points:

Projects are also assigned points based on the population of the area served by the project. One point is given for every million-people living in the project area on a year-round basis. Thus, if projects have the same number of ranking points after having received all eligible points, population points become the tiebreaker, with higher priority given to the project serving the higher population.

- Priority Growth Investment Areas:

  Core criteria for a Priority Growth Investment Area includes being within one or more of the areas identified in **Table I** and within the regional planning entity areas described below.

Table I

Growth Areas:

- Former State Plan Policy Map Metropolitan Planning Areas (PA 1) and Nodes
- Unexpired Commission Approved Centers, Urban Complexes and other areas designated for development or redevelopment as the result of the Commission formally endorsing municipal or county plans
- Municipally Designated Transfer of Development Rights "Receiving Areas"
- Municipally Designated "Urban Enterprise Zones"
- Municipally Designated "Areas in Need of Redevelopment" or "Areas in Need of Rehabilitation"
- Approved "Foreign Trade Zones"
- Land within Higher Education Campuses suitable for development / redevelopment
- NJDOT Certified Transit Villages
- "Urban Transit Hubs" as defined by EDA's Urban Transit Hub Tax Credit Program

- Land owned by the New Jersey Sports and Exposition Authority
- Commission approved requests for additions areas, for example, sites that have been historically utilized for large-scale commercial, research or industrial uses, that meet Commission requirements may be submitted for inclusion by a county with the support of relevant municipalities and if relevant, the advice and consent of a regional planning entity. If a county declines to serve this role, requests will be accepted by a municipality or other appropriate entity.

Regional Planning Entities:
As the Act requires, this Plan must treat land within the jurisdiction of a regional planning entity based on the adopted plans and regulations of that entity. As such, the following areas are recognized as Priority Growth Investment Areas:

- *New Jersey Sports and Exposition Authority (formerly Meadowlands Commission):*
  Lands identified for development and/or redevelopment within the "Land Use Map and Map of the Meadowlands District Master Plan" and the "Hackensack Meadowlands District Official Zoning Map" as amended and supplemented

- *Pinelands Commission:*
  Lands identified by the Comprehensive Management Plan (CMP) as amended and supplemented as a "Regional Growth Area," a "Town" and developed sections of a "Military and Federal Installation Area"

- *Highlands Council:*
  Planning Area / Areas Not Conformed - Default to **Table I**; and
  Planning Area / Areas in Conformance – Highlands Council Designated Centers and Redevelopment Areas

- *Fort Monmouth Economic Revitalization Planning Authority or its successor:*
  Lands identified for development and/or redevelopment within the "Fort Monmouth Reuse and Redevelopment Plan" as amended and supplemented

Qualifying emergency conditions would be limited to those where failure has occurred or where failure is imminent and unless corrected, will result in substantial pollution of the environment (such as collapse of a wastewater line) and/or substantial curtailment of the functions of the infrastructure.

See the Emergency Loan Program Guidance Document in Appendix D for further information on eligibility and application requirements for emergency repair projects.

CLEAN WATER ORDER OF PRIORITY

The SFY2019 CW program continues the project prioritization methodology first utilized in SFY2015. CW projects are prioritized for funding based on the following criteria. Funds available at the time of project approval (authorization to award a final construction contract), will be allocated to the approved project.

a. Emergency Projects

The Department recognizes that environmental infrastructure emergencies may occur that endanger public health and welfare and can result in substantial environmental damage. Such circumstances require an immediate response for which a complete technical and environmental review in advance of construction to address the emergency situation is not necessary or feasible. The Department has developed a process to respond expeditiously when emergencies occur, obtain basic project information, make an eligibility determination and issue a pre-award approval so that owners/operators can expeditiously undertake the needed repairs and maintain eligibility for those expenditures through the NJEIFP.

Emergency projects are considered a public health hazard and will receive funding priority over other new projects on the Project Priority List both for interim as well as long-term financing.

b. Supplemental Loans

Projects which have received loans to date which require additional funds due to the award of all project related contracts or for increased costs due to differing site conditions. Priority between projects that are eligible to receive Supplemental Loans and that received their original loans in the same funding cycle will be determined according to each project's ranking on the respective funding year's priority list.

c. Current Year Project Submissions

DRINKING WATER RANKING CRITERIA (BASE SFY2019 NJEIFP AND SANDY NJEIFP)

DEP assigns points to each project using the Project Priority System and ranks all eligible projects according to the total number of points each project receives. All projects are subsequently placed on the Project Priority Comprehensive List (see *Appendix B*) according to their ranking. Projects with more points are ranked above those with fewer points. The addition of new projects to the Project Priority Comprehensive List, periodic revisions to the Priority System, or the identification of new information regarding a project, may result in annual changes to an individual project ranking.

Projects receive points under five principal elements of the Priority System: (**i**) Compliance and Public Health Criteria, (**ii**) Water Supply Plans/Studies, (**iii**) State Designations, (**iv**) Affordability, and (**v**)

Population. Points are assigned for each of the five priority categories and are discussed in more detail below.

Projects that include multiple elements, as listed in priority Category (**i**), are separately listed by the elements involved and priority points assigned for each element.

Table I of Category (**i**) lists the types of projects eligible for DWSRF funding. A project must be assigned points from Category (**i**) to be eligible for ranking; points assigned from the remaining categories are in addition to the points received in Category (**i**). Priority points are assigned only if the project scope includes actual repair, rehabilitation, or correction of a problem or improvement clearly related to priority Category (**i**). Projects that include multiple elements, as listed in priority Category (**i**), are separately listed by the elements involved and priority points assigned for each element.

The order of project priority for funding is as follows:

1. Emergency Projects are considered a public health hazard and receive funding over other projects on the Comprehensive Priority List
2. Small Systems serving less than 10,000 persons, up to 15 percent of DWSRF Funds
3. Lead service line replacement projects: and
4. Other projects currently on the comprehensive list

The Department is proposing to establish a rolling application process and will update and post the Priority List several times during the fiscal year.

The prospective applicant must notify DEP of any changes to project scope or any other circumstance that may affect the calculation of priority points. DEP recalculates, if appropriate, the prospective applicant's ranking utilizing the new information submitted and revises the priority ranking accordingly.

Points are assigned for each of the five priority categories discussed below, as applicable:

i. Compliance with the SDWA and Protection of Public Health:

DWSRF funds are utilized to address contamination problems and to ensure compliance with the SDWA requirements. Priority is given to water systems in non-compliance with the surface water treatment requirements and those incurring acute primary maximum contaminant level (MCL) violations, or action level exceedances as defined in the National Primary Drinking Water Regulations and the New Jersey Safe Drinking Water Regulations (N.J.A.C. 7:10). Table 1 describes the project elements that are eligible for DWSRF funds:

Table I. Project Elements Eligible for Project Priority Ranking in the Drinking Water State Revolving Fund Program [3]		
Priority Order	**Project Description**	**Points**
1.	Systems that utilize surface water, that are not in compliance with the surface water treatment requirements or have had any acute violations (either fecal coliform or nitrates) and have been issued an administrative order or directive by DEP requiring the correction of any noncompliance of its treatment facilities to address an immediate public health threat.	500
2.	Systems which utilize groundwater under the direct influence of surface water, that are not in compliance with the surface water treatment requirements or have had any acute violations (either fecal coliform or nitrates) and have been issued an administrative order or directive by DEP requiring the correction of any noncompliance of its treatment facilities to address an immediate public health threat.	350
3.	Systems that utilize groundwater that have had any acute violation (either fecal coliform or nitrates).	300
4.	Systems that have had, or DEP reasonably expects to have, any maximum contaminant level violations (except acute violations) or exceedance of action levels (lead and copper rule).	250
5.	Systems that were classified as vulnerable, as a result of a 2007 DEP Interconnection Study	200
6.	Systems that have been issued a notice of noncompliance by DEP for reasons other than water quality; i.e. inadequate storage, inadequate source, lack of emergency power, etc.	175
7.	Purchase and/or consolidation of a water system to comply with the SDWA for capacity development.	170
8.	Systems that are proposing improvements for drought or other related water supply management initiatives, as identified or designated by the State.	160
9.	Systems that have lost well capacity due to saltwater intrusion and a solution is needed to preserve the aquifer as a viable aquifer.	150
10.	Extension of water mains, including associated appurtenances and water system facilities, to private wells that have had any maximum contaminant level violations or exceeded lead and copper action levels.	125
11.	Existing treatment facilities that need to be rehabilitated, replaced, or repaired to ensure compliance with the SDWA.	100
12.	Existing transmission or distribution mains with appurtenances that need to be rehabilitated, replaced, repaired or looped to prevent contamination caused by leaks or breaks in the pipe or improve water pressures to maintain safe levels or to ensure compliance with the SDWA.	75
13.	Existing pump stations or finished water storage facilities that need to be rehabilitated or replaced to maintain compliance with the SDWA.	60
14.	New finished water storage facilities or pump stations that are needed to maintain pressure in the system and/or prevent contamination.	50
15.	Addition or enhancement of security measures at drinking water facilities, including but not limited to fencing, lighting, motion detectors, cameras, secure doors and locks, and auxiliary power sources.	45

[3] A project must be assigned points from Category (i) to be eligible for Project Priority List ranking; points assigned from Categories (**ii**) through (**v**) supplement the points received in Category (**i**).

16.	Green Infrastructure renewable energy generation such as solar panels, hydroelectric geothermal or wind turbines or infrastructure built at the water system facilities such as green roofs, porous pavement, bio-retention or gray water reuse	45
17.	Systems which have had any exceedance of any secondary drinking water regulations that have received notification issued by DEP that exceedance of a secondary drinking water regulation causes adverse effects on the public welfare, and for which the system has received a directive issued by the DEP requiring correction of the exceedance.	40
18.	Installation of new water meters and/or other water conservation devices, including but not limited to retrofit plumbing fixtures.	35
19.	Construction of new or rehabilitation of existing interconnections between water systems to improve water pressures to maintain safe levels, promote availability of alternative source of supply, or to ensure compliance with the SDWA.	30
20.	Replacement of water meters.	25
21.	Redevelop wells, construct new wells, or construct or rehabilitate surface water sources with associated treatment facilities to meet the New Jersey SDWA rules for required pumping capacity.	15
22.	Other project elements, not including items 1 through 21 above, that ensure compliance with the SDWA and protect public health, as approved by DEP.	1

ii. Water Supply Plans/Studies:

Planning water system improvements that advance comprehensive water supply concepts can facilitate cost effective drinking water system rehabilitation. To provide an incentive for appropriate planning, 50 points are given if the project is clearly identified in other appropriate plans (i.e. five year master plan, five year capital improvement plan, rate setting study or comprehensive water supply plan for a particular region or watershed) approved by a municipal or State agency (such as the New Jersey Department of Environmental Protection, the New Jersey Department of Community Affairs or the New Jersey Board of Public Utilities) within the last five years.

Thirty-five (35) points are given to each project that demonstrates that its water system structurally inspects its finished storage facilities every five (5) years. Also, twenty-five (25) points are given for a system that has a valve exercise program. Documentation must be provided to receive the above-mentioned points.

*** Please note that having an Asset Management plan is now a requirement for project sponsors seeking a DWSRF loan.**

iii. State Designations:

- State Plan

  DEP assigns points to projects in municipalities that the State Planning Commission has approved under the Plan Endorsement or Center Designation Process. Please note that if a local entity has not received designation by the State Planning Commission, projects within that entity would receive zero (0) points for this element.

- Projects located predominantly within or designed to provide service to a designated growth area that lies within a municipality that has received Plan Endorsement of its Master Plan from the New Jersey State Planning Commission or is an Urban Center or Urban Complex are eligible for twenty (20) points.

- Projects located predominantly within or designed to provide service to a designated growth area that lies within a municipality that are identified in the Master Plan currently recognized as endorsed by the New Jersey State Planning Commission as a designated center other than an Urban Center (Regional Center, Town, Village, Hamlet) are eligible for fifteen (15) points.

For a current list of those local governments that have gained Plan Endorsement from the New Jersey State Planning Commission, please check the Office for Planning Advocacy at the Department of State website at http://www.nj.gov/state/planning/plan.html and then refer to the current State Plan Policy Map to determine if the project area lies within a designated growth area. Contact the Office for Planning Advocacy, Department of State, P.O. Box 820, Trenton, N.J. 08625-0204 or call (609) 292-7156 for further information on the State Development and Redevelopment Plan.

- Transit Village Initiative

The NJDOT participated in a multi-agency Smart Growth partnership known as the Transit Village Initiative. The Transit Village Initiative helps to redevelop and revitalize communities around transit facilities to make them an appealing choice for people to live, work and play, thereby reducing reliance on the automobile. The Transit Village Initiative is an excellent model for Smart Growth because it encourages investment in portions of New Jersey where infrastructure and public transit already exist. Aside from Smart Growth community revitalization, two other goals of the Transit Village Initiative are to reduce traffic congestion and improve air quality by increasing transit riders. Therefore, the DEP will provide five (5) additional priority points to any project sponsored by a Transit Village community or to any project that is constructed within a Transit Village community.

For more information about Transit Villages, please see:
http://www.nj.gov/transportation/community/village/ and

For a list of Transit Villages, please see:
http://www.nj.gov/transportation/community/village/faq.shtm.

- Brownfield Development Area (BDA)

The DEP sponsors a program to promote the re-use of formerly contaminated sites. The DEP's Brownfield Program, spearheaded by the Office of Brownfield Reuse, serves as a vital component of the state's Smart Growth efforts to stem the tide of sprawl and channel new development into cities and towns. Under the innovative Brownfield Development Area (BDA)

approach, DEP works with selected communities affected by multiple brownfield sites to design and implement plans for these properties simultaneously, so remediation and reuse can occur in a coordinated fashion. The DWSRF supports this initiative by providing five (5) additional priority points to any project serving a BDA. For more information about Brownfield Development Area Initiative, please see: http://www.nj.gov/dep/srp/brownfields/bda.

- Green Project Reserve (GPR)

  DEP promotes green infrastructure, water and energy efficiency, and environmental innovation in its water improvement projects. Therefore, the DEP provides fifteen (15) additional priority points to any project that is a categorically eligible project, in accordance with Section I of the Intended Use Plan.

  Please note that the points from these four items of Category (**iii**) can be cumulative. Please note for water systems that service more than one municipality; the municipality that has the highest population served will be counted for this category.

iv. Affordability:

The purpose of the affordability criteria is to determine which project sponsors' water systems are eligible for additional points under the Affordability Category.

Affordability is the degree of need for financial assistance based upon the New Jersey median household income compared to the municipal median household income (MHI). Affordability is determined by the following formula:

(Municipal MHI / Statewide MHI) x 100 = Affordability Factor

Points are assigned as shown in Table 2.

Table II. Point Values Assigned Based on Affordability Factor Calculation	
1. Affordability factor of 100 or greater	0 Points
2. Affordability factor from 85 through 99	15 Points
3. Affordability factor from 66 through 84	30 Points
4. Affordability factor less than or equal to 65	80 Points

The median household income of the municipality which the water system serves and the statewide median household income will be determined from income data in the most recent United States census, which is currently the 2010 census.

The DEP determined that for the purposes of the DWSRF Program, a municipality whose median household income is 35% or more below the State's MHI is considered a Disadvantaged Community will receive 80 priority points which is proportionately greater than the other affordability factor points. (New Jersey's MHI is $68,444 from the 2010 Census.)

A weighted MHI is calculated for a project sponsor whose water system serves more than one municipality, as shown in the example below.

Example of Weighted Avg. MHI				
Municipalities Served	*MHI*	*Populations Served*	*Fraction of total population served*	*Weighted municipal MHI*
Lancaster	*30,000*	*5,000*	*0.167*	*5,000*
Mayberry	*20,000*	*10,000*	*0.333*	*6,660*
Holmeville	*25,000*	*15,000*	*0.500*	*12,500*
TOTAL		***30,000***	***1.00***	***24,160***

Please note for water systems that service more than ten municipalities, the ten municipalities that have the highest populations served will be considered in the above table for the affordability factor.

v. Population:

As a tiebreaker, projects are assigned points based on the permanent population of the water system service area. For a resort community where the summer and winter populations vary greatly, the permanent population will be calculated by taking the sum of twice the winter population and once the summer population and dividing by three (see below). For water systems that service more than one municipality, a total of all the permanent population served in the multiple service areas is used. Priority points are calculated as the permanent population served by the water system divided by 100,000, expressed as a decimal. In the event that projects remain tied, the project which serves a greater proportionate population in the water system's area is given higher priority.

Population served for resort communities will be calculated by the following equation:

[(2 x Winter Population) + Summer Population] / 3 = Weighted Permanent Population

vi. Other Ranking Considerations:

The following factors are also considered in project ranking: (**i**) Emergency projects, (**ii**) Projects in Small Water Systems, (**iii**) Lead service line replacement projects, and (**iv**) Other projects currently on the comprehensive list:

Emergency Projects - Given the limited response time to emergency projects, the following procedure has been developed to ensure rapid response while also maintaining funding eligibility:

Drinking Water Emergency Repair Projects will be defined as, and limited to, projects that replace, in kind, the failure of an essential portion of a public water system that will disrupt water service to any number of the public water system's customers for a minimum of 24 hours total and/or poses a substantial threat to the public health, safety, and welfare. The DWSRF only funds the portion of any repair that is necessary to restore lost service to the affected population under the

emergency loan provisions. A water purveyor may only receive emergency funding for a specific Emergency Repair Project ONCE. Any long-term solutions, modifications, and/or upgrades to prevent future emergency occurrences must be addressed in future financing cycles as a project and published on the Project Priority List.

The DEP recognizes that environmental infrastructure emergencies may occur that endanger public health and welfare and can result in substantial environmental damage. Such circumstances require an immediate response for which a complete technical and environmental review in advance of construction is not possible. On July 15, 2005, the DEP issued a generic Environmental Decision Document (EDD) for environmental emergency response projects and on January 3, 2006, amendments to the program's rules at N.J.A.C. 7:22 were adopted to allow the EIFP to fund certain emergency projects. The generic EDD and the rule changes identify the specific types of projects and conditions that must exist to qualify under the emergency project provisions of the Financing Program. With the EDD and the rules as guidelines, the DEP has developed a process to respond rapidly when emergencies occur, obtain basic project information, make an eligibility determination and issue a pre-award approval so that owners/operators can undertake the needed repairs and maintain eligibility for those expenditures through the NJEIFP. For ranking purposes, projects that qualify as emergency projects will receive funding priority over all other projects on the Project Priority List. All program requirements must be met to the DEP's satisfaction prior to the water system being reimbursed for the emergency repair.

vii. DW Project Priority Order:

- Emergency Projects - Emergency projects are considered a public health hazard and will receive funding over other projects on the Comprehensive Priority List;
- Small Systems - Up to 15% of the FFY2017 DWSRF capital grant is reserved to provide financing for publicly owned and privately-owned community water systems and non-profit, non-community water systems serving populations of less than 10,000 persons;
- Lead Service Line Projects - For the replacement of lead service lines for drinking water systems in communities serving customers with less than median household income than the median household income for the county in which they are located.;
- Other Projects currently on the Comprehensive List

DRINKING WATER SANDY SFY2019 NJEIFP RANKING CRITERIA

The Letters of Intent and accompanying documentation were used by the Department to assign points to each project using the Project Priority System and the Department ranked all eligible projects according to the total number of points each project received. All projects were subsequently placed on the Project Priority Comprehensive List according to their ranking. Projects with more points were ranked above

those with fewer points. The Department intends to follow this procedure for Sandy drinking water projects.

The principal elements of the Priority System are: A) Superstorm Sandy resiliency related projects, B) Affordability, and C) Population. Points were assigned for each of the three priority categories in the FFY2018 IUP; Asset Management Plans are now a requirement for project submittal.

A project must be assigned points from Category (**i**) to be eligible for ranking; points assigned from the remaining categories are added to the points received in Category (**i**).

The prospective applicant must notify the Department of any changes to project scope or any other circumstance that may affect the calculation of priority points. The Department shall then recalculate, if appropriate, the prospective applicant's ranking utilizing the new information submitted and revise the priority ranking accordingly.

Points will be assigned for each of the three priority categories discussed below, as applicable:

i. Category (i). Superstorm Sandy DWSRF-related Project Needs:

Table I describes the project elements that are eligible for funds:

Table I. Project Elements Eligible for Project Priority Ranking in the Drinking Water State Revolving Fund DRAA Program

Priority Order	Project Description	Points
1.	Projects for water supply systems, which the State classified as vulnerable, as a result of a 2007 DEP Interconnection Study	300
2.	Projects for water supply systems that prevent floodwaters from entering a treatment plant or well house, including but not limited to relocating facilities to less flood prone areas and installation of physical barriers around a facility.	250
3.	Projects for other interconnections that increase water systems resiliency during time of emergency	200
4.	Projects for water supply systems with inadequate primary and secondary source capacity	150
5.	Projects for water systems with auxiliary power projects	125
6.	Projects for cleaning and lining water mains and other distribution system improvements for those municipally owned coastal water systems experiencing post Sandy water quality problems	110
7.	Projects for water supply systems with inadequate storage to meet those requirements of the New Jersey Water Supply Management Act (7:19-6.8).	100

8.	Other projects elements, not including in the above items that can be Superstorm Sandy related	50

ii. Category (ii). Affordability:

The Affordability criteria utilized in ranking Sandy NJEIFP projects relative are identical to the Affordability criteria utilized in ranking Base SFY2019 NJEIFP projects, which are set forth in Section II(C)(b) above.

iii. Category (iii). Population:

The Population criteria utilized in ranking Sandy NJEIFP projects are identical to the Population criteria utilized in ranking Base SFY2019 NJEIFP projects.

SFY2019 PROJECT PRIORITY LISTS

The preliminary Project Priority Lists for the Clean Water and Drinking Water Programs reflect information provided by the individual project sponsors and the Department's project ranking. The details of a project can change as the plans and designs are finalized. Any such change will not impact the intended end result for which the project was proposed. Moreover, the project cost is based on preliminary engineering estimates (as opposed to actual construction bids). As such, the project type descriptions and loan amounts should be relied upon only for general information.

PROGRAM LOAN TERMS AND CONDITIONS

LOAN PRODUCTS

Structure: The NJEIFP consists of two loan programs, short-term and long-term loans, that together provide funding for all aspects, phases and components of designing and building environmental infrastructure projects.

i. SFY2019 NJEIFP Long-Term Loans and Program Set-asides:

- Base **CW** NJEIFP

  Loans are generally issued at effective interest rates equivalent to 25% of the market rate. The loan structures also vary based on project types as set forth in the following set asides and reserves for Base SFY2019 NJEIFP:

  - **CSO LTCP and P&D Loans -** The Program offers interest free planning loans to help CSO permittees develop long-term control plans for the CSO sewer-shed (with loan terms up to 10 years). Eligibility for LTCP financing is limited to CSO communities. The planning loan will be converted to a long-term loan at the time of the completion of the LTCP and coupled with a construction loan that finances the implementation of a

capital project. If there is no capital project to be implemented before the 10-year planning term expires, full loan repayment would be due.

- **Combined Sewer Overflow Abatement** - The NJEIFP is offering 50% principal forgiveness, 25% DEP interest-free financing and 25% NJEIT AAA market rate for Combined Sewer Overflow (CSO) abatement projects utilizing green practices (such as green roofs, blue roofs, rain gardens, porous pavement, and other activities that maintain and restore natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater). There is a $2 million cap on principal forgiveness per applicant in SFY19. The remaining loan is financed at 100% DEP interest-free financing for CSO abatement project utilizing green practices and for all other CSO abatement projects.

- **Barnegat Bay Watershed -** The principal forgiveness funds will be reserved for stormwater and non-point source pollution management projects in the Barnegat Bay Watershed. 50% principal forgiveness will be offered with a $2 million limit on principal forgiveness per applicant and awarded on a fist come basis. The remaining project amount is financed 25% DEP interest free, and 25% NJEIT market rate financing.

- **Brownfield Set-Aside –** $60 million is proposed to be reserved for brownfield redevelopment projects in SFY2019. Brownfield redevelopment by private entities is eligible for a funding package of 50% DEP and 50% Trust financing. Private entities are required to partner with public conduits that sponsor the projects. Project sponsors must pledge that the site on which the improvements occur will remain in public ownership for the term of the loan. While the Financing Program will allow the public sponsor to sell the improved land to a private entity and use it for private purposes, the loans provided by the Department and the Trust to finance the improvements must be repaid in full upon the transfer of ownership. This requirement does not apply to conduit Borrowers' projects, which by their nature, involve private developer(s) and private ownership interests.

- **Conduit Borrowers/Private Activity:** For all new conduit/redevelopment projects, the SFY2019 Redevelopment Financing Package consists of an interest-free loan from the Department for up to 50% of the allowable project costs (not to exceed $25 million) and a market rate loan from the Trust for the remaining allowable project costs. Previously-financed conduit Borrowers will not be eligible for supplemental loans from the Department to cover unanticipated cost increases due to bid receipt, differing site conditions, change orders or other circumstances.

- **Coastal Community Water Quality Restoration:** Offering 50% principal forgiveness for capital improvement projects that will eliminate, prevent or reduce occurrences of shellfish bed or beach closings due to the presence of pathogens subject to the

availability of funds. Projects would eliminate potential sources such as failing on-site wastewater systems and cross-connections between storm sewers and sanitary sewers. Project costs up to $5 million would receive 50% principal forgiveness, 25% DEP interest free, and 25% NJEIT market rate financing. Project costs exceeding $5 million are eligible for the Base CWSRF structure. $2.5 million in principal forgiveness has been committed towards Cumberland County Improvement Authority to resolve failing septic systems and prevent shellfish bed closures in Downe Township, limited to Fortescue and Gandys Beach. A total of $5 million in principal forgiveness funds was reserved last year. Any amounts that remain unobligated at the end of SFY18 continue to be available for these purposes in SFY19.

- **Asset Management:** NJEIFP will provide 100% principal forgiveness to small water wastewater systems, those that serve 10,000 or less people, to develop and implement asset management programs. The department expects to make CBT-diesel funds available in principal forgiveness through the NJEIFP and cap the amount at $100,000 per applicant. A capital improvement project is expected from the creation of the asset management program. The Department reserves the right to utilize these funds to hire a contractor to provide technical services to small communities for asset management. Base **DW** NJEIFP

  Base DW NJEIFP loans generally consist of an interest rate equivalent to 25% of the market rate. The loan structures also vary based on project types as set forth in the following set asides and reserves for Base SFY2019 NJEIFP:

  - **Lead Abatement Program:** Up to $30 million in principal forgiveness will be made available for public community and nonprofit non-community water systems for the NJEIFP Lead Service Line Replacement Program. Water systems for communities having a median household income less than the median household income for the county in which they are located are eligible for 90% principal forgiveness and 10% funding from the DEP at 0% interest for the replacement of lead pipes and lead components including mains and service lines. Project applicants are capped at $1 million in principal forgiveness funds. Lead pipes and components are defined as containing at least 90% or more lead by weight. The following criteria must be met in order for the project to be eligible:
    - Be able to document the presence of lead pipes and components
    - Provide documentation through historic records that the lines to be replaced are lead. Acceptable records include information on the age of the houses and high probability of lead lines and components being present, line installation records, etc.
    - Partial lead line replacements are not allowable.

  - **Small System Loans:** One of DEP's short-term goals is to provide loan assistance to systems serving 10,000 persons or less, subject to the availability of funds. The Federal SDWA amendments of 1996 set a goal for states to provide at least 15% of

each annual federal SRF capital grant credited to the DWSRF project account to provide loan assistance to systems serving 10,000 persons or less. Therefore, 15% of the DWSRF fund is reserved to provide financing for small systems serving 10,000 residents or less. However, if there are not enough small systems serving 10,000 residents or less that are eligible for the 15% reserve, then these funds will be utilized for eligible projects, in priority order, that have met program requirements.

- Small Water Systems Loan Program (NANO) - Commencing in SFY2014, the DWSRF created the Small Water Systems Loan Program to improve small system's access to financing. Qualified Borrowers are currently active publicly-owned and privately-owned community water systems and nonprofit non-community water systems serving 10,000 persons or less.

  $4 million is allocated to this Small System Loan program. Each eligible loan under the program is capped at $1 million per loan. At the loan cap amount of $1 million, 50 % ($500,000) is available from the DEP as principal forgiveness; 25 % of the total project costs (up to $250,000) is available as zero interest from the DEP and the 25 % balance of the total project cost (up to $250,000) is available at the Trust market rate. This program will prioritize small systems in three tiers as follows: 1) those systems serving 500 residents or less, 2) those systems serving 501 to 3,300 residents and 3) those systems serving 3,301 to 10,000 residents. At this time, the financing program is discussing other advantages to small systems; such as waiving administrative fees, direct loans, etc.

  In SFY2019, the DEP will also provide VSWS and SWS loans to larger, more viable water systems which are willing to take ownership of small water systems in calendar year 2016 or later, and make needed capital improvements. As a result, larger water systems would be eligible for the same enhanced loan terms as the otherwise eligible small water system.

SMALL WATER SYSTEM ENGINEERING PROGRAM

The Department is offering 100% principal forgiveness loans up to $500,000 per project to small water systems that serve less than 500 persons who need assistance from the Community Engineering Corps to come into compliance.

PROGRAM FEES

i. The following is a summary of the Department and NJEIT fees for Long-Term loans:

- Department Loan Origination Fee.

Commencing in 2002, budget cuts have necessitated the imposition of a fee to offset the costs of the DEP's administration of the Financing Program (Department Loan Origination Fee). Appropriations Acts require the Department to collect the fee from the Borrowers of each Financing Program amounting to 2% of the entire project amount (combined Trust and DEP loan). Policy is to assess Borrowers 1% (half) of the fee at the time of the closing of financing (either short-term or permanent). The remaining 1% is paid in full through the initial repayments of the long-term loan as quickly as is allowable, within IRS rules.

Any fees collected above the amount necessary to fund the program are held by the Trust in a separate account. Interest earned on this account will be applied toward Financing Program administrative costs. If the fees collected are insufficient to fund the program, the Department will request that the shortfall amount be appropriated from the special account. (Note: monies collected through the Department Fee can only be used for Financing Program administrative costs).

The Department Loan Origination Fee may be waived for those projects that utilize independent engineering consultants. In those cases, a memorandum of agreement will be entered with the project sponsor to pay the outside engineering fees in lieu of the Department Loan Origination Fee.

- Trust Bond Origination Fee.

  The Trust Origination fee is currently 0.1% of the Trust loan. The Trust's costs of issuance associated with the bond sale are captured in this fee. This fee is financed through the bond sale and payable over the life of the loan.

- Trust Loan Administration Fee.

  The Trust administration fee is 0.3% assessed annually on the original Trust loan amount and is utilized to defray the Trust's annual costs of operation and loan administration (origination, disbursement and repayment processing). This fee is not financed through the bond sale and is payable bi-annually for the life of the loan.

ii. Program Requirements: Project Certification / Loan Closing

- Requirements.

  The loan requirements are substantially simplified for SFY2019. The Program encourages all applicants to seek short-term financing immediately upon their award of the contract for engineering planning/design. Eligibility for this early stage short-term loan is as follows:

  1. Submission of a project information page;
  2. Submission of the engineering contract; and
  3. Submission of a Short-Term Financial Addendum Form (STFAF).

Typically, loans are closed within thirty days of submission of the STFAF upon DEP's certification of the project for engineering costs and EIT's approval of borrower credit worthiness. The Short-Term Loan is for the total estimated project cost, and as each contract is certified, the Program funds are committed and available for disbursement.

The specific requirements for <u>securing</u> a loan for construction activities is as follows:

1 – 3. See above for items;
4. Submission of a Letter of Intent (environmental planning documents);
5. Project permits;
6. Construction design documents and State Loan Application;
7. DEP approval of design, environmental planning, contract documents (prevailing wage and small and disadvantaged business provisions), and permits;
8. Construction bid package review;
9. DEP issuance of an authorization to award the construction contract;
10. EIT's approval of borrower credit worthiness (in the absence of a previously executed short-term loan); and
11. Department Certification. The program operates on a rolling application basis removing deadlines for fulfillment of these requirements.

- DEP Project Certification. The documents to be submitted and the approvals necessary to secure DEP Certification are as follows:

  - Letter of Intent / Planning Documents. Project sponsors interested in securing an NJEIFP loan are required to submit a Letter of Intent including a brief project description, water supply deficiency or need and estimated project cost, and a project contact list. (See N.J.A.C. 7:22-3.7). Project sponsors must also submit environmental planning documents. An acceptable planning submittal must consist of a complete project report, the appropriate environmental planning documentation for the level of environmental review determined applicable by DEP, cultural resources information, documentation of completed public participation activities, a detailed map, and the results of preliminary coordination activities with lead agencies regarding environmental and permit reviews. (See N.J.A.C. 7:22-10.1 et seq.).

  - Permits. Projects will not receive financing until all major permits are secured

  - Application / Construction Design Documents. The State Loan application requires, among other things, a written authorization for the filing of the application, a project report and full facilities plan, detailed project costs, assurance of compliance with the Civil Right Act of 1964 and the New Jersey Law against Discrimination, and assurance that all requisite state and federal permits and approvals for construction have been received. (See, N.J.A.C. 7:22-3.11).

- Socially and Economically Disadvantaged (SED) Business Participation. Project sponsors are required to set a goal of awarding at least ten (10) % of a project's costs for construction, materials, or services to small business concerns owned and controlled by SED individuals as defined in the Small Business Act (15 U.S.C. 637(a) and (d)) and any rules promulgated pursuant thereto. (See N.J.A.C. 7:22-9). The Department and the Trust have adopted the SED rules (at N.J.A.C. 7:22-9), that identify the SED requirements that project sponsors will have to meet.

- Construction Documents. The applicant must submit the draft construction bidding documents including the following provisions: (1) that the successful bidder must comply with the Program SED requirements (See N.J.A.C. 7:22-9.7); and (2) workers employed in the performance of any contract for a project financed with NJEIFP Loan proceeds are required to receive wages not less than the prevailing wage, in accordance with the rate determined by the Commissioner of the New Jersey Department of Labor, and other requirements of the local public contracts law,

- Public Notice and Public Hearing. The NJEIFP requires each applicant to issue public notice of SED opportunities prior to commencement of construction. (See N.J.A.C. 7:22-9.6). The NJEIFP requires the applicants of certain projects to provide public notice (30 day) and conduct a public hearing to receive comment regarding the environmental impacts. (See N.J.A.C. 10.10). Upon the Department's issuance of an environmental decision document for the project, public comment is accepted for 30 days subsequent to the publication of the decision.

- Department Approval/Certification. Project certification will be granted by the Department upon an applicant's submission of the requisite documents and the Department's determination that the applicant has secured all permits and complied with the Department's construction design, environmental planning, construction bidding document, and SED requirements.

iii. Loan Closing Requirements.

- The following is a summary of documents to be submitted and decisions to be made as conditions precedent to loan closing. A detailed discussion of the loan requirements will be set forth in the May Report.

  - Financial Addendum Form (FAF). Each project sponsor is required to complete a Financial Addendum form to demonstrate its commitment to proceed with project financing for a Short-term Loan or Long-Term Loan. A single Financial Addendum is required to request financing for either a clean water or drinking water project. Two financial addenda must be submitted if both clean water and drinking water project loans are sought. Applicants shall provide, among other things, authorization to finance the project through issuance of bonds, copy of the Local Finance Board (LFB) or New Jersey Board of Public Utilities

(NJBPU) application (as applicable), a "no merit" legal opinion, assurance that applicant will pay for the relevant costs incurred by the Trust regardless of whether or not the loan is closed, and copy of reimbursement resolution. Note: applicants seeking Interim Financing are required to submit both a Long-Term FAF ("LTFAF") as well as a short-term financing FAF ("STFAF").

- LFB / NJBPU Approval. N.J.S.A. 58:11B-9 of the Environmental Infrastructure Trust Act requires that the bonds to be issued by a local government unit to the Trust be approved by the Director of the Division of Local Government Services, Department of Community Affairs, rather than the Local Finance Board. As such, NJEIFP applications for municipalities, counties and local authorities (notwithstanding the Fiscal Control Law) no longer come before the Board unless another law requires Local Finance Board approval (e.g. a municipality exceeding its statutory debt limit). Relevant information from NJEIFP Loan applications are organized by NJEIFP staff and forwarded to the DLGS for a decision. NJBPU approval must be secured by public water utility applicants.

    - No Local Finance Board Approval Needed for NJEIT Loans with Non-Conforming Maturity Schedules. Section 12 of P.L. 2015, c.95 amends N.J.S.A. 40A:2-26 to eliminate the requirement that the Local Finance Board approve non-conforming maturity schedules for loans made by the NJEIT, or the State acting by and through the DEP, for environmental infrastructure projects as defined by N.J.S.A. 58:11B-3. The fact that the maturity schedule is approved by the Trust is now sufficient in and of itself.

    - No Local Finance Board Approval Required to Waive the 5% Down-Payment Requirement. There is an automatic waiver of the 5% down payment requirement for municipal and county bond ordinances where a bond ordinance is enacted for environmental infrastructure projects funded by loans made by the Trust, or the State acting by and through the DEP provided the bond ordinance exclusively funds NJEIFP projects.

- Applicant Ordinances, Certifications and Covenants. The following provides a brief overview of some of the actions required of applicants to secure Long-Term and Interim Loans:

    - Ordinances and resolutions of the governing body must be in place to establish that the Borrower has the legal right and authority to undertake the specific project, and own, efficiently operate and appropriately maintain an environmental infrastructure system;

    - Certifications that no undisclosed fact or event, and no pending litigation, will materially adversely affect the environmental infrastructure system;

    - For a general obligation, Borrower, a pledge of full faith and credit and for a revenue Borrower, a pledge of water system revenues;

- The establishment of levies, fees or rates sufficient to meet operating and maintenance expenses. Demonstration of compliance with the Trust's Credit Policy;

- Agreement to provide secondary market disclosure information; a limitation on the use of loan proceeds and the sale, lease, abandonment or other disposition of the project assignment of the loan obligations and prior written approval of the Trust/State; and a prohibition on actions that may jeopardize the tax status of the bonds issued by the Trust and, where appropriate, the State.

- Escrow Closing. Upon issuance of project certification, and when the Borrower has all the necessary ordinances, resolutions, authorizations and necessary financial covenants in place, the Trust conducts an escrow closing for each participant. Each Borrower enters into two loan agreements to secure a Long-Term Loan or Direct Loan: one agreement with the Trust and one with the State, acting by and through the Department, for the Fund or the Pinelands Program. These loan agreements have been drafted to reflect the differences between the security features for general obligation Borrowers, revenue Borrowers and private water system Borrowers. The principal terms and conditions are conformed among the versions and permit a generic description of the terms and conditions.

- Bond Sale, Loan Closing. Subsequent to escrow closing, the Trust will schedule its bond sale. Both the Trust's enabling legislation and the Annual Debt Management Plan require that the Trust's bonds be sold on a competitive basis. Typically, within two weeks of bond sale, the Trust will conduct loan closings with the Borrowers to finalize and memorialize the transfer of funds.

iv. Other Financing Considerations.

- Debt Service Reserve. Prior to 2007, the Trust's Debt Service Reserve Fund was generally funded from a portion of the required state match (20% of the federal grant), General Obligation Bond proceeds and project loan repayments. Since 2007, the NJEIFP has been able to secure a natural AAA credit rating for its bond issues without providing a debt service reserve. The Trust will continue this practice in SFY2019. Amendments to both the Trust legislation and the federal Drinking Water SRF legislation permit loans to be issued to private water purveyors.

- Cross Collateralization. The NJEIFP has received USEPA's approval to utilize cross-collateralization in its financing structure for both the Drinking Water and Clean Water SRF Programs. This has a direct benefit to the interest rates for Drinking water projects. The interest rate available to NJEIFP projects is directly influenced by the pool of repayments upon which the program can draw in the event of default. The pool of loan repayments available for DW projects is less than that for CW projects. Under the cross-collateralization option, repayments of loans from either fund may be used to cover any default in loan repayments and as a result the ratings agencies look to the combined pool of loan repayments as security in establishing a rating for the bond issue.

- Transfer of Project Funds between Programs. The USEPA permits states to transfer up to 33% of the capitalization grant from either program to the other. The Department fully supports efforts to enact legislation to continue to allow the transfer of funds and the transfer provision has been extended by the USEPA. If approved, the Department reserves the right to transfer funds from the CWSRF to the DWSRF (or vice-versa) each fiscal year to the extent allowed by law. To date, approximately $100 million has been transferred between the programs.

- Calendar Year 2018 Refunding. Certain interest rate environments may provide the Trust with the opportunity to refinance a number of series of Prior Bonds to achieve debt service savings. This refunding could include a portion or all of various existing Series issues. The debt service savings realized through the refunding of each series of Prior Bonds will be passed directly through to the Participating Borrowers in each respective series of Prior Bonds. The Trust will continue to monitor the market to determine opportunities which provide net present value savings at the time of bond sale exceeding 3.00% of the par amount of the Prior Bonds pursuant to the Trust's enabling legislation (58:11B-6(g)).

- Tax Regulations. The Trust will continue to evaluate the Tax Reform Act of 1986 and any amendments, as well as the various Internal Revenue Service (IRS) regulations and their cost impacts to program participants. The Trust may suggest modifications in its SFY2019 financial structure to reflect any changes in the tax law, or its interpretation, to increase the program's flexibility.

APPENDICES INDEX

Appendix A: Combined Base SFY2019 / Superstorm Sandy Interim Clean Water Financing Program Project Priority List, Disaster Relief Emergency Financing (Statewide Assistance Infrastructure Loan (SAIL)) Program Project Priority List and Third Amended SFY2018 Interim Clean Water Financing Program Project Priority List

Appendix B: Combined Base SFY2019 / Superstorm Sandy Interim Drinking Water Financing Program Project Priority List and Third Amended SFY2018 Interim Drinking Water Financing Program Project Priority List

Appendix C: Projects financed through the Statewide Assistance Infrastructure Loan Program (Disaster Relief Emergency Financing Program)

Appendix D: Emergency Loan Program Guidance Document

Appendix E: State Fiscal Year 2017 Financing Program Summary

Appendix A-1

Clean Water (by Alphabetical Order)

Combined Base SFY2019/Superstorm Sandy Interim Clean Water Financing Program Project Priority List, Disaster Relief Emergency Financing (Updated Statewide Assistance Infrastructure Loan (SAIL)) Program Project Priority List and
Third Amended SFY2018 Interim Clean Water Financing Program Project Priority List

KEY: Red/italices = SAIL Program (Disaster Relief projects)
Green = New projects or increases in project costs since the Second Amended SFY2018 Interim Financing Program Project Priority List are identified

Supplemental Funding				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
	Burlington Township	S340712-14-1	Sewer Rehabilitation	$ 200,000
	Manasquan Borough	S340450-01-1	Electrical system, Bulkheads, Stormwater, PS Improvement	$ 2,110,000
	Mendham Township	S340477-01-1	Effluent Disposal Repair	$ 2,154,000
	North Hudson Sewer Authority	S340952-19-1	Combined Sewer Improvements	$ 200,000
	Ventnor City	S340667-02-1	Stormwater Management	$ 5,000,000
	Wanaque Valley Reg. Sewer Authority	S340780-04-1	2013 Proposed Improvements	$ 1,500,000
	Warren Township Sewer Authority	**S340964-02-1**	**Fox Hill West & Heather Lane Pump Station**	**$ 350,000**
	Supplemental Loans #:	**7**	**Supplemental Total:**	**$ 11,514,000**

Base Program Projects				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
660	Aberdeen Township	S340869-02	Sanitary Sewer and PS Upgrades	$ 9,000,000
191	Allentown Borough	S340567-05	Sewer Plant Modifications	$ 3,112,994
931	Asbury Park City	S340883-08	Sewer Plant	$ 63,000,000
78	Atlantic County Utilities Authority	S340809-23	Treatment Plant Resiliency Project **(SANDY)**	$ 11,040,000
315	Atlantic County Utilities Authority	S340809-24	Pump Station Resiliency	$ 800,000
78	Atlantic County Utilities Authority	S340809-25	Seawall **(SANDY)**	$ 17,520,000
75	Atlantic County Utilities Authority	S340809-26	Sewage Treatment Plant Mitigation Projects	$ 1,500,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
75	Atlantic County Utilities Authority	S340809-27	Automated Bar Screen Replacement	$ 3,200,000
523	Atlantic County Utilities Authority	S340809-28	Sewer Sludge Incinerator Improvements	$ 4,100,000
315	Atlantic County Utilities Authority	S340809-29	Replace a portion of Brigantine Force Main	$ 4,300,000
824	Avon By The Sea Borough	S340335-03	Sylvan Lake Water Quality Project	$ 12,488,850
58	**Bayonne City**	**S340399-31**	**Stormwater Management Facilities and Park Improvements**	**$ 1,618,539**
72	*Bayshore Regional Sewer Authority*	*S340697-05*	*Waste Water Treatment Plant Restoration and Resiliency **(SAIL)***	*$ 28,200,000*
72	*Bayshore Regional Sewer Authority*	*S340697-06*	*Restoration / Mitigation of Blower Bldg. & Power Distribution System (SAIL)*	*$ 15,100,000*
163	**Beach Haven Borough**	**S344220-01**	**Stormwater pump replacement and drainage**	**$ 2,038,640**
850	Bellmawr Borough	S342011-02	Waterfront Development Remediation	$ 68,400,000
190	Berkeley Township	S344020-02	Water Quality Retention Basin at Moorage Park	$ 905,063
712	**Berkeley Township**	**S340969-12**	**Stormwater/Equipment**	**$ 706,150**
481	Bradley Beach Borough	S340472-01	Sewer Main Installation and Repairs - Phase I	$ 2,700,000
810	Bradley Beach Borough	S340472-02	Bradley Boulevard Stormwater Rehab	$ 2,590,050
338	Brick Township Municipal Utilities Authority	S340448-11	Wastewater Pump Station Rehabilitation - Phase II	$ 5,278,297
447	Brigantine City	S340827-04	Emergency Generators **(SANDY)**	$ 3,300,000
776	Brigantine City	S340827-05	Flood Control and Pump Station Improvements **(SANDY)**	$ 4,600,000
776	Brigantine City	S340827-06	Municipal System Improvements	$ 1,001,066
700	Burlington City	S340140-01	Stormwater Pump upgrades	$ 1,700,000
360	Burlington Township	S340712-16	Sanitary Sewer Rehabilitation	$ 960,000
29	Camden City	S340366-07	2014 Sanitary/Combined Sewer Rehab / Replacement Project	$ 59,000,000
29	Camden City	S340366-12	Cooper Street Pump Station	$ 2,300,000
29	Camden City	S340366-13	Rehabilitation of Arch Street Pump Station	$ 12,000,000
29	Camden City	S340366-14	Rehabilitation of Ten (10) Combined Sewer Outfalls.	$ 9,370,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
29	Camden City	S340366-15	Rehabilitation of Combined Sewer Outfalls and Regulator Chambers	$ 13,330,000
19	Camden County Municipal Utilities Authority	S340640-16	Wastewater Treatment Plant Improvements	$ 13,300,000
3	Camden County Municipal Utilities Authority	S340640-17	Reduce Potential for CSOs within City	$ 3,500,000
36	Camden County Municipal Utilities Authority	S340640-18	Phase I upgrades, improve/sustain optimal wastewater performance **(SANDY)**	$ 84,030,000
1	Camden County Municipal Utilities Authority	S340640-19	Camden City Green and Grey Infrastructure Project, Phase 4	$ 11,500,000
2	Camden County Municipal Utilities Authority	S340640-20	Camden City Green Infrastructure	$ 6,500,000
11	Camden County Municipal Utilities Authority	S340640-21	Camden City Waterfront Stormwater Pumping Station	$ 32,500,000
11	Camden County Municipal Utilities Authority	S340640-22	Upgrades to Camden City's Combined Sewer Overflow System	$ 13,000,000
11	Camden County Municipal Utilities Authority	S340640-23	Dredging Of Camden City's Combined Sewer Overflows To Reduce Combined Sewage Flooding	$ 13,000,000
4	Camden County Municipal Utilities Authority	S340640-24	Upgrade of Camden County Wastewater Treatment Plant to Increase Wet Weather Capacity	$ 6,500,000
4	Camden County Municipal Utilities Authority	S345040-01	Camden City and Gloucester City Long Term CSO Control Plan	$ 1,049,636
936	Camden County PCFA	S342025-01	Pennsauken Sanitary Landfill Expansion and Liner Enhancement Project	$ 14,060,804
934	Carteret Borough	S340939-07	Dredge sediment & construct bulkhead / slope stabilization	$ 9,000,000
750	Carteret Borough	S340939-09	Noe Street Stormwater Pump Station Construction **(SANDY)**	$ 15,010,000
183	Cinnaminson Sewerage Authority	S340170-07	Sewer Treatment Plant Improvements	$ 9,000,000
629	Cinnaminson Sewerage Authority	S340170-08	Taylor's Lane Sewer Extension **(SANDY)**	$ 1,160,000
94	Cliffside Park Borough	S340847-04	Combined Sewer Separation	$ 5,300,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
706	Cranford Township	S340858-04	Stormwater constr. various locations to improve drainage/prevent flooding	$ 12,000,000
634	Cumberland County	S340438-01	Downe Wastewater Infrastructure	$ 16,000,000
130	Cumberland County Utilities Authority	S340550-07	Sewage Treatment Plant Improvements	$ 1,300,000
267	Cumberland County Utilities Authority	S340550-08	Pump Station Replacement & Improvements	$ 1,300,000
142	Delran Township	S340794-08	Replace existing sand filter @ Waste Water Treatment Plant & rehab Twps. Fifth St Pump Station	$ 2,000,000
675	**Dunellen Borough**	**S340916-03**	**Flood Mitigation Project**	**$ 2,599,998**
862	Edison Township	S342020-01	Edison Landfill Closure	$ 13,000,000
368	Egg Harbor Township Municipal Utilities Authority	S340753-06	FAA Pump Station Reconstruction	$ 700,000
55	Elizabeth City	S340942-13	Western Interceptor Modifications	$ 13,146,000
55	Elizabeth City	S340942-17	South Street Flood Control Project **(SANDY)**	$ 5,500,000
52	Elizabeth City	S340942-18	Progress Street Resiliency	$ 8,200,000
31	Elizabeth City	S340942-19	Trumbull Street Flood Control Project	$ 7,700,000
55	Elizabeth City	S345070-01	City of Elizabeth Combined Sewer Overflow Long Term Control Plan	$ 4,000,001
427	Emerson Borough	S340497-01	Small System Asset Management Plan	$ 100,000
325	Franklin Township Sewerage Authority	S340839-07	Foxwood Drive Area - South Crossing I&I Reduction	$ 1,960,000
442	Glen Ridge Borough	S340861-03	GR-Procurement-Sewer Cleaning Truck	$ 445,849
176	**Gloucester City**	**S345090-01**	**Combined Sewer Overflow Asset Management Plan**	**$ 1,000,000**
177	Gloucester City	S340958-08	Various Sewer Projects	$ 2,100,000
930	Gloucester County Improv. Authority	S342024-01	Cell Construction	$ 8,000,000
518	Gloucester County Utilities Authority	S340902-13	Incinerator #2 Upgrades	$ 14,040,000
198	Gloucester County Utilities Authority	S340902-14	Bio-Solids Handling Facility Upgrade to CHP **(SANDY)**	$ 45,000,000
202	Gloucester County Utilities Authority	S340902-15	Combined Heat & Power	$ 7,250,000
214	Gloucester County Utilities Authority	S340902-16	Primary Clarifier Equipment Replacement	$ 2,100,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
518	Gloucester County Utilities Authority	S340902-17	Sludge Drying System	$ 10,000,000
730	Gloucester Township	S340364-11	Flood Mitigation **(SANDY)**	$ 1,700,000
730	Gloucester Township	S340364-15	Gloucester Township Stormwater Improvements	$ 1,450,000
629	Greenwich Township	S340359-02	Installation of a collector sewer in vicinity of the Village of Stewartsville	$ 2,200,000
132	Hackensack City	S340923-12	Combined Sewer Separation, Phase 2	$ 6,000,000
800	Highlands Borough	S340901-03	Stormwater System Improvements (Current Project)	$ 6,250,000
231	Hightstown Borough	S340915-05	UV Disinfection System	$ 1,400,000
87	Hoboken City	S340635-06	Acquisition, Remediation, & Construction on 6 Acre Park & Outfall **(SANDY)**	$ 33,000,000
87	Hoboken City	S340635-07	Resilient Green Infrastructure for CSO Reduction	$ 5,000,000
40	Hoboken City	S340635-08	Southwest Resiliency Park - Acquisition, Rehabilitation	$ 6,600,000
220	Howell Township	S344040-02	Freewood Acres & Route 9 Sanitary Sewer Extension	$ 14,500,000
96	Jersey City	S340928-30	Street Cleaning Equipment	$ 2,711,000
44	Jersey City Municipal Utilities Authority	S340928-15	Phase 3 & 4 Sewer Improvements **(SANDY)**	**$ 41,000,000**
44	Jersey City Municipal Utilities Authority	S340928-16	Sixth Street Combined Sewer Outfall **(SANDY)**	$ 9,500,000
44	Jersey City Municipal Utilities Authority	S340928-17	Regulator, Outfall and Solid Flow **(SANDY)**	$ 14,160,000
44	Jersey City Municipal Utilities Authority	S340928-18	Claremount Carteret outfall replacement **(SANDY)**	$ 5,600,000
44	Jersey City Municipal Utilities Authority	S340928-19	East Side Plant repairs, improve **(SANDY)**	$ 7,500,000
44	Jersey City Municipal Utilities Authority	S340928-20	Outfall Chambers **(SANDY)**	$ 7,200,000
172	Jersey City Municipal Utilities Authority	S340928-21	Sewer Pipe Replacement / Phase V Combined Sewage Overflow Study	$ 12,000,000
99	Jersey City Municipal Utilities Authority	S340928-22	Green Infrastructure	$ 750,000
118	Jersey City Municipal Utilities Authority	S340928-23	3 Pump Stations Flood Hardening Improvements	$ 1,846,000
129	Jersey City Municipal Utilities Authority	S340928-24	Phase 1/2 Sewer Rehabilitation	$ 22,200,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
129	Jersey City Municipal Utilities Authority	S340928-27	Green Infrastructure- Martin Luther King Drive Tree Trenches	$ 500,000
172	Jersey City Municipal Utilities Authority	S340928-28	Van Winkle Ave. San. Sewer Rehab.	$ 2,300,000
160	Jersey City Municipal Utilities Authority	S340928-29	Carteret Ave. Sewer Replacement	$ 15,360,000
160	Jersey City Municipal Utilities Authority	S340928-31	54-inch JCMUA/PVSC FORCEMAIN REPAIR	$ 11,059,600
847	Jersey City Redevelopment Agency	S340928-25	Jersey Avenue Park Redevelopment Plan - Phase 1/2	$ 14,069,063
847	Jersey City Redevelopment Agency	S340928-26	Jersey Avenue Park Redevelopment Plan - Phase 2	$ 12,600,000
258	*Kearny Municipal Utilities Authority*	*S340259-07*	*Pump Station Rehabilitation **(SAIL)***	*$ 6,500,000*
63	Kearny Town	S340259-11	Dukes St Stormwater Pump Station	$ 17,000,000
921	Kearny Town	S340259-12	Redev of recreational complex as a modern artificial turf complex	$ 18,200,000
287	Little Egg Harbor Municipal Utilities Authority	S340579-02	Twin Lakes Blvd Sewer Main Replacement	$ 3,300,000
287	Little Egg Harbor Municipal Utilities Authority	S340579-03	Little Egg Harbor Sewer Main Replacement	$ 7,700,000
696	Little Egg Harbor Township	S340579-04	Mystic Island Drainage Improvements - Phase 2	$ 1,714,000
229	Little Egg Harbor Township	S344060-02	Twin Lakes Blvd. Drainage Improvements	$ 4,200,000
682	Logan Township Municipal Utilities Authority	S340123-01	0.50 MGD Water Reclamation Facility Expansion	$ 8,100,000
492	Long Beach Township	S340023-07	Sewer Main Replacement	$ 4,600,000
268	Manasquan River Regional Sewerage Authority	S340911-03	Equipment Replacement	$ 660,000
484	Medford Lakes Borough	S340319-03	Collection System Lining Improvements	$ 11,000,000
266	Mendham Township	S340477-01	Mendham East Wastewater Treatment Facility Conversion	$ 2,500,000
395	Middlesex Borough	S340698-02	Sanitary Sewer Main Improvements	$ 2,568,750
304	*Middlesex County Utilities Authority*	*S340699-12*	*Restoration and Flood Mitigation **(SAIL)***	*$ 93,000,000*

Rank	Sponsor	Project No.	Project Name	Estimated Cost
304	*Middlesex County Utilities Authority*	*S340699-13*	*Restoration and Flood Mitigation **(SAIL)***	*$ 40,000,000*
309	Middlesex County Utilities Authority	S340699-14	Main Truck Sewer Rehab Phase II	$ 18,250,000
727	Middletown Township	S340097-01	Shadow Lake Restoration Project	$ 4,500,000
950	Milltown Borough	S340102-01	Milltown Ford Ave Redevelopment	$ 21,000,000
950	Milltown Borough	S340102-04	Ford Avenue Redevelopment	$ 5,500,000
539	Milltown Borough	S340102-05	Flood Mitigation Borough of Milltown Municipal Complex Relocation	$ 13,726,000
135	Millville City	S340921-07	Wastewater Treatment Plant Upgrade Phase II	$ 12,000,000
296	Monmouth County Bayshore Outfall Authority	S340325-04	Force Main Assessment and Rehabilitation	$ 2,600,000
673	Montclair Township	S340837-03	Sanitary Sewer Collection System Rehabilitation-SFY 2016	$ 1,700,000
302	Montclair Township	S340837-04	Sanitary Sewers refurbishment 2017	$ 1,700,000
712	New Jersey Water Supply Authority	S340421-01	D&R Canal Dredging	$ 56,800,000
237	New Jersey Water Supply Authority	S340421-02	Round Valley Reservoir Structures Refurbishment and Resource Preservation	$ 82,822,000
23	Newark City	S340815-22	Queen Ditch Restoration	$ 10,500,000
23	Newark City	S340815-24	Structural evaluation & rehab of 350 miles of small diameter sewers	$ 21,000,000
15	Newark City	S340815-25	Green Infrastructure for the Sewer System	$ 400,000
23	Newark City	S340815-26	Improvements to the Peddie Combined Sewer Overflow	$ 3,300,000
15	Newark City	S340815-27	Greenstreet Projects for the City of Newark	$ 3,800,000
38	North Bergen Municipal Utilities Authority	S340652-14	Woodcliff Additional Improvements	$ 23,000,000
420	North Haledon Borough	S340229-02	Small System Asset Management Plan	$ 100,000
97	North Hudson Sewer Authority	S340952-22	W1234 Solids/Floatables (CSO)	$ 18,000,000
97	North Hudson Sewer Authority	S340952-23	Phase II Sanitary Sewer System Upgrades	$ 3,100,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
100	North Hudson Sewer Authority	S340952-24	Rehabilitate sewers @ Hamilton Ave & JFK Blvd	$ 3,000,000
107	North Hudson Sewer Authority	S340952-28	Collection System Improvements	$ 1,700,000
111	North Hudson Sewer Authority	S340952-29	2017 River Road Wastewater Treatment Plant Improvements	$ 1,300,000
111	North Hudson Sewer Authority	S340952-30	2017 Adams Street Wastewater Treatment Plant Improvements	$ 23,200,000
111	North Hudson Sewer Authority	S345190-01	Combined Sewer Long Term Control Plan	$ 6,000,000
213	North Wildwood City	S340663-07	Street and Utility Reconstruction - Sewer **(SANDY)**	$ 32,872,570
538	North Wildwood City	S340663-08	Street and Utility Reconstruction - Stormwater **(SANDY)**	$ 32,872,570
162	Northwest Bergen County Utilities Authority	S340700-13	STP Upgrades	$ 5,200,000
341	Northwest Bergen County Utilities Authority	S340700-14	Midland Park Force Main Installation	$ 3,694,000
341	Northwest Bergen County Utilities Authority	S340700-15	Wastewater Pump Station Improvements	**$ 7,000,000**
166	Northwest Bergen County Utilities Authority	S340700-16	Wastewater Treatment Plant Improvements	$ 3,900,000
259	Northwest Bergen County Utilities Authority	S340700-17	Security System Upgrades	$ 800,000
241	Ocean County	S344080-09	Manufactured Treatment Devices	$ 1,300,000
237	Ocean County	S344080-10	Camera Pipe Line Inspection Truck System - Equipment	$ 250,000
237	Ocean County	S344080-11	Mechanical Street Sweeper - Equipment	$ 350,000
390	Ocean County Utilities Authority	S340372-58	AW1610 South Island Beach Interceptor (CI-1A) and South Island Interceptor (SI-11) Rehabilitation	**$ 4,431,000**
77	Ocean County Utilities Authority	S340372-59	AW1611 Area Wide Clarifier Rehabilitation	$ 6,956,586
250	Ocean Gate Borough	S344180-01	Storm Sewer MTD	$ 2,600,000
448	Ocean Township	S340112-07	Sewer Improvements	$ 3,000,000
376	Ocean Township Sewer Authority	S340750-11	Collection System Improvements	$ 6,500,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
381	Ocean Township Sewer Authority	S340750-12	Interlaken Pump Station reconstruction **(SANDY)**	$ 4,100,000
373	Ocean Township Sewer Authority	S340750-13	2016 Collection System Improvements	$ 550,000
373	Ocean Township Sewer Authority	S340750-14	Asbury Avenue and Longview Pump Stations Rehabilitation	$ 2,500,000
348	Old Bridge Municipal Utilities Authority	S340945-14	2015 Sewage Pump Station Upgrades	**$ 2,610,000**
144	*Passaic Valley Sewerage Commission*	*S340689-23*	*Standby Power Generating Facility **(SAIL)***	*$ 150,000,000*
150	Passaic Valley Sewerage Commission	S340689-25	Administration Building Rehab	$ 9,100,000
154	*Passaic Valley Sewerage Commission*	*S340689-30*	*Sump Pump Relocation **(SAIL)***	*$ 3,700,000*
150	Passaic Valley Sewerage Commission	S340689-31	Sodium Hypochlorite Storage Replacement	$ 4,000,000
154	Passaic Valley Sewerage Commission	S340689-32	Newark Bay Outfall **(SANDY)**	$ 10,000,000
154	*Passaic Valley Sewerage Commission*	*S340689-33*	*Weatherproof tunnel locations incl HVAC for ventilation **(SAIL)***	*$ 80,000,000*
150	Passaic Valley Sewerage Commission	S340689-34	Waste Pump Station Upgrades	$ 2,900,000
114	Passaic Valley Sewerage Commission	S340689-35	Administration Building Green Infrastructure Entry Plaza	$ 400,000
114	Passaic Valley Sewerage Commission	S340689-36	Green Car Wash	$ 250,000
144	*Passaic Valley Sewerage Commission*	*S340689-37*	*Substation "M" Replacement **(SAIL)***	*$ 13,400,000*
144	Passaic Valley Sewerage Commission	S340689-38	Final Clarifier Concrete Rehabilitation Project **(SANDY)**	$ 21,000,000
144	Passaic Valley Sewerage Commission	S340689-39	Heat Treatment Plant Supernatant Return Pipe Lining **(SANDY)**	$ 4,816,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
144	*Passaic Valley Sewerage Commission*	*S340689-40*	*Plant wide Replacement & Relocation of Electrical Switchgear and MCCs **(SAIL)***	*$ 123,300,000*
153	*Passaic Valley Sewerage Commission*	*S340689-41*	*Perimeter Flood Wall **(SAIL)***	*$ 97,000,000*
144	*Passaic Valley Sewerage Commission*	*S340689-42*	*Storm Water Collection Systems **(SAIL)***	*$ 21,500,000*
144	*Passaic Valley Sewerage Commission*	*S340689-43*	*Storm Water Pumping Stations **(SAIL)***	*$ 43,600,000*
132	Passaic Valley Sewerage Commission	S340689-44	Wallington Pump Station Rehabilitation Project	$ 852,605
498	**Passaic Valley Sewerage Commission**	**S340689-45**	**Sludge Storage Improvements**	**$ 1,324,808**
498	**Passaic Valley Sewerage Commission**	**S340689-46**	**Decant Facility Improvements**	**$ 439,610**
144	Passaic Valley Sewerage Commission	S345200-01	Combined Sewer Overflow Long Term Control Planning **(SANDY)**	$ 8,000,000
144	Passaic Valley Sewerage Commission	S345200-02	Asset Management Plan **(SANDY)**	$ 2,000,000
40	Paterson City	S340850-05	CSO 023 Elimination- Sewer Separation at Second Avenue	$ 1,935,000
40	Paterson City	S340850-06	21st Avenue Sewer Reconstruction	$ 2,161,100
40	Paterson City	S340850-07	West Railway Sewer Reconstruction	$ 2,137,200
70	Paterson City	S345210-01	Investigation of Tributary Sewers from Adjacent Municipalities **(SANDY)**	$ 200,000
793	Paulsboro Borough	S340164-01	Replace storm sewer along Thomson & Wood Aves.	$ 2,750,000
121	Perth Amboy City	S340435-11	Replace pumps, relocate elect equip, to improve resiliency	$ 6,459,351
96	Perth Amboy City	S340435-13	The Paving of Parking Lots C and RDH (GI)	$ 850,000
121	Perth Amboy City	S340435-14	CSO Reparation (Pulaski Ave / Parker St. / State Street)	$ 2,608,000
71	Perth Amboy City	S340435-17	Second Street Corridor Project	$ 4,418,400

Rank	Sponsor	Project No.	Project Name	Estimated Cost
121	Perth Amboy City	S345220-01	CSO Permit Development of Long Term Control Plan	$ 1,000,000
304	Pleasantville City	S340752-03	Pleasantville Various Projects	$ 3,135,562
547	Plumsted Township	S340607-03	Advanced WW treatment & collection system	$ 27,000,000
249	Point Pleasant Beach Borough	S344190-02	Little Silver Lake Drainage Improv. Project	$ 3,000,000
275	Princeton Borough	S340656-08	System-wide Sanitary Sewer Rehabilitation	$ 4,300,000
720	Princeton Borough	S340656-10	Cherry Valley Road Improvement Project	$ 2,068,160
7	Rahway Valley Sewerage Authority	S340547-14	Replace existing digester tank covers & mixers; replacing gas flares	$ 9,500,000
10	Rahway Valley Sewerage Authority	S340547-15	Trucked-in Waste Receiving Station	$ 2,588,518
398	Raritan Township Municipal Utilities Authority	S340485-11	HCRHS Sewer Relocation Project	$ 500,308
195	Raritan Township Municipal Utilities Authority	S340485-12	Main Treatment Plant Improvements 2016	$ 4,900,000
67	Ridgefield Park Village	S345230-01	Planning for Long Term Control Plan CSO	$ 800,002
788	Riverdale Borough	S340729-02	Equipment Purchase	$ 289,789
117	Riverside Sewerage Authority	S340490-01	Primary Digester Mixing System	$ 840,000
327	Rockaway Valley Regional Sewer Authority	S340821-06	Old Jersey Trunk Sewer Replacement	$ 8,000,000
239	Rockaway Valley Regional Sewer Authority	S340821-07	Rehab four existing final clarifiers	$ 8,200,000
343	Rockaway Valley Regional Sewer Authority	S340821-09	West Main Street Sewer Repair	$ 2,200,000
407	Roselle Borough	S340332-02	Cleaning & lining of sanitary sewer	$ 3,800,000
188	Roxbury Township	S340381-07	Treatment Plant & Pump Station Improvements	$ 7,500,000
452	Runnemede Borough	S340363-06	Sanitary Sewer slip-lining at various locations	$ 1,800,000
209	Rutgers University	S340500-01	Busch Cogeneration Plant Upgrade	$ 32,400,000
209	Rutgers University	S340500-02	Upgrade of RBHS co-Generation Plant	$ 44,501,400

Rank	Sponsor	Project No.	Project Name	Estimated Cost
819	Sea Girt Borough	S340468-01	Upgrade Pipes and Baltimore Blvd & Neptune Place outfall	$ 4,900,000
838	Seaside Park Borough	S340083-03	Decommissioning of Well #7	$ 103,000
214	Seaside Park Borough	S344200-02	Barnegat Bay Watershed. Green Infra. Reconstruction of Parking Lots 1-3	$ 2,800,000
622	Secaucus Town	S340029-04	Born street pump station Improvements **(SANDY)**	$ 2,600,000
840	Secaucus Town	S342021-01	Malanka Landfill Closure	$ 22,600,000
511	Ship Bottom Borough	S340311-03	Sewer Main Replacement Project	**$ 4,650,000**
768	Somers Point City	S340618-02	Stormwater Improvements	$ 5,500,000
135	Somerset Raritan Valley Sewer Authority	S340801-07	Stormwater control facility to eliminate sewage discharge	$ 20,134,080
532	Somerset Raritan Valley Sewer Authority	S340801-08	Rehab of Sludge Incinerator #2	$ 16,500,000
962	Somerville Borough	S342013-01	Green Seam Restoration	$ 11,500,000
357	*South Monmouth Regional Sewer Authority*	*S340377-03*	*Pump Station Improvements **(SAIL)***	*$ 9,137,611*
357	*South Monmouth Regional Sewer Authority*	*S340377-04A*	*Pump Station Improvements **(SAIL)***	*$ 6,981,600*
357	*South Monmouth Regional Sewer Authority*	*S340377-05*	*Belmar Pump Station Improvements **(SAIL)***	*$ 3,500,000*
203	Stafford Township	S344100-03	Neptune Basin Expansion	$ 5,600,000
202	Stony Brook Regional Sewer Authority	S340400-10	Dewatered Sludge Handling Pump Replacement Project	$ 5,100,000
503	Sussex Borough	S340155-02	Sewer Force Main	$ 550,000
934	Sussex County Municipal Utilities Authority	S342008-05	Landfill Life Extension Project	$ 13,000,000
278	Tuckerton Borough	S340034-03	Heron Road Sewer Main Replacement Project	$ 1,405,206
772	Ventnor City	S340667-03	Flood Walls **(SANDY)**	$ 2,000,000
360	Vernon Township	S340745-03	Vernon Township Asset Management Assessment and Plan	$ 100,000
403	West Deptford Township	S340947-05	Replacement of Pump Stations 4 and 6	$ 1,300,000
127	West Milford Municipal Utilities Authority	S340701-12	Emergency Power Generator Install **(SANDY)**	$ 350,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
705	West Wildwood Borough	S340626-05	Storm Sewer Improvements to Avenues P, Q, R, S & Mueller Avenue	$ 1,890,000
346	Western Monmouth Utilities Authority	S340128-05	Route 79 Pump Station and Force Main Replacement	$ 4,300,000
242	Western Monmouth Utilities Authority	S340128-06	Pine Brook Sewage Treatment Plant Improvements	$ 12,100,000
704	Wildwood City	S340664-05	Stormwater Remediation of Pacific Avenue	$ 15,300,000
284	Willingboro Municipal Utilities Authority	S340132-08	Collection System Resiliency **(SANDY)**	$ 1,900,000
339	Winslow Township	S340895-10	Various Sanitary Sewer System Rehab	$ 1,517,473
612	Woolwich Township	S340432-01	New Collection System & Treatment	$ 15,092,956
Sandy and Base SFY2018/2019 CW Projects #:		**237**	**Subtotal:**	**$ 2,704,832,815**
Total Clean Water Projects #:		**244**	**Total Clean Water Projects:**	**$ 2,716,346,815**

Appendix A-2

Clean Water (by Ranked Order)

Combined Base SFY2019/Superstorm Sandy Interim Clean Water Financing Program Project Priority List, Disaster Relief Emergency Financing (Updated Statewide Assistance Infrastructure Loan (SAIL)) Program Project Priority List and
Third Amended SFY2018 Interim Clean Water Financing Program Project Priority List

KEY: Red/italices = SAIL Program (Disaster Relief projects)
Green = New projects or increases in project costs since the Second Amended SFY2018 Interim Financing Program Project Priority List are identified

Supplemental Funding				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
	Burlington Township	S340712-14-1	Sewer Rehabilitation	$ 200,000
	Manasquan Borough	S340450-01-1	Electrical system, Bulkheads, Stormwater, PS Improvement	$ 2,110,000
	Mendham Township	S340477-01-1	Effluent Disposal Repair	$ 2,154,000
	North Hudson Sewer Authority	S340952-19-1	Combined Sewer Improvements	$ 200,000
	Ventnor City	S340667-02-1	Stormwater Management	$ 5,000,000
	Wanaque Valley Reg. Sewer Authority	S340780-04-1	2013 Proposed Improvements	$ 1,500,000
	Warren Township Sewer Authority	**S340964-02-1**	**Fox Hill West & Heather Lane Pump Station**	**$ 350,000**
	Supplemental Loans #:	**7**	**Supplemental Total:**	**$ 11,514,000**

Base Program Projects				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
1	Camden County Municipal Utilities Authority	S340640-19	Camden City Green and Grey Infrastructure Project, Phase 4	$ 11,500,000
2	Camden County Municipal Utilities Authority	S340640-20	Camden City Green Infrastructure	$ 6,500,000
3	Camden County Municipal Utilities Authority	S340640-17	Reduce Potential for CSOs within City	$ 3,500,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
4	Camden County Municipal Utilities Authority	S340640-24	Upgrade of Camden County Wastewater Treatment Plant to Increase Wet Weather Capacity	$ 6,500,000
4	Camden County Municipal Utilities Authority	S345040-01	Camden City and Gloucester City Long Term CSO Control Plan	$ 1,049,636
7	Rahway Valley Sewerage Authority	S340547-14	Replace existing digester tank covers & mixers; replacing gas flares	$ 9,500,000
10	Rahway Valley Sewerage Authority	S340547-15	Trucked-in Waste Receiving Station	$ 2,588,518
11	Camden County Municipal Utilities Authority	S340640-21	Camden City Waterfront Stormwater Pumping Station	$ 32,500,000
11	Camden County Municipal Utilities Authority	S340640-22	Upgrades to Camden City's Combined Sewer Overflow System	$ 13,000,000
11	Camden County Municipal Utilities Authority	S340640-23	Dredging Of Camden City's Combined Sewer Overflows To Reduce Combined Sewage Flooding	$ 13,000,000
15	Newark City	S340815-25	Green Infrastructure for the Sewer System	$ 400,000
15	Newark City	S340815-27	Greenstreet Projects for the City of Newark	$ 3,800,000
19	Camden County Municipal Utilities Authority	S340640-16	Wastewater Treatment Plant Improvements	$ 13,300,000
23	Newark City	S340815-22	Queen Ditch Restoration	$ 10,500,000
23	Newark City	S340815-24	Structural evaluation & rehab of 350 miles of small diameter sewers	$ 21,000,000
23	Newark City	S340815-26	Improvements to the Peddie Combined Sewer Overflow	$ 3,300,000
29	Camden City	S340366-07	2014 Sanitary/Combined Sewer Rehab / Replacement Project	$ 59,000,000
29	Camden City	S340366-12	Cooper Street Pump Station	$ 2,300,000
29	Camden City	S340366-13	Rehabilitation of Arch Street Pump Station	$ 12,000,000
29	Camden City	S340366-14	Rehabilitation of Ten (10) Combined Sewer Outfalls.	$ 9,370,000
29	Camden City	S340366-15	Rehabilitation of Combined Sewer Outfalls and Regulator Chambers	$ 13,330,000
31	Elizabeth City	S340942-19	Trumbull Street Flood Control Project	$ 7,700,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
36	Camden County Municipal Utilities Authority	S340640-18	Phase I upgrades, improve/sustain optimal wastewater performance **(SANDY)**	$ 84,030,000
38	North Bergen Municipal Utilities Authority	S340652-14	Woodcliff Additional Improvements	$ 23,000,000
40	Hoboken City	S340635-08	Southwest Resiliency Park - Acquisition, Rehabilitation	$ 6,600,000
40	Paterson City	S340850-05	CSO 023 Elimination- Sewer Separation at Second Avenue	$ 1,935,000
40	Paterson City	S340850-06	21st Avenue Sewer Reconstruction	$ 2,161,100
40	Paterson City	S340850-07	West Railway Sewer Reconstruction	$ 2,137,200
44	Jersey City Municipal Utilities Authority	S340928-15	Phase 3 & 4 Sewer Improvements **(SANDY)**	**$ 41,000,000**
44	Jersey City Municipal Utilities Authority	S340928-16	Sixth Street Combined Sewer Outfall **(SANDY)**	$ 9,500,000
44	Jersey City Municipal Utilities Authority	S340928-17	Regulator, Outfall and Solid Flow **(SANDY)**	$ 14,160,000
44	Jersey City Municipal Utilities Authority	S340928-18	Claremount Carteret outfall replacement **(SANDY)**	$ 5,600,000
44	Jersey City Municipal Utilities Authority	S340928-19	East Side Plant repairs, improve **(SANDY)**	$ 7,500,000
44	Jersey City Municipal Utilities Authority	S340928-20	Outfall Chambers **(SANDY)**	$ 7,200,000
52	Elizabeth City	S340942-18	Progress Street Resiliency	$ 8,200,000
55	Elizabeth City	S340942-13	Western Interceptor Modifications	$ 13,146,000
55	Elizabeth City	S340942-17	South Street Flood Control Project **(SANDY)**	$ 5,500,000
55	Elizabeth City	S345070-01	City of Elizabeth Combined Sewer Overflow Long Term Control Plan	$ 4,000,001
58	**Bayonne City**	**S340399-31**	**Stormwater Management Facilities and Park Improvements**	**$ 1,618,539**
63	Kearny Town	S340259-11	Dukes St Stormwater Pump Station	$ 17,000,000
67	Ridgefield Park Village	S345230-01	Planning for Long Term Control Plan CSO	$ 800,002
70	Paterson City	S345210-01	Investigation of Tributary Sewers from Adjacent Municipalities **(SANDY)**	$ 200,000
71	Perth Amboy City	S340435-17	Second Street Corridor Project	$ 4,418,400
72	*Bayshore Regional Sewer Authority*	*S340697-05*	*Waste Water Treatment Plant Restoration and Resiliency **(SAIL)***	*$ 28,200,000*

Rank	Sponsor	Project No.	Project Name	Estimated Cost
72	*Bayshore Regional Sewer Authority*	*S340697-06*	*Restoration / Mitigation of Blower Bldg. & Power Distribution System (SAIL)*	*$ 15,100,000*
75	Atlantic County Utilities Authority	S340809-27	Automated Bar Screen Replacement	$ 3,200,000
75	Atlantic County Utilities Authority	S340809-26	Sewage Treatment Plant Mitigation Projects	$ 1,500,000
77	Ocean County Utilities Authority	S340372-59	AW1611 Area Wide Clarifier Rehabilitation	$ 6,956,586
78	Atlantic County Utilities Authority	S340809-23	Treatment Plant Resiliency Project **(SANDY)**	$ 11,040,000
78	Atlantic County Utilities Authority	S340809-25	Seawall **(SANDY)**	$ 17,520,000
87	Hoboken City	S340635-06	Acquisition, Remediation, & Construction on 6 Acre Park & Outfall **(SANDY)**	$ 33,000,000
87	Hoboken City	S340635-07	Resilient Green Infrastructure for CSO Reduction	$ 5,000,000
94	Cliffside Park Borough	S340847-04	Combined Sewer Separation	$ 5,300,000
96	Jersey City	S340928-30	Street Cleaning Equipment	$ 2,711,000
96	Perth Amboy City	S340435-13	The Paving of Parking Lots C and RDH (GI)	$ 850,000
97	North Hudson Sewer Authority	S340952-22	W1234 Solids/Floatables (CSO)	$ 18,000,000
97	North Hudson Sewer Authority	S340952-23	Phase II Sanitary Sewer System Upgrades	$ 3,100,000
99	Jersey City Municipal Utilities Authority	S340928-22	Green Infrastructure	$ 750,000
100	North Hudson Sewer Authority	S340952-24	Rehabilitate sewers @ Hamilton Ave & JFK Blvd	$ 3,000,000
107	North Hudson Sewer Authority	S340952-28	Collection System Improvements	$ 1,700,000
111	North Hudson Sewer Authority	S340952-29	2017 River Road Wastewater Treatment Plant Improvements	$ 1,300,000
111	North Hudson Sewer Authority	S340952-30	2017 Adams Street Wastewater Treatment Plant Improvements	$ 23,200,000
111	North Hudson Sewer Authority	S345190-01	Combined Sewer Long Term Control Plan	$ 6,000,000
114	Passaic Valley Sewerage Commission	S340689-35	Administration Building Green Infrastructure Entry Plaza	$ 400,000
114	Passaic Valley Sewerage Commission	S340689-36	Green Car Wash	$ 250,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
117	Riverside Sewerage Authority	S340490-01	Primary Digester Mixing System	$ 840,000
118	Jersey City Municipal Utilities Authority	S340928-23	3 Pump Stations Flood Hardening Improvements	$ 1,846,000
121	Perth Amboy City	S340435-11	Replace pumps, relocate elect equip, to improve resiliency	$ 6,459,351
121	Perth Amboy City	S340435-14	CSO Reparation (Pulaski Ave / Parker St. / State Street)	$ 2,608,000
121	Perth Amboy City	S345220-01	CSO Permit Development of Long Term Control Plan	$ 1,000,000
127	West Milford Municipal Utilities Authority	S340701-12	Emergency Power Generator Install **(SANDY)**	$ 350,000
129	Jersey City Municipal Utilities Authority	S340928-24	Phase 1/2 Sewer Rehabilitation	$ 22,200,000
129	Jersey City Municipal Utilities Authority	S340928-27	Green Infrastructure- Martin Luther King Drive Tree Trenches	$ 500,000
130	Cumberland County Utilities Authority	S340550-07	Sewage Treatment Plant Improvements	$ 1,300,000
132	Hackensack City	S340923-12	Combined Sewer Separation, Phase 2	$ 6,000,000
132	Passaic Valley Sewerage Commission	S340689-44	Wallington Pump Station Rehabilitation Project	$ 852,605
135	Millville City	S340921-07	Wastewater Treatment Plant Upgrade Phase II	$ 12,000,000
135	Somerset Raritan Valley Sewer Authority	S340801-07	Stormwater control facility to eliminate sewage discharge	$ 20,134,080
142	Delran Township	S340794-08	Replace existing sand filter @ Waste Water Treatment Plant & rehab Twps. Fifth St Pump Station	$ 2,000,000
144	*Passaic Valley Sewerage Commission*	*S340689-23*	*Standby Power Generating Facility **(SAIL)***	*$ 150,000,000*
144	*Passaic Valley Sewerage Commission*	*S340689-37*	*Substation "M" Replacement **(SAIL)***	*$ 13,400,000*
144	Passaic Valley Sewerage Commission	S340689-38	Final Clarifier Concrete Rehabilitation Project **(SANDY)**	$ 21,000,000
144	Passaic Valley Sewerage Commission	S340689-39	Heat Treatment Plant Supernatant Return Pipe Lining **(SANDY)**	$ 4,816,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
144	*Passaic Valley Sewerage Commission*	*S340689-40*	*Plant wide Replacement & Relocation of Electrical Switchgear and MCCs **(SAIL)***	*$ 123,300,000*
144	*Passaic Valley Sewerage Commission*	*S340689-42*	*Storm Water Collection Systems **(SAIL)***	*$ 21,500,000*
144	*Passaic Valley Sewerage Commission*	*S340689-43*	*Storm Water Pumping Stations **(SAIL)***	*$ 43,600,000*
144	Passaic Valley Sewerage Commission	S345200-01	Combined Sewer Overflow Long Term Control Planning **(SANDY)**	$ 8,000,000
144	Passaic Valley Sewerage Commission	S345200-02	Asset Management Plan **(SANDY)**	$ 2,000,000
150	Passaic Valley Sewerage Commission	S340689-25	Administration Building Rehab	$ 9,100,000
150	Passaic Valley Sewerage Commission	S340689-31	Sodium Hypochlorite Storage Replacement	$ 4,000,000
150	Passaic Valley Sewerage Commission	S340689-34	Waste Pump Station Upgrades	$ 2,900,000
153	*Passaic Valley Sewerage Commission*	*S340689-41*	*Perimeter Flood Wall **(SAIL)***	*$ 97,000,000*
154	*Passaic Valley Sewerage Commission*	*S340689-30*	*Sump Pump Relocation **(SAIL)***	*$ 3,700,000*
154	Passaic Valley Sewerage Commission	S340689-32	Newark Bay Outfall **(SANDY)**	$ 10,000,000
154	*Passaic Valley Sewerage Commission*	*S340689-33*	*Weatherproof tunnel locations incl HVAC for ventilation **(SAIL)***	*$ 80,000,000*
160	Jersey City Municipal Utilities Authority	S340928-29	Carteret Ave. Sewer Replacement	$ 15,360,000
160	Jersey City Municipal Utilities Authority	S340928-31	54-inch JCMUA/PVSC FORCEMAIN REPAIR	$ 11,059,600
162	Northwest Bergen County Utilities Authority	S340700-13	STP Upgrades	$ 5,200,000
163	**Beach Haven Borough**	**S344220-01**	**Stormwater pump replacement and drainage**	**$ 2,038,640**

Rank	Sponsor	Project No.	Project Name	Estimated Cost
166	Northwest Bergen County Utilities Authority	S340700-16	Wastewater Treatment Plant Improvements	$ 3,900,000
172	Jersey City Municipal Utilities Authority	S340928-21	Sewer Pipe Replacement / Phase V Combined Sewage Overflow Study	$ 12,000,000
172	Jersey City Municipal Utilities Authority	S340928-28	Van Winkle Ave. San. Sewer Rehab.	$ 2,300,000
176	**Gloucester City**	**S345090-01**	**Combined Sewer Overflow Asset Management Plan**	**$ 1,000,000**
177	Gloucester City	S340958-08	Various Sewer Projects	$ 2,100,000
183	Cinnaminson Sewerage Authority	S340170-07	Sewer Treatment Plant Improvements	$ 9,000,000
188	Roxbury Township	S340381-07	Treatment Plant & Pump Station Improvements	$ 7,500,000
190	Berkeley Township	S344020-02	Water Quality Retention Basin at Moorage Park	$ 905,063
191	Allentown Borough	S340567-05	Sewer Plant Modifications	$ 3,112,994
195	Raritan Township Municipal Utilities Authority	S340485-12	Main Treatment Plant Improvements 2016	$ 4,900,000
198	Gloucester County Utilities Authority	S340902-14	Bio-Solids Handling Facility Upgrade to CHP **(SANDY)**	$ 45,000,000
202	Gloucester County Utilities Authority	S340902-15	Combined Heat & Power	$ 7,250,000
202	Stony Brook Regional Sewer Authority	S340400-10	Dewatered Sludge Handling Pump Replacement Project	$ 5,100,000
203	Stafford Township	S344100-03	Neptune Basin Expansion	$ 5,600,000
209	Rutgers University	S340500-01	Busch Cogeneration Plant Upgrade	$ 32,400,000
209	Rutgers University	S340500-02	Upgrade of RBHS co-Generation Plant	$ 44,501,400
213	North Wildwood City	S340663-07	Street and Utility Reconstruction - Sewer **(SANDY)**	$ 32,872,570
214	Gloucester County Utilities Authority	S340902-16	Primary Clarifier Equipment Replacement	$ 2,100,000
214	Seaside Park Borough	S344200-02	Barnegat Bay Watershed. Green Infra. Reconstruction of Parking Lots 1-3	$ 2,800,000
220	Howell Township	S344040-02	Freewood Acres & Route 9 Sanitary Sewer Extension	$ 14,500,000
229	Little Egg Harbor Township	S344060-02	Twin Lakes Blvd. Drainage Improvements	$ 4,200,000
231	Hightstown Borough	S340915-05	UV Disinfection System	$ 1,400,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
237	New Jersey Water Supply Authority	S340421-02	Round Valley Reservoir Structures Refurbishment and Resource Preservation	$ 82,822,000
237	Ocean County	S344080-10	Camera Pipe Line Inspection Truck System - Equipment	$ 250,000
237	Ocean County	S344080-11	Mechanical Street Sweeper - Equipment	$ 350,000
239	Rockaway Valley Regional Sewer Authority	S340821-07	Rehab four existing final clarifiers	$ 8,200,000
241	Ocean County	S344080-09	Manufactured Treatment Devices	$ 1,300,000
242	Western Monmouth Utilities Authority	S340128-06	Pine Brook Sewage Treatment Plant Improvements	$ 12,100,000
249	Point Pleasant Beach Borough	S344190-02	Little Silver Lake Drainage Improv. Project	$ 3,000,000
250	Ocean Gate Borough	S344180-01	Storm Sewer MTD	$ 2,600,000
258	*Kearny Municipal Utilities Authority*	*S340259-07*	*Pump Station Rehabilitation **(SAIL)***	*$ 6,500,000*
259	Northwest Bergen County Utilities Authority	S340700-17	Security System Upgrades	$ 800,000
266	Mendham Township	S340477-01	Mendham East Wastewater Treatment Facility Conversion	$ 2,500,000
267	Cumberland County Utilities Authority	S340550-08	Pump Station Replacement & Improvements	$ 1,300,000
268	Manasquan River Regional Sewerage Authority	S340911-03	Equipment Replacement	$ 660,000
275	Princeton Borough	S340656-08	System-wide Sanitary Sewer Rehabilitation	$ 4,300,000
278	Tuckerton Borough	S340034-03	Heron Road Sewer Main Replacement Project	$ 1,405,206
284	Willingboro Municipal Utilities Authority	S340132-08	Collection System Resiliency **(SANDY)**	$ 1,900,000
287	Little Egg Harbor Municipal Utilities Authority	S340579-02	Twin Lakes Blvd Sewer Main Replacement	$ 3,300,000
287	Little Egg Harbor Municipal Utilities Authority	S340579-03	Little Egg Harbor Sewer Main Replacement	$ 7,700,000
296	Monmouth County Bayshore Outfall Authority	S340325-04	Force Main Assessment and Rehabilitation	$ 2,600,000
302	Montclair Township	S340837-04	Sanitary Sewers refurbishment 2017	$ 1,700,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
304	*Middlesex County Utilities Authority*	*S340699-12*	*Restoration and Flood Mitigation **(SAIL)***	*$ 93,000,000*
304	*Middlesex County Utilities Authority*	*S340699-13*	*Restoration and Flood Mitigation **(SAIL)***	*$ 40,000,000*
304	Pleasantville City	S340752-03	Pleasantville Various Projects	$ 3,135,562
309	Middlesex County Utilities Authority	S340699-14	Main Truck Sewer Rehab Phase II	$ 18,250,000
315	Atlantic County Utilities Authority	S340809-24	Pump Station Resiliency	$ 800,000
315	Atlantic County Utilities Authority	S340809-29	Replace a portion of Brigantine Force Main	$ 4,300,000
325	Franklin Township Sewerage Authority	S340839-07	Foxwood Drive Area - South Crossing I&I Reduction	$ 1,960,000
327	Rockaway Valley Regional Sewer Authority	S340821-06	Old Jersey Trunk Sewer Replacement	$ 8,000,000
338	Brick Township Municipal Utilities Authority	S340448-11	Wastewater Pump Station Rehabilitation - Phase II	$ 5,278,297
339	Winslow Township	S340895-10	Various Sanitary Sewer System Rehab	$ 1,517,473
341	Northwest Bergen County Utilities Authority	S340700-14	Midland Park Force Main Installation	$ 3,694,000
341	Northwest Bergen County Utilities Authority	S340700-15	Wastewater Pump Station Improvements	**$ 7,000,000**
343	Rockaway Valley Regional Sewer Authority	S340821-09	West Main Street Sewer Repair	$ 2,200,000
346	Western Monmouth Utilities Authority	S340128-05	Route 79 Pump Station and Force Main Replacement	$ 4,300,000
348	Old Bridge Municipal Utilities Authority	S340945-14	2015 Sewage Pump Station Upgrades	**$ 2,610,000**
357	*South Monmouth Regional Sewer Authority*	*S340377-03*	*Pump Station Improvements **(SAIL)***	*$ 9,137,611*
357	*South Monmouth Regional Sewer Authority*	*S340377-04A*	*Pump Station Improvements **(SAIL)***	*$ 6,981,600*
357	*South Monmouth Regional Sewer Authority*	*S340377-05*	*Belmar Pump Station Improvements **(SAIL)***	*$ 3,500,000*
360	Burlington Township	S340712-16	Sanitary Sewer Rehabilitation	$ 960,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
360	Vernon Township	S340745-03	Vernon Township Asset Management Assessment and Plan Plan	$ 100,000
368	Egg Harbor Township Municipal Utilities Authority	S340753-06	FAA Pump Station Reconstruction	$ 700,000
373	Ocean Township Sewer Authority	S340750-13	2016 Collection System Improvements	$ 550,000
373	Ocean Township Sewer Authority	S340750-14	Asbury Avenue and Longview Pump Stations Rehabilitation	$ 2,500,000
376	Ocean Township Sewer Authority	S340750-11	Collection System Improvements	$ 6,500,000
381	Ocean Township Sewer Authority	S340750-12	Interlaken Pump Station reconstruction **(SANDY)**	$ 4,100,000
390	Ocean County Utilities Authority	S340372-58	AW1610 South Island Beach Interceptor (CI-1A) and South Island Interceptor (SI-11) Rehabilitation	**$ 4,431,000**
395	Middlesex Borough	S340698-02	Sanitary Sewer Main Improvements	$ 2,568,750
398	Raritan Township Municipal Utilities Authority	S340485-11	HCRHS Sewer Relocation Project	$ 500,308
403	West Deptford Township	S340947-05	Replacement of Pump Stations 4 and 6	$ 1,300,000
407	Roselle Borough	S340332-02	Cleaning & lining of sanitary sewer	$ 3,800,000
420	North Haledon Borough	S340229-02	Small System Asset Management Plan	$ 100,000
427	Emerson Borough	S340497-01	Small System Asset Management Plan	$ 100,000
442	Glen Ridge Borough	S340861-03	GR-Procurement-Sewer Cleaning Truck	$ 445,849
447	Brigantine City	S340827-04	Emergency Generators **(SANDY)**	$ 3,300,000
448	Ocean Township	S340112-07	Sewer Improvements	$ 3,000,000
452	Runnemede Borough	S340363-06	Sanitary Sewer slip-lining at various locations	$ 1,800,000
481	Bradley Beach Borough	S340472-01	Sewer Main Installation and Repairs - Phase I	$ 2,700,000
484	Medford Lakes Borough	S340319-03	Collection System Lining Improvements	$ 11,000,000
492	Long Beach Township	S340023-07	Sewer Main Replacement	$ 4,600,000
498	**Passaic Valley Sewerage Commission**	**S340689-45**	**Sludge Storage Improvements**	**$ 1,324,808**

Rank	Sponsor	Project No.	Project Name	Estimated Cost
498	**Passaic Valley Sewerage Commission**	**S340689-46**	**Decant Facility Improvements**	**$ 439,610**
503	Sussex Borough	S340155-02	Sewer Force Main	$ 550,000
511	Ship Bottom Borough	S340311-03	Sewer Main Replacement Project	**$ 4,650,000**
518	Gloucester County Utilities Authority	S340902-13	Incinerator #2 Upgrades	$ 14,040,000
518	Gloucester County Utilities Authority	S340902-17	Sludge Drying System	$ 10,000,000
523	Atlantic County Utilities Authority	S340809-28	Sewer Sludge Incinerator Improvements	$ 4,100,000
532	Somerset Raritan Valley Sewer Authority	S340801-08	Rehab of Sludge Incinerator #2	$ 16,500,000
538	North Wildwood City	S340663-08	Street and Utility Reconstruction - Stormwater **(SANDY)**	$ 32,872,570
539	Milltown Borough	S340102-05	Flood Mitigation Borough of Milltown Municipal Complex Relocation	$ 13,726,000
547	Plumsted Township	S340607-03	Advanced WW treatment & collection system	$ 27,000,000
612	Woolwich Township	S340432-01	New Collection System & Treatment	$ 15,092,956
622	Secaucus Town	S340029-04	Born street pump station Improvements **(SANDY)**	$ 2,600,000
629	Cinnaminson Sewerage Authority	S340170-08	Taylor's Lane Sewer Extension **(SANDY)**	$ 1,160,000
629	Greenwich Township	S340359-02	Installation of a collector sewer in vicinity of the Village of Stewartsville	$ 2,200,000
634	Cumberland County	S340438-01	Downe Wastewater Infrastructure	$ 16,000,000
660	Aberdeen Township	S340869-02	Sanitary Sewer and PS Upgrades	$ 9,000,000
673	Montclair Township	S340837-03	Sanitary Sewer Collection System Rehabilitation-SFY 2016	$ 1,700,000
675	**Dunellen Borough**	**S340916-03**	**Flood Mitigation Project**	**$ 2,599,998**
682	Logan Township Municipal Utilities Authority	S340123-01	0.50 MGD Water Reclamation Facility Expansion	$ 8,100,000
696	Little Egg Harbor Township	S340579-04	Mystic Island Drainage Improvements - Phase 2	$ 1,714,000
700	Burlington City	S340140-01	Stormwater Pump upgrades	$ 1,700,000
704	Wildwood City	S340664-05	Stormwater Remediation of Pacific Avenue	$ 15,300,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
705	West Wildwood Borough	S340626-05	Storm Sewer Improvements to Avenues P, Q, R, S & Mueller Avenue	$ 1,890,000
706	Cranford Township	S340858-04	Stormwater constr. various locations to improve drainage/prevent flooding	$ 12,000,000
712	**Berkeley Township**	**S340969-12**	**Stormwater/Equipment**	**$ 706,150**
712	New Jersey Water Supply Authority	S340421-01	D&R Canal Dredging	$ 56,800,000
720	Princeton Borough	S340656-10	Cherry Valley Road Improvement Project	$ 2,068,160
727	Middletown Township	S340097-01	Shadow Lake Restoration Project	$ 4,500,000
730	Gloucester Township	S340364-11	Flood Mitigation **(SANDY)**	$ 1,700,000
730	Gloucester Township	S340364-15	Gloucester Township Stormwater Improvements	$ 1,450,000
750	Carteret Borough	S340939-09	Noe Street Stormwater Pump Station Construction **(SANDY)**	$ 15,010,000
768	Somers Point City	S340618-02	Stormwater Improvements	$ 5,500,000
772	Ventnor City	S340667-03	Flood Walls **(SANDY)**	$ 2,000,000
776	Brigantine City	S340827-05	Flood Control and Pump Station Improvements **(SANDY)**	$ 4,600,000
776	Brigantine City	S340827-06	Municipal System Improvements	$ 1,001,066
788	Riverdale Borough	S340729-02	Equipment Purchase	$ 289,789
793	Paulsboro Borough	S340164-01	Replace storm sewer along Thomson & Wood Aves.	$ 2,750,000
800	Highlands Borough	S340901-03	Stormwater System Improvements (Current Project)	$ 6,250,000
810	Bradley Beach Borough	S340472-02	Bradley Boulevard Stormwater Rehab	$ 2,590,050
819	Sea Girt Borough	S340468-01	Upgrade Pipes and Baltimore Blvd & Neptune Place outfall	$ 4,900,000
824	Avon By The Sea Borough	S340335-03	Sylvan Lake Water Quality Project	$ 12,488,850
838	Seaside Park Borough	S340083-03	Decommissioning of Well #7	$ 103,000
840	Secaucus Town	S342021-01	Malanka Landfill Closure	$ 22,600,000
847	Jersey City Redevelopment Agency	S340928-25	Jersey Avenue Park Redevelopment Plan - Phase 1/2	$ 14,069,063
847	Jersey City Redevelopment Agency	S340928-26	Jersey Avenue Park Redevelopment Plan - Phase 2	$ 12,600,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
850	Bellmawr Borough	S342011-02	Waterfront Development Remediation	$ 68,400,000
862	Edison Township	S342020-01	Edison Landfill Closure	$ 13,000,000
921	Kearny Town	S340259-12	Redev of recreational complex as a modern artificial turf complex	$ 18,200,000
930	Gloucester County Improv. Authority	S342024-01	Cell Construction	$ 8,000,000
931	Asbury Park City	S340883-08	Sewer Plant	$ 63,000,000
934	Carteret Borough	S340939-07	Dredge sediment & construct bulkhead / slope stabilization	$ 9,000,000
934	Sussex County Municipal Utilities Authority	S342008-05	Landfill Life Extension Project	$ 13,000,000
936	Camden County PCFA	S342025-01	Pennsauken Sanitary Landfill Expansion and Liner Enhancement Project	$ 14,060,804
950	Milltown Borough	S340102-01	Milltown Ford Ave Redevelopment	$ 21,000,000
950	Milltown Borough	S340102-04	Ford Avenue Redevelopment	$ 5,500,000
962	Somerville Borough	S342013-01	Green Seam Restoration	$ 11,500,000
Sandy and Base SFY2018/2019 CW Projects #:		**237**	**Subtotal:**	**$ 2,704,832,815**
Total Clean Water Projects #:		**244**	**Total Clean Water Projects:**	**$ 2,716,346,815**

Appendix B-1
Drinking Water (by Alphabetical Order)

Combined Base SFY2019/Superstorm Sandy Interim Drinking Water Financing Program Project Priority List and
Third Amended SFY2018 Interim Drinking Water Financing Program Project Priority List

KEY: Green = New projects or increases in project costs since the Second Amended SFY2018 Interim Financing Program Project Priority List are identified

Supplemental Funding				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
	North Jersey District Water Supply Commission	1613001-017-1	Wanaque South Pump Station Upgrade	$ 3,600,000
	Supplemental Loans #:	**1**	**Supplemental Total:**	**$ 3,600,000**

Base Program & Superstorm SANDY Projects				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
343	Aberdeen Township	1330004-001	Woodfield Area Water System Rehabilitation	$ 3,900,000
14	ADTI Housing Corporation	2103002-001	Chlorination system	$ 400,000
376	Allentown Borough	1302001-002	Elevated Water Tank Improvements	$ 549,100
488	Allentown Borough	1302001-003	Water Meter Replacement	$ 664,938
184	Allentown Borough	1302001-004	Water Treatment Plant Improvements	$ 2,328,960
44	Atlantic City Municipal Utilities Authority	0102001-006	1 MG Storage Tank Sand Blasting and painting	$ 2,100,000
394	Bayonne Municipal Utilities Authority	0901001-006	Aqueduct Replacement	$ 12,000,000
147	Bellmawr Borough	0404001-005	Improvements to WTP	$ 500,000
224	Bellmawr Borough	0404001-006	Various Water System Improv.	$ 2,300,000
185	Berkeley Township Municipal Utilities Authority	1505004-009	Installation of new well #4 with WM to connect to WTP	**$ 2,200,000**
180	Berkeley Township Municipal Utilities Authority	1505004-007	Well #4 Phase II Production Well	$ 700,000
243	Bordentown City	0303001-008	Upgrade Treatment Plant	$ 2,200,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
472	Brick Township Municipal Utilities Authority	1506001-012	Meter Replacement	$ 5,420,000
293	Brick Township Municipal Utilities Authority	1506001-009	Breton Woods Water Main Replacement - Phase I	$ 5,928,760
251	Brick Township Municipal Utilities Authority	1506001-007	Chlorine Disinfection System Relocation	$ 3,800,000
295	Brick Township Municipal Utilities Authority	1506001-010	Hydrant Replacement in Baywood Section	$ 1,160,000
183	**Brick Township Municipal Utilities Authority**	**1506001-011**	**Granular Activated Carbon Treatment Addition**	**$ 20,890,000**
293	Brick Township Municipal Utilities Authority	1506001-008	Undersized Water Main Replacement Cedar Park East and West	$ 6,550,000
428	Brigantine City	0103001-501	Installation of generators @ well **(SANDY)**	$ 2,900,000
95	Camden City	0408001-022	Install potable wells/flr elevations @ Morris Delair WTP	$ 1,400,000
74	Camden City	0408001-021	New Auto Meter Reading Equip for entire City	$ 1,800,000
196	Cape May City	0502001-004	Well 5 Replacement for the Sands Aquifer	$ 2,200,000
244	Clementon Borough	0411001-001	Rehab of Gibbsboro Water Main (White Horse Pike & White Horse Rd.)	$ 500,000
483	Clementon Borough	0411001-002	Rehab of well 9 including slip lining to improve conveyance	$ 1,400,000
356	Clinton Town	1005001-006	Lebanon Borough Water Main Replacements - Phase II through Phase V	$ 4,300,000
542	Clinton Town	1005001-007	Replace Water Meters	$ 4,277,804
255	Clinton Town	1005001-008	Well #4 Water Production Facility	$ 1,500,000
558	Clinton Town	1005001-009	Well #7 Improvements & Well #14 Decommissioning	$ 1,200,000
267	**East Greenwich**	**0803001-004**	**Installation of Filtration System at Well #3**	**$ 2,280,200**
32	East Orange City	0705001-014	Water System Improvement and Resiliency Project 2017	$ 33,000,000
377	Elmer Borough	1702001-001	Water Storage Tower Repaint and Repairs	$ 800,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
254	Evesham Municipal Utilities Authority	0313001-001	Wells 13 & 14 Treatment Improvements	$ 2,100,000
276	**Flemington Borough**	**1009001-009**	**Water Tank Construction and Various Improvements**	**$ 4,500,000**
237	Gloucester City	0414001-022	Replacement of 1,200 LF of 8" cast iron main on Brown Street	$ 1,200,000
499	Hampton Borough	1013001-001	New back up well 5 to address firm capacity requirements	$ 1,800,000
495	**Hardyston Municipal Utility Authority**	**1911006-001**	**Water Meter Replacement**	**$ 477,400**
290	**Hardyston Municipal Utility Authority**	**1911006-002**	**Water Tank Refurbishment**	**$ 966,000**
587	**Hardyston Municipal Utility Authority**	**1911006-003**	**Asset Management Plan**	**$ 100,000**
582	Harvey Cedars Borough	1509001-002	Installation of a Water Monitoring Well	$ 1,100,000
380	Hightstown Borough	1104001-010	2017 Water Main Improvements	$ 1,775,678
195	Hoboken City	0905001-001	Washington St. Water Main / Green Infrastructure Drainage Improv.	$ 8,500,000
304	**Hoboken City**	**0905001-002**	**Water Main Upgrades**	**$ 5,570,625**
193	Jackson Township Municipal Utilities Authority	1511001-010	Demolition of Facilities, Replace Storage Tank, Well #3	$ 8,200,000
455	Jackson Township Municipal Utilities Authority	1511001-011	Improvements to Manhattan St Complex, Garage & Admin Bldg.	$ 1,600,000
182	Jackson Township Municipal Utilities Authority	1511001-013	Six Flags Great Adventure Water Treatment Plant Replacement	$ 13,194,799
404	Jackson Township Municipal Utilities Authority	1511001-012	Western Water Main Extension	$ 11,000,000
279	**Jersey City Municipal Utilities Authority**	**0906001-017**	**Boonton Plant Centrifuge**	**$ 1,566,216**
179	Jersey City Municipal Utilities Authority	0906001-016	Large Valve Replacement Program-Phase 2	$ 7,321,200
205	Jersey City Municipal Utilities Authority	0906001-015	Van Winkle Ave. Water Main Replacement	$ 3,589,266
279	**Jersey City Municipal Utilities Authority**	**0906001-018**	**Tonnele Avenue Water Main Replacement and Relining**	**$ 7,442,800**
293	**Jersey City Municipal Utilities Authority**	**0906001-009**	**Burma Road Area Water System Improvements**	**$ 2,770,000**
139	Jersey City Municipal Utilities Authority	0906001-010	Journal Square North Cleaning	$ 16,900,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
398	Jersey City Municipal Utilities Authority	0906001-013	Remote Meter Reading (AMI)	$ 9,300,000
139	Jersey City Municipal Utilities Authority	0906001-006	Transmission Main Install	$ 19,000,000
139	Jersey City Municipal Utilities Authority	0906001-012	Water Main Replacement	$ 18,000,000
207	Kearny Town	0907001-001A	Water Facility and ground Improv. program	$ 29,000,000
87	Lakehurst Borough	**1513001-002**	Water Main Replacement Project Phase I	$ 1,084,633
360	Lavallette Borough	1515001-001	Water Storage Tank Repainting	$ 1,331,000
102	Little Egg Harbor Municipal Utilities Authority	1516001-004	Twin Lakes Water Main Replacement	$ 3,000,000
105	Little Egg Harbor Municipal Utilities Authority	1516001-005	Little Egg Harbor Water Improvements Phases I	$ 6,609,594
524	Little Egg Harbor Municipal Utilities Authority	1516001-500	Radio Road Water Treatment Plant **(SANDY)**	$ 1,000,000
524	Little Egg Harbor Municipal Utilities Authority	1516001-003	Water Treatment Plant at High Ridge Rd **(SANDY)**	$ 4,750,000
300	Long Beach Township	1517001-015	Water Main Replacement Project	$ 4,159,201
257	Long Beach Township	1517001-501	Brant Beach Water Plant **(SANDY)**	$ 2,300,000
257	Long Beach Township	1517001-502	Raise Well 4, reconstruct filter room & pumps	**$ 11,500,000**
104	Lower Township Municipal Utilities Authority	0505002-003	Villas East Phase 2 and Lower Cape May Regional water main extensions	$ 6,923,406
396	Manasquan Borough	1327001-002	Construction of 600 LF of WM on Perrine Blvd & Mallard Park Area **(SANDY)**	$ 1,469,468
214	Manchester Township	1518005-003	Install automated meters	$ 2,600,000
103	Manchester Township	1518005-002	Repaint and repair one MG elevated storage facility	$ 5,500,000
433	Mantua Township MUA	0810004-003	Water Tank Rehabilitation	$ 1,400,000
567	Mantua Township MUA	0810004-002	Well Rehabilitation	$ 1,800,000
174	Maple Shade Township	0319001-006	Maple Shade Township Meter Upgrade	$ 2,600,000
555	**Marlboro Township**	**1328002-004**	**New Stand-by Well SA**	**$ 1,380,840**
150	Middlesex Water Company	1225001-016	Renew 2015 - C&L of Water Mains - Edison	$ 5,700,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
326	Middlesex Water Company	1225001-023	Renew 2016, C&L of Water Mains, Replace Non-Copper Services	$ 8,000,000
60	Middlesex Water Company	1225001-028	RENEW 2018 - Carteret	$ 11,200,000
266	Middlesex Water Company	1225001-029	CJO Plant Upgrade - DBP Removal Treatment	$ 27,244,974
404	Middlesex Water Company	1225001-024	New Interconnection of PS, New Table Type Chlorinators	$ 3,600,000
152	Middlesex Water Company	1225001-026	Renew 2017	$ 13,000,000
250	Middlesex Water Company	1225001-025	Western Transmission Main	$ 41,000,000
289	Milltown Borough	1212001-002	Ford Ave Redevelopment	$ 1,606,000
331	Milltown Borough	1212001-003	Ford Ave Redevelopment Agency Borough	$ 1,384,000
369	Milltown Borough	1212001-005	Water Storage Tank Rehabilitation	$ 1,800,000
451	Montclair Township	0713001-011	New 1.0MG High Zone Tank	$ 3,600,000
557	Montclair Township	0713001-008	Nishuane Well Production & Treatment Facility	$ 2,300,000
428	Mount Arlington Borough	1426005-001	Mount Arlington Asset Management Plan	$ 103,000
282	National Park Borough	0812001-004	Replacement of Wells 5 & 6	$ 1,700,000
166	Netcong Borough	1428001-009	Meter Upgrades	$ 400,000
128	Netcong Borough	1428001-008	Rehabilitate existing storage facilities	$ 1,100,000
100	Netcong Borough	1428001-007	Replace WM on Rte. 46, extend WM on Rte. 80, replace meters	$ 3,700,000
22	New Brunswick City	1214001-005	Water Treatment Plant Improvements	$ 15,500,000
23	Newark City	0714001-016	Pequannock Water Treatment Plant Rehab	**$ 14,000,000**
83	Newark City	0714001-018	Replacement of Water Distribution Mains	$ 4,800,000
33	Newark City	0714001-017	Water Distribution System Upgrades	$ 2,000,000
66	Newark City	0714001-500	Wayne & Clifton PS Generators **(SANDY)**	$ 5,100,000
255	NJ American Water Company	1345001-021	Swimming River WTP 2nd Clearwell	$ 22,117,195
113	NJ American Water Company, Incorporated	1345001-016	Sunset Road Treatment Plant Expansion	$ 13,500,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
311	NJ American Water Company, Incorporated	1345001-019	Howell-Lakewood Transmission Main	$ 60,000,000
403	NJ American Water Company, Incorporated	2004002-013	RM WTP Emergency Generator	$ 16,000,000
113	NJ American Water Company, Incorporated	1345001-018	Oak Glenn Treatment Plant Expansion	$ 36,994,400
9	NJ American Water Company, Incorporated	1345001-017	Oak Street Treatment Plant Improvements	$ 10,100,000
103	NJ American Water Company, Incorporated	0712001-016	NJ American Water Lead Service Line Replacement Program PWSID 0712001	$ 6,576,000
440	NJ American Water Company, Incorporated	2004002-500	Raritan Millstone WTP Flood Wall	$ 36,000,000
144	NJ American Water Company, Incorporated	2004002-011	Raw Water Pump Improvements (Treatment Plant)	$ 12,800,000
275	NJ American Water Company, Incorporated	2004002-012	NJ American Water Lead Service Line Replacement Program PWSID 2004002	$ 8,974,000
51	North Jersey Dist. Water Supply Comm.	1613001-029	Basins 1-4 Flocculator Rehabilitation	$ 2,900,000
51	North Jersey Dist. Water Supply Comm.	1613001-022	Basins 5 & 6 Rehabilitation	$ 17,000,000
51	North Jersey Dist. Water Supply Comm.	1613001-027	Expansion of Aeriation System	$ 2,300,000
51	North Jersey Dist. Water Supply Comm.	1613001-028	Filter Bldg. Pipe Gallery Dehumidify	$ 2,000,000
51	North Jersey Dist. Water Supply Comm.	1613001-026	Low Lift Gas Pump **(SANDY)**	$ 12,900,000
208	North Jersey Dist. Water Supply Comm.	1613001-030	Modify and Expand Central Receiving Building	$ 2,364,000
51	North Jersey Dist. Water Supply Comm.	1613001-031	Purchase and Install New Dewatering System	$ 3,800,000
51	North Jersey Dist. Water Supply Comm.	1613001-025	Recycle Clear Phase to the Head of the Treatment Plant	$ 7,300,000
91	North Jersey Dist. Water Supply Comm.	1613001-035	Rehabilitation of Pump Stations	$ 3,800,000
51	North Jersey Dist. Water Supply Comm.	1613001-032	Rehabilitation of Treatment Facility	$ 3,600,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
111	North Jersey Dist. Water Supply Comm.	1613001-033	Security Enhancements Project - Orechio Dr Complex	$ 4,100,000
111	North Jersey Dist. Water Supply Comm.	1613001-034	Security, IT and Safety Projects	$ 1,600,000
11	North Shore Water Association	1904004-001	Existing Well Requires Replacement	$ 500,000
384	North Shore Water Association	1904004-002	Water System Refurb	$ 453,900
11	North Shore Water Association	1904004-004	Water System Refurb	$ 200,000
231	**Oak Ridge Senior Housing Community**	**1414008-001**	**Water Line Upgrades**	**$ 530,300**
566	Oakland Borough	0220001-001	Construct new well 10A as backup for well 10	$ 3,133,000
477	Oakland Borough	0220001-003	diesel generator for well 9 **(SANDY)**	$ 3,133,000
432	Oakland Borough	0220001-004	Rehab of Iroquois Pumping Station	$ 3,133,000
541	Oakland Borough	0220001-002	Replace 4600 water meters	$ 3,133,000
280	Ocean Township	1520001-007	Pebble Beach Water Main Replacement	$ 1,400,000
336	Old Bridge Municipal Utilities Authority	1209002-013	Knollcroft Water Main Rehabilitation	$ 3,562,000
590	Old Bridge Municipal Utilities Authority	1209002-014	Perrine Road Carbon Absorber Facility	$ 1,750,000
4	Passaic Valley Water Commission	1605002-014	Phase I - Levine Reservoir Water Storage Improvements	$ 26,100,000
2	Passaic Valley Water Commission	1605002-025	Water Storage Improvements Phase 1 - Standby Emergency Generators **(SANDY)**	$ 36,600,000
106	Paulsboro Borough	0814001-003	Water Main Replacement (Thomson, Wood, Eliz. and Commerce St.)	$ 2,800,000
371	Pennington Borough	1108001-002	Water Distribution Upgrades	$ 1,250,000
339	Perth Amboy City	1216001-500	Install New Stand-by Generator for Runyon Water Treat. Plant **(SANDY)**	$ 2,750,000
171	Perth Amboy City	1216001-009	The Replacement of Water Meters Project	**$ 1,770,000**
527	Point Pleasant Beach Borough	1525001-001	Water Meter Replacement Project	$ 1,930,000
173	Rahway City	2013001-007	Water Treatment Plant Filter System Upgrade	$ 18,200,000
478	Red Bank Borough	1340001-002	Water Plant Improvements at Chestnut Street and Tower Hill	$ 2,000,000
31	Saddle Brook Township	0257001-002	North Fifth Street Water Main	$ 1,900,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
21	Sea Village Marina LLC/NJ American Water Co.	0108021-002	Water Main Extension	$ 1,202,000
599	Seaside Park Borough	1527001-004	Well #10 Treatment Facility	$ 900,900
245	Ship Bottom Borough	1528001-002	Water main Replacement Project	$ 3,750,000
516	South Orange Village	0719001-004	Farrell Field (Walton Ave & Audley St.) Interconnection Rehab.	$ 150,000
516	South Orange Village	0719001-003	South Orange Ave and Holland Road Interconnection Rehabilitation	$ 150,000
559	South Orange Village	0719001-001	Well 17 Rehabilitation	$ 250,000
577	**Spotswood Borough**	**1224001-001**	**Water Master Pan**	**$ 85,265**
367	Spotswood Borough	1224001-001	Cleaning and lining of approximately 3,600 LF of water mains	$ 3,443,914
122	Stafford Township	1530004-018	Mill Creek Road and Paul Boulevard Water Main Replacement	$ 2,400,000
282	Stafford Township	1530004-019	Mill Creek Water Main Replacement Phase II	$ 1,900,000
109	Sussex Borough	1921001-005	Lake Rutherford Water Line Installation Project	$ 1,221,600
190	Sussex Borough	1921001-004	Water Meter Replacement Project	$ 450,000
238	Sussex Borough	1921001-006	Water Systems Enhancements	$ 250,000
188	Trenton City	1111001-010	Rehabilitation of Distribution System by C&L of Mains	$ 10,500,000
239	Tuckerton Borough	1532002-006	Heron Road Water Main Replacement Project	$ 1,470,150
216	Vineland City	0614003-017	2016 Water Distribution Rehabilitation Project	$ 3,100,000
522	Vineland City	0614003-016	Well No. 17 Treatment Facility	$ 9,000,000
159	Wall Township	1352003-001	Route 138 Water Main Improvements	$ 1,800,000
157	Wall Township	1352003-002	Route 34 Water Main Improvements	$ 3,700,000
410	Washington Township Municipal Utilities Authority	0818004-010	New Pump Houses at Well #2 & Well #8	$ 1,900,000
7	Willingboro Municipal Utilities Authority	0338001-009	Well 5A Radium Treatment Facility	$ 7,000,000
172	Willingboro Municipal Utilities Authority	0338001-011	Well No. 6 Water Treatment Plant Upgrade	$ 10,621,600
448	Wonder Lakes Properties, Inc.	1615017-003	Replace hydro-pneumatic tank and install new tank	$ 30,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
78	Woodbine Borough	0516001-001	WTP Upgrade and water main extension	$ 3,239,500
393	Woodland Heights Homeowners Association	1615022-001	Well Rehabilitation/System Improvements	$ 560,000
Sandy and Base SFY2018/2019 DW Projects #:		**163**	**Subtotal:**	**$ 1,008,398,586**
Total Drinking Water Projects #:		**164**	**Subtotal:**	**$ 1,011,998,586**
Total Number of Projects (CW, DW & Supplement) #:		**408**	**Total Project Costs (CW, DW and Supplemental:**	**$ 3,728,345,401**

Appendix B-2
Drinking Water (by Ranked Order)

Combined Base SFY2019/Superstorm Sandy Interim Drinking Water Financing Program Project Priority List and
Third Amended SFY2018 Interim Drinking Water Financing Program Project Priority List

KEY: Green = New projects or increases in project costs since the Second Amended SFY2018 Interim Financing Program Project Priority List are identified

Supplemental Funding				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
	North Jersey District Water Supply Commission	1613001-017-1	Wanaque South Pump Station Upgrade	$ 3,600,000
	Supplemental Loans #:	**1**	**Supplemental Total:**	**$ 3,600,000**

Base Program & Superstorm SANDY Projects				
Rank	**Sponsor**	**Project No.**	**Project Name**	**Estimated Cost**
2	Passaic Valley Water Commission	1605002-025	Water Storage Improvements Phase 1 - Standby Emergency Generators **(SANDY)**	$ 36,600,000
4	Passaic Valley Water Commission	1605002-014	Phase I - Levine Reservoir Water Storage Improvements	$ 26,100,000
7	Willingboro Municipal Utilities Authority	0338001-009	Well 5A Radium Treatment Facility	$ 7,000,000
9	NJ American Water Company, Incorporated	1345001-017	Oak Street Treatment Plant Improvements	$ 10,100,000
11	North Shore Water Association	1904004-001	Existing Well Requires Replacement	$ 500,000
11	North Shore Water Association	1904004-004	Water System Refurb	$ 200,000
14	ADTI Housing Corporation	2103002-001	Chlorination system	$ 400,000
21	Sea Village Marina LLC/NJ American Water Co.	0108021-002	Water Main Extension	$ 1,202,000
22	New Brunswick City	1214001-005	Water Treatment Plant Improvements	$ 15,500,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
23	Newark City	0714001-016	Pequannock Water Treatment Plant Rehab	**$ 14,000,000**
31	Saddle Brook Township	0257001-002	North Fifth Street Water Main	$ 1,900,000
32	East Orange City	0705001-014	Water System Improvement and Resiliency Project 2017	$ 33,000,000
33	Newark City	0714001-017	Water Distribution System Upgrades	$ 2,000,000
44	Atlantic City Municipal Utilities Authority	0102001-006	1 MG Storage Tank Sand Blasting and painting	$ 2,100,000
51	North Jersey Dist. Water Supply Comm.	1613001-029	Basins 1-4 Flocculator Rehabilitation	$ 2,900,000
51	North Jersey Dist. Water Supply Comm.	1613001-022	Basins 5 & 6 Rehabilitation	$ 17,000,000
51	North Jersey Dist. Water Supply Comm.	1613001-027	Expansion of Aeriation System	$ 2,300,000
51	North Jersey Dist. Water Supply Comm.	1613001-028	Filter Bldg. Pipe Gallery Dehumidify	$ 2,000,000
51	North Jersey Dist. Water Supply Comm.	1613001-026	Low Lift Gas Pump **(SANDY)**	$ 12,900,000
51	North Jersey Dist. Water Supply Comm.	1613001-031	Purchase and Install New Dewatering System	$ 3,800,000
51	North Jersey Dist. Water Supply Comm.	1613001-025	Recycle Clear Phase to the Head of the Treatment Plant	$ 7,300,000
51	North Jersey Dist. Water Supply Comm.	1613001-032	Rehabilitation of Treatment Facility	$ 3,600,000
60	Middlesex Water Company	1225001-028	RENEW 2018 - Carteret	$ 11,200,000
66	Newark City	0714001-500	Wayne & Clifton PS Generators **(SANDY)**	$ 5,100,000
74	Camden City	0408001-021	New Auto Meter Reading Equip for entire City	$ 1,800,000
78	Woodbine Borough	0516001-001	WTP Upgrade and water main extension	$ 3,239,500
83	Newark City	0714001-018	Replacement of Water Distribution Mains	$ 4,800,000
87	Lakehurst Borough	**1513001-002**	Water Main Replacement Project Phase I	$ 1,084,633
91	North Jersey Dist. Water Supply Comm.	1613001-035	Rehabilitation of Pump Stations	$ 3,800,000
95	Camden City	0408001-022	Install potable wells/flr elevations @ Morris Delair WTP	$ 1,400,000
100	Netcong Borough	1428001-007	Replace WM on Rte. 46, extend WM on Rte. 80, replace meters	$ 3,700,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
102	Little Egg Harbor Municipal Utilities Authority	1516001-004	Twin Lakes Water Main Replacement	$ 3,000,000
103	Manchester Township	1518005-002	Repaint and repair one MG elevated storage facility	$ 5,500,000
103	NJ American Water Company, Incorporated	0712001-016	NJ American Water Lead Service Line Replacement Program PWSID 0712001	$ 6,576,000
104	Lower Township Municipal Utilities Authority	0505002-003	Villas East Phase 2 and Lower Cape May Regional water main extensions	$ 6,923,406
105	Little Egg Harbor Municipal Utilities Authority	1516001-005	Little Egg Harbor Water Improvements Phases I	$ 6,609,594
106	Paulsboro Borough	0814001-003	Water Main Replacement (Thomson, Wood, Eliz. and Commerce St.)	$ 2,800,000
109	Sussex Borough	1921001-005	Lake Rutherford Water Line Installation Project	$ 1,221,600
111	North Jersey Dist. Water Supply Comm.	1613001-033	Security Enhancements Project - Orechio Dr Complex	$ 4,100,000
111	North Jersey Dist. Water Supply Comm.	1613001-034	Security, IT and Safety Projects	$ 1,600,000
113	NJ American Water Company, Incorporated	1345001-016	Sunset Road Treatment Plant Expansion	$ 13,500,000
113	NJ American Water Company, Incorporated	1345001-018	Oak Glenn Treatment Plant Expansion	$ 36,994,400
122	Stafford Township	1530004-018	Mill Creek Road and Paul Boulevard Water Main Replacement	$ 2,400,000
128	Netcong Borough	1428001-008	Rehabilitate existing storage facilities	$ 1,100,000
139	Jersey City Municipal Utilities Authority	0906001-010	Journal Square North Cleaning	$ 16,900,000
139	Jersey City Municipal Utilities Authority	0906001-006	Transmission Main Install	$ 19,000,000
139	Jersey City Municipal Utilities Authority	0906001-012	Water Main Replacement	$ 18,000,000
144	NJ American Water Company, Incorporated	2004002-011	Raw Water Pump Improvements (Treatment Plant)	$ 12,800,000
147	Bellmawr Borough	0404001-005	Improvements to WTP	$ 500,000
150	Middlesex Water Company	1225001-016	Renew 2015 - C&L of Water Mains - Edison	$ 5,700,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
152	Middlesex Water Company	1225001-026	Renew 2017	$ 13,000,000
157	Wall Township	1352003-002	Route 34 Water Main Improvements	$ 3,700,000
159	Wall Township	1352003-001	Route 138 Water Main Improvements	$ 1,800,000
166	Netcong Borough	1428001-009	Meter Upgrades	$ 400,000
171	Perth Amboy City	1216001-009	The Replacement of Water Meters Project	**$ 1,770,000**
172	Willingboro Municipal Utilities Authority	0338001-011	Well No. 6 Water Treatment Plant Upgrade	$ 10,621,600
173	Rahway City	2013001-007	Water Treatment Plant Filter System Upgrade	$ 18,200,000
174	Maple Shade Township	0319001-006	Maple Shade Township Meter Upgrade	$ 2,600,000
179	Jersey City Municipal Utilities Authority	0906001-016	Large Valve Replacement Program-Phase 2	$ 7,321,200
180	Berkeley Township Municipal Utilities Authority	1505004-007	Well #4 Phase II Production Well	$ 700,000
182	Jackson Township Municipal Utilities Authority	1511001-013	Six Flags Great Adventure Water Treatment Plant Replacement	$ 13,194,799
183	**Brick Township Municipal Utilities Authority**	**1506001-011**	**Granular Activated Carbon Treatment Addition**	**$ 20,890,000**
184	Allentown Borough	1302001-004	Water Treatment Plant Improvements	$ 2,328,960
185	Berkeley Township Municipal Utilities Authority	1505004-009	Installation of new well #4 with WM to connect to WTP	**$ 2,200,000**
188	Trenton City	1111001-010	Rehabilitation of Distribution System by C&L of Mains	$ 10,500,000
190	Sussex Borough	1921001-004	Water Meter Replacement Project	$ 450,000
193	Jackson Township Municipal Utilities Authority	1511001-010	Demolition of Facilities, Replace Storage Tank, Well #3	$ 8,200,000
195	Hoboken City	0905001-001	Washington St. Water Main / Green Infrastructure Drainage Improv.	$ 8,500,000
196	Cape May City	0502001-004	Well 5 Replacement for the Sands Aquifer	$ 2,200,000
205	Jersey City Municipal Utilities Authority	0906001-015	Van Winkle Ave. Water Main Replacement	$ 3,589,266

Rank	Sponsor	Project No.	Project Name	Estimated Cost
207	Kearny Town	0907001-001A	Water Facility and ground Improv. program	$ 29,000,000
208	North Jersey Dist. Water Supply Comm.	1613001-030	Modify and Expand Central Receiving Building	$ 2,364,000
214	Manchester Township	1518005-003	Install automated meters	$ 2,600,000
216	Vineland City	0614003-017	2016 Water Distribution Rehabilitation Project	$ 3,100,000
224	Bellmawr Borough	0404001-006	Various Water System Improv.	$ 2,300,000
231	**Oak Ridge Senior Housing Community**	**1414008-001**	**Water Line Upgrades**	**$ 530,300**
237	Gloucester City	0414001-022	Replacement of 1,200 LF of 8" cast iron main on Brown Street	$ 1,200,000
238	Sussex Borough	1921001-006	Water Systems Enhancements	$ 250,000
239	Tuckerton Borough	1532002-006	Heron Road Water Main Replacement Project	$ 1,470,150
243	Bordentown City	0303001-008	Upgrade Treatment Plant	$ 2,200,000
244	Clementon Borough	0411001-001	Rehab of Gibbsboro Water Main (White Horse Pike & White Horse Rd.)	$ 500,000
245	Ship Bottom Borough	1528001-002	Water main Replacement Project	$ 3,750,000
250	Middlesex Water Company	1225001-025	Western Transmission Main	$ 41,000,000
251	Brick Township Municipal Utilities Authority	1506001-007	Chlorine Disinfection System Relocation	$ 3,800,000
254	Evesham Municipal Utilities Authority	0313001-001	Wells 13 & 14 Treatment Improvements	$ 2,100,000
255	Clinton Town	1005001-008	Well #4 Water Production Facility	$ 1,500,000
255	NJ American Water Company	1345001-021	Swimming River WTP 2nd Clearwell	$ 22,117,195
257	Long Beach Township	1517001-501	Brant Beach Water Plant **(SANDY)**	$ 2,300,000
257	Long Beach Township	1517001-502	Raise Well 4, reconstruct filter room & pumps	**$ 11,500,000**
266	Middlesex Water Company	1225001-029	CJO Plant Upgrade - DBP Removal Treatment	$ 27,244,974
267	**East Greenwich**	**0803001-004**	**Installation of Filtration System at Well #3**	**$ 2,280,200**
275	NJ American Water Company, Incorporated	2004002-012	NJ American Water Lead Service Line Replacement Program PWSID 2004002	$ 8,974,000
276	**Flemington Borough**	**1009001-009**	**Water Tank Construction and Various Improvements**	**$ 4,500,000**
279	**Jersey City Municipal Utilities Authority**	**0906001-017**	**Boonton Plant Centrifuge**	**$ 1,566,216**

Rank	Sponsor	Project No.	Project Name	Estimated Cost
279	**Jersey City Municipal Utilities Authority**	**0906001-018**	**Tonnele Avenue Water Main Replacement and Relining**	**$ 7,442,800**
280	Ocean Township	1520001-007	Pebble Beach Water Main Replacement	$ 1,400,000
282	National Park Borough	0812001-004	Replacement of Wells 5 & 6	$ 1,700,000
282	Stafford Township	1530004-019	Mill Creek Water Main Replacement Phase II	$ 1,900,000
289	Milltown Borough	1212001-002	Ford Ave Redevelopment	$ 1,606,000
290	**Hardyston Municipal Utility Authority**	**1911006-002**	**Water Tank Refurbishment**	**$ 966,000**
293	Brick Township Municipal Utilities Authority	1506001-009	Breton Woods Water Main Replacement - Phase I	$ 5,928,760
293	Brick Township Municipal Utilities Authority	1506001-008	Undersized Water Main Replacement Cedar Park East and West	$ 6,550,000
293	**Jersey City Municipal Utilities Authority**	**0906001-009**	**Burma Road Area Water System Improvements**	**$ 2,770,000**
295	Brick Township Municipal Utilities Authority	1506001-010	Hydrant Replacement in Baywood Section	$ 1,160,000
300	Long Beach Township	1517001-015	Water Main Replacement Project	$ 4,159,201
304	**Hoboken City**	**0905001-002**	**Water Main Upgrades**	**$ 5,570,625**
311	NJ American Water Company, Incorporated	1345001-019	Howell-Lakewood Transmission Main	$ 60,000,000
326	Middlesex Water Company	1225001-023	Renew 2016, C&L of Water Mains, Replace Non-Copper Services	$ 8,000,000
331	Milltown Borough	1212001-003	Ford Ave Redevelopment Agency Borough	$ 1,384,000
336	Old Bridge Municipal Utilities Authority	1209002-013	Knollcroft Water Main Rehabilitation	$ 3,562,000
339	Perth Amboy City	1216001-500	Install New Stand-by Generator for Runyon Water Treat. Plant **(SANDY)**	$ 2,750,000
343	Aberdeen Township	1330004-001	Woodfield Area Water System Rehabilitation	$ 3,900,000
356	Clinton Town	1005001-006	Lebanon Borough Water Main Replacements - Phase II through Phase V	$ 4,300,000
360	Lavallette Borough	1515001-001	Water Storage Tank Repainting	$ 1,331,000
367	Spotswood Borough	1224001-001	Cleaning and lining of approximately 3,600 LF of water mains	$ 3,443,914
369	Milltown Borough	1212001-005	Water Storage Tank Rehabilitation	$ 1,800,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
371	Pennington Borough	1108001-002	Water Distribution Upgrades	$ 1,250,000
376	Allentown Borough	1302001-002	Elevated Water Tank Improvements	$ 549,100
377	Elmer Borough	1702001-001	Water Storage Tower Repaint and Repairs	$ 800,000
380	Hightstown Borough	1104001-010	2017 Water Main Improvements	$ 1,775,678
384	North Shore Water Association	1904004-002	Water System Refurb	$ 453,900
393	Woodland Heights Homeowners Association	1615022-001	Well Rehabilitation/System Improvements	$ 560,000
394	Bayonne Municipal Utilities Authority	0901001-006	Aqueduct Replacement	$ 12,000,000
396	Manasquan Borough	1327001-002	Construction of 600 LF of WM on Perrine Blvd & Mallard Park Area **(SANDY)**	$ 1,469,468
398	Jersey City Municipal Utilities Authority	0906001-013	Remote Meter Reading (AMI)	$ 9,300,000
403	NJ American Water Company, Incorporated	2004002-013	RM WTP Emergency Generator	$ 16,000,000
404	Jackson Township Municipal Utilities Authority	1511001-012	Western Water Main Extension	$ 11,000,000
404	Middlesex Water Company	1225001-024	New Interconnection of PS, New Table Type Chlorinators	$ 3,600,000
410	Washington Township Municipal Utilities Authority	0818004-010	New Pump Houses at Well #2 & Well #8	$ 1,900,000
428	Brigantine City	0103001-501	Installation of generators @ well **(SANDY)**	$ 2,900,000
428	Mount Arlington Borough	1426005-001	Mount Arlington Asset Management Plan	$ 103,000
432	Oakland Borough	0220001-004	Rehab of Iroquois Pumping Station	$ 3,133,000
433	Mantua Township MUA	0810004-003	Water Tank Rehabilitation	$ 1,400,000
440	NJ American Water Company, Incorporated	2004002-500	Raritan Millstone WTP Flood Wall	$ 36,000,000
448	Wonder Lakes Properties, Inc.	1615017-003	Replace hydro-pneumatic tank and install new tank	$ 30,000
451	Montclair Township	0713001-011	New 1.0MG High Zone Tank	$ 3,600,000
455	Jackson Township Municipal Utilities Authority	1511001-011	Improvements to Manhattan St Complex, Garage & Admin Bldg.	$ 1,600,000

Rank	Sponsor	Project No.	Project Name	Estimated Cost
472	Brick Township Municipal Utilities Authority	1506001-012	Meter Replacement	$ 5,420,000
477	Oakland Borough	0220001-003	diesel generator for well 9 **(SANDY)**	$ 3,133,000
478	Red Bank Borough	1340001-002	Water Plant Improvements at Chestnut Street and Tower Hill	$ 2,000,000
483	Clementon Borough	0411001-002	Rehab of well 9 including slip lining to improve conveyance	$ 1,400,000
488	Allentown Borough	1302001-003	Water Meter Replacement	$ 664,938
495	**Hardyston Municipal Utility Authority**	**1911006-001**	**Water Meter Replacement**	**$ 477,400**
499	Hampton Borough	1013001-001	New back up well 5 to address firm capacity requirements	$ 1,800,000
516	South Orange Village	0719001-004	Farrell Field (Walton Ave & Audley St.) Interconnection Rehab.	$ 150,000
516	South Orange Village	0719001-003	South Orange Ave and Holland Road Interconnection Rehabilitation	$ 150,000
522	Vineland City	0614003-016	Well No. 17 Treatment Facility	$ 9,000,000
524	Little Egg Harbor Municipal Utilities Authority	1516001-500	Radio Road Water Treatment Plant **(SANDY)**	$ 1,000,000
524	Little Egg Harbor Municipal Utilities Authority	1516001-003	Water Treatment Plant at High Ridge Rd **(SANDY)**	$ 4,750,000
527	Point Pleasant Beach Borough	1525001-001	Water Meter Replacement Project	$ 1,930,000
541	Oakland Borough	0220001-002	Replace 4600 water meters	$ 3,133,000
542	Clinton Town	1005001-007	Replace Water Meters	$ 4,277,804
555	**Marlboro Township**	**1328002-004**	**New Stand-by Well SA**	**$ 1,380,840**
557	Montclair Township	0713001-008	Nishuane Well Production & Treatment Facility	$ 2,300,000
558	Clinton Town	1005001-009	Well #7 Improvements & Well #14 Decommissioning	$ 1,200,000
559	South Orange Village	0719001-001	Well 17 Rehabilitation	$ 250,000
566	Oakland Borough	0220001-001	Construct new well 10A as backup for well 10	$ 3,133,000
567	Mantua Township MUA	0810004-002	Well Rehabilitation	$ 1,800,000
577	**Spotswood Borough**	**1224001-001**	**Water Master Pan**	**$ 85,265**
582	Harvey Cedars Borough	1509001-002	Installation of a Water Monitoring Well	$ 1,100,000
587	**Hardyston Municipal Utility Authority**	**1911006-003**	**Asset Management Plan**	**$ 100,000**

Rank	Sponsor	Project No.	Project Name	Estimated Cost
590	Old Bridge Municipal Utilities Authority	1209002-014	Perrine Road Carbon Absorber Facility	$ 1,750,000
599	Seaside Park Borough	1527001-004	Well #10 Treatment Facility	$ 900,900
Sandy and Base SFY2018/2019 DW Projects #:		**163**	**Subtotal:**	**$ 1,008,398,586**
Total Drinking Water Projects #:		**164**	**Subtotal:**	**$ 1,011,998,586**
Total Number of Projects (CW, DW & Supplement) #:		**408**	**Total Project Costs (CW, DW and Supplemental:**	**$ 3,728,345,401**

Appendix C
SAIL
Projects financed through the **S**tatewide **A**ssistance **I**nfrastructure **L**oan Program
(Disaster Relief Emergency Financing Program)

Through December 31, 2017

Project #	Project Sponsor	Description	Loan Closing Date	Loan Amount
S340377-03	South Monmouth Regional Sewerage Authority	Replacement and relocation of the Lake Como Pump Station that was damaged during Superstorm Sandy to an area located outside of the flood hazard zone.	2/7/2014	$ 2,950,391
S340377-04A	South Monmouth Regional Sewerage Authority	Replacement of the Pitney Avenue Pump Station with a mobile enclosure pumping station that will allow the Authority to relocate the main electrical components to a higher elevation during a forecasted storm event.	9/23/2014	$ 1,532,224
S340377-05	South Monmouth Regional Sewerage Authority	Replacement of the Belmar Pump Station with a mobile enclosure pumping station that will allow the Authority to relocate the main electrical components to a higher elevation during a forecasted storm event.	10/28/2015	$ 3,468,842
S340697-05	Bayshore Regional Sewer Authority	Phase I - restoration of damaged components of the Water Pollution Control Plant (WPCP) to pre-storm condition (restoration) and various measures to help abate future flooding impacts/improve resiliency to sea-water inundation of the WPCP (mitigation).	5/13/2015	$ 28,113,307

Project #	Project Sponsor	Description	Loan Closing Date	Loan Amount
S340697-06	Bayshore Regional Sewer Authority	Phase II - removal of key components from Blower Building #1 and replacement of those components into Blower Building #2 which sits at a higher elevation than Blower Building #1, as well as various measures to help abate future flooding impacts/improve resiliency to sea-water inundation to the newly combined Blower Building.	6/23/2016	$ 15,031,324
S340699-12	Middlesex County Utilities Authority	Restoration and mitigation to the Sayreville Pump Station including the construction of a flood wall around the site perimeter, electrical system upgrades, and motor replacements.	12/8/2016	$ 87,953,113
S340699-13	Middlesex County Utilities Authority	Restoration and mitigation to the Sayreville Pump Station including the construction of a flood wall around the site perimeter, construction of an auxiliary pumping station, and motor replacements.	6/29/2016	$ 35,208,623
S340259-07	Kearny Municipal Utilities Authority	Repairs to the various facilities due to the damages incurred during Superstorm Sandy, provide mitigation measures to increase the resilience of the pumping stations and replace some of the equipment that are at the end of their useful life.	1/7/2016	$ 6,441,376
S340689-25	Passaic Valley Sewerage Commission	Renovations of the Administration Building including the removal and replacement of damaged plumbing, electrical, HVAC, and fire suppression systems, and a roof top addition to contain various utilities.	10/5/2016	$ 9,100,000
			Total	**$ 189,799,200**

Appendix D

Emergency Loan Program Guidance Document

Introduction

This Appendix provides guidance as to Emergency Loan Program eligibility and application requirements for the Clean Water and Drinking Water Programs. Not addressed herein are the program requirements for the Disaster Relief Emergency Loan Financing Program (a.k.a. the "Statewide Assistance Loan Program" or "SAIL").

The NJDEP recognizes that environmental infrastructure emergencies may occur that endanger public health and welfare and can result in substantial environmental damage. Such circumstances require an immediate response for which a complete technical and environmental review in advance of construction is not possible. On July 15, 2005, the NJDEP issued a generic Environmental Decision Document (EDD) for environmental emergency response projects and on January 3, 2006, amendments to the program's rules at N.J.A.C. 7:22 were adopted to allow the EIFP to fund certain emergency projects. The generic EDD and the rule changes identify the specific types of projects and conditions that must exist to qualify under the emergency project provisions of the Financing Program.

With the EDD and the rules as guidelines, the NJDEP has developed a process to respond rapidly when emergencies occur, obtain basic project information, make an eligibility determination and issue a preaward approval so that owners/operators can undertake the needed repairs and maintain eligibility for those expenditures through the EIFP. For ranking purposes, projects that qualify as emergency projects will receive funding priority over all other projects on the Project Priority List.

Project Notification Procedure.

The affected system must notify:

Drinking Water Projects:

The Chief of the Bureau of Safe Drinking Water Technical Assistance, Water Supply Operations Element in the Division of Water Supply, Sandra Krietzman, at (609) 292-5550;

Clean Water Projects:

The Assistant Director of the Municipal Finance and Construction Element in the Division of Water Quality, Gene Chebra, at (609) 633-1170

by close of business on the day of the emergency or by 12:00 PM of the next business day. For example, if an emergency occurs on a Friday morning, the NJDEP must be notified by the end of the Friday business day or if an emergency occurs on a Saturday or Sunday, the NJDEP must be notified by 12:00PM on the following Monday.

The NJDEP will confirm notification of the possible emergency project with a fax describing what information is to be submitted to NJDEP. Within 30 days of the emergency occurrence, the

affected system must submit to the DWSRF a comprehensive report including the following: nature/location of the emergency, need for repair and description of the initial efforts to repair the damage, detailed description of the repair needed with costs, list any required permits, and a description of the long-term solution. In addition, a Certification signed by the water superintendent, chief engineer or director must be provided by the water system stating that there was an emergency situation and that the repairs are required.

The NJEIFP will only fund the portion of any repair that is necessary to restore lost service to the affected population and will only fund a specific Emergency Repair Project for a specific entity once. Any long-term solutions, modifications, and/or upgrades to prevent future emergency occurrences must be addressed in future financing cycles as a project and published on the Project Priority List. Specific types of projects and conditions must exist to qualify under the emergency project provisions of the Financing Program. Drinking Water Emergency Repair Projects will be defined as, and limited to, projects that replace, in kind, the failure of an essential portion of a public water system that is expected to disrupt water service to any number of the public water system's customers for a minimum of 24 hours total and/or poses a substantial threat to the public health, safety, and welfare.

Appendix E

State Fiscal Year 2017 Financing Program Summary

Source of Funds Key:

A=Trust Operating Funds C=DEP CW SRF Funds
B=Trust Bond Revenues D=DEP DW SRF Funds

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Aberdeen Twp	$ 7,498,712	$ -	A/C	**Project # S340 869-02.** Installation of new sanitary sewage collection system in Woodfield area of Aberdeen to replace failing septic systems.
Aberdeen Twp	$ 1,305,099	$ -	A/D	**Project # W1330004-001.** Installation of 9,000 linear feet of water main to replace existing deteriorated distribution mains, valves, fire hydrant assemblies, residential service connections and other related work.
Atlantic County UA	$ 5,683,515	$ -	A/C	**Project # S340 809-23.** ACUA Treatment plant resiliency project to provide emergency power to the plant. In addition to financing the emergency power work, the project includes underground storage tank removal and replacement, portable diesel module generators and a roll-off truck.
Atlantic County UA	$ 488,637	$ -	A/C	**Project # S340 809-24.** Project to increase resiliency of ACUA pump stations to storm conditions including portable flood protection measures and removal and replacement of some existing underground

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				storage tanks with above-ground units.
Atlantic County UA	$ 358,739	$ -	A/C	**Project # S340 809-26.** Protection of certain facilities within the treatment plant site from potential storm surge water from hurricane type events including providing portable open trailer mounted pumps to pump out facilities at the plant, construction of permanent sump areas within existing building structures to pump out storm surge, and raising the treatment plant access road elevation to above flood level.
Atlantic County UA	$ 3,664,280	$ -	A/C	**Project # S340 809-28.** Sewer sludge project to ensure the incinerator meets federal EPA requirements
Barnegat Twp	$ -	$ (28,462)	B/C	**Project # S344 130-01.** Purchase of combination Jet-Vac truck and associated street cleaning equipment for the purpose of cleaning stormwater collection pipes and sanitary sewer lines, as well as manholes and wet wells.
Bayshore RSA	$ 6,676,696	$ -	A/C	**Project # S340 697-06.** Permanent restoration and mitigation of the existing Blower Building No. 1 and existing Blower Building No. 2, as well as the permanent restoration and mitigation of treatment plants power distribution system at

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				Bayshore Regional Sewerage Authority Water Pollution Control Plant. Work will restore and protect equipment and facilities impacted by Hurricane Sandy to enable the treatment plant to continue operations under future similar flood events.
Bergen CUA	$ -	$ (697,708)	B/C	**Project # S340 386-17.** Improvements to cogeneration units at the Little Ferry Water Pollution Control Facility including retrofitting of antiquated and inefficient boilers from biogas to natural gas and installation of a Combined Heat and Power (CHP) engine to consume any biogas that would be flared and can operate during down times for either of the other two engines. A third CHP cogeneration unit will be installed to increase onsite generation of electricity thus less electricity can be purchased.
Berkeley Twp MUA	$ -	$ (395,709)	B/D	**Project # W1505004-008.** Installation of new water main within the existing Berkeley Township Municipal Utilities Authority service area including valves, fire hydrant assemblies, residential service connections and other related work.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Bordentown City	$ 1,701,273	$ 3,526	A/C	**Project # W0303001-007.** Water system remediation and upgrades to water treatment plant to bring it into compliance with levels of gross alpha, iron and manganese.
Burlington County (BCF)	$ -	$ 1,716,526	B/C	**Project # S340 818-07.** Rehabilitation of existing stormwater sewer system culverts, inlets, and catch basins to reduce or eliminate infiltration of nonpoint source pollution into the adjacent ground and ground water. Purchase of portable water sedimentation treatment tank system to remove and discharge ground water safely for use during and after construction for long term water quality improvement and in the ongoing maintenance of stormwater manufactured treatment devices. Purchase of storm sewer video camera truck system for maintenance of the storm sewer infrastructure by inspecting the sewer system using video camera and purchase of calcium chloride spray truck to treat icy roadway surface reducing the use of salt on roadways in winter.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Camden County MUA	$ 5,386,901	$ 24,590	A/C	**Project # S340 640-15.** CSO improvement project. Construction of ten new rain gardens in the city, replacing deteriorating combined sewer pipes in some of roadways in the city and remediation and construction of second and final phase of Phoenix Park to control storm water and improve water quality in the city.
Cinnaminson SA	$ 7,083,040	$ -	A/C	**Project # S340 170-07.** Replacement of existing surface aerators with diffused aeration system and dissolve oxygen control logic. Provide capability to use back third of aeration tanks as anoxic zone to encourage denitrification. Replace existing Somat presses and dissolved air flotation thickener with a rotating sludge thickener and a rotary fan press. Provide odor control equipment for sludge handling equipment. Replace pumps and piping and rehabilitate control building where required.
Clinton Town	$ 875,579	$ -	A/D	**Project # W1005001-008.** Rehabilitation of treatment plant at Well 4 Water Production Facility. Current below-ground well house facility does not meet current groundwater quality source regulations and does not provide emergency power.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Clinton Town	$ 866,872	$ -	A/D	**Project # W1005001-009.** Redevelopment and improvements to Well 7 and decommissioning of Well 14.
Cumberland County IA	$ 10,300,000	$ 17,901	A/C	**Project # S342 015-03.** Expansion of landfill by constructing 32-acre lateral expansion of the Cumberland County Solid Waste Complex consisting of landfill cells 7, 8 and 9. The Project also includes improvements to three (3) leachate pump stations which provides service to existing landfill cells 1A, 1B and 2A.
Cumberland County UA	$ 1,064,392	$ -	A/C	**Project # S340 550-07.** Upgrade to sewage treatment plant replacing various components of existing treatment and bio-solid management systems which have reached the end of their useful life and must be replaced to meet water quality discharge requirements. Project incorporates energy efficient equipment and processes.
Cumberland County UA	$ 1,103,411	$ -	B/C	**Project # S340 550-08.** Replacement of pump station with more energy efficient equipment to reduce or eliminate risk of overflow and/or bypass.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
East Orange City	$ -	$ 22,663	B/C	**Project # W0705001-011.** Implementation of a Water Treatment and Supply Program including the design and construction of a centralized air stripping treatment facility to remove volatile organic compounds at White Oak Ridge Pump Station and rehabilitation of wells to restore significantly diminished production capacity and increase efficiency. This project addresses violations of the Safe Drinking Water Act.
Elizabeth City	$ 6,716,527	$ -	B/D	**Project # S340 942-18.** Project to address frequent flooding to properties along north side of Progress Street and properties between Progress Street and Division Street due to inadequate capacity in the CSO outfall that passes under the properties providing local drainage and which discharges to the Great Ditch and high tail water levels in the Great Ditch. The project will reroute the existing outfall and reconnecting to an existing storm sewer, provide additional protection against high water levels in the great ditch by using box culverts for excess runoff, build weir and tide gates, and extend vertical walls to contain potential overflows.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Elizabeth City	$ 6,500,000	$ -	A/C	**Project # S340 942-19.** Trumbull Street Flood Control Project: Construction of a one million-gallon subsurface stormwater storage facility and lift station to reduce frequent flooding that occurs at intersection of Trumbull and Sixth Streets.
Elizabeth City	$ 920,483	$ -	B/C	**Project # S345 070-01.** Preparation of a CSO Long Term Control Plan including characterization of the combined sewer system, preparation of a computer hydraulic model, wet weather/dry weather sampling, preparation of alternatives, evaluation of alternatives, implementation of alternatives and preparation of an implementation schedule.
Ewing Lawrence SA	$ 2,864,299	$ 10,273	B/C	**Project # S340 391-10-1.** Supplemental loan for wastewater treatment plant upgrade to meet new effluent limit requirements for DCBM and to replace equipment and systems at the end of their useful service life.
Franklin Twp SA	$ 10,000,000	$ 6,296,408	B/C	**Project # S340 839-06.** Installation and replacement of existing gravity sewer at Rodney Avenue Pump Station.
Gloucester County IA	$ 6,268,882	$ -	A/C	**Project # S342 024-01.** Construction of a new landfill cell 13 within the existing Gloucester County Solid Waste Complex.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Gloucester CUA	$ 21,875,697	$ -	A/C	**Project # S340 902-14.** Bio-solids handling facility transition from sludge to anaerobic digestion with combined heat and power generation.
Gloucester CUA	$ 1,933,247	$ -	A/C	**Project # S340 902-16.** Replacement and upgrade of equipment to both East and West primary clarifiers.
Gloucester Twp MUA	$ -	$ 1,315,194	B/C	**Project # S340 364-13.** Supply and delivery of a new vactor truck for cleaning and jetting sewer lines, new communication system for pump stations' monitoring and control and rehabilitation of sanitary sewer system utilizing slip lining technologies.
Hammonton Town	$ 2,755,872	$ 3,798	B/C	**Project # S340 927-09.** CSO project to replace vitrified clay and related structures in need of replacement due to deterioration and infiltration.
Hammonton Town	$ 691,936	$ 4,014	A/D	**Project # W0113001-011.** Extension of water main on section of Valley Avenue to replace and extend old, undersized and leaking water mains and house connections that are sediment laden.
Hightstown Borough	$ -	$ 346,832	B/D	**Project # W1104001-007/008.** Rehabilitation of Deep Wells #2 which is in need of a new well pump to keep the well operational and compliant with NJDEP's required duplicity

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				standard for public water systems.
Hillsborough Twp	$ -	$ (377,134)	B/C	**Project # S340 099-02.** Installation of sanitary sewers to serve homes with failing septic systems on four streets. Includes construction of gravity sewer pipes and force main laterals.
Hoboken City	$ 4,213,847	$ 10,591	B/C	**Project # S340 635-05.** New Block 12 Public Park in Southwest Hoboken to address flooding issues with green infrastructure and underground retention system designed to handle 10-year storm. Design includes passive rainwater collection with permeable paving rain gardens and bioswales with subsurface storage beneath park. Stored rainwater will slowly be released to reduce peak flow to CSO sewer system.
Hoboken City	$ 31,402,264	$ -	A/D	**Project # S340 635-06.** CSO abatement project to address flooding issues and water quality issues that arise when excess water bypasses waste water treatment plant and flows directly into Hudson River. Acquisition of land, environmental investigation, design and planning of a 5.418-acre park in Northwest Hoboken - the Northwest Resiliency Park on BASF Property. The project will improve on-grade stormwater retention, provide

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				on-grade public park and open space, sub-surface stormwater quantity and quality treatment. The sub-surface stormwater storage will receive one million gallons of stormwater flows, treat for water quality and discharge through a new pump and outfall to Weehawken Cove.
Jackson Twp	$ 598,627	$ 5,288	B/C	**Project # S344 050-02.** Purchase of jet-vac/street sweeper to maintain sewer system to minimize sanitary system overflows.
Jackson Twp MUA	$ 6,978,160	$ -	A/D	**Project # W1511001-010.** Replacement of two storage tanks which are end of useful life with one tank with booster station shed and piping. Project includes demolition of existing facilities, field office, and tanks, site work and replacement with new warehouse that will house new pumps and chemical feed for well #3. Replacing booster station with new pumps, controls, instrumentation and addition of VFDs will allow for managing system distribution pressure and energy consumption more efficiently.
Lavallette Borough	$ 978,512	$ -	A/D	**Project # W1515001-001 (Nano).** Maintenance of water storage tank: removal of existing protective coatings by sandblasting and complete

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				reapplication of new protective coatings inside and out of the elevated tank.
Manchester UA	$ -	$ 11,010	B/D	**Project # W1603001-014.** Improvements to water distribution system including relocation of customer meters on private water main extensions to reduce non-revenue water, transferring users located at elevations above 300 feet in the 383-service zone to the 575 service zone to increase water pressure, connecting Manchester Booster Service Zone to the 575 Service Zone and retiring the Manchester Avenue Pump Station to improve reliability and reduce operating costs.
Maple Shade Twp	$ 2,175,000	$ -	A/D	**Project # W0319001-006.** Replacement of existing water meters which are approaching end of useful life with more accurate automatic meter read system which also detects leaks in system.
Mendham Twp	$ 2,318,077	$ -	A/C	**Project # S340 477-01.** Conversion of existing break point chlorination sewage treatment plant to more conventional biological treatment process at the Mendham East Wastewater Treatment Facility reducing total energy consumption.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Middlesex County UA	$ 87,953,113	$ -	A/C	**Project # S340 699-12.** Restoration and flood mitigation project: Restoration of mechanical HVAC and electrical equipment instrumentation and control equipment and building repairs for both Sayreville Relief Pump Station and original Sayreville Pump Station facilities damaged by flood water from Hurricane Sandy surge. Will include construction of a flood wall as a mitigation measure to protect entire site from future flood events which will require relocation of the present main electrical substation and diesel generator.
Middlesex Water Company	$ 2,291,847	$ -	A/D	**Project # W1225001-024.** Construction of new interconnection pump station to replace existing facility where pumps are below ground and replacement of old chlorinators with new tablet type chlorinators.
Middletown Twp SA	$ 2,254,690	$ 1,622,013	B/C	**Project # S340 097-04A.** Non-resiliency components to waste water treatment plant rehabilitation project including the replacement of roof of sludge thickener building, modifications to administration building to provide ADA accessibility, repairs to sanitary sewer aerial pipe crossing and mechanical improvements to

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				three clarifiers including replacing damaged or aging railing, arms, rotating mechanisms, strain rods, scum skimmer assembly, weirs and sludge decals.
Middletown Twp SA	$ 4,742,657	$ (2,452,263)	B/C	**Project # S340 097-04B.** Protection of wastewater treatment plant from future storm damage by constructing a new electrical building to house new motor-control center and generator, upgrading electrical power system in sludge thickener building, constructing of elevated concrete pads for setting pumps above flood elevation, installing skid mounted diesel driven pumps on the pads and associated piping and electrical work, and installing flood barriers on door, window or HVAC openings above flood elevation.
Milltown Borough	$ -	$ (401)	B/D	**Project # W1214001-004.** Repairs to three pump stations including replacement of pumps, motors and control systems to address corrosion and aesthetic issues in potable water distribution system.
Millville City	$ 9,539,463	$ -	A/C	**Project # S340 921-07.** Upgrade of existing clarifiers to complete upgrades and comply with discharge requirements.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Netcong Borough	$ 301,203	$ -	A/D	**Project # W1428001-008 (Nano).** Rehabilitation of existing storage facilities. Remove out of service million-gallon reservoir, repair million-gallon reservoir replacing three existing roof access hatches, installation of concrete steps, installation of entrance door to valve room, repair of cracks in reservoir walls, relocate outlet piping from each of three reservoir chambers and install new piping and valves to convey water to water distribution system.
Netcong Borough	$ 262,308	$ -	A/D	**Project # W1428001-009.** Replacement of old meters with automatic meter reading system.
Newark City	$ -	$ 4,899,762	B/D	**Project # W0714001-015.** Rehabilitation of water distribution mains by cleaning of internal tuberculation and application of interior lining.
Newark City	$ 6,244,224	$ -	A/D	**Project # W0714001-016.** Improvements to backwash wastewater system and upgrade to chlorination system at Pequannock Water Treatment Plant. Pump out sludge from lagoon sludge and haul off-site for disposal and creation of capacity in the lagoon.
Newark City	$ 2,430,868	$ -	A/D	**Project # W0714001-500.** Install standby generators at two water transfer pump stations to establish emergency interconnection with other

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				water purveyors to transfer water during power outage
NJ American Water Company	$ 12,604,295	$ -	A/D	**Project # W1345001-016.** Upgrades to Sunset Water Treatment Facility including drilling/constructing new well #17 to increase facility allocated capacity, design two clarifiers for increased capacity, design low service pump for the increased capacity, evaluate existing filters and design two additional filters, design a SCADA system to align with current SCADA system, evaluate and design residuals handling, electrical, chemical feeds for the proposed capacity increase and replace existing building roof and building HVAC system.
NJ American Water Company	$ 11,520,666	$ -	A/D	**Project # W2004002-011.** Raw water pump improvements at the Raritan Millstone Water Treatment Plant: Construction of low lift pumping station improvements at RMWTP in accordance with recommendations from Facility Master Plan to replace aging equipment and structures, increase plant efficiency and provide additional operational flexibility.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
NJ American Water Company	$ 27,201,503	$ -	A/D	**Project # W2004002-500.** Increase resiliency by reconstructing, stabilizing and raising existing flood wall at the Raritan Millstone Water Treatment Plant.
North Hudson SA	$ -	$ 56,102	B/C	**Project # S340 952-19.** CSO improvement project: Repair/upgrade combined sewer regulators, rehabilitating various sections of deteriorated piping along New York Avenue, sewer main extension and sewer repair rerouting influent line to the Baldwin Avenue Pump Station to the 18th Street Pump Station to allow decommissioning of the Baldwin Avenue Pump Station, and siphon improvements. Project will maintain integrity of infrastructure and reduce infiltration into combined sewers.
North Hudson SA	$ 17,060,030	$ -	A/C	**Project # S340 952-22.** CSO improvement project: construction of an end of pipe solids and floatables screening facility including pier structure to facilitate access and maintenance of facility. This project will satisfy NJDEP requirement to implement solids and floatables control program for a screening facility.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
North Hudson SA	$ 2,316,573	$ -	A/C	**Project # S340 952-23.** Phase 2 improvements to Hoboken Wastewater Treatment Plant including upgrades to physical systems. Secondary treatment process reached end of its useful life and requires rehabilitation to meet permit limits.
North Hudson SA	$ -	$ 843,031	B/C	**Project # S340 952-26.** Improvements to River Road Wastewater Treatment Plant including replacement of microstrainers 3 and 6, replacement of existing sodium hypochlorite storage tank and replacement of deteriorated gratings and support beams throughout the plant.
North Hudson SA	$ 1,200,000	$ -	A/C	**Project # S340 952-28.** CSO improvement project: cleaning and lining of combined sewers in West New York, Union City, Hoboken and Weehawken.
North Hudson SA	$ 3,000,000	$ -	A/C	**Project # S345 190-01.** Preparation of a CSO Long Term Control Plan (LTCP) including characterization of the combined sewer system, preparation of computer hydraulic model, wet weather/dry weather sampling, preparation of alternatives, evaluation of alternatives, implementation of alternatives and preparation of implementation schedule.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
North Jersey District WSC	$ 3,352,720	$ -	A/D	**Project # W1613001-017-1.** Design and construction of improvements to pumps, motors and drives at the Wanaque South Pump Station.
North Jersey District WSC	$ 1,064,196	$ -	A/D	**Project # W1613001-022.** Replacement of sedimentation basins 5 and 6 of the water treatment plant with high rate clarifiers.
North Jersey District WSC	$ 1,647,922	$ -	A/D	**Project # W1613001-025.** Design and implementation of treatment technologies to recycle lagoon discharge to head of water treatment plant to ensure lagoon discharge is in compliance.
North Jersey District WSC	$ 476,927	$ -	A/D	**Project # W1613001-033.** Update of security infrastructure for NJDWSC to increase security for the treatment facilities and infrastructure.
North Wildwood City	$ -	$ 2,026,202	B/C	**Project # S340 663-06.** Street and utility reconstruction to rehabilitate sanitary sewer mains that are deteriorated.
Northwest Bergen County UA	$ 2,301,788	$ -	A/C	**Project # S340 700-13.** Improvements to sewage treatment plant's waste activated sludge and aeration systems including replacement of two existing aeration blowers with new energy-efficient units, installation of all necessary PLCs and modification to existing MCCs, repair of existing air distribution piping in aeration

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				tanks, demolition of four waste activated sludge pumps and installation of six new waste activated sludge pumps and replacement of all associated piping. Replaces inefficient and high-energy consuming equipment improving solids handling train.
Ocean County	$ -	$ 718,641	B/C	**Project # S344 080-04.** Installation of manufactured treatment devices within existing storm water systems immediately upstream of various outfalls along north side of Toms River and Barnegat Bay.
Ocean County UA	$ 6,489,905	$ (269,881)	B/C	**Project # S340 372-56.** Rehabilitation of primary clarifiers at the Central Water Pollution Control Facility and Southern Water Pollution Control Facility sewage treatment plants which show signs of degradation and are in need of repair or replacement.
Ocean County UA	$ 2,336,308	$ (264,460)	B/C	**Project # S340 372-57.** Rehabilitation of Point Pleasant Beach Interceptor and rehabilitation of sanitary sewer manholes.
Ocean Gate Borough	$ -	$ 10,225	B/D	**Project # W1521001-001A.** Replacement of West Barnegat Avenue water mains.
Ocean Twp	$ 2,600,000	$ -	A/C	**Project # S340 112-07.** Replacement of existing deteriorating sanitary sewer main along Maplewood Road

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
				Teaneck Road, Englewood Avenue, Dune Lane, Stillwater Road and Harborage Place.
Ocean Twp	$ 1,025,356	$ -	A/D	**Project # W1520001-007.** Replacement of failing cement pipe water main and connect into existing distribution system.
Ocean Twp SA	$ 4,343,224	$ -	A/C	**Project # S340 750-11.** Installation of new sanitary sewer pipe across Route 35 to remove sharp bend from manhole and have manholes moved from travel lane of Route 35. Upgrade to Roseld Avenue Sanitary Sewer by extending existing Wickapecko pump station force main to discharge to gravity sewer system along Roseld Avenue downstream of the shallow manholes. Improvements to Interlaken Pump Station by replacing three existing pumps, upgrade pump controls, building upgrade and replace existing force main.
Ocean Twp SA	$ 522,805	$ -	A/C	**Project # S340 750-13.** Repair and rehabilitate existing sanitary sewer collection system along Berkeley Avenue, Lakeview Avenue and Lincoln Drive from Berkeley Avenue to Park Place including lining pipe, lining manholes, spot repairs and pipe replacement.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Ocean Twp SA	$ 1,133,971	$ -	A/C	**Project # S340 750-14.** Rehabilitation of Asbury Avenue and Longview Pump Stations: Mechanical, electrical, structural and site improvements including conversion of existing dry well/wet well units to submersible pumping facilities with new valve chamber and installation of new enclosures to house electrical and control equipment, ladder and hatch replacement, repair to perimeter fencing and upgrade to existing bypass connection, replacement of check valves and installation of site lighting.
Oradell Borough	$ 1,045,172	$ 7,091	B/C	**Project # S340 835-04.** Phase IV Sewer Improvements including replacement of sanitary sewer pipe and sewer lining.
Passaic Valley SC	$ 3,000,000	$ 38,822	B/C	**Project # S340 689-22.** Rehabilitation of Yantacaw Pumping Station. Installation of new flow meter, replacement of existing pumps with dry pit submersible pumps with VFD controllers, replacement of all suction and discharge piping and valves, replacement of sump pumps, improvements to existing communutors and slide gate support system. Also includes sidewalk repairs, leak repairs and electrical and instrumentation upgrades.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Passaic Valley SC	$ 3,402,331	$ -	A/C	**Project # S340 689-25.** Rehabilitation of the PVSC administration building due to flooding damage as a result of Superstorm Sandy. All communication and business systems were severely damaged and it is necessary to rebuild building and the systems in a more resilient manner.
Passaic Valley SC	$ 2,928,050	$ -	A/C	**Project # S340 689-31.** Replacement of sodium hypochlorite storage to increase wet weather treatment capacity to reduce volume of CSO discharges. The project replaces existing sodium hypochlorite storage and feed facility tanks and improve chemical feed system to accommodate disinfection for increased wet weather flows.
Passaic Valley SC	$ 919,075	$ -	A/C	**Project # S340 689-34.** Upgrade and expansion to waste pump station on Wilson Avenue in Newark to increase wet weather treatment capacity to reduce volume of CSO discharges. Purchase and installation of new pumps valves, piping flow meters, process control sampling and monitoring equipment and provide electrical improvements as necessary to accommodate new style pumps. Improve hydraulic issues and pump operational characteristics.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Passaic Valley SC	$ 8,000,000	$ -	A/C	**Project # S345 200-01.** CSO Long Term Control Plan for PVSC and the cities of Bayonne, Jersey City, North Bergen, Newark, East Newark, Kearny, Harrison and Paterson and for North Bergen MUA and Guttenberg.
Passaic Valley WC	$ -	$ 1,919,884	B/D	**Project # W1605002-025A.** Upgrade to the standby generation capacity at the Little Falls Water Treatment Plant with installation of four diesel generators with buildings and fuel pumps. Includes construction of new standby emergency generator power facility, a retaining wall, new electrical duct banks, two new electrical switchgear enclosures and new fuel storage tank at the Little Falls Water Treatment Plant.
Passaic Valley WC	$ -	$ 29,760,707	B/D	**Project # W1605002-025B.** Upgrade to the standby generation capacity at the Little Falls Water Treatment Plant with installation of four diesel generators with buildings and fuel pumps. Includes construction of new standby emergency generator power facility, a retaining wall, new electrical duct banks, two new electrical switchgear enclosures and new fuel storage tank at the Little Falls Water Treatment Plant.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Pemberton Twp	$ -	$ 898,830	B/D	**Project # W0329004-004.** Rehabilitation of Well No. 11 within Browns Mill section of Township with installation of radium treatment facility to bring the well back online and into conformance with NJDEP Safe Drinking Water Standards.
Pennington Borough	$ -	$ 826,775	B/D	**Project # W1108001-001.** Replacement and upgrade of water distribution along Upper King George Road and Park Avenue between their intersection with Eglantine Avenue to replace mains that are approaching the end of their anticipated useful life.
Perth Amboy City	$ -	$ 1,142,569	B/C	**Project # S340 435-15.** Repairs to trunk sewer main collapse in Keasby section of Woodbridge which rendered sewer main inoperable. The main services the City and neighboring municipalities (Township of Woodbridge and Borough of Carteret). Project includes installation of by-pass pumping, trunk repair and road reconstruction.
Rahway City	$ -	$ 7,506	B/D	**Project # W2013001-008.** Construction of interconnection with Middlesex Water Company.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Rockaway Valley RSA	$ 66,457	$ -	A/C	**Project # S340 821-06.** Design of permanent gravity sewer connection to the Park section sewers to extend existing sewer and connect to Jersey City Trunk Sewer. Construction of pumping station to discharge into force main and connect to existing Jersey City Trunk Sewer downstream of the washed-out river crossing. Construction of gravity sewers to provide service to properties that were discharging into the now abandoned portion of the Jersey City Trunk Sewer and rehabilitate the part of the Jersey City Trunk Sewer that will remain in service.
Roxbury Twp	$ 6,098,986	$ -	A/C	**Project # S340 381-07.** Improvements to the Ajax Terrace Water Pollution Control plant and Highlands Manor Pump Station facilities. Replacement of 8 RBC units and replace existing pumps and ancillary systems with new equipment to improve operational efficiency and reliability at the Ajax Terrace location. Provide new submersible pumps to existing wet well at Highlands Manor pump station and modify structure so that confined space entries no longer required for routine operations.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Saddle Brook Twp	($ 208,728)	$ -	A/D	**Project # W0257001-002.** Construction of water mains. Replace pipes, abandon water main and loop the main to improve water circulation in the system to address water quality issues with regard to chlorine residual reading in the area of 5th and North 5th Streets.
Salem County IA	$ 7,669,385	$ 14,043	B/C	**Project # S342 022-01.** Landfill expansion to include a new 8.3-acre landfill cell. Design includes liner system.
Sea Girt Borough	$ -	$ (1,722,510)	B/C	**Project # S340 468-01.** Repairs and upgrades to stormwater drainage system including upgrading pipe sizes and extension of stormwater outfalls along certain roadways into Atlantic Ocean.
Somerset Raritan Valley SA	$ 4,320,000	$ -		**Project # S340 801-08.** Rehabilitation of sludge incinerator 2 including new secondary heat exchanger, new scrubber system and new associated instrumentation and electrical systems. A new mercury control system will be installed to meet federal air emission standards.
Stafford Twp	$ 2,248,620	$ -	A/D	**Project # W1530004-018.** Replacement of water main on Mill Creek Road which is in disrepair its ability to operate efficiently is compromised.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Stony Brook RSA	$ 3,868,630	$ -	A/C	**Project # S340 400-10.** Replacement of seven existing dewatered sludge pumps with seven new dewatered sludge pumps and the replacement of the live bottom feed screws and drives for the sludge cake receiving bins.
Sussex County MUA	$ 8,521,370	$ -	A/C	**Project # S342 008-05.** Construction of a mechanically stabilized earthen perimeter berm for a landfill expansion to enable the vertical expansion of the landfill within the existing facility boundary and enable excavation work to be done within existing landfill footprint.
Trenton City	$ 9,945,380	$ -	A/D	**Project # W1111001-010.** Rehabilitation of distribution system by cleaning and lining existing water mains and replacement of unlined mains with cement motor lined ductile iron piping and looping mains to avoid dead ends.
Village of Lake Glenwood	$ -	$ 811,765	B/D	**Project # W1922010-008 (Nano).** Well treatment upgrades or new wells to correct deficiency in ground water quality to correct for detectable levels of e-coli.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Wanaque Valley RSA	$ 1,360,524	$ -	A/C	**Project # S340 780-04-1.** Capital improvement projects including: installation of new gas generators at wastewater treatment facility and at main pumping station; mechanical aerators and drives with increased aeration capacity for existing oxidation ditch process system; upgrade of three influent pumps and drives to 40 horse power, installation of rotary drum sludge thickener system, non-potable water pumps, dilution water pumps and drives, mixers on sludge holding tanks and upgrade of discharge channel ultraviolet disinfection system.
Washington Twp MUA	$ 903,817	$ 2,916	B/C	**Project # S340 930-03.** Replacement of the Virginia Drive Pump Station and various sanitary sewer main rehabilitations and replacements.
Washington Twp MUA	$ -	$ 3,143	B/C	**Project # S340 930-04.** Replacement of Forrest Drive Pump Station which is nearing end of its useful life. Project includes the demolition of existing raw sewage wet well/dry well pump station and furnishing and installation of a raw sewage pump station.

Borrower	Loan Program		Source of Funds	Project Description
	Short-Term Loan			
	Construction / SAIL Proceeds	Long Term Loan (Increase/Decrease) Proceeds		
Washington Twp MUA	$ 395,032	$ 1,009	B/D	**Project # W0818004-009.** Replacement of existing water main with larger main due to age and condition and to improve water systems hydraulics.
Washington Twp MUA	$ -	$ 4,073	B/D	**Project # W0818004-011.** Painting of elevated water storage tank on interior and exterior as tank is nearing its 20-year life and repainting will extend useful life.
Washington Twp MUA	$ -	$ 391	B/D	**Project # W0818004-012.** Improvements to billing building and security at well houses including installation of security cameras to protect MUA staff and water system.
Washington Twp MUA	$ -	$ 1,101	B/D	**Project # W0818004-014.** Drilling replacement Well 2 as a replacement potable water supply for Well 2 which needs replacement due to its age.
Willingboro MUA	$ 5,487,959	$ -	A/D	**Project # W0338001-009.** Construction of radium treatment facility to remove radiological contaminants from potable water supply well.
Financing in SFY2017 Fiscal Year:	**$ 451,439,198**	**$ 49,196,687**	**Total Proceeds Lent in SFY2017**	
	$ -	**$ (2,049,144)**	**Premium received on new issue Bond deals**	
	$ 451,439,198	**$ 47,147,543**	**Total Net Proceeds Lent in SFY2017:**	**$ 498,586,741**