

# **NEW JERSEY ENVIRONMENTAL INFRASTRUCTURE FINANCING PROGRAM**

**STATE FISCAL YEAR 2016  
PRIORITY SYSTEM AND  
PROJECT PRIORITY LIST**

**Submitted to the State Legislature by**

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

**JANUARY 2015**

# New Jersey Environmental Infrastructure Trust

## **Public Board Members**

Warren H. Victor, Chairman

Robert A. Briant, Jr., Vice Chairman

Roger Ellis, Treasurer

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## **Ex-Officio Members**

Andrew P. Sidamon-Eristoff, New Jersey State Treasurer

Bob Martin, NJDEP Commissioner

Richard E. Constable, III, 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

**By**

**Bob Martin, Commissioner**

New Jersey Department of Environmental Protection

**Warren H. Victor, Chairman**

New Jersey Environmental Infrastructure Trust

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New Jersey  
Environmental  
Infrastructure Trust



New Jersey  
Department of  
Environmental  
Protection

January 12, 2015

**TO:** Honorable Members of the New Jersey State Legislature

**FROM:** Bob Martin, Commissioner, New Jersey Department of Environmental Protection, and  
Warren H. Victor, Chairman of the Board, New Jersey Environmental Infrastructure Trust

**SUBJECT:** State Fiscal Year 2016 New Jersey Environmental Infrastructure Financing Program

### **Introduction**

The New Jersey Department of Environmental Protection (DEP) and the New Jersey Environmental Infrastructure Trust (Trust), in accordance with N.J.S.A. 58:11B-9(d) 20 and 20.1, are pleased to present the New Jersey Legislature (Legislature) with this report (January Report) summarizing both the project priority system and the initial projects identified for financing in the New Jersey Environmental Infrastructure Financing Program (NJEIFP or Financing Program) for State Fiscal Year (FY) 2016 as well as projects eligible to participate in the Disaster Relief Emergency Financing Program. Within the next few months the Trust will present the Legislature with the May Report setting forth the plan by which those projects participating in the FY2016 Financing Program will be funded.

This January Report identifies an initial pool for the FY2016 Financing Program of **156 projects** with an estimated value of **\$1.03 billion**, continuing to demonstrate the Financing Program's strong commitment to meeting the State environmental infrastructure needs.

### **Background**

The Trust was created by the Legislature in 1986 in recognition of the State's need for an independent State Authority to manage the efficient and low cost financing for environmental infrastructure projects. Through the Financing Program the DEP, together with the Trust, ensure that the State's water infrastructure (which is critical in protecting public health, water quality, the State's natural resources and supporting economic growth) is properly constructed to meet State and Federal standards.

For the past 28 years, the DEP and the Trust have partnered with a focus on cost and operational efficiencies to leverage State and Federal funds and loan repayments through Trust publicly issued bonds to provide the lowest possible interest rate loans to Financing Program participants for the construction of environmental infrastructure projects. To date:

- NJEIFP has issued over **\$6.32 billion** in low-interest loans,
- NJEIFP has consistently received and maintained the highest AAA ratings from the three national independent rating agencies, allowing participants in the Financing Program to receive the lowest possible available financing rates for their environmental infrastructure projects,
- The Trust's multi-agency AAA bond rating, combined with the DEP's 0% interest rate loans, have enabled New Jersey's taxpayers and ratepayers to save more than **\$2.22 billion** in interest costs, and
- With respect to economic development, NJEIFP's total loan spending has generated more than **122,800** direct construction-related jobs throughout the State.

Projects eligible for funding through the Financing Program involve a wide variety of wastewater systems, stormwater systems, and potable drinking water systems. Specific projects include, but are not limited to; waste water treatment plant construction, upgrades and improvements, combined sewer overflow abatement facilities, and stormwater management activities, including land preservation, all of which serve to keep pollutants out of the State's rivers, lakes and other water bodies in order to create a cleaner, healthier environment while simultaneously promoting safer health and recreational opportunities. Projects that improve potable water treatment and distribution systems in order to provide safe drinking water to the residents of New Jersey are also eligible for funding through the Financing Program.

Unique to this year, the State of New Jersey was appropriated \$229.327 million in additional federal SRF grant funds through Federal P.L. 113-2 (the Disaster Relief Appropriations Act of 2013) for environmental infrastructure resiliency projects involving Clean Water (CW) and Drinking Water (DW) systems affected by Superstorm Sandy. Lastly, a new short-term financing program is now available for projects to repair environmental infrastructure damaged during recent disasters as well as projects that improve resiliency of such infrastructure in future disasters. The Disaster Relief Emergency Loan Financing Program, more commonly referred to as the "Statewide Assistance Infrastructure Loan Program" or "SAIL," requires the Trust to publish a list of eligible projects, the Disaster Relief Emergency Financing Program Eligibility List (Emergency Eligibility List). All projects requesting SAIL funding must be certified by the Commissioner of the DEP prior to SAIL funding being made available by the Trust. A description of the SAIL Program as well as the Emergency Eligibility List are set forth in this January Report.

### **FY2014 (Recap)**

This Report also contains a summary of the projects funded in the most recently completed fiscal year (FY2014). ). A total of eighty-two (82) clean water and drinking water projects received NJEIFP financing in the amount of \$243,422,352. The breakdown between clean water and drinking water is as follows:

forty-seven (47) clean water projects received financing in the amount of \$187,378,335. Thirty-five (35) drinking water projects received financing in the amount of \$56,044,017. The large majority of loans were issued at interest rates equivalent to 25% of the market rate. Of the 82 projects, 6 clean water and drinking water projects received supplemental loans in the amount of \$26,270,209. The supplemental loans were issued at funding ratios consistent with the original loans. In addition, a number of the FY2014 projects received Interim Financing Program (IFP) loans. IFP loans provide funding in advance of long-term financing to allow projects to begin construction when they are ready. Six (6) clean water projects received IFP loans in the amount of \$6,000,801 and eleven (11) drinking water projects received IFP Loans in the amount of \$6,425,974. All 82 projects received long-term financing by June 30, 2014.

The Program also issued its first SAIL loan in FY2014 in the amount of approximately \$3.0 million. The SAIL Loan was issued to the South Monmouth Regional Sewerage Authority (SMRSA) for the relocation of its Lake Como Pump Station, Lake Como Township, from a flood hazard area. This short-term “bridge-loan” was issued at an interest rate equivalent to twenty five percent (25%) of the 1-year AAA market rate resulting in an effective pass-through interest rate of 0.045%. The loan was issued on February 7, 2014 and matures on June 30, 2015, a duration of 15 months, and will provide funding through to project construction completion.

#### **FY2015 (To Date)**

The Financing Program is currently undergoing its annual review and certification process for those projects approved and appropriated in last year’s legislation. In FY2015, the Financing Program expects to term-fund approximately ninety (90) projects representing a total appropriated amount of \$462 million. An additional 70 projects totaling an appropriated amount of approximately \$452 million are expected to receive certification for funding after the deadline for the Program’s term-bond issuance but are expected to receive an IFP loan to begin construction prior to the June 30<sup>th</sup> fiscal year-end. Operationally, the DEP and the Trust have made significant strides in the past two years in process optimization by leveraging web-based technology to allow the Financing Program to review, certify and fund projects that are ready to proceed to construction at a pace unheard of in the past. So far in this fiscal year, the DEP has certified, and the Trust has issued, short-term financing that has allowed construction to begin on sixteen (16) projects. This construction activity, some of which began back in July of 2014, would have formerly been delayed until the Financing Program’s annual bond offering in May 2015.

The Program issued a second SAIL loan in FY2015 in the amount of approximately \$1.5 million, again to SMRSA, for the replacement of its Pitney Avenue Pump Station. SMRSA’s second SAIL loan was issued at an interest rate equivalent to twenty five percent (25%) of the 1-year AAA market rate resulting in an effective pass-through interest rate of 0.0325%. The loan was issued on September 23, 2014 and expires on September 22, 2015, and will provide funding through to project construction completion. A third SAIL



loan totaling approximately \$6.3 million to the Kearny Municipal Utilities Authority for the replacement of two pump stations is expected to close in January.

## **FY2016**

Given the growth of distinct loan programs being offered to accommodate the various project-types - and sources of funding, the Trust and the DEP have undertaken a program-wide technology and branding initiative, under the umbrella moniker **H<sub>2</sub>LOans**, which aggregates all short and long-term financing alternatives available to eligible Financing Program participants under one general initiative. By aggregating all borrower, project and loan information onto a single web-based platform, constituent borrowers, as well as DEP and Trust staff, are benefitting from multiple time and cost efficiencies, allowing more projects to be funded faster, with less effort and less errors and less expense.

For the FY2016 Financing Program, **H<sub>2</sub>LOans** has two main Short-Term financing components; **(ST1) Construction Loan Program** (formerly, Interim Financing Program), and the **(ST2) SAIL Program** for emergency financing, as well as three main Long-Term financing components; **(LT1) Base State Revolving Fund Program** (Base SRF) for CW and DW projects, **(LT2) Sandy SRF** for projects that promote resiliency at water systems effected by Superstorm Sandy, and **(LT3) Trust-Only loans**.

### **ST1. Construction Loan Program (CON)**

The CON is an annual loan program wherein temporary funds are made available for projects that are certified by the DEP and have awarded a construction contract in advance of the Financing Program's annual bonding cycle. Such loans are meant to be paid back through a traditional Base SRF loan funded through the issuance of Trust's bond sale, typically upon completion of project construction. Such loans allow projects to begin the construction process sooner than the annual bond issuance and be based upon each borrower's need and timing.

### **ST2. SAIL Financing Program (SAIL)**

The legislation enacting SAIL was signed into law by Governor Christie in August of 2013 (P.L.2013, c.93). SAIL is specifically designed to offer municipalities and certain private water purveyors, quick access to temporary, low-cost, short-term funds as bridge loans in the aftermath of a disaster in lieu of federal program grants offered in the form of reimbursements. By their nature, federal grant programs require communities to advance the cost of projects prior to the disbursement of the federal grants. The task and expense of rebuilding the affected critical infrastructure components in the State can be a costly undertaking and has the potential to strain the financial resources of many hard hit communities. Unique in the country as a method to utilize SRF funds to provide bridge loan financing to targeted FEMA municipal recipients for environmental infrastructure projects, New Jersey's SAIL Program is designed to alleviate these financial stress points. The Trust may utilizing guarantee funds within the Financing Program to collateralize competitively procured, short-term loan funds from private lending institutions

so as to minimize the interest cost and expense of such funds and then re-offer such funds at subsidized levels to DEP's eligible borrowers. Since being signed into law, the DEP and the Trust have worked with a number of essential stakeholders including a variety of potential borrowers as well as FEMA, NJOEM and the NJBA, to develop the SAIL Program and associated processes necessary to ensure its effective execution. The Financing Program is currently working with 7 projects which have submitted requests for SAIL funds requesting a total of approximately \$140 million. In addition, the SAIL Program is a permanent component of the NJEIFP, set to provide temporary bridge loans for all future disaster-affected, environmental infrastructure needs.

#### **LT1. Base SRF for CW and DW Projects**

The DEP is in the process of reviewing the aforementioned 156 CW and DW initial project submissions in the FY2016 Financing Program to draft environmental assessments and evaluate the need for permits/approvals to implement these projects. The initial project submissions range in form from equipment purchases and water and sewer line repair or replacement to complex regional treatment plant expansion, upgrade projects, backup power generation projects and generator purchases and flood resiliency projects. As applications are received and the DEP's engineering and environmental review of these projects progresses over the ensuing year, the DEP and the Trust will be able to offer a clearer picture as to which CW and DW projects are eligible for which appropriate sources of funds. The breakdown between CW and DW applications is currently as follows:

- Clean Water (CW) Projects: 80 Projects / \$787.5 million
- Drinking Water (DW) Projects: 76 Projects / \$243.3 million

As in years past, the Base SRF Program includes specific CW set-asides for (i) Barnegat Bay, (ii) Combined Sewer Overflow Abatement (CSO) projects, and (iii) small-system DW (Nano) projects. The highest priority ranked Drinking Water projects will be eligible to receive a portion of their State DEP loan in the form of a Principal Forgiveness loan.

##### *i. FY2016 Barnegat Bay Projects*

Continuing the focus of Governor Christie's Barnegat Bay initiative, the FY2016 Financing Program has set aside up to \$3 million in principal forgiveness funds for 50% of the eligible costs for Barnegat Bay Stormwater projects that facilitate the removal of pollutants from entering the Barnegat Bay. The remaining 50% of funding will be provided by a 0% DEP loan and a AAA market rate Trust loan, each for 25% of the total loan amount. In the four years since Governor Christie's announcement of his Barnegat Bay initiative in FY2011, the Administration has made available over \$68 million (\$35 million in principal forgiveness loans and \$33 million in low-interest cost loans) for stormwater improvements in Barnegat Bay.

##### *ii. FY2016 CSO Abatement Projects*

The DEP is also reserving a maximum of \$3 million in principal forgiveness funds for up to 50% of the allowable project costs (not to exceed \$1 million per project sponsor) for CSO abatement projects with a

focus on utilizing green practices, such as green roofs, rain gardens, porous pavement, and other activities that maintain and restore natural hydrology through infiltration, evapotranspiration, usage, or the harvesting of stormwater. In addition, the DEP is reserving \$500,000 from the CSO reserve for integrated water resource planning.

iii. A. *FY2016 Small Systems "NANO" Loan Program*

The NANO loan program provides \$4 million in subsidized loans to small system DW projects (those serving a population of 10,000 or less) by offering a loan package that consists of a 50% principal forgiveness loan, 25% DEP loan at 0% and 25% Trust market-rate loan and waiving many program administrative and underwriting fees associated with the Base SRF program. As many small systems lack the resources of larger systems, the NANO loan program incentivizes small systems to participate in the Financing Program to complete critical repairs and invest in necessary upgrades by greatly reducing the cost of such participation. It is estimated that for each loan dollar of eligible project costs and loan expenses, a NANO recipient will be required to repay approximately only 67% of those total costs and expenses, including interest.

B. *FY2016 Very Small Systems "NANO-Lite" Program*

A sub-component of the SS-NANO Program, the VSS NANO-Lite loan program provides up to \$500,000 of the total available NANO funds as 100% principal forgiveness loans to very small systems (those serving a population of 500 or less). As many of the very small systems lack even the basic resources to manage a capital improvement program, NANO-Lite loans allow these smallest water systems the ability to procure financing to address all or most of their critical capital improvement needs through the NANO Program.

In FY2014, the first program year, the \$4 million NANO loan program was oversubscribed providing loans to 5 communities serving approximately 22,000 residents. In FY2015, the DEP and Trust estimate that as many as ten (10) projects will receive funding through this incentive, with one NANO-Lite recipient expected to be willingly absorbed by the surrounding Township MUA once the improvements have been completed.

**LT2. Sandy SRF for CW and DW Projects**

In the time since Superstorm Sandy caused billions of dollars' worth of destruction across the State, the DEP and the Trust have worked diligently with communities offering assistance on a host of environmental infrastructure repair and resiliency issues. Interaction with a number of critical facilities and associated stakeholders enabled the State to receive an allocation of \$229.327 million of special SRF appropriations from the federal government for Sandy impacted water treatment and distribution systems. As with all SRF grants, the State is required to match fund 20% of this federal grant total (\$45.87 million), and specific to this appropriation, the State can use no more than 30% of its federal grant funds as principal forgiveness loans. The EIT in turn, will leverage all funds by 33.3% to produce a 75% State-DEP / 25% Trust financing program, of which, approximately 19% of a total Loan will be offered by the State-DEP as principal forgiveness funds. As a result, after a reduction for administrative expenses, the Sandy SRF Program will

offer \$354.69 million in loans to eligible Borrowers with \$68.69 million of this total being offered as non-repayment, principal forgiveness loans.

### **LT3. Trust-Only Loans**

In the event that a Program Borrower is issued a short-term loan (CON or SAIL) from the Financing Program, and has stranded costs which are ineligible to be jointly funded through the SRF Program, the Trust will provide the opportunity for such Borrower to convert its short-term loan into a long-term Trust Loan at the Trust's then available AAA-rated market rate. An example of such a situation would be a CON or SAIL loan which becomes due and payable without the benefit of timely reimbursement from a federal grant program.

### **Other Program Highlights**

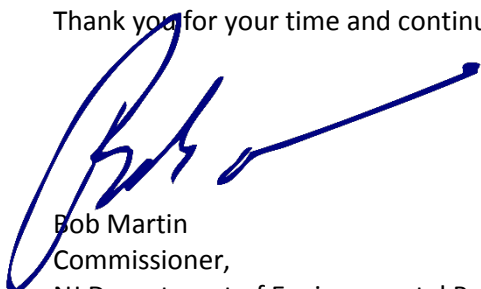
For FY2016, the DEP and the Trust will continue to revise the NJEIFP to maximize the use of available funds for environmental infrastructure construction purposes. Highlights of the FY2016 Financing Program are as follows:

- **SOURCE OF FUNDS MIX:** As in recent years, the Financing Program will continue to offer Traditional Base SRF loans at 25% of market rate (25% funded with Trust AAA-rated public bonds and 75% funded with DEP 0% funds). This level is a cut from the Financing Program's historic 50%/50% split, done so in order to further reduce interest costs to NJEIFP borrowers in an effort to spur needed environmental projects, construction employment and economic development during what continues to be a fiscally challenging time for many of the State's local municipalities. At today's current interest rates, the additional 25% of funding from the State offered at a 0% interest rate will decrease a project participant's debt service by an additional 11% of their total loan's face value, saving taxpayers and rate payers a further \$110,000 for each \$1 million borrowed, and granting participants a total expected interest cost savings of approximately \$325,000 per \$1 million in lent Financing Program funds when compared to independent financing options.
- **DW PRINCIPAL FORGIVENESS LOANS:** Dependent upon the provisions of the federal FY2015 SRF capital grant allocations to New Jersey, any funds remaining available for principal forgiveness loans after accounting for the SS NANO and VSS NANO-Lite loan programs will be made available to the highest ranked general DW projects.
- **BROWNFIELD & GREEN RESERVES:** As in the past, the Financing Program is offering combined Financing Program set-asides to support (i) Brownfield Redevelopment projects and (ii) the implementation of projects with "green" features, which tie back to water quality improvement. For FY2016, approximately \$30 million is being made available for eligible "green" projects that include those designs which utilize improved technologies that directly reduce energy consumption through the production and utilization of renewable energy or the implementation of water efficiency measures.

- **EASE OF CASH FLOW:** In addition to interim, short-term financing and emergency bridge loans, participants in any of the H<sub>2</sub>LOans funding Programs will continue to be offered opportunities to schedule loan repayments in a format that closely matches each project's unique construction profile with a participant's anticipated revenue timeframes. Flexibility includes deferred principal payments and capitalized interest – up to three years, as well as a generous definition for qualifying, allowable costs; parameters designed to minimize both the cost and effort required of local communities to implement environmental infrastructure improvements.
- **ASSET MANAGEMENT:** Responsible management of wastewater, stormwater and drinking water treatment and distribution systems in the form of an Asset Management Plan (AMP) will now be required for every project as a prerequisite to funding from the Financing Program. Consistent with certain Financing Program requirements as mandated by the Water Resource and Reform Development Act (WRRDA), which was signed into Law by President Obama in June of 2014, the FY2016 Financing Program requires all project components which receive funding through the NJEIFP to have in place, or commit to develop, AMPs and provide the NJEIFP with both a technical (engineering) and financial certification outlining the long-term maintenance and replacement plan for the project's components as well as the corresponding fiscal sustainability plan for the project respectively.
- **TRACK II LOANS:** The Financing Program has re-opened its annual "Call for Projects" to allow project sponsors seeking financing from the Trust, but who missed the initial commitment letter date in October 2014, to participate in the FY2016 Financing Program.

We look forward to meeting with the Legislature to discuss this upcoming year's Financing Program. We and our staff remain available to answer any questions you may have regarding the NJEIFP's initial FY2016 Project Priority List and the FY2016 Emergency Eligibility List contained within this Report.

Thank you for your time and continued support for this worthwhile, infrastructure financing program.



Bob Martin  
Commissioner,  
NJ Department of Environmental Protection



Warren H. Victor  
Chairman,  
NJ Environmental Infrastructure Trust

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# **JANUARY REPORT**

## **FOR STATE FISCAL YEAR 2016**

### **PRIORITY SYSTEM AND PROJECT PRIORITY LIST**

#### **FINANCING PROGRAM BACKGROUND**

##### **INTRODUCTION**

This January Report (Report) is submitted to the New Jersey State Legislature (Legislature) in accordance with 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 Environmental Infrastructure Trust (Trust) and the New Jersey Department of Environmental Protection (“Department” or “DEP”), which together fund and manage H2LOans, a suite of short and long term financing options offered through the New Jersey Environmental Infrastructure Financing Program (NJEIFP or Financing Program).

This Report summarizes the method employed to prioritize projects and establish project rankings for the State Fiscal Year (SFY), beginning July 1, 2015. In May, the Trust and the Department jointly publishes the May Report summarizing the financing program to be implemented to fund specific projects receiving Financing Program certification for the ensuing SFY. State appropriations are required for all projects prior to receiving long-term NJDEP and Trust financing. Typically, bills are introduced in the Assembly and Senate in early May, passage by both houses occurs prior to the summer recess and the Governor signs the bills into law during the summer recess.

In addition, this Report is submitted to the Legislature to summarize projects financed in SFY2014 through interim financing loans and long-term loans. The NJEIT is required to summarize projects receiving SFY2015 Interim Financing Program (IFP) loans in the May, 2015 Financial Plan (May Report) pursuant to N.J.S.A. 58:11B-21 and 21.1. However, given the fact that the Financial Plan is published prior to the end of the Fiscal Year, the summary set forth therein will be incomplete. As such, the complete list of projects financed in the SFY2015 Financing Program will be set forth in the January 2016 Report. Note that also given legislative changes authorizing multiple year IFP loans, and the benefits of issuing interim financing for the duration of construction, commencing in the SFY2016 Financing Program, IFP loans will be referred to as Construction Loans.

##### **SFY2016 H2LOANS**

The Financing Program issues traditional long-term loans to finance the construction costs, including eligible planning and design, engineering and administrative expenses, for environmental infrastructure projects. Since the Program’s first loan in 1987, the maximum term of CW loans has been limited by both State statute and federal law to the shorter of 20 years or an asset’s average useful life. However, in June of 2014, President Obama signed the Water Resources Reform and Development Act (WRRDA). One of the components of WRRDA is to allow State Revolving Fund (SRF) Programs, such as



the NJEIFP, to lend Clean Water SRF loans for terms as long as 30 years. This brings the State's Clean Water SRF program in line with the Drinking Water SRF Program in terms of the ability to lend both grant and repayment monies for as long as 30 years. While the Trust is presently constrained by its Enabling Act to issue bonds for no longer than 20 years, an amendment in proposed legislation (A-3548/S-2354) would authorize the issuance of 30 year bonds. If enacted into law, new NJEIFP loans would be extended for terms equal to the lesser of a project's useful life or 30 years for project categories to be identified in the May, 2015 Financial Plan.

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## NEW INITIATIVES

The NJEIFP is undergoing a number of initiatives as a result of the enactment of WRRDA and new programs authorized in the Trust's recent Enabling Act.

- i. **Asset Management:** In addition to permitting longer loans terms for specific assets, the federal WRRDA law requires a recipient of a loan for a project that involves the repair, replacement, or expansion of a treatment works to develop and implement a Fiscal Sustainability Program (FSP) wherein the borrower will: 1) inventory and evaluate the condition of critical assets; 2) certify that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan; and 3) present a plan for maintaining, repairing as necessary, replacing the treatment works and funding such activities. 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 an AMP program that will assist borrowers in fulfilling this federal requirement. The Financing Program's AMP will include 1) a description of what is required as well as any corresponding implementation time table, 2) the retainage by the Department and/or Trust of any necessary professional services to assist the Financing Program in implementing and monitoring such an AMP, 3) the development of templates and standardized planning tools to assist borrowers with their creation of the AMP, and possibly, 4) the creation of an internship program with local colleges and universities whereby students in related technical and environmental programs will have the opportunity to assist systems with the identification and categorization of system assets (including quantification of remaining useful lives and replacement cost estimates) in a manner that will save NJEIFP's borrowers time and resources while affording the internship participants with relevant real-world experience and industry contacts.
- ii. **Multi-Year, Short-Term Construction Loans:** The legislature authorized the Financing Program to make short-term construction loans for a period not to exceed 3 full fiscal years. By allowing the Trust to make temporary loans to borrowers covering 100% of a typical project's construction period, the Financing Program will then only convert actual project costs incurred into long-term loans. This initiative is intended to minimize both the total cost of financing and any post-loan closing administrative requirements for both borrowers and the NJEIFP in the current Financing Program.
- iii. **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 in financing environmental infrastructure project that repair impacted systems or provide resiliency to systems that might have otherwise been impacted by such disasters.

## FINANCING PROGRAM OFFERINGS

### LONG-TERM FINANCING

NJEIFP H2LOans offers environmental infrastructure loans to Applicants in the form of long term loans established in accordance with either the provisions of the Base SFY2016 NJEIFP or Sandy NJEIFP. The expenditure of CWA and SDWA funds necessitates the NJEIFP's compliance with various federal requirements such as the development of an annual Clean Water Priority System, Intended Use Plan, and Project Priority List (CW Plan) and a Drinking Water Priority System, Intended Use Plan, and Project Priority List (DW Plan) both of which are summarized in this January Report.

- i. **Base State Fiscal Year (SFY) 2016 NJEIFP:** loans typically consist of a market rate Trust loan component and a zero interest rate State DEP loan component. The net effect is a loan to the Applicant at an interest rate equivalent to between 25%-50% of the market rate. Limited opportunities for principal forgiveness are also available as discussed below.

The Base SFY2016 program provides long-term financing for the construction of environmental infrastructure projects that enhance and protect ground and surface water resources, ensure the safety of drinking water, and facilitate responsible, sustainable economic development (a) unrelated to Superstorm Sandy recovery, (b) to repair systems adversely impacted during Superstorm Sandy or (c) to improve the resiliency of unimpacted systems in future disasters. In addition, long-term financing opportunities are available for small drinking water systems through the Small Water System Loan Program and the Very Small Water System Program.

The sources of funds for the State loan component of Base NJEIFP Loans are funds received: 1) by the State pursuant to the Water Pollution Control Act Amendments of 1972 (CWA) and Safe Drinking Water Act Amendments of 1996 (SDWA) in the form of United States Environmental Protection Agency (USEPA) capitalization grants 2) various state bond issues, 3) loan repayments and 4) interest earnings.

- ii. **Sandy NJEIFP Loans:** where up to 19% of eligible project costs are subject to principal forgiveness and the remaining loan is at an interest rate equivalent to between 25% and 50% of the market rate.

The Sandy Program provides long-term financing for projects to improve the resiliency of systems adversely impacted during Superstorm Sandy.

The sources of funds for the State loan component of Sandy NJEIFP Loans are funds received by the State from the CWA and SDWA in the form of special appropriations through the Disaster Relief Emergency Appropriations Act of 2013 (PL 2013-2).

- iii. **Trust Only Loans:** H2LOans also offers environmental infrastructure loans to Applicants in the form of Trust only long term loans available to projects which are ineligible to receive financing through either Base or Sandy funding sources. Trust only loans are typically issued at the Trust's AAA market rate, the source of funds for which is the sale of competitively marketed Trust bonds secured by the underlying repayments of and the borrower's commitment to such repayments.

- iv. **Supplemental Loans:** Periodically, a project's costs exceed the amount financed in its Long-Term or Direct Loan due to differing site conditions or when the low bid building cost exceeds the original loan amount. Such costs may be eligible to receive financing through a Supplemental Loan. See N.J.A.C. 7\_22-3.11. The loan requirements for a supplemental loan are identical to that of the Long-Term loan subject to the following exceptions: revised planning documents, and design documents are not required provided the project scope has not increased. The Trust to Fund loan ratio (e.g., 25% Trust and 75% Fund) for Supplemental Loans is generally identical to that of the original project loan. As of January, 2015, one (1) SFY 2016 supplemental loan applications for \$886,000 million is under review.

The Trust portion of the Base NJEIPF and Sandy NJEIPF and the Trust Only Loan is generally the sale of competitively marketed Trust bonds secured by the underlying borrower's commitment to repayments. The Bond Sale for the SFY2016 Program Year is expected to occur in May of 2016 and loan closings will occur immediately thereafter. The Trust may also utilize its own funds through the making of Direct loans. Direct Loans are generally available for small projects for government agencies that are either fiscally constrained or lack the administrative capability to participate in a complex bond transaction. Loan closing for SFY2016 Direct Loans is scheduled for the end of May, 2016.

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#### SHORT-TERM FINANCING

H2LOans also offers temporary financing opportunities through SAIL, the Construction Loan Program, the Emergency Loan Program and the Planning and Design Loan Program. Details of these loan programs are set forth below. Additional information regarding the project priority list and various H2LOans loan products is set forth in section II below and a detailed explanation of the loan programs will be set forth in the SFY2016/Sandy Recovery May Report.

- i. **SAIL:** Short-term financing for projects to repair systems adversely impacted during natural disasters and/or improve the resiliency of systems.
- ii. **Construction Loan Program (formerly IFP) Loans:** Short-term financing for projects approved for long-term NJEIPF loans.
- iii. **Emergency Loans:** Utilized to provide funding for the immediate response to environmental infrastructure emergencies that may occur that endanger public health and welfare and can result in substantial environmental damage.
- iv. **Planning and Design Loans:** Utilized to finance the cost of environmental planning and engineering design services.

## GOALS

The main objectives of H2LOans 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 cost much lower than program participants could achieve individually thereby passing substantial savings onto New Jersey taxpayers and rate payers; and
- Improve participants' access to capital markets for those participants that find it difficult or expensive to gain access to capital markets on their own, due to lower credit ratings or a lack of familiarity with debt financing.

## ELIGIBLE PROJECTS

H2LOans finances 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 certain types of public water utilities. Projects eligible to receive Clean Water funding are wastewater management, storm water management and non-point source pollution control projects, landfill closures, open space land acquisition, brownfield remediation and well sealing. Projects eligible to receive Drinking Water funds are utilized for rehabilitation or development of sources to replace contaminated 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.

Loans may be made only to local government units, and certain types of public water utilities and private water systems. Applicants must demonstrate an ability to meet repayment obligations and satisfy the Program's credit worthiness standards, which typically requires an investment grade credit rating or a suitable credit enhancement with most borrowers providing a municipal general obligation pledge.

## BORROWER SAVINGS

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

## DOLLAR SAVINGS

- Earnings Credits – Investment earnings from all bond funds, such as the project fund, revenue fund and when applicable the debt service reserve funds, are distributed to borrowers as credits toward their debt service payments.
- No bond insurance required - The Trust's financial structure produces the highest possible credit rating without the expense of purchasing costly bond insurance.
- Minimized financing costs - Program costs are allocated to each borrower's pro-rated share of a bond series. This means the cost of bond issuance is shared among borrowers proportionately based on each borrower's project loan amount.
- No front-loading requirement – Local Government units 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.
- Net Funding – Each borrower submits a loan drawdown schedule. Funds may be invested by the Trust and may accrue earnings that are used to reduce a borrower's loan obligation.
- Refunding – The Trust continually monitors market conditions to assess when interest rates meet the Trust's savings threshold for refunding prior bonds. All savings realized from prior bond refundings, a total of \$100.5 million, are passed on to borrowers, further lowering loan costs.
- Debt service reserve fund – Most 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 structure

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## CASH FLOW

- Upfront Cash – The disbursement of funds is expedited based on a rapid requisition approval process thereby relieving Borrowers from utilizing cash on hand to temporarily pay contractors.
- Capitalized interest – Loans may include all or part of construction period interest costs. Additionally, borrowers may defer repayment on principal until completion of the capitalized interest period.
- 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.
- Flexible Term - Shorter term financing is available for borrowers who wish to avoid a 20-year obligation.
- Deferred Principal Repayment – To better align a project's cash flow dynamics, borrowers are allowed to defer principal repayment for up to 36 months from the time of bond closure.

## ADMINISTRATIVE

- No Arbitrage Worries - The Trust manages federal 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, no single borrower is a material obligated entity. As a result, Financing Program borrowers are not required to fulfill secondary disclosure requirements.
- Timely Decisions – The DEP prioritizes Financing Program project reviews

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## SFY2014 NJEIFP SUMMARY

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### OVERVIEW

Appendices J and K set forth a summary of the projects funded in the most recently completed fiscal year (SFY2014). A total of eighty-two (82) clean water and drinking water projects received NJEIFP financing in the amount of \$243,422,352 in SFY2014. Forty-seven (47) clean water projects received financing in the amount of \$187,378,335. Thirty-five (35) drinking water projects received financing in the amount of \$56,044,017. The large majority of loans were at an interest rate equivalent to 25% of the market rate. Of those projects, six (6) combined clean water and drinking water projects received supplement loans in the amount of \$26,270,209. Each loan was issued at a funding ratio consistent with that of the original loan.

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### PROJECTS

- Bond Pool Projects:** Of those projects, seventy-four (74) projects at a cost of \$237,659,779 were funded through a combination of bond proceeds and state and federal funding sources.
- Direct Loan Projects:** A total of eight (8) projects at a cost of \$3,762,573 were funded through a combination of Trust funds and state and federal sources.

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### IFP LOAN PROJECTS

In SFY2014, seventeen (17) clean water and drinking water projects received IFP loans in the amount of \$12,426,775. Six (6) clean water projects received IFP loans in the amount of \$6,000,801 and eleven (11) drinking water projects received IFP Loans in the amount of \$6,425,974. All projects received long-term financing by June 30, 2014.

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### SAIL LOANS

The Trust approved its first disaster emergency SAIL Program loan on December 12, 2013 to the South Monmouth Regional Sewerage Authority for the relocation of a pump station in Spring Lake, NJ. A total of two (2) SAIL Loans for two (2) projects were issued in the total approximate amount of \$4.5 million as of January 1, 2015. The Financing Program expects to issue a total of seven (7) additional SAIL Program loans prior to June 30, 2015 for a total of approximately \$140 million. These SAIL loans will facilitate the cash flow needs of the borrowers and minimize the financial stress on the affected

community's rate payers and taxpayers as well as allow the undertaking of construction projects months in advance of when such projects might have otherwise begun.

## H2LOANS FINANCING PROGRAM STRATEGY

### PRIORITY SYSTEM, INTENDED USE PLAN, AND PROJECT PRIORITY LIST

#### BASE SFY2016 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 CW Plan was published on September 10, 2014. The proposed DW Plan was published on September 10, 2014. This Report, in part, reflects the contents of the proposed CW and DW Plans for both the Base SFY2016 NJEIFP and Sandy NJEIFP.

Sources of funding for Superstorm Sandy projects for FFY2015/SFY2016 will come from the unused portion of FFY2014 Disaster Relief Appropriations Act ("DRAA"), and authorized funds from the New Jersey Department of Environmental Protection and the New Jersey Environmental Infrastructure Trust. Although the Department is working to award all of the Sandy CWSRF and DWSRF funds in the SFY2015 Program, there is the possibility that the amount of approvable projects in the SFY15 program does not utilize all of the available Sandy CWSRF and DWSRF funds. Therefore, the Department will continue to accept submittals under the Sandy CWSRF and DWSRF Program, which includes a principal forgiveness component of approximately 18.75% of the allowable costs. If all of the Sandy CWSRF and DWSRF funds are awarded in SFY2015, new submittals will continue to be eligible under the 75% DEP and 25% Trust loan structure.

The total amount of Superstorm Sandy DW loans issued to any project sponsor shall not exceed \$15,000,000, and no more than a total of \$4,500,000 may be a principal forgiveness loan. The loan cap exists to ensure that all project sponsors have access to this Superstorm Sandy funding. If a project sponsor submits multiple drinking water project loan applications that are eligible for Superstorm Sandy DW loans and exceed the \$15,000,000 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. The amount of principal forgiveness available through Sandy DW loans may be increased to ensure full utilization of Superstorm Sandy DWSRF funding for drinking water projects.

Note however, that based on Sandy DW loan applications received in March of 2014, it appears the availability of Sandy DW loans will be limited in FFY16.

As in the SFY2015/FFY2014 IUP, the Department is reserving 4% of the Sandy drinking water capitalization grant for program administration and reserving an amount equal to the 20% State Match to ensure that the source funding the State Match is used in a manner compatible with its source of origination.

## PRIORITY SYSTEM

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 in Section III B below. A single priority system is utilized for the CW Base SFY2016 NJEIFP and CW Sandy financing program. Two separate priority systems are utilized for the DW Base SFY2016 NJEIFP and DW Sandy financing program.

The CW Plan and DW Plans priority systems also 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. Highest ranking systems are those that address discharges of raw, diluted or inadequately treated sewage to the State's waters during wet weather. In addition, the FFY15 (SFY16) Priority System broadens the existing smart growth categories to include projects in growth areas that have been endorsed by the State Planning Commission or any development project that is consistent with the "Garden State Values" contained in the State Strategic Plan.

The DW proposed priority systems describe the ranking methodology for eligible drinking water projects. Project ranking within the DW SFY2016 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, approved water supply plans and/or studies, affordability, and population. The current priority system ranking methodology used for ranking clean water and drinking water projects is set forth in Section II B below.

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## INTENDED USE PLAN

The CW Plan and DW Plans provide information on funds available through the DEP loan component for NJEIFP clean water and drinking water loans, including all federal funds allotted to the State under the CWA and SDWA. A detailed discussion on funding is set forth in Section III below.

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## PROJECT PRIORITY LISTS

The CW Plan and DW Plans include priority lists which identify projects targeted for financial assistance pursuant to the CWA and SDWA and identify the estimated total eligible building costs under the appropriate project category. Placement on a project priority list is a prerequisite to receiving a Long-Term or Construction Loan.

The Department ranks all eligible projects according to the total number of points each project receives and will subsequently place the projects on the Project Priority Master List according to their ranking. Higher ranked projects are placed above lower ranked projects on the priority lists. The projects eligible to participate in the SFY2016 Financing Program and their relative rank are set forth in the SFY16 Project Priority List, reflecting projects identified in SFY16 Letters of Intent (Application Part I) and environmental planning documents, submitted on or before October 10, 2014.

The combined Clean Water and Drinking Water projects in the SFY2016 NJEIFP and Sandy NJEIFP include a pool of one hundred and fifty six (156) Clean Water and Drinking Water projects at a total estimate of \$1.03 billion. The SFY16 Clean Water Project Priority List set forth in Appendix A includes environmental infrastructure projects eligible for financing



pursuant to the Clean Water SFY16 NJEIFP and Superstorm Sandy financing programs, and consists of eighty (80) Clean Water projects at a total estimated cost of \$787,550,000. The SFY16 Drinking Water Project Priority List set forth in Appendix B includes projects eligible for financing pursuant to the SFY16 Drinking Water NJEIFP and Superstorm Sandy financing programs, and consists of seventy six (76) Drinking Water at a total estimated cost of \$243,313,000. The Drinking Water Sandy Project Priority List are also separately set forth in Appendix C.

In addition to the submission of Letters of Intent and environmental planning documents, eligibility to participate in the SFY16 NJEIFP and Sandy financing program also requires the submission of Part II of the Applications, engineering design documents, and contract specifications on or before March 6, 2015 (March Application Documents). Projects for which March Application Documents are not submitted will be removed from the Project Priority List. Note also that pursuant to the Track II Program, a project will be added to the Project Priority Lists if all application related submissions are received on or before March 6, 2015. The project lists will be amended to include supplemental loan projects in the May Report resulting in an increase in the number of projects to be considered for financing in the SFY2016 Financing Program. Moreover, due to the addition of new projects to the Project Priority Master List each year, periodic revisions to the Project Priority Lists such as identification of new information regarding a project or changes to individual project rankings may occur.

Again, this estimate of the total number and cost of projects to receive financing in SFY2016 is subject to wide fluctuations due to the fact that the Project Priority Lists are not final, and certain project applications will be (i) withdrawn by the applicants pursuant to independent business decisions; (ii) deemed ineligible for funding; (iii) revised to reflect actual project costs; and (iv) subject to continued review pending receipt of relevant approvals.

## ELIGIBLE / INELIGIBLE PROJECT ACTIVITIES

### CLEAN WATER

Base SFY2016 NJEIFP Loans are available for all of the 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. SFY2016 and Sandy NJEIFP Loans are also subject to the availability of funds.

### CLEAN WATER BASE SFY2016 NJEIFP PROJECTS

In an effort by the Department to advance and incorporate the goals set forth in the New Jersey State Strategic Plan (Targeted Economic Growth; Effective Planning for Vibrant Regions; Preservation and Enhancement of Critical State Resources; and Tactical Alignment of Government), Clean Water Projects qualify for Base SFY2016 NJEIFP funding and are encouraged to participate if they fall within one of the following project types, locations and/or designations:

i. **Urban Centers and Urban Complexes**

Wastewater treatment and stormwater management projects that serve Urban Centers and Urban Complexes designated by the State Planning Commission are considered Smart Growth. To date, the State Planning Commission has designated Asbury Park, Atlantic City, Camden, Elizabeth, Jersey City, New Brunswick,

Newark, Paterson and Trenton as Urban Centers and one Urban Complex, the Hudson County Urban Complex, which includes the following municipalities: Bayonne, East Newark, Guttenberg, Harrison, Hoboken, Jersey City, Kearny, North Bergen, Secaucus, Union, Weehawken, and West New York.

ii. **Combined Sewer Overflow Abatement**

Combined sewer systems (CSOs) are wastewater collection systems designed to carry sanitary sewage, industrial and commercial wastewater, and storm water runoff in a single system of pipes to a publicly owned treatment works (POTW). During dry weather, all flow (composed primarily of sanitary sewage and industrial/commercial wastewater) is conveyed to the POTW. However, during periods of rainfall or snow melt, the total wastewater flows entering the collection system can exceed the capacity of the system or the treatment facility. Under such conditions, CSOs are designed to overflow at predetermined CSO points and result in discharges excess wastewater flows directly to surface water bodies such as rivers, estuaries, and coastal waters.

Because CSO discharges include raw sewage, they contain a combination of untreated human waste and pollutants discharged by commercial and industrial establishments. CSOs also have a significant storm water component that includes pollutants from urban and rural runoff. These pathogens, solids, and toxic pollutants may be discharged directly to the waters of the state during wet weather events.

Combined sewer overflows are a human health concern because they can create the potential for exposure to disease-causing pathogens, including protozoa, bacteria, and viruses. Exposure to CSO contaminants through swimming or other contact can lead to infectious diseases such as hepatitis, gastrointestinal disorders, dysentery, and swimmer's ear infection. Other forms of bacteria can cause typhoid, cholera, and dysentery. Human health also can be impacted from ingesting fish or shellfish contaminated by CSO discharges. All projects that contribute to the correction of combined sewer systems and discharge points including elimination, relocation or consolidation of discharge points and construction of facilities or purchase of equipment to remove solids and floatables are eligible.

iii. **On-Site Rehabilitation of Septic Systems**

Under the Financing Program, a local government unit may apply for funding to upgrade or replace failing on-site systems. The nature and extent of failures would be documented during planning and a Septic Management District (SMD) would have to be established in order to assure on-going operation and maintenance (typically, this involves implementing a system to assure regular, usually once every three years, pump out and/or inspection of the on-site systems). While some SMDs have formed in New Jersey (so there is institutional precedent on which to advance this option), none have tackled the costly job of system rehabilitation as yet.

iv. **Designated Brownfields Development Areas**

These are areas that have applied for and have received formal designation by the Department under the BDA Initiative. Wastewater treatment and stormwater management projects that are located in DEP designated BDAs are eligible. The sites within the BDA will be handled by a single project manager, who will coordinate with partnering state agencies to direct targeted technical and financial assistance to sites within the BDA neighborhoods.

Currently, there are thirty BDAs ([www.state.nj.us/dep/srp/brownsfields/bda/bdalist.htm](http://www.state.nj.us/dep/srp/brownsfields/bda/bdalist.htm)) in New Jersey and they are as follows: Cramer Hill BDA in Camden, Camden County; North Camden BDA in Camden, Camden County; Monument/Magic Marker BDA in Trenton, Mercer County; Elizabethport BDA in Elizabeth, Union County; Milltown Ford Avenue BDA in Milltown Borough, Middlesex County; Route 73 South BDA in Palmyra Borough, Burlington County; Lister Avenue BDA in Newark, Essex County; Pennsauken Waterfront in Pennsauken Township, Camden; Bayonne Route 440 BDA in Bayonne, Hudson County; Harrison Waterfront BDA in Harrison, Hudson County; Assunpink Greenway BDA in Trenton, Mercer County; Keyport Waterfront BDA in Keyport Borough, Monmouth County; Great Falls Historic District BDA in Paterson, Passaic County; West Lake Avenue in Neptune Township; Central Valley in Orange/West Orange; Salem Industrial Green way in Salem City; Bellmawr Landfills in Bellmawr; Chrome Waterfront in Carteret; Grand Jersey in Jersey City; North Outerbridge Crossing in Perth Amboy; Southport, Gloucester City; Springfield Avenue, Asbury Park; Town Center at Haddon, Haddon; Sayreville Waterfront, Sayreville; Passaic Avenue Waterfront, Kearny; Downtown District Lodi; Central Business District Plainfield; Central Business District Rahway; Landfill and Station Area Somerville; and Keasbey Redevelopment Woodbridge. It is anticipated that the municipality will most often serve as the loan recipient under this option to effect remediation at multiple sites in the designated BDA, although county improvement authorities or similar entities could also participate and provide assistance in this environmental improvement effort.

It is anticipated that the municipality will most often serve as the loan recipient under this option to effect remediation at multiple sites in the designated BDA, although county improvement authorities or similar entities could also participate and provide assistance in this environmental improvement effort.

v. **Designated Transit Villages**

The New Jersey Department of Transportation (NJDOT) and NJ TRANSIT spearhead 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 growth in New Jersey where infrastructure and public transit already exist. Wastewater treatment and stormwater infrastructure needed to address improvements in Transit Village areas are eligible.

Studies have shown that an increase in residential housing options within walking distance of a transit facility, typically a one quarter to one half mile radius, does more to increase transit ridership than any other type of development. Therefore, it is a goal of the Transit Village Initiative to bring more housing, more businesses and more people into communities with transit facilities. Municipalities that have been designated a Transit Village by the inter-agency Transit Village Task Force must have an adopted land-use strategy for achieving compact, transit-supportive, mixed-use development within walking distance of transit facilities. This can be in the form of a redevelopment plan, zoning ordinance, master plan or overlay zone. There are currently 28 designated Transit Villages. They are Pleasantville (1999), Morristown (1999), Rutherford (1999), South Amboy (1999), South Orange (1999), Riverside (2001), Rahway (2002), Metuchen (2003), Belmar (2003), Bloomfield (2003), Bound Brook (2003), Collingswood (2003), Cranford (2003), Matawan (2003), New Brunswick (2005), Journal Square/Jersey City (2005), Netcong (2005), Elizabeth/Midtown (2007),

Burlington City (2007), City of Orange Township (2009), Montclair (2010), Somerville (2010), Linden (2010), West Windsor (2012), East Orange (2012), Dunellen (2012), Summit (2013) and Plainfield (2014).

vi. **Transfer of Development Rights (TDR) Receiving Areas**

The transfer of development rights is a realty transfer system where development potential in a specified preservation area can be purchased by private investors for use in a targeted growth area. In exchange for a cash payment, landowners in the preservation area place a restrictive easement on the property that will maintain the resource in perpetuity. The land in the designated receiving area can then be developed at a higher density than allowed under the baseline zoning. This process reduces the consumption of our critical resources, while still accommodating growth, and eliminates "windfalls and wipeouts" in property values normally associated with zoning changes. The transfer of development rights is only allowed where a municipality has implemented a TDR program. Sponsors of projects that serve areas designated as TDR Receiving Areas under the State TDR Act (P.L. 2004, c.2), by the Highlands Council, by the Pinelands Commission or by Burlington County pursuant to the Burlington County Transfer of Development Rights Demonstration Act (P.L. 1989, c. 86) are considered Smart Growth. The participating municipality (or municipalities in a regional program) designates sending and receiving areas based on their preservation and growth goals, respectively. Planning and implementation documents are created by the municipality that governs where and how development rights can be transferred. Implementing a transfer of development rights program requires a major planning initiative on the part of the participating municipality. Before any credits can transfer from landowner to developer, certain planning and implementation documents must be adopted. The State TDR Act requires several items including a Development Transfer Plan Element, a Capital Improvement Plan, a Utility Service Plan, Transfer Ordinance, Plan Endorsement and other approvals.

In addition, the Department is broadening the existing smart growth categories to include projects in growth areas that have been endorsed by the State Planning Commission or any development project that is consistent with the "Garden State Values" contained in the State Strategic Plan. This provision is being added to maximize the program's ability to move forward and promote the goals and objectives included in the State Strategic Plan before it is finalized. For those project types that have the potential to facilitate growth or cause significant adverse environmental impacts, the Department will continue to thoroughly evaluate the planning submitted by the project sponsor. Such evaluation will include, but will not be limited to the water quality/quantity impacts, location in the State, impacts to riparian corridors, the existing pollution control needs, assessment of the resulting environment, detailed assessment of proposed alternatives and cost-effectiveness of the proposal. The Department's funding decisions will take into account the project's growth potential, its location and the project's aggregate impacts as determined through such evaluations. Collectively, these initiatives will enhance the Department's and the Trust's ability to promote smart growth, support the State Strategic Plan and will also allow the Environmental Infrastructure Financing Program to provide the funds needed to make it a reality.

vii. **Stormwater / Nonpoint Source (NPS) Management Projects**

**Introduction**

Because of the need to address water quality concerns related to stormwater runoff, the Department and the Trust have expanded the scope of the Financing Program to include construction costs for a wide variety

of stormwater/NPS management projects. If the project will impact the capacity, hydrology, or hydraulics of existing stormwater management facilities, systems, or downstream waterbodies, a watershed-based implementation plan appropriate to the project's location should be prepared. Watershed-based planning assesses the overall needs of an area to ensure that proposed projects will improve/maintain water quality, water quantity and ecosystem health in a cost-effective manner. Watershed-based planning differs from the individual project planning which is site-specific and which is a routine requirement of funding under the NJEIFP. Although the NJEIFP does not fund watershed-based planning, the NJEIFP does provide an allowance for a project's site-specific planning and design. The allowance is based on a percentage of the building costs. Stormwater/NPS management projects must support efforts to achieve and/or maintain water quality, compatible with designated uses of the water body.

### Storm Water

Implementation of USEPA's Phase II Municipal Stormwater Program requires municipalities, counties and other public entities to control stormwater discharges from new and existing developments. In New Jersey, the program is being implemented through the issuance of NJPDES general permits. Program implementation requires capital expenditures for equipment acquisition, additional personnel to implement best management practices, and expenses for public education (an innovative component, to change the behavior of people to reduce environmental impacts). Low-cost funding for the equipment procurement and construction of needed facilities is available through the NJEIFP, and is described in more detail below. In 2004 and 2005, the Department awarded \$6 million each year in grants to municipalities and counties to implement the NJPDES permit requirements. The Department has also provided additional funding for some capital improvement projects that can be combined with CWSRF loans (up to 20% grants and 80% SRF loans).

The stormwater/NPS management projects that are eligible for NJEIFP loans include both new or modifications of stormwater management systems, facilities, basins, or other stormwater/NPS management facilities (including land acquisition to site the eligible facilities). Stormwater/NPS management projects also include, but are not limited to: green roofs, green streets, tree filters, rain gardens, rain barrels, porous pavement, installation of packed media filters, replacement of existing storm drains with newer designs that incorporate features to remove solids, floatables, oil and grease, and/or other pollutants; purchase or replacement of equipment to reduce solids and/or floatables, such as netting on outfalls and skimmer boats; purchase of maintenance equipment, such as street sweepers, leaf collection equipment, beach cleaning equipment, and aquatic weed harvesters; rehabilitation of tide gates and existing basins or other stormwater systems, including pump stations; extension and/or stabilization of outfall points; implementation/construction of systems that will result in water quality benefits, such as salt storage structures/runoff control systems, feedlot manure/runoff control systems, and streambank/lake stabilization/restoration projects which are consistent with habitat protection.

### Landfill Closure and Construction

The Financing Program also includes landfill closure and landfill construction projects (including new landfill cells) under eligible NPS projects. The Department recognizes that landfills are a major pollution concern and

are identified as a nonpoint source of pollution in the State's Stormwater and NPS Program Plan developed under Section 319 of the Clean Water Act. Eligible landfill closure activities include such items as landfill capping systems, leachate collection, storage and treatment systems, side slope seepage prevention and controls, gas condensate systems and other activities. Financing for landfill construction projects is generally limited to those project elements that prevent, reduce, or control the generation of leachate or are required for the collection, storage and treatment of leachate. Elements of a landfill construction project that may be financed include landfill liner systems, leachate removal or collection systems, and related maintenance equipment, toe-drains and cut-off walls, leachate sampling facilities and equipment, leachate storage facilities (lagoons, tanks, tank covers and aeration systems), leachate evaporation systems, and others. In addition to leachate controls, other eligible elements include barge shelters, containment booms, litter fences, and other means to prevent municipal solid waste from blowing off the landfill site and polluting surface waters. Before any landfill closure or construction project is approved under the Financing Program, the project sponsor must submit and receive all applicable permits and approvals from the Department's Division of Solid and Hazardous Waste.

### Open Space Land Acquisition and Conservation

The NJEIFP provides loans to municipal and county applicants for the preservation of open space land as a means to provide an overall water quality benefit to the project area. A conservation restriction (easement) is applied, which ensures that the water quality is protected in perpetuity. Passive recreational uses such as hiking, cross country skiing, horseback riding and birding are allowed on the portion of the parcels that are purchased with loans from the NJEIFP. Development is not allowed on the properties that are acquired through the NJEIFP, since this encourages the use of impervious surfaces and causes land alterations which can adversely affect the hydrology of an area as well as other nonpoint source impacts. Surface runoff can increase and groundwater filtration can decrease. Since most of New Jersey consists of sole source aquifers, which "are those aquifers that contribute more than 50% of the drinking water to a specific area and the water would be impossible to replace if the aquifer were contaminated" (NJ Geological Survey), the protection of these resources is an environmental priority. When the land remains as open space with no development pressures, the water recharge to these vital aquifer systems is maintained. In addition, other environmental resources (i.e., endangered species, wetlands, stream corridors, floodplains, etc.) that may be present will also benefit from the preservation of the open space.

### Remedial Action Activities

The clean-up of hazardous waste sites and other contaminated sites is critical to preventing further contamination of groundwaters in the State. The water-quality related components of projects for spill cleanups, brownfields restoration and hazardous waste site cleanups are some examples of the activities that are eligible through the Financing Program. Treatment of contaminated groundwater also qualifies for financing if the treated water is returned to the environment. While treatment solely to provide a safe, potable drinking water supply is ineligible for CWSRF financing, it is eligible for DWSRF financing.

### Well Sealing

The proper sealing and monitoring of unused water supply wells is also important to protect the State's groundwater. Municipalities and other public entities can sponsor projects through the Financing Program to properly fill and seal abandoned wells in accordance with N.J.A.C. 7:9-9.

viii. **Water Resources Reform and Development Act**

The Water Resources Reform and Development Act of 2014 (WRRDA) introduced new requirements that project sponsors should be aware of as follows:

- i. Architectural and Engineering services for a small number of projects must be procured under federal procurement rule 40 U.S.C. 1101 et seq. All architectural and engineering (A/E) contracts funded by the capitalization grant that are awarded on or after October 1, 2014 must comply with the procurement processes for A/E services (including feasibility studies, preliminary engineering, design services, surveying, mapping, construction management, legal and accounting services, etc.) as identified in 40 U.S.C. 1101 et. seq. The base program has the ability to finance A/E contracts that did not follow federal procurement rules with non-capitalization grant funds (i.e., EIT shares, State match, loan repayments, etc.). However, sponsors of projects seeking Sandy SRF financing for A/E costs with contracts that did not meet the federal procurement requirements may receive 100% of the financing for those costs from the Trust. **Finally, this requirement does not jeopardize a project's eligibility for funding. Rather, projects receiving FFY15 capitalization grant funding (anticipated to be a small subset of all funded projects) which do not procure architectural and engineering services in a manner consistent with WRRDA will fund such costs with NJEIT funds.**

Project sponsors subject to the requirements must follow the procurement requirements identified below for A/E services:

- Public announcement of the solicitation (e.g. a Request for Qualifications);
- Evaluation and ranking of the submitted qualifications statements based on established publicly available criteria (e.g. identified in the solicitation);
- Evaluation criteria based on demonstrated competence and qualification for the type of professional services required (e.g. past performance, specialized experience, and technical competence in the type of work required);
- Discussion with at least three firms to consider anticipated concepts and compare alternative methods for furnishing services;
- Selection of at least three firms considered to be the most highly qualified to provide the services required; and
- Contract negotiation with the most highly qualified firm to determine compensation that is fair and reasonable based on a clear understanding of the project scope, complexity, professional nature, and the estimated value of the services to be rendered;
- In the event that a contract cannot be negotiated with the most highly qualified firm, negotiation continues in order of qualification.

This requirement applies to new solicitations, significant contractual amendments, and contract renewals initiated on or after the effective date of October 1, 2014.



- ii. A small number of treatment work projects are required to develop and implement a fiscal sustainability plan and certify that it has been implemented prior to receiving assistance.

WRRDA requires a recipient of a loan for a project **funded by the capitalization grant** that involves the repair, replacement, or expansion of a treatment works to develop and implement a fiscal sustainability plan (FSP) or certify that it has developed and implemented such a plan.

The statute requires that FSPs include, at a minimum:

- An inventory of critical assets that are part of the treatment works;
- An evaluation of the condition and performance of inventoried assets or asset groupings;
- A certification that the assistance recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan; and
- A plan for maintaining, repairing, and, as necessary, replacing the treatment works and a plan for funding such activities

N.J. may consider taking a phased approach such that the initial FSP covers only the funded project and closely associated components. This approach is a positive step towards a comprehensive and cohesive plan that covers the entire treatment works. At a minimum, CWSRF loan recipients must certify that an FSP has been developed and is being implemented. This provision applies to all new loan applications submitted for the SFY16 Program.

- iii. Codifies American iron and steel requirement. WRRDA codifies a provision that had recently been included in EPA's SRF appropriations that requires projects, absent a waiver, to use iron and steel products that are produced in the United States for projects for the construction, alteration, maintenance, and repair of treatment works.
- iv. Codifies Davis-Bacon requirement. WRRDA permanently applies the prevailing wage (Davis-Bacon) provision to any projects for treatment works that are funded by a CWSRF. These provisions apply to all CWSRF projects in New Jersey.
- v. Beginning in FFY16, a borrower is required to certify that it has studied the cost and effectiveness, and has selected a project with the greatest potential for water reuse, water conservation, and energy conservation.
- vi. In addition, WRRDA also includes provisions that allow for 30-year loans, expands the eligible activities for the CWSRF program, modifies the administrative allowance calculations and formalizes the additional subsidization formula. The EPA is required to conduct a study of the allotment formula to determine whether it addresses water quality needs in accordance with the most recent needs survey and any other information EPA considers appropriate and report to Congress on results of the study and recommend changes to the formula. EPA has issued draft guidance to states regarding the amendments to the CWA in September of 2014. The State will re-evaluate the provisions of this Intended Use Plan and determine if changes to this document are warranted. Although changes were



enacted to the federal legislation, implementation of some of the provisions in NJ's CWSRF program may otherwise be limited by State law.

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## CLEAN WATER SANDY NJEIFP PROJECTS

Although the Department is working to award all of the Sandy CWSRF funds in the SFY15 Program, there is the possibility that not all Sandy Funds will be committed. Given this possibility, the Department will continue to accept submittals under the Sandy CWSRF Program, which includes a principal forgiveness component of approximately 19% of the allowable costs. If all Sandy CWSRF funds are awarded in SFY15, new submittals will continue to be eligible under the 75% DEP and 25% Trust loan structure.

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

- i. Projects that prevent interruption of collection system operation in the event of a flood or natural disaster;
- ii. Projects that prevent floodwaters from entering a treatment works;
- iii. 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;
- iv. Projects that preserve and protect treatment works equipment in the event of a flood or natural disaster; and
- v. 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.

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## DRINKING WATER

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### BASE SFY2015 NJEIFP

Public community water systems (as defined by the SDWA and 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 by the federal 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

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 applicable to the system or otherwise significantly further 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 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 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.

An amendment to the existing Financial Assistance Programs for Environmental Infrastructure Facilities Rules, adopted in the New Jersey Register dated October 6, 2003 (35 NJR 1475(a)), added a requirement for mandatory connection ordinances for water main extension projects to ensure that the public health issue is addressed, to assure the cost-effectiveness of the project, and to ensure adequate operation of the system to be built. This amendment also required project sponsors to adopt or obtain a mandatory well sealing ordinance if the NJDEP determines that it is warranted to prevent usage of contaminated water, prevent cross-connections, and/or the migration of contaminants.

The NJDEP clarified the types of Green Projects eligible for DWSRF funding, to be consistent with the USEPA guidance. The most recent Congressional appropriation contained requirements that a percentage of the Capitalization Grant fund green projects. The Green Project Reserve is discussed below.

## ii. [Multi-Year Projects/New Wells](#)

The construction of a new well presents challenges for the NJEIFP. This is due to the extended length of time required to satisfy all permit requirements and obtain permit approvals. In order to provide more financing options and to get funds to the water systems earlier in the well construction process, the NJDEP proposes to provide more than one loan for new well projects.

Initially a loan can be awarded for only 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 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).

After a major modification for the Water Allocation diversion permit is issued, if applicable, the project sponsor could apply for an additional 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 pre-award 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, bioretention, 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.

The NJDEP 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.

Further clarification on GPR is available at: [www.epa.gov/reg3wapd/infrastructure/gpr.htm](http://www.epa.gov/reg3wapd/infrastructure/gpr.htm).

### iv. Legacy Projects

The legacy project designation has been created for projects that were not able to meet the current SFY financing deadlines but received all necessary approvals, and were awarded Interim Loans on or before June 30 of that year. This new class of projects or legacy projects from the current year program will be prioritized over any new projects

seeking loans in the next SFY program (including second chance projects, if applicable). Projects that were not able to be funded through the DRAA DWSRF Program may also qualify as legacy projects if these projects are for an activity consistent with the DWSRF base program. Legacy priority status is not extended to the Small System and Very Small System funding programs.

v. **Small System Loan Projects and Very 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 nonprofit noncommunity water systems with populations of 10,000 persons or less. There is a cap of \$1 million per borrower per year with a total of \$4 million. At the loan cap amount of \$1 million, 50 percent (\$500,000) is available as principal forgiveness; 25 percent of the total project costs (up to \$250,000) is available as zero interest from the Department and 25 percent of the balance of the total project cost is available at the Trust market rate. This program prioritizes small systems in three tiers as follows: 1) those systems serving less than 500 residents, 2) those systems serving 500 to 3,300 residents and 3) those systems serving 3,301 to 10,000 residents. A new provision to the small systems program provides a subset of \$500k of the \$4 million small system set aside to be utilized for 100% Department principal forgiveness loans under a Very Small Water System (VSWS) finance program (described in more detail later). VSWS utilities serve populations of 500 persons or less. Note that a system cannot get more than \$500,000 total in principal forgiveness from these small system loan programs as a small or very small loan program borrower. A project sponsor can finance any project costs that exceed the limits of the Small System/Very Small Water System programs through DWSRF base financing.

vi. **Ineligible Activities**

The DWSRF cannot provide funding assistance for the following projects and activities:

- Dams, or rehabilitation of dams;
- Water rights, except if the water rights are owned by a system that is being purchased through consolidation as part of a capacity development strategy;
- Reservoirs, except for finished water reservoirs and those reservoirs that are part of the treatment process and are located on the property where the treatment facility is located;
- Laboratory fees for monitoring;
- Operation and maintenance expenses;
- Projects needed mainly for fire protection;
- Projects for systems that lack adequate technical, managerial, and financial capability, unless assistance will ensure compliance;
- Projects for systems that have a USEPA Enforcement Targeting Tool score greater than or equal to 11, unless funding will ensure compliance

([www.epa.gov/compliance/resources/policies/civil/sdwa/drinking\\_water\\_erp\\_2009.pdf](http://www.epa.gov/compliance/resources/policies/civil/sdwa/drinking_water_erp_2009.pdf));

- Projects primarily intended to serve future growth;
- Lack of technical, managerial, and financial capability. The DWSRF may not provide any type of assistance to a system that lacks the technical, managerial, or financial capability to maintain SDWA compliance, unless the owner or operator of the system agrees to undertake feasible and appropriate changes in operation or if the use of the financial assistance from the DWSRF will ensure compliance over the long term. A capacity development program was created to evaluate each system to be funded to ensure each meets the capacity development requirements (see the DEP Division of Geosciences Website); and
- Compliance with Enforcement Targeting Tool. The DWSRF may not provide assistance to any system that has an Enforcement Targeting Tool (ETT) score of 11 or greater unless the NJDEP determines that the project will enable the system to return to compliance and the system will maintain an adequate level of technical, managerial and financial capability to maintain compliance.

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## DRINKING WATER SANDY NJEIFP PROJECTS

The Superstorm Sandy NJEIFP Loans must be provided to facilities that were 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 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.

A complete list of projects eligible for DWSRF Sandy financing is included in Appendix C.

## PROJECT RANKING METHODOLOGY

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### CLEAN WATER RANKING CRITERIA (BASE SFY2015 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.

In addition, the FFY15 Priority System broadens the existing smart growth categories to include projects in growth areas that have been endorsed by the State Planning Commission or any development project that is consistent with the "Garden State Values" contained in the State Strategic Plan. This provision is being added to maximize the program's ability to move forward and promote the goals and objectives included in the State Strategic Plan before it is finalized.

The Department encourages project sponsors that do not have an existing Asset Management Plan to develop and implement one. Asset management is 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 Vision Statement and 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 SFY2016/FFY2015 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 (1) Local Environmental Enhancement Planning Activities, (2) Project Discharge Category, (3) Water Use/Water Quality, (4) Smart Growth Approvals, and (5) Population.

#### a. Local Environmental Enhancement 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.

**Watershed-Based Implementation Plans:** Watershed-Based Implementation Plans address impairment(s) found on Sublists 4 or 5 of the New Jersey Integrated Water Quality Monitoring and Assessment Report. Prudent watershed planning is necessary to achieve cost-effective and environmentally sound water quality improvement within the watershed. To provide an incentive for project sponsors to complete watershed-based plans that promote the implementation of point and nonpoint source pollution control projects that are consistent with Department goals,

projects located in or benefiting municipalities that demonstrate implementation of watershed-based plans will be given an additional 50 priority points.

**Implementation of Regional Stormwater Management Plans:** Regional stormwater management plans are voluntary local analyses that provide targeted protection to a specific area based on local issues and conditions. Regional stormwater management plans are adopted into Water Quality Management Plans and may include specific implementation projects that address existing impacts of stormwater runoff. Projects located in or benefiting municipalities with adopted regional stormwater management plans will be provided an additional 50 priority points.

**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 SFY2016/FFY2015 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.



b. Project Discharge Category Points

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.

<b>Table IA. Ranking Points Related to Project Discharge Category For Wastewater Treatment Facilities</b>		
<b>Project Discharge Category</b>	<b>Description</b>	<b>Points</b>
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 an STPs' treatment capacity, and the construction of new facilities to provide collection, conveyance or treatment of sanitary sewage.	250



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, bioretention, 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.

<b>Table IB. Ranking Points Related to Project Categories for Stormwater and Nonpoint Source Pollution Management Facilities</b>		
<b>Project Category</b>	<b>Description</b>	<b>Points</b>
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

## c. 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
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.
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).
Fishing	Shellfish	State water bodies that are designated as shellfish growing waters by <i>N.J.A.C. 7:12</i> .
	Trout	State freshwater bodies designated for trout production or maintenance by the NJ Water Quality Standards ( <i>N.J.A.C. 7:9B</i> ).
	Non-trout	State freshwater classifications not designated trout production or maintenance by <i>N.J.A.C. 7:9B</i> (see Trout description above), including all Delaware River freshwater zones above mile-point 85 as defined by the Delaware River Basin Commission.
Public Nuisance		Indirect water use impacts; applies to areas with identified on-site wastewater treatment system failures.
Agriculture		Surface water for agricultural use, such as irrigation and farm ponds, based on Department diversion permit (permits required for >70 gal/min diversion).
Industry		Surface water known to be used for industrial use such as cooling.
		Points
		200
		125
		125
		75
		25
		50
		25
		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.

### 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.

d. **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.

e. **Emergency Repair 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.

f. **CW Order of Priority**

The SFY2016 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.

1. **Emergency Projects**

Emergency projects are considered a public health hazard and will receive funding over other projects on the Priority List.

2. **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.

3. **Legacy Projects**

Projects that were not able to meet the previous financing cycle deadlines for the Trust Bond sale but are awarded an interim loan before June. Projects that are not able to be funded through the DRAA DWSRF Program may also qualify as legacy projects if these projects are for an activity consistent with the DWSRF base program.

4. **Current Year's Projects;** and

5. **Track 2 Projects**

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DRINKING WATER RANKING CRITERIA

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BASE SFY2015 NJEIFP

NJDEP 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

annual 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.

The principal elements of the Priority System are: A) Compliance and Public Health Criteria, B) Water Supply Plans/Studies, C) State Designations, D) Affordability, and E) 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 A, are separately listed by the elements involved and priority points assigned for each element.

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 A. A project must be assigned points from Category A to be eligible for ranking; points assigned from the remaining categories are in addition to the points received in Category A.

The prospective applicant must notify NJDEP of any changes to project scope or any other circumstance that may affect the calculation of priority points. NJDEP 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. **Category A. 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:

<b>TABLE 1 Project Elements Eligible for Project Priority Ranking in the Drinking Water State Revolving Fund Program<sup>1</sup></b>		
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 NJDEP requiring the correction of any noncompliance of its treatment facilities to address an immediate public health threat.	500 Points
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 NJDEP requiring the correction of any noncompliance of its treatment facilities to address an immediate public health threat.	350 Points
3.	Systems that utilize groundwater that have had any acute violation (either fecal coliform or nitrates).	300 Points

<sup>1</sup> A project must be assigned points from Category A to be eligible for Project Priority List ranking; points assigned from Categories B through E supplement the points received in Category A.

4.	Systems that have had, or NJDEP reasonably expects to have, any maximum contaminant level violations (except acute violations) or exceedance of action levels (lead and copper rule).	250 Points
5.	Systems that were classified as vulnerable, as a result of a 2007 NJDEP Interconnection Study	200 Points
6.	Systems that have been issued a notice of noncompliance by NJDEP for reasons other than water quality; i.e. inadequate storage, inadequate source, lack of emergency power, etc.	175 Points
7.	Purchase and/or consolidation of a water system to comply with the SDWA for capacity development.	170 Points
8.	Systems that are proposing improvements for drought or other related water supply management initiatives, as identified or designated by the State.	160 Points
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 Points
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 Points
11.	Existing treatment facilities that need to be rehabilitated, replaced, or repaired to ensure compliance with the SDWA.	100 Points
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 Points
13.	Existing pump stations or finished water storage facilities that need to be rehabilitated or replaced to maintain compliance with the SDWA.	60 Points
14.	New finished water storage facilities or pump stations that are needed to maintain pressure in the system and/or prevent contamination.	50 Points
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 Points
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, bioretention or gray water reuse	45 Points
17.	Systems which have had any exceedance of any secondary drinking water regulations that have received notification issued by NJDEP 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 NJDEP requiring correction of the exceedance.	40 Points
18.	Installation of new water meters and/or other water conservation devices, including but not limited to retrofit plumbing fixtures.	35 Points
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 Points
20.	Replacement of water meters.	25 Points
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 Points
22.	Other project elements, not including items 1 through 21 above, that ensure compliance with the SDWA and protect public health, as approved by NJDEP.	1 Point

ii. **Category B. 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. Category C. State Designations

#### a. State Plan

NJDEP 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.

1. 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.
2. 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.

#### b. 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 NJDEP 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>.

c. **Brownfield Development Area (BDA)**

The NJDEP sponsors a program to promote the re-use of formerly contaminated sites. The NJDEP'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, NJDEP 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>.

d. **Green Project Reserve (GPR)**

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

Please note that the points from these four items of Category C 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. **Category D. 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:

$$(Municipal\ MHI / Statewide\ MHI) \times 100 = Affordability\ Factor$$

Points are assigned as shown in Table 2.



<b>TABLE 2. Point values assigned based on Affordability Factor calculation</b>	
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 NJDEP determined that for the purposes of the DWSRF Program, a municipality whose median household income is 35 percent or more below the State's MHI is considered a Disadvantaged Community, and receives 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:

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
<b>TOTAL</b>		<b>30,000</b>	<b>1.00</b>	<b>24,160</b>

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.

Although there are not additional funds specifically allocated to disadvantaged communities, because they receive more ranking points in the Affordability Factor calculation, disadvantaged communities receive a higher priority to qualify for the low interest loans available under the DWSRF financing program.

#### v. Category E. 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:

$$[(2 \times \text{Winter Population}) + \text{Summer Population}] / 3 = \text{Weighted Permanent Population}$$

#### vi. Other Ranking Considerations

The following factors are also considered in project ranking: Emergency projects, projects in Small Water Systems, Supplemental Loan projects, and Legacy projects:

##### 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 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 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 NJDEP's satisfaction prior to the water system being reimbursed for the emergency repair.

vii. DW Project Priority Order

1. Emergency Projects

Emergency projects are considered a public health hazard and will receive funding over other projects on the Priority List;

2. Small Systems

15 % of the DWSRF Fund is reserved to provide financing for publicly owned and privately owned community water systems and nonprofit non-community water systems serving populations of 10,000 or less. This program prioritizes small systems in three tiers as follows: 1) those systems serving less than 500 residents, 2) those systems serving 500 to 3,300 residents and 3) those systems serving 3,301 to 10,000 residents. VSWS utilities serve populations of 500 persons or less;

3. Supplemental Loan Projects

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;

4. Legacy Projects

Projects that were not able to meet the previous financing cycle deadlines for the Trust Bond sale but are awarded an interim loan before June. Projects that are not able to be funded through the DRAA DWSRF Program may also qualify as legacy projects if these projects are for an activity consistent with the DWSRF base program; and

5. Current Year's Projects; and

6. Track 2 Projects.

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DW SANDY 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 that meet the October 2014 deadline

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 four priority categories in the FFY2014 IUP; this IUP only has three categories, and Asset Management Plans are now a requirement for project submittal.

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

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:

#### Category A. Superstorm Sandy DWSRF-related project needs

Table 1 describes the project elements that are eligible for funds:

<b>Table 1. Project Elements Eligible for Project Priority Ranking in the Drinking Water State Revolving Fund DRAA Program</b>		
1.	Projects for water supply systems, which the State classified as vulnerable, as a result of a 2007 NJDEP Interconnection Study	300 points
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 points
3.	Projects for other interconnections that increase water systems resiliency during time of emergency	200 points
4.	Projects for water supply systems with inadequate primary and secondary source capacity	150 points
5.	Projects for water systems with auxiliary power projects or developing an asset management project	125 points
6.	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 points
7.	Other projects elements, not including in the above items that can be Superstorm Sandy related	50 points

#### Category B. Affordability

The Affordability criteria utilized in ranking Sandy NJEIFP projects relative are identical to the Affordability criteria utilized in ranking Base SFY2016 NJEIFP projects, which are set forth in Section II(C)(b) above.

#### Category D. Population

The Population criteria utilized in ranking Sandy NJEIFP projects are identical to the Population criteria utilized in ranking Base SFY2016 NJEIFP projects, which are set forth in Section II(C)(b) above.

## SFY2016 PROJECT PRIORITY LISTS

The preliminary Project Priority Lists for the Clean Water and Drinking Water Programs reflects 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.

The preliminary Project Priority List for the combined SFY2016 CW NJEIPF and Sandy NJEIPF is set forth in Appendix A. The preliminary Project Priority Lists for the SFY2016 DW NJEIPF and Sandy NJEIPF are set forth in Appendices B and C respectively.

PROGRAM LOAN TERMS AND CONDITIONS

A. **Loan Products**

1. **Long-Term Financing.** H2LOans provides long-term financing (Long Term Loans) through the SFY2016 Base NJEIFP, Sandy NJEIFP and Trust only loans for projects listed in the Clean Water or Drinking Water project priority lists subject to the availability of funding and staff resources. Financing is generally in the form of a low-interest loan, as low as one-quarter the market rate, with limited opportunities for principal forgiveness.

a. **Prerequisites:**

- 1) Submission of a Letter of Intent and environmental planning documents (typically October);
- 2) Project permits (typically, no later than February);
- 3) Construction design documents and State and Trust loan applications (March);
- 4) Submission of Financial Addendum Form (typically December);
- 5) Credit worthiness review;
- 6) Bid package review;
- 7) NJDEP / Trust project certification; and
- 8) Satisfaction of the financing conditions for long-term financing. Certification is issued upon approval of design, environmental planning, contract documents (prevailing wage and small and disadvantage business provisions), and permits.

To ensure that all projects ranked below the CWSRF fundable range have an opportunity to have access to NJEIFP funding, the Department is proposing to grant priority status to approved projects that are ranked below the fundable range in the CWSRF Program based on the date of project approval. As such, there is a strong incentive for applicants to submit necessary application related documents and secure approvals as soon as possible. The Department is committing resources for the timely approval of all applications. Moreover, funding of such projects will be available immediately upon approval through either the Construction Loan Program or the SAIL Financing Program, further ensuring that such projects commence construction as soon as possible

b. **Structure:**

i. **SFY2016 NJEIFP Long Term Loans Set asides**

Base CW NJEIFP loans are issued at 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 SFY2016 NJEIFP:

- The Department will reserve a maximum of \$5,000,000 for equipment purchases in support of the Trust's establishment of an open application process for certain equipment purchase projects. For the purposes of this reserve, equipment is limited to street sweepers, jet-vac trucks, portable generators and other equipment where construction services (such as the installation of a pad to support a generator) are not needed to effectuate the project. Funding priority for equipment purchases will be based exclusively on the order of approval.

- The Department is proposing to reserve 50% of the available principal forgiveness funds and provide principal forgiveness loans 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) and for integrated water resources planning.

Eligibility for integrated water resources planning financing is limited to CSO communities. Prioritization will be given to submittals that are part of a regional plan whereby the integrated plan addresses several municipalities within a CSO regional treatment plant sewershed; prioritization may also consider factors such as the total square miles and/or the number of CSO outfalls that the plan will address. The Department reserves the right to raise the limit of \$100,000 in principal forgiveness per project if there are not enough applications to fully utilize the \$500,000 reserved or if additional principal forgiveness is made available. The loan will be converted to include principal forgiveness at the time of the completion of the integrated plan and implementation of a capital project that supports the results of the integrated plan. If there is no capital project to be implemented, full loan repayment would be due in 3-5 years (5 year repayment schedules will require an amendment to the NJEIT legislation).

- The remaining 50% of the available principal forgiveness funds would be reserved for stormwater and non-point source pollution management projects in the **Barneget Bay Watershed**.
- A **Green Project Reserve (GPR)** equal to a minimum of 10 percent of the State's CWSRF FFY2015 (SFY2016) allocation will be established if the FFY 2015 federal appropriation to the CWSRF Program includes language requiring such action. GPR loans will be issued at interest rates equivalent to 25% of the market rate. If the Department determines that there are insufficient applications or there are deficiencies in the application for projects eligible to be financed through the GPR, the Department may use the funds allocated to the GPR to finance other clean water projects in the SFY2016 Program.
- A **Brownfield Set-Aside** equal to \$30 million is being established for the SFY2016 Financing Program which will be allocated to brownfield remediation projects in order of their ranking. In cases where the available Fund loan does not cover 75 percent of the allowable project costs, the Trust may finance the remaining allowable costs. Financing above and beyond the amount set-aside for such projects will be considered if monies are available after the need for funding of higher ranking projects during the funding cycle has been satisfied. Conversely, if any set-aside funds are not used up because of reduced demand for brownfield remediation loans, the leftover funds may be used to finance projects listed on the Priority List that may otherwise not receive financing in the SFY2016 Program.

The FFY2015 Priority System maintains the requirement for projects involving publicly-owned brownfields projects. Project sponsors must pledge that the site on which the improvements occur will remain in public ownership for the term of the loan (typically 20-23 years). 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.

Base DW NJEIFP. Base DW NJEIFP loans consist at 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 SFY2016 NJEIFP.

- A **Green Project Reserve (GPR)** equal to a minimum of 20 percent of the State's FFY2015 DWSRF allocation may be used for projects that meet the requirements of the program. Green infrastructure projects, such as solar panels or wind turbines, are not required but will be given priority for GPR funding in ranked order. Additionally, the GPR can be provided for categorically eligible projects or other projects for water efficiency, energy efficiency or other environmentally innovative activities, as needed to reach the optional 20 percent goal.
- **Small System Loans.** One of NJDEP's short-term goals is to provide loan assistance to systems serving fewer than 10,000 persons, subject to the availability of funds. The Federal SDWA amendments of 1996 had a goal for states to provide at least 15 percent of all funds credited to the DWSRF project account to provide loan assistance to systems serving fewer than 10,000 persons. Therefore, 15 percent of the DWSRF fund is reserved to provide financing for small systems serving fewer than 10,000 residents. However, if there are not enough small systems serving fewer than 10,000 eligible for the 15 percent reserve, then the funds will be utilized for eligible projects, in priority order, that have met program requirements.
  - a. Small Water Systems Loan Program. Commencing in FFY2013, the DWSRF created the Small Water Systems loan program to improve small system's access to financing. From the applicants that met the first deadline of the DWSRF program, NJDEP provided a list of candidates from that group that qualified for the small water systems loan program. NJDEP is working with these small systems to provide them with the best available loan terms. Qualified Borrowers are currently active publicly-owned and privately-owned community water systems and nonprofit non-community water systems serving less than 10,000 persons.

\$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 percent (\$500,000) is available as principal forgiveness; 25 percent of the total project costs (up to \$250,000) is available as zero interest from the Department and 25 percent of the 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 less than 500 residents, 2) those systems serving 500 to 3,300 residents and 3) those systems serving 3,301 to less than 10,000 residents. At this time, the financing program is discussing other advantages to small systems; such as waiving administrative fees, direct loans, getting the lowest costs for bond counsel, etc.



In SFY2016/FFY2015, the Department will also provide “small system loans” to larger more viable water systems which are willing to take over and make the necessary improvements for nonviable small systems. The larger systems would be eligible for the same enhanced loan terms as the small system.

- b. As a subset of the Small System loan program, DWSRF created the Very Small Water System Finance Program. VSWS loans will be available to systems VSWS loans will be available to current existing public water systems serving 500 persons or less, which require funding based on the point ranking system, to address needed capital improvements. Five hundred thousand (\$500,000) dollars will be made available as principal forgiveness loans to eligible water systems of which up to 100% will be subject to principal forgiveness. The funding is part of the \$2,000,000 principal forgiveness allocation in the small water system loan program. Approximately \$250,000 additional funding is required to maintain the 50, 25, and 25 percent split in the existing small system program.

Under this program, eligible applicants are required to provide 15% of eligible project costs from their own sources. The program terms are that loans for 85% of eligible project costs will be given out as 100% principal forgiveness. The water systems will be required to contribute the remaining 15% to the project cost. The system contribution shall be exhausted prior to expending State monies. The project must be a discrete project that can be completed in full with the funds allocated, but can be part of a project that is completed in phases. There is no guarantee that the other phases would be funded under the DWSRF program.

There is no cap on the amount of funding for each project up to the program cap of \$500,000. If any project needs more than the available funds under this program, then the system must furnish the remaining balance of the project. If the system meets credit worthiness criteria, the NJEIFP may fund the remaining amount out of the base program. If the system does not meet the credit worthiness criteria, the system has to find an alternative source of funding to provide money for the remaining portions of the project or the system must reduce the scope of the project.

Any funds not expended under this program will be made available to fund projects in the small system or base DWSRF program. Any projects not selected during any year’s program can reapply for the next funding cycle. There is no legacy status under this program. In addition, no one project sponsor is eligible for more than \$500,000 in principal forgiveness under the Small System loan program, the Very Small Water System loan program or any combination thereof in any one fiscal loan cycle year.

ii. The SFY2016 NJEIFP Short Term Loans

SAIL Financing Projects eligible for financing through the SAIL Program include a wide variety of wastewater treatment, stormwater management and nonpoint source pollution abatement projects that were impacted by Superstorm Sandy. The SAIL Program provides short-term loans to address immediate cash flow needs of municipalities and authorities for their project 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 fiscal years. It is anticipated that SAIL Loans made in SFY2016 will be at an interest rate equivalent to 25% of the market rate to be determined at the time of SAIL loan closing.

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 Department of Environmental 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 Eligibility List for funding in the forthcoming State Fiscal Year submitted to the Legislature in a form provided by the Commissioner of the NJDEP;
- 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, unreimbursed amounts will be paid for by SAIL program borrowers. Such costs will typically be incorporated into the long-term financing program package.

We are particularly proud of the success of the SAIL Program during its first year. As of January, 1, 2015, thirteen (13) SAIL projects at an estimated cost of \$168 million have applied for SAIL financing, all of which are projects to improve the resiliency of waste water facilities adversely impacted during Superstorm Sandy. Of those projects, two (2) are under construction at an estimated cost of \$4 million, one (1) project has awarded its construction contract at a total estimated cost of \$7 million, and three (3) projects anticipate awarding construction in February of 2015 at a total estimated cost of \$40 million.

SAIL participants also enjoy a number of unique benefits. Applicants enjoy an abbreviated application review period. Borrowers enjoy a streamlined FEMA reimbursement process: (1) SAIL reimburses borrowers within an average of eight (8) days of receipt of requests for reimbursement a marked improvement relative to project sponsors seeking reimbursement individually; and (2) SAIL staff possesses an expertise in FEMA and guides borrowers in the proper structuring of reimbursement requests to reduce the frequency of unreimbursed costs.

2. **Construction Loans.** Entities seeking any Long-term Loan (inclusive of Direct and Supplemental Loans) may receive a construction loan to provide funding for construction costs, planning and design costs and administrative costs during the period between pre-award approval and long-term financing closing.

The Program has the flexibility to issue construction loans for the duration of construction (over multiple program years). Given the complexities of multi-year construction loans, Trust and DEP staff are developing a strategy to ensure that the transition into the multi-year construction loan program comports with both state and federal program requirements and is attractive to borrowers. The detailed program will be set forth in the May Report, construction loans are incorporated in the long-term loan and payable in full if a project does not receive long-term financing during the current financing year.

a. **Prerequisites:**

1. Submission of a Letter of Intent and environmental planning documents (October);
2. Project permits (typically, no later than February);

3. Construction design documents and State and Trust loan applications (March);
4. NJDEP/Trust pre-award approval (Pre-award approval is similar to project certification); and
5. Satisfaction of the financing requirements of the rules (N.J.A.C. 7:22-3.32 and 4.32) are met. Pre-award approval is issued upon approval of design, environmental planning, contract documents (prevailing wage and small and disadvantage business provisions) and permits.

Each year, the Trust Board of Directors formally adopts a resolution outlining the scenarios in which a short-term loan is appropriated; the limitation of the loan amounts and the calculation of the interest rates. For the period of 2004 through SFY2015, the Program utilized IFP Loans as the primary short-term loan vehicle. The interest rates for Interim Loans in the SFY 2015 Financing Program were equivalent to 25% of the market rate. A total of nine (9) SFY2015 IFP Loans for ten (10) projects were issued in the total approximate amount of \$55,915,259 million (\$52,857,259 CW, \$3,058,000 DW) as of January 1, 2015. Commencing in SFY2016, Construction Loans will be utilized as the primary short-term loan vehicle that will mature at or near the completion of construction (not to exceed three fiscal years). The Trust Board approved a policy authorizing a SFY 2016 Financing Program construction loan at an interest rate equivalent to 25% of the market rate for a term not to exceed three full fiscal years.

3. **Planning and Design.** Planning and Design (P&D) Loans are utilized to finance the cost of environmental planning and engineering design services for environmental infrastructure projects, utilizing loan monies provided by the Trust from Trust accounts, such as interest earnings. The loans are structured as temporary financing for preliminary project activities with the expectation that the environmental infrastructure projects will secure long-term financing through the NJEIFP. Planning and Design loans are for periods not to exceed two years and may not exceed \$500,000 per project. Each year the Trust Board of Directors formally adopts a resolution outlining the scenarios in which a Planning and Design Loan is appropriated; the limitation of the loan amounts and the calculation of the interest rates. Loans are short-term loans available to pay for up to 50% of engineering and design costs for projects not identified in a project priority list.

a. **Prerequisites:**

1. Submission of an application for a Planning and Design loan;
2. Receipt of determination by the Department as to eligibility of project activities for financing (three weeks); and
3. Satisfaction of the financing requirements for Planning and Design loan closing.

- b. **Structure:** In January of 2015, the Trust Board will be presented with a resolution authorizing P&D loans in SFY 2016 for periods of up to two years at an interest rate equivalent to 25% of the market rate. As of January 2, 2015, no Planning and Design loans were issued in the SFY 2015 Financing Program

4. **Emergency Loans:** The NJDEP and Trust recognize 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. Any project listed in either a January or May Report is eligible to receive temporary

financing for emergency repairs. Any project owned and/or operated by a local government unit not identified in a January or May Report is eligible to receive temporary financing for emergency repairs. As of January 1, 2015, no Emergency loans were issued in the SFY2015 Financing Program.

H2IOans 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. Upon receipt of pre-award approval, short-term financing is available through either an Interim loan (Projects listed in a January or May Report) or an Emergency loan (projects owned or operated by a local government unit). Additional information including funding prerequisites is set forth in the Emergency Loan Program Guidance Document, Appendix H.

Emergency repairs to projects listed in a January or May Report are funded through a construction loan as discussed above. Emergency repairs to projects not listed in a January or May Report that are owned or operated by a local government unit at the time of the occurrence are funded by the Trust from Trust accounts, such as interest earnings. Project sponsors are required to develop an asset management plan. The Emergency Loan Program offers Trust loans up to \$600,000 per project provided total Program Loans do not exceed \$2 million at any given time. Each year, the Trust Board of Directors formally adopts a resolution outlining the scenarios in which an Emergency loan is appropriated; the limitation of the loan amounts and the calculation of the interest rates. In the coming months, the Trust Board will consider a policy authorizing a SFY2016 Financing Program Emergency loan at an interest rate equivalent to 25% of the market rate for a term not to exceed twenty four months.

## B. **Program Fees**

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

1. **Department Loan Origination Fee.** Commencing in 2002, budget cuts have necessitated the imposition of a fee to offset the costs of the NJDEP's program administration (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 loan amount (combined Trust and DEP loan). Borrowers pay 1% of the fee at long-term loan closing and the remaining 1% is paid over the first 4 years of the loan.

Any fees collected above the amount necessary to fund the program will be 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).

2. **Trust Origination Fee.** The Trust Origination fee is 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.

3. **Trust administration Fee.** The Trust administration fee is 0.3% of the Trust loan and is utilized to defray the Trust annual costs of loan administration (disbursement and repayment processing). This fee is not financed through the bond sale and is payable bi-annually.

C. **Program Requirements: Project Certification / Loan Closing**

1. **Introduction.** As previously discussed, there are eight (8) prerequisites to receiving a loan<sup>2</sup>: (1) submission of a Letter of Intent and environmental planning documents (typically October); (2) project permits (typically, no later than February); (3) construction design documents and State Loan Application (March) / Trust loan application (November); (5) submission of Financial Addendum Form; (5) credit worthiness review; (6) bid package review; (7) NJDEP / Trust project certification; and (8) satisfaction of the Program's financial eligibility requirements. Certification is issued upon approval of design, environmental planning, contract documents (prevailing wage and small and disadvantaged business provisions), and permits. This section discusses those requirements in detail.
2. **Project Certification.** The documents to be submitted and the approvals necessary to secure NJDEP Certification are as follows:
  - a. **Letter of Intent / Planning Documents.** The program maintains a strict point of entry for new projects (Fall of each year). Under certain circumstances the program will reopen the process creating Track II projects. Project sponsors interested in securing an NJEIFP loan are required to submit a Letter of Intent including an agreement to meet the submittal schedules of the annual priority system, 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 NJDEP, 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.).
  - b. **Permits.** Projects requiring numerous or complex permits should assume that unless the permits are in hand by January, the project will not receive funding during the program year. All other projects should expect to have all major permits in hand by the application deadline (March 6, 2015) to receive financing in the current Financing Program.
  - c. **Application / Construction Design Documents.** A State Loan Application and construction design documents must be completed and submitted by March -6, 2015. 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

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<sup>2</sup> Planning and Design Loans require an abbreviated submission package given the preliminary nature of the work. Similarly, significantly abbreviated submissions are required for emergency loans given the necessity to respond to emergencies quickly.

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).

- d. **Socially and Economically Disadvantaged (SED) Business Participation.** Project sponsors are required to set a goal of awarding at least ten (10) percent 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).
  - e. **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 NJEIPF 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.
  - f. **Public Notice and Public Hearing.** The NJEIPF 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 NJEIPF 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.
  - g. **Department Approval.** 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.
3. **Loan Closing Requirements.** The following is a summary of documents to be submitted and decisions to be made as conditions precedent to Long-Term loan closing. A detailed discussion of the loan requirements will be set forth in the May Report.
- a. **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 Long-Term Loan, Direct Loan and Interim 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. The FAF submission deadline is typically the 2nd week of November. 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 an FAF as well as an interim financing FAF.
  - b. **LFB / NJBPU Approval.** N.J.S.A. 58:11B-9(a) 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 Local Finance Board in the



Division of Local Government Services, Department of Community Affairs. NJBPU approval must be secured by public water utility applicants.

- c. **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.
- d. **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. 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.
- e. **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.

#### 4. **Other Financing Issues.**

- a. **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 NJEIP 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 SFY2016. Amendments to



both the Trust legislation and the federal Drinking Water SRF legislation permit loans to be issued to private water purveyors.

- b. **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 available to NJEIFP projects are 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 Drinking water projects is less than the Clean water 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.
- c. **Transfer of Project Funds Between Programs.** The USEPA permits states to transfer up to thirty-three percent 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 \$115 million have been transferred between the programs.
- d. **Calendar Year 2015 Refunding.** The current low interest rate environment 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 anticipates the sale of one or more series of refunding bonds having a cumulative total principal amount of approximately \$1.140 million the net present value savings of which will be identified at the time of bond sale which will exceed 3.00% of the par amount of the Prior Bonds pursuant to the Trust's enabling legislation (58:11B-6(g)).
- e. **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 SFY2016 financial structure to reflect any changes in the tax law, or its interpretation, to increase the program's flexibility.

## APPENDICES INDEX

Appendix A: Clean Water Combined Base SFY2016 / Superstorm Sandy Project Priority List

Appendix B: Drinking Water Combined Base SFY2016 / Superstorm Sandy Project Priority List

Appendix C: Drinking Water Superstorm Sandy Project Priority List

Appendix D: Construction Loan Program Clean Water Eligibility List

Appendix E: Construction Loan Program Drinking Water Eligibility List

Appendix F: Project Eligibility Guidelines for Sandy Clean Water NJEIFP Loans

Appendix G: Project Eligibility Guidelines for Sandy Drinking Water NJEIFP Loans

Appendix H: Emergency Loan Program Guidance Document

Appendix I: Clean Water Projects Financed in SFY2014

Appendix J: Drinking Water Projects Financed in SFY2014

**Appendix A-1**  
**Clean Water**  
**Clean Water Base SFY2016 / Superstorm Sandy Project Priority List**  
**Alphabetical Order**

Rank	Project Sponsor	Project No.	Estimated Loan Amount	Project Name
S	Caldwell Borough	S340523-04-1	\$886,000	Waste Water Treatment Plant Upgrades
588	Aberdeen Township	340869-02	\$8,414,000	Sanitary Sewerage System & Pump Station upgrades to Freneau/ Woodfield Area.
456	Atlantic County Util. Auth.	340809-28	\$2,050,000	Incinerator meets Sewer Sludge Incineration requirements by EPA. 14 communities that use WWT facility along with outside sludge customers
261	Atlantic County Util. Auth.	340809-29	\$2,719,000	Replace a portion of ACUA's Brigantine FM to reduce total energy consumption or recover previously wasted energy
228	Barnegat Township	340620-07	\$571,000	Improvements to sanitary Pumping Stations including new back-up generators @ 3 stations.
176	Barnegat Township	344130-01	\$571,000	Provide emer. generators for 3 sewage PS near bayfront area; raise elec power breakers & control panels; generators for PS to be placed in bldg above 100 yr flood line
59	Bayshore Reg. Sew. Auth.	340697-06	\$7,917,000	Phase II permanent restoration & mitigation of Blower Bldg #1 Blower Bldg #2 along with perm restor @ plants pwr. Dist. system
132	Bergen County Util. Auth.	340386-09	\$31,784,000	Reduce rainfall-induced I/I & eliminate sanitary sewer overflows at the 47 member muni's sanitary sewers; work plan includes various municipalities
166	Bergen County Util. Auth.	340386-13	\$31,661,000	Consolidation of Edgewater/Little Ferry service area by converting Edgewater WPCF to a PS & diverting service area to Little Ferry WPCF.
132	Bergen County Util. Auth.	340386-14	\$54,173,000	Dry flood proofing wall apertures, raising of grating wall height & air intakes, install flood resistant doors or barricades, install flood walls exterior of bldgs
132	Bergen County Util. Auth.	340386-15	\$42,095,000	Restore & Mitigation for plant wide anaerobic digesters, switch gear, substation gen & co-generation components.
132	Bergen County Util. Auth.	340386-16	\$19,538,000	Main PS, Substations, Conveyance, Disinfection, Primary Sludge Removal, Blowers, Grit Removal, Secondary Sludge PS, Sludge Process
132	Bergen County Util. Auth.	340386-18	\$2,492,000	Pump Station Resiliency Project

635	Burlington County	340818-07	\$2,184,000	Rehab of existing stormwater sewer pipe by installing CIPP, culverts &/or the replacement in-kind. Rehab of stormsewer inlets/catch basin. Purchase of Portable Water Sedimentation Treatment Tank
330	Burlington Township	340712-14	\$1,260,000	Continue rehab of existing Asbestos Cement sanitary sewer mains in various areas. Manhole rehab & lateral sealing will also be performed
726	Califon Borough	S340431-01	\$1,700,000	Various Stormwater Improvements to improve water quality to the South Branch of the Raritan River
17	Camden City	340366-07	\$6,615,000	Rehab & reconstruction of sewers, install/replace manholes/inlets, reconn of sewer laterals, jetting/vacuuming sewers
1	Camden County Munic. Util. Auth.	340640-17	\$6,615,000	Reduce Potential for CSO's within City
23	Camden County Munic. Util. Auth.	340640-18	\$50,665,000	Phase I upgrades, improve/sustain optimal wastewater performance, improve resiliency, reduce carbon footprint, construct sludge digester
843	Carteret Borough	340939-07	\$23,883,000	Dredging of approx 130,00 cubic yards of sediment & construct bulkhead, wetlands mudflats enhancements, bio-engineered slope stabilization.
141	Cinnaminson Sewerage Auth.	340170-07	\$5,357,000	Replace existing surface aerators w/ diffused aeration syst; dissolve oxygen control logic; anoxic zone improvements. Provide odor control equip for sludge handling equip.
624	Cranford Township	340858-04	\$11,796,000	Stormwater construction along Riverside, Park, Brookside, Beech, Willow, Balmiere, Crescent & Hampton Rd to improve drainage & prevent flooding in area of 132 acres.
97	Cumberland County Util. Auth.	340550-07	\$1,055,000	Sewage Treatment Plant Upgrades
215	Cumberland County Util. Auth.	340550-08	\$1,123,000	Replace PS w/ energy efficient ones; Improvements to Plant include energy efficient equip & processes
106	Delran Township	340794-08	\$1,875,000	Replace existing sand filter @ WWTP & rehab Twp's Fifth St Pump Station
231	Delran Township	340794-09	\$751,000	Replacement of existing sand filter @ Twp's WWTP & rehab of Fifth St Pump Station
557	Downe Township	340438-01	\$7,847,000	Private septic systems affecting env degradation of Del Bay. Deterioration of bulkheads & stormwater mgt systems
555	Galloway Township	S340892-09	\$860,000	Moss Mill Pump Station Rehabilitation
149	Gloucester County Util. Auth.	340902-14	\$37,751,000	Bio-solids handling facility changing from sludge incineration to anaerobic digestion w/ combined heat &

				pwr generation. Other energy efficient proposals to digestion process.
646	Gloucester Township	340364-14	\$1,401,000	Rehab portions of existing stormwater collection syst, including repairs to culverts, stormwater outfalls, rehab of stormwater basins, underground stormwater piping.
286	Gloucester Township Munic. Util. Auth.	340364-13	\$1,123,000	Supply & delivery new vac truck, PS communication system, sanitary sewer rehab utilizing slip lining technologies.
356	Hammonton Town	340927-08	\$2,221,000	Sewer Rehab of area adjacent to 4600 LF section of Valley Ave extending from Central Ave to Cty Rte #542 to Bellevue Ave; inclusive of a segment of Broadway south from Valley Ave to Central Ave (Atl Cty)
677	Hammonton Town	340927-09	\$1,774,000	Stormwater Area adjacent to 4600 LF section of Valley Ave extending from Central Ave to Cty Rte #542 to Bellevue Ave; a segment of Broadway south from Valley Ave to Central Ave (Atl Cty)
178	Hightstown Borough	340915-05	\$1,370,000	Replace existing chlorine contact chambers w/ UV disinfection syst. Since two chambers, conversion down in 2 phases to allow for continuing disinfection while 1st chamber being modified.
178	Hightstown Borough	340915-06	\$1,442,000	Construction of 2nd anaerobic digester to allow longer detention for solids sent to digester, will benefit Boro and trtment & disposal of biosolids.
623	Hightstown Borough	340915-07	\$480,000	Remove & replace 16 existing stormwater outlet headwalls w/ concrete headwalls
69	Hoboken City	340635-05	\$4,261,000	SW Park Block 12 infra design & underground retention sys to handle 10-yr storm. Passive rainwater coll, permeable paving, rain gardens & bioswales
69	Hoboken City	340635-06	\$91,282,000	Delay/Store/Discharge-multi-phase project: acquisition, remediation, design, plan & construction on 6 acre park @ NW Hoboken. Outfall @ Weehawken Cove
189	Jackson Township	344050-02	\$999,000	Purchase of a Jet-Vac/Street Sweeper to assist in maintenance of storm drains & outfall areas.
126	Jersey City Munic. Util. Auth.	340928-21	\$6,833,000	Replace 85 sewer pipes, Phase V of Combined Sewer & Conditions Assessment Study; repair approx.. 89 sewer pipes result of study
50	Kearny Town	340259-11	\$8,519,000	New stormwater ps @ Dukes St to reduce flooding while addressing flood mitigation needs for 98 acre known as Dead Horse Creek Watershed
832	Kearny Town	340259-12	\$962,000	Remedial action/contaminated site cleanup as well as stormwater mgt initiative component. Redev of recreational complex as a modern artificial turf complex
832	Kearny Town	340259-13	\$107,558,000	Demolish existing substandard bldgs & infrastructure, removal & replace Water Facilities, ground improvement program

230	Little Egg Harbor Munic. Util. Auth.	340579-02	\$1,931,000	Twin Lakes Blvd Sewer Main Replacement to main constructed in the 60's.
424	Long Beach Township	340023-06	\$3,525,000	Remove & Replace approx. 12,000 LF of sanitary sewer main with PVC includes laterals, cleanouts & manholes.
384	Long Hill Township	340404-09	\$1,397,000	Phase II rehab of sanitary sewer system to reduce peak flows to WWTP by removing I/I from sanitary sewer syst which will enhance operational reliability & protection of water quality
622	Manasquan Borough	340450-01	\$5,070,000	Pump Station elec system & controls, bulkheads undermined, E. Virginia Ave PS elevated using FEMA funds. Protection & stormwater conveyance measures
15	Newark City	340815-24	\$19,258,000	Structural eval/rehab of 350 miles of small diameter swr made of vitrified clay, concrete, asbestos, cement, cast & ductile iron
80	North Hudson Sewerage Auth.	340952-23	\$3,033,000	Phase II improvements with upgrades to physical systems @ some common systems
80	North Hudson Sewerage Auth.	340952-24	\$2,331,000	Rehab sewers @ Hamilton Ave & JFK Blvd. Replace undersized w/ larger pipe to prevent need to upgrade again
80	North Hudson Sewerage Auth.	340952-25	\$1,397,000	2016 Sewer Syst Improv. Replace float & gate mechanisms, install vortex valves to dissipate energy of combined sewer flow
121	Northwest Bergen County Util. Auth.	340700-13	\$5,178,000	Waste activated sludge & aeration systems, replace existing blower w/ energy eff unit, replace 4 waste activated sludge pumps with new energy eff units, construct new gravity belt thickener bldg
182	Ocean County	344080-04	\$3,218,000	Manufactured Treatment Devices
58	Ocean County Util. Auth.	340372-56	\$6,224,000	Rehab primary clarifiers; PC-2, PC-4 @ CWPCF, Clarifiers 2, 3, Final Clarifier FC-4 @ SWPCF
255	Ocean County Util. Auth.	340372-57	\$2,970,000	Pt. Pleasant Beach Interceptor (NI-13) in Northern Service Area inspected, poor condition w/ lining & material lose, using CIPP technology & rehab sanitary sewer manholes.
388	Ocean Township	340112-07	\$2,291,000	Replace approx 6000 LF of sanitary sewer main, drainage improvements along Maplewood, Teaneck Rds., Englewood Ave., Dune Lane, Stillwater Rd & Harborage Place
385	Oradell Borough	340835-04	\$1,137,000	Phase IV sanitary sewer improvements; including replacement of 435 LF of sewer pipe & 3290 LF of sewer lining
108	Passaic Valley Sew. Commission	340689-30	\$1,734,000	Relocate sump pumps to prevent flooding during storms; provide roll-in stand-by generator that can be tied into temp stand-by power elect. distribution

108	Passaic Valley Sew. Commission	340689-31	\$1,781,000	Replace existing Sod Hypochlorite Storage & Feed Tanks to improve & accommodate disinfection for increased wet weather flows
108	Passaic Valley Sew. Commission	340689-32	\$1,805,000	Plant wide improvements to increase wet weather treatment capacity to reduce CSO discharges; install equip, tanks, piping, metering pumps for Newark Bay Outfall
108	Passaic Valley Sew. Commission	340689-33	\$5,922,000	Install watertight doors in various tunnel locations & access locations to process areas; HVAC work to provide ventilation to areas & above grade site work
108	Passaic Valley Sew. Commission	340689-34	\$2,845,000	Purchase & Install new pumps, valves, piping, flow meters, process control sampling & monitoring equipment
712	Paulsboro Borough	340164-01	\$2,237,000	Replace malfunctioning storm sewer along Thomson & Wood Aves., existing mains undersized & incorrectly built using saw-tooth fashion.
92	Perth Amboy City	340435-11	\$6,460,000	Minimum replacement 3 pumps w/ dry pit submersible pumps, relocate elect. equip, reduce flood risk & enhance resiliency
377	Pine Hill Munic. Util. Auth.	340274-05	\$1,287,000	Update existing aging PS on greenwood ave., exc/install new wet well including all pumps, controls & elec panels; install new FM conn from Madison Ave to CCMUA interceptor @ Berlin-Cross Keys Rd.
474	Plumsted Township	340607-03	\$16,790,000	Construct new advanced WW treatment & coll system to repl aged, failing undersized septic & cesspool systems.
107	Pompton Lakes Borough Munic. Util. Auth.	340636-08	\$986,000	Contract 131; Replace 6 circular clarifiers been in operation since 1960; internal mechanisms have deteriorated.
4	Rahway Valley Sewerage Auth.	340547-14	\$9,461,000	Replace existing digester tank covers & mixers; replacing gas flares
4	Rahway Valley Sewerage Auth.	340547-15	\$2,719,000	Construct trucked in waste receiving station w/ connection for hook up to tanks & pumps
4	Rahway Valley Sewerage Auth.	340547-16	\$1,192,000	Modifications to cogen engines; install redundant distr bus; install heat exchangers; flood proof doors @ Admin Bldg
187	Rockaway Valley Reg. Sew. Auth.	340821-07	\$3,998,000	Rehab & enhancement of four existing final clarifiers
187	Rockaway Valley Reg. Sew. Auth.	340821-08	\$15,440,000	Upgrades for compliance with effluent limitation for phosphorus w/ addition of chem storage & feed syst, implement add'l SCADA improvements to enhance monitoring & control

339	Roselle Borough	340332-02	\$3,472,000	Cleaning, tv inspection & lining of approx 3 miles of sanitary sewer pipe. Bulk of sewer syst consists of terra cotta or clay pipe to be inspected & lined
385	Runnemede Borough	340363-06	\$1,554,000	Sanitary Sewer Slip lining to improve sewer conveyance at various locations throughout Boro.
744	Sea Girt Borough	340468-01	\$4,824,000	Upgrading of pipe sizes & the extension of Baltimore Blvd & Neptune Place outfall pipes
98	Somerset Raritan Valley Sewerage Auth.	340801-07	\$14,835,000	Design & Constr of facility to capture & treat san sewer overflows. Storm Control Fac will eliminate discharge raw sewage @ source.
460	Somerset Raritan Valley Sewerage Auth.	340801-08	\$12,998,000	Rehab of sludge incinerator #2 consists of new secondary heat exchanger, scrubber syst, new assoc instrumentation & elect syst to meet Federal air emission performance standards.
298	South Monmouth Reg. Sew. Auth.	340377-05	\$2,719,000	Various mechanical, structural & electrical improvements to Belmar PS, replace pumping equip w/ new dry pit submersibles, construct new below ground grinder chambers
848	Two Rivers Water Recl. Auth.	340117-06	\$14,827,000	Fort Monmouth sanitary sewer system rehabilitation
301	Washington Township Munic. Util. Auth.	340930-03	\$2,271,000	Replace Virginia Dr PS & various sanitary sewer main rehabs & replacements. Sewer Mains located @ Shoppers Lane, Bee Branch & Heather Road easement
	Total - 80 CW Projects		\$787,550,000	



## Appendix A-2

### Clean Water

#### Base SFY2016 / Superstorm Sandy Project Priority List Ranked Order

Rank	Project Sponsor	Project No.	Estimated Loan Amount	Project Name
S	Caldwell Borough	S340523-04-1	\$886,000	Waste Water Treatment Plant Upgrades
1	Camden County Munic. Util. Auth.	340640-17	\$6,615,000	Reduce Potential for CSO's within City
4	Rahway Valley Sewerage Auth.	340547-14	\$9,461,000	Replace existing digester tank covers & mixers; replacing gas flares
4	Rahway Valley Sewerage Auth.	340547-15	\$2,719,000	Construct trucked in waste receiving station w/ connection for hook up to tanks & pumps
4	Rahway Valley Sewerage Auth.	340547-16	\$1,192,000	Modifications to cogen engines; install redundant dist. bus; install heat exchangers; flood proof doors @ Admin Bldg
15	Newark City	340815-24	\$19,258,000	Structural eval & rehab of 350 miles of sm diameter sewers made of vitrified clay, concrete, asbestos, cement, cast & ductile iron
17	Camden City	340366-07	\$6,615,000	Rehab & reconstruction of sewers, install/replace manholes/inlets, reconn of sewer laterals, jetting/vacuuming sewers
23	Camden County Munic. Util. Auth.	340640-18	\$50,665,000	Phase I upgrades, improve/sustain optimal wastewater performance improve resiliency, reduce carbon footprint, construct sludge digester
50	Kearny Town	340259-11	\$8,519,000	New stormwater PS @ Dukes St to reduce flooding while addressing flood mitigation needs for 98 acre known as Dead Horse Creek Watershed
58	Ocean County Util. Auth.	340372-56	\$6,224,000	Rehab primary clarifiers; PC-2, PC-4 @ CWPCF, Clarifiers 2, 3, Final Clarifier FC-4 @ SWPCF
59	Bayshore Reg. Sew. Auth.	340697-06	\$7,917,000	Phase II permanent restoration & mitigation of Blower Bldg #1 Blower Bldg #2 along with perm restor @ plants power dist. system
69	Hoboken City	340635-05	\$4,261,000	SW Park Block 12 infra design & underground retention sys to handle 10-yr storm. Passive rainwater collection, permeable paving, rain gardens & bioswales
69	Hoboken City	340635-06	\$91,282,000	Delay/Store/Discharge-multi-phase project: acquisition, remediation, design, plan & construction on 6 acre park @ NW Hoboken. Outfall @ Weehawken Cove

80	North Hudson Sewerage Auth.	340952-24	\$2,331,000	Rehab sewers @ Hamilton Ave & JFK Blvd. Replace undersized w/ larger pipe to prevent need to upgrade again
80	North Hudson Sewerage Auth.	340952-25	\$1,397,000	2016 Sewer System Improvements. Replace float & gate mechanisms, install vortex valves to dissipate energy of combined sewer flow
80	North Hudson Sewerage Auth.	340952-23	\$3,033,000	Phase II improvements with upgrades to physical systems @ some common systems
92	Perth Amboy City	340435-11	\$6,460,000	Minimum replacement 3 pumps w/ dry pit submersible pumps, relocate elect. equip, reduce flood risk & enhance resiliency
97	Cumberland County Util. Auth.	340550-07	\$1,055,000	Sewage Treatment Plant Upgrades
98	Somerset Raritan Valley Sewerage Auth.	340801-07	\$14,835,000	Design & Constr of facility to capture & treat san sewer overflows. Storm Control Facility will eliminate discharge raw sewage @ source.
106	Delran Township	340794-08	\$1,875,000	Replace existing sand filter @ WWTP & rehab Twp's Fifth St Pump Station
107	Pompton Lakes Borough Munic. Util. Auth.	340636-08	\$986,000	Contract 131; Replace 6 circular clarifiers been in operation since 1960; internal mechanisms have deteriorated.
108	Passaic Valley Sew. Commission	340689-30	\$1,734,000	Relocate sump pumps to prevent flooding during storms; provide roll-in stand-by generator that can be tied into temp stand-by power elect. distribution
108	Passaic Valley Sew. Commission	340689-31	\$1,781,000	Replace existing Sod Hypochlorite Storage & Feed Tanks to improve & accommodate disinfection for increased wet weather flows
108	Passaic Valley Sew. Commission	340689-32	\$1,805,000	Plant wide improvements to increase wet weather treatment capacity to reduce CSO discharges; install equip, tanks, piping, metering pumps for Newark Bay Outfall
108	Passaic Valley Sew. Commission	340689-33	\$5,922,000	Install watertight doors in various tunnel locations & access locations to process areas; HVAC work to provide ventilation to areas & above grade site work
108	Passaic Valley Sew. Commission	340689-34	\$2,845,000	Purchase & Install new pumps, valves, piping, flow meters, process control sampling & monitoring equipment
121	Northwest Bergen County Util. Auth.	340700-13	\$5,178,000	Waste activated sludge & aeration systems, replace existing blower w/ energy eff unit, replace 4 waste activated sludge pumps with new energy eff units, construct new gravity belt thickener bldg

126	Jersey City Munic. Util. Auth.	340928-21	\$6,833,000	Replace 85 sewer pipes, Phase V of Combined Sewer & Conditions Assessment Study; repair approx. 89 sewer pipes result of study
132	Bergen County Util. Auth.	340386-09	\$31,784,000	Reduce rainfall-induced I/I & eliminate sanitary sewer overflows at the 47 member muni's sanitary sewers; work plan includes various municipalities
132	Bergen County Util. Auth.	340386-14	\$54,173,000	Dry flood proofing wall apertures, raising of grating wall height & air intakes, install flood resistant doors or barricades, install flood walls exterior of bldgs
132	Bergen County Util. Auth.	340386-15	\$42,095,000	Restore & Mitigation for plant wide anaerobic digesters, switch gear, substation gen & co-generation components.
132	Bergen County Util. Auth.	340386-16	\$19,538,000	Main PS, Substations, Conveyance, Disinfection, Primary Sludge Removal, Blowers, Grit Removal, Secondary Sludge PS, Sludge Process
132	Bergen County Util. Auth.	340386-18	\$2,492,000	Pump Station Resiliency Project
141	Cinnaminson Sewerage Auth.	340170-07	\$5,357,000	Replace existing surface aerators w/ diffused aeration syst; dissolve oxygen control logic; anoxic zone improvements. Provide odor control equip for sludge handling equip.
149	Gloucester County Util. Auth.	340902-14	\$37,751,000	Bio-solids handling facility changing from sludge incineration to anaerobic digestion w/ combined heat & pwr generation. Other energy efficient proposals to digestion process.
166	Bergen County Util. Auth.	340386-13	\$31,661,000	Consolidation of Edgewater/Little Ferry service area by converting Edgewater WPCF to a PS & diverting service area to Little Ferry WPCF.
176	Barnegat Township	344130-01	\$571,000	Provide emerg. generators for 3 sewage PS near bayfront area; raise elec power breakers & control panels; generators for PS to be placed in bldg above 100 yr flood line
178	Hightstown Borough	340915-05	\$1,370,000	Replace existing chlorine contact chambers w/ UV disinfection syst. Since two chambers, conversion down in 2 phases to allow for continuing disinfection while 1st chamber being modified.
178	Hightstown Borough	340915-06	\$1,442,000	Construction of 2nd anaerobic digester to allow longer detention for solids sent to digester, will benefit Boro and treatment & disposal of biosolids.
182	Ocean County	344080-04	\$3,218,000	Manufactured Treatment Devices
187	Rockaway Valley Reg. Sew. Auth.	340821-07	\$3,998,000	Rehab & enhancement of four existing final clarifiers

187	Rockaway Valley Reg. Sew. Auth.	340821-08	\$15,440,000	Upgrades for compliance with effluent limitation for phosphorus w/ addition of chemical storage & feed system, implement add'l SCADA improvements to enhance monitoring & control
189	Jackson Township	344050-02	\$999,000	Purchase of a Jet-Vac/Street Sweeper to assist in maintenance of storm drains & outfall areas.
215	Cumberland County Util. Auth.	340550-08	\$1,123,000	Replace PS w/ energy efficient ones; Improvements to Plant include energy efficient equip & processes
228	Barnegat Township	340620-07	\$571,000	Improvements to sanitary Pumping Stations including new back-up generators @ 3 stations.
230	Little Egg Harbor Munic. Util. Auth.	340579-02	\$1,931,000	Twin Lakes Blvd Sewer Main Replacement to main constructed in the 60's.
231	Delran Township	340794-09	\$751,000	Replacement of existing sand filter @ Twp's WWTP & rehab of Fifth St Pump Station
255	Ocean County Util. Auth.	340372-57	\$2,970,000	Pt. Pleasant Beach Interceptor (NI-13) in Northern Service Area inspected, poor condition w/ lining & material lose, using CIPP technology & rehab sanitary sewer manholes.
261	Atlantic County Util. Auth.	340809-29	\$2,719,000	Replace a portion of ACUA's Brigantine FM to reduce total energy consumption or recover previously wasted energy
286	Gloucester Township Munic. Util. Auth.	340364-13	\$1,123,000	Supply & delivery new vac truck, PS communication system, sanitary sewer rehab utilizing slip lining technologies.
298	South Monmouth Reg. Sew. Auth.	340377-05	\$2,719,000	Various mechanical, structural & electrical improvements to Belmar PS, replace pumping equip w/ new dry pit submersibles, construct new below ground grinder chambers
301	Washington Township Munic. Util. Auth.	340930-03	\$2,271,000	Replace Virginia Dr PS & various sanitary sewer main rehabs & replacements. Sewer Mains located @ Shoppers Lane, Bee Branch & Heather Road easement
330	Burlington Township	340712-14	\$1,260,000	Continue rehab of existing Asbestos Cement sanitary sewer mains in various areas. Manhole rehab & lateral sealing will also be performed
339	Roselle Borough	340332-02	\$3,472,000	Cleaning, tv inspection & lining of approx.. 3 miles of sanitary sewer pipe. Bulk of sewer system consists of terra cotta or clay pipe to be inspected & lined
356	Hammonton Town	340927-08	\$2,221,000	Sewer Rehab of area adjacent to 4600 LF section of Valley Ave extending from Central Ave to Cty Rte #542 to Bellevue Ave; inclusive of a segment of Broadway south from Valley Ave to Central Ave (Atl Cty)

377	Pine Hill Munic. Util. Auth.	340274-05	\$1,287,000	Update existing aging ps on greenwood ave., excav & install new wet well incl all pumps, controls & elec. panels; install new FM conn from Madison Ave to CCMUA interceptor @ Berlin-Cross Keys Rd.
384	Long Hill Township	340404-09	\$1,397,000	Phase II rehab of sanitary sewer system to reduce peak flows to WWTP by removing I/I from sanitary sewer syst which will enhance operational reliability & protection of water quality
385	Oradell Borough	340835-04	\$1,137,000	Phase IV sanitary sewer improvements; including replacement of 435 LF of sewer pipe & 3290 LF of sewer lining
385	Runnemede Borough	340363-06	\$1,554,000	Sanitary Sewer Sliplining to improve sewer conveyance at various locations throughout Boro.
388	Ocean Township	340112-07	\$2,291,000	Replace approx 6000 LF of sanitary sewer main, drainage improvements along Maplewood, Teaneck Rds., Englewood Ave., Dune Lane, Stillwater Rd & Harborage Place
424	Long Beach Township	340023-06	\$3,525,000	Remove & Replace approx 12,000 LF of sanitary sewer main with PVC including laterals, cleanouts & manholes.
456	Atlantic County Util. Auth.	340809-28	\$2,050,000	Incinerator meets Sewer Sludge Incineration requirements by EPA. 14 communities that use WWT facility along with outside sludge customers
460	Somerset Raritan Valley Sewerage Auth.	340801-08	\$12,998,000	Rehab of sludge incinerator #2 consists of new secondary heat exchanger, scrubber syst, new assoc instrumentation & elect system to meet Federal air emission performance standards.
474	Plumsted Township	340607-03	\$16,790,000	Construct new advanced WW treatment & coll system to replace aged, failing undersized septic & cesspool systems.
555	Galloway Township	5340892-09	\$860,000	Moss Mill Pump Station Rehabilitation
557	Downe Township	340438-01	\$7,847,000	Private septic systems affecting env degradation of Del Bay. Deterioration of bulkheads & stormwater mgt systems
588	Aberdeen Township	340869-02	\$8,414,000	Sanitary Sewerage System & Pump Station upgrades to Freneau/ Woodfield Area.
622	Manasquan Borough	340450-01	\$5,070,000	Pump Station elec syst & controls, bulkheads undermined, E. Virginia Ave PS elevated using FEMA funds. Proj incl protection & stormwater conveyance measures
623	Hightstown Borough	340915-07	\$480,000	Remove & replace 16 existing stormwater outlet headwalls w/ concrete headwalls

624	Cranford Township	340858-04	\$11,796,000	Stormwater construction along Riverside, Park, Brookside, Beech, Willow, Balmiere, Crescent & Hampton Rd to improve drainage & prevent flooding in area of 132 acres.
635	Burlington County	340818-07	\$2,184,000	Rehab of existing stormwater sewer pipe by installing CIPP, culverts &/or the replacement in-kind. Rehab of storm sewer inlets/catch basin. Purchase of Portable Water Sedimentation Treatment Tank.
646	Gloucester Township	340364-14	\$1,401,000	Rehab portions of existing stormwater collection syst, including repairs to culverts, stormwater outfalls, rehab of stormwater basins, underground stormwater piping.
677	Hammonton Town	340927-09	\$1,774,000	Stormwater Area adjacent to 4600 LF section of Valley Ave extending from Central Ave to Cty Rte #542 to Bellevue Ave; a segment of Broadway south from Valley Ave to Central Ave (Atl Cty)
712	Paulsboro Borough	340164-01	\$2,237,000	Replace malfunctioning storm sewer along Thomson & Wood Aves., existing mains undersized & incorrectly built using saw-tooth fashion.
726	Califon Borough	S340431-01	\$1,700,000	Various Stormwater Improvements to improve water quality to the South Branch of the Raritan River
744	Sea Girt Borough	340468-01	\$4,824,000	Upgrading of pipe sizes & the extension of Baltimore Blvd & Neptune Place outfall pipes
832	Kearny Town	340259-12	\$962,000	Remedial action/contaminated site cleanup as well as stormwater mgt initiative component. Redevelopment of recreational complex as a modern artificial turf complex
832	Kearny Town	340259-13	\$107,558,000	Demolish existing substandard bldgs & infrstructure, removal & replace Water Facilities, ground improvement program
843	Carteret Borough	340939-07	\$23,883,000	Dredging of approx. 130,00 cubic yards of sediment & construct bulkhead, wetlands mudflats enhancements, bio-engineered slope stabilization.
848	Two Rivers Water Recl. Auth.	340117-06	\$14,827,000	Fort Monmouth sanitary sewer system rehabilitation
	Total - 80 CW Projects		\$787,550,000	

**Appendix B-1**  
**Drinking Water**  
**Drinking Water Base SFY2016 Project Priority List**  
**Alphabetical Order**

Rank	Project Sponsor	Project No.	Est. Project Cost	Project Name
<b>Base Program</b>				
147	Bayonne MUA	0901001-006	\$7,621,000	Aqueduct Replacement
78	Berkeley Township MUA	1505004-008	\$3,286,000	Phase VI Water Main Installation
26	Bordentown City	0303001-006	\$995,000	Upgrade Well 2 with 2A to resolve violation
235	Bordentown City	0303001-007	\$2,454,000	Water System Remediation Upgrades to WTP
67	Camden City	0408001-021	\$1,523,000	New Auto Meter Reading Equip for entire City
88	Camden City	0408001-022	\$153,000	Install potable wells/flr elevations @ Morris Delair WTP
182	Cape May City	0502001-004	\$1,523,000	Well #5 Replacment for the Sands Aquifer
220	Clementon Borough	0411001-001	\$457,000	Rehab of Gibbsboro Water Main (White Horse Pk & Wht Horse Rd.)
437	Clementon Borough	0411001-002	\$1,295,000	Rehab of well #9 including slip lining to improve conveyance
286	Downe Township	0604999-001	\$4,288,000	Water System - Money Island & Gandy's Beach, Install Storage Tank
72	East Orange Water Commission	0705001-500	\$4,596,000	Install generators -White Oak Rd
527	Franklin Township	0805388-001	\$160,000	WTP & Water Storage Tank for fire protection @ Meredith Fams
214	Hammonton Town	0113001-011	\$1,781,000	2016 Utility Road Program Valley, Central & Bellevue Ave to Broadway.
439	Hampton Borough	1013001-001	\$1,371,000	New back up well #5 to address firm capacity requirements
174	Hightstown Borough	1104001-008	\$156,000	Settling Tank Rehabilitation
273	Hightstown Borough	1104001-006	\$1,875,000	Water Main Rehab Stockton St. / Dutch Neck & Harron intersection
476	Hightstown Borough	1104001-007	\$375,000	Rehabilitation of Deep Well #2



183	Jackson Township MUA	1511001-010	\$5,690,000	Demolition of Facilities, replace storage tank, well #3
411	Jackson Township MUA	1511001-011	\$1,407,000	Improvements to Manhattan St Complex, Garage & Admin Bldg.
81	Jefferson Township	1414009-001	\$1,809,000	Lake Hopatcong System Interconnection
8	Lake Glenwood Village	1922010-008	\$739,000	Wells 1 & 2 upgrades
68	Lake Glenwood Village	1922010-007	\$686,000	Well #8 Construction & Interconnection
280	Lake Glenwood Village	1922010-006	\$1,568,000	Distribution Main replacement, mains undersized, improperly covered
481	Lake Glenwood Village	1922010-005	\$168,000	New well #8 for upper system
99	Little Egg Harbor MUA	1516001-004	\$1,520,000	Twin Lakes Water Main Replacment
233	Long Beach Township	1517001-502	\$2,808,000	Raise Well #4, reconstruct filter room & pumps
270	Manasquan Borough	1327001-002	\$1,142,000	Construction of 600 LF of WM on Perrine Blvd & Mallard Park Area
408	Manasquan Borough	1327001-001	\$2,429,000	Green Infrastructure Project-Advances Metering System
158	Manchester Utilities Authority	1603001-015	\$1,276,000	Relocate Meters, transferring users to higher elevation
413	Manchester Utilities Authority	1603001-014	\$174,000	Relocate water meters to reduce non-revenue water due to peaks.
381	Marlboro Township	1328002-003	\$1,800,000	Beacon Hill storage tank Rehab
426	Marlboro Township	1328002-501	\$1,523,000	portable genertor @ Harbor Rd & Tennent Rd WTP
500	Marlboro Township	1328002-004	\$1,142,000	New standby well 5A (Tennent Rd Trtment Plant & Booster PS)
501	Marlboro Township	1328002-005	\$762,000	Reconstruction of well #4 @ the Harbor Rd WTP
225	Middlesex Water Company	1225001-021	\$12,611,000	CJO Sludge Dewatering Facility
299	Middlesex Water Company	1225001-023	\$5,681,000	Renew 2016, C&L of water mains, replacement of non-copper services
300	Middlesex Water Company	1225001-022	\$39,134,000	Construct 5.3 mile transmission main for system redundancy
370	Middlesex Water Company	1225001-024	\$3,463,000	New Interconnection of PS, new table type chlorinators
371	Middlesex Water Company	1225001-506	\$8,592,000	New elevated storage tank to replace tank & PS @ Eborn



261	Milltown Borough	1214001-004	\$1,610,000	Phase II of overall plan to correct water distribution system
57	Mountain Shores POA	1414009-001	\$1,400,000	Replace old water syst & connect to Lake Hopatcong syst owned by Twp
94	Netcong Borough	1428001-007	\$3,554,000	Replace WM on Rte 46, extend WM on Rte, 80, replace meters
121	Netcong Borough	1428001-008	\$568,000	Rehabilitate existing storage facilities
159	Netcong Borough	1428001-009	\$267,000	Replace old meters with automatic ones
63	Newark City	0714001-500	\$1,523,000	Wayne & Clifton PS Generators
48	North Jersey District WS	1613001-031	\$3,560,000	Design/Build to install centrifuge within RTF
49	North Jersey District WS	1613001-032	\$3,554,000	Treatment Facility Rehabilitation
84	North Jersey District WS	1613001-035	\$1,523,000	Design/Build, Rehab of PS, Repair Balancing Reservoir
85	North Jersey District WS	1613001-036	\$4,025,000	Lower Gate Houe Impr., Replace Wanaque Flow Control Valve, Rebuild motors
103	North Jersey District WS	1613001-033	\$3,785,000	Orechio Dr complex updates to Security Infra., @ Treatment Facilities
104	North Jersey District WS	1613001-034	\$1,447,000	Building Improvements @ 3 facilities, Guardian Blue, Genius Moduls
105	North Jersey District WS	1613001-037	\$244,000	Install of backup generator feed
389	Oakland Borough	0220001-004	\$115,000	Rehab of Iroquois Pumping Station
432	Oakland Borough	0220001-003	\$153,000	diesel generator for well #9
490	Oakland Borough	0220001-002	\$2,632,000	Replace 4600 water meters
504	Oakland Borough	0220001-001	\$153,000	Construct new well 10A as backup for well #10
278	Ocean Gate Borough	1521001-001	\$1,034,000	Majority of West Barnegat Ave water mains replaced. Additional areas also replacing
260	Ocean Township	1520001-007	\$1,257,000	Tuscarora Ave & 11st water main replacement
2	Passaic Valley WC	1605002-014	\$23,446,000	Phase I- Levine Reservoir Water Storage Improv.
100	Paulsboro Borough	0814001-003	\$1,295,000	Water Main Repalcement (Thomson, Wood, Elizabeth and Commerce St.)

12	Pemberton Township	0329004-004	\$1,142,000	Well #11 Radium Rehab
337	Pennington Borough	1108001-001	\$1,135,000	Upper King George Rd & Park Ave replace & upgrade water system
193	Perth Amboy City	1216001-008	\$1,725,000	2015 Replacement of Various Four Inch Mains throught the City
24	Saddle Brook Township	0257001-002	\$1,995,000	Water Main replacment to lower chlorine residuals
157	Trenton City	1111001-008	\$14,170,000	Cleaning/Lining 128,000 LF / 5500 LF of water mains
157	Trenton City	1111001-010	\$13,361,000	Cleaing/Lining of 4-12" water mains )
149	Wall Township	1352003-002	\$2,742,000	Route 34 Water Main Improvements
150	Wall Township	1352003-001	\$1,391,000	Route 138 Water Main Improvements
229	Washington Township MUA	0818004-013	\$1,043,000	Well #21 Treatment Facility
307	Washington Township MUA	0818004-009	\$678,000	Shoppers Lane Water Main extension
377	Washington Township MUA	0818004-010	\$1,828,000	Replace well #8, pump house replace @ well #2,
378	Washington Township MUA	0818004-011	\$4,628,000	Storage Tank painting (interior & exterior)
424	Washington Township MUA	0818004-012	\$115,000	Improvments to the billing building. Security at well houses
7	Willingboro MUA	0338001-009	\$3,883,000	Well 5A Radium Treatment
14	Winslow Township	0436007-008	\$2,702,000	Well #1 Radium Removal Plant
449	Winslow Township	0436007-009	\$3,597,000	Eden Hollow & Arbor Meadows water service replacement & upgrades
	<b>76 Projects</b>		<b>\$243,313,000</b>	
<b>Small Systems Loan Program Order</b> (Included in above Base Program)				
<b>&lt;500 Population Served</b>				
286	Downe Township	0604999-001	\$4,288,000	Upgrade wastewater mgt system for Money Island & Gandy's Beach.
527	Franklin Township	0805388-001	\$160,000	New water treatment plant at Meredith farms

81	Jefferson Township	1414009-001	\$1,809,000	Mountain Shores WC connection
8	Lake Glenwood Village	1922010-008	\$739,000	Brand new water source for water system for 70 homes
68	Lake Glenwood Village	1922010-007	\$686,000	Central WTP to treat & rehab wells
280	Lake Glenwood Village	1922010-006	\$1,568,000	Replace undersized mains, improper cover & water loss control
481	Lake Glenwood Village	1922010-005	\$168,000	Well #8 Construction & Interconnection
	<b>7 Projects</b>		<b>\$9,418,000</b>	
<b>501 to 3,300 Population Served</b>				
439	Hampton Borough	1013001-001	\$1,371,000	New back up well #5 to address firm capacity requirements
57	Mountain Shores POA	1414009-001	\$1,400,000	Install/Replace water mains to connect to Jefferson Twp
94	Netcong Borough	1428001-007	\$3,554,000	Remove/repair 1MMG reservoir, replace mains (rte 46 & rte 80)
121	Netcong Borough	1428001-008	\$568,000	Rehabilitate existing storage facilities
159	Netcong Borough	1428001-009	\$267,000	Install automatic meter reading system
278	Ocean Gate Borough	1521001-001	\$1,034,000	Replacement of approximately 2,950 LF of water mains.
337	Pennington Borough	1108001-001	\$1,135,000	Upper King George Rd & Park Ave replace & upgrade water system
	<b>7 Projects</b>		<b>\$9,329,000</b>	
<b>3,301 to 10,000 Population Served</b>				
78	Berkeley Township MUA	1505004-008	\$3,286,000	Phase VI Water Main Installation
220	Clementon Borough	0411001-001	\$457,000	Gibbsboro Water Main Rehab (White Horse Pk & Wht Horse Rd.)

437	Clementon Borough	0411001-002	\$1,295,000	Rehab of well #9 including slip lining to improve conveyance
174	Hightstown Borough	1104001-008	\$156,000	Rehabilitation of settling tanks
273	Hightstown Borough	1104001-006	\$1,875,000	Water Main Rehab (Stockton St, and Dutch Neck / Harron Ave. intersect)
476	Hightstown Borough	1104001-007	\$375,000	Rehabilitation of Deep Well #3
99	Little Egg Harbor MUA	1516001-004	\$1,520,000	Twin Lakes Water Main Replacment
261	Milltown Borough	1214001-004	\$1,610,000	Phase II of overall plan to correct water distribution system
100	Paulsboro Borough	0814001-003	\$1,295,000	Water Main Repalce (Thomson, Wood, Elizabeth,Commerce St)
	<b>9 Projects</b>		<b>\$11,869,000</b>	

**Appendix B-2**  
**Drinking Water**  
**Drinking Water Base SFY2016 Project Priority List**  
**Ranked Order**

Rank	Project Sponsor	Project No.	Est. Project Cost	Project Name
<b>Base Program</b>				
2	Passaic Valley WC	1605002-014	\$23,446,000	Phase I- Levine Reservoir Water Storage Improv.
7	Willingboro MUA	0338001-009	\$3,883,000	Well 5A Radium Treatment
8	Lake Glenwood Village	1922010-008	\$739,000	Wells 1 & 2 upgrades
12	Pemberton Township	0329004-004	\$1,142,000	Well #11 Radium Rehab
14	Winslow Township	0436007-008	\$2,702,000	Well #1 Radium Removal Plant
24	Saddle Brook Township	0257001-002	\$1,995,000	Water Main replacment to lower chlorine residuals
26	Bordentown City	0303001-006	\$995,000	Upgrade Well 2 with 2A to resolve violation
48	North Jersey District WS	1613001-031	\$3,560,000	Design/Build to install centrifuge within RTF
49	North Jersey District WS	1613001-032	\$3,554,000	Treatment Facility Rehabilitation
57	Mountain Shores POA	1414009-001	\$1,400,000	Replace old water syst & connect to Lake Hopatcong syst owned by Twp
63	Newark City	0714001-500	\$1,523,000	Wayne & Clifton PS Generators
67	Camden City	0408001-021	\$1,523,000	New Auto Meter Reading Equip for entire City
68	Lake Glenwood Village	1922010-007	\$686,000	Well #8 Construction & Interconnection
72	East Orange Water Commission	0705001-500	\$4,596,000	Install generators -White Oak Rd
78	Berkeley Township MUA	1505004-008	\$3,286,000	Phase VI Water Main Installation
81	Jefferson Township	1414009-001	\$1,809,000	Lake Hopatcong System Interconnection
84	North Jersey District WS	1613001-035	\$1,523,000	Design/Build, Rehab of PS, Repair Balancing Reservoir

85	North Jersey District WS	1613001-036	\$4,025,000	Lower Gate Houe Impr., Replace Wanaque Flow Control Valve, Rebuild motors
88	Camden City	0408001-022	\$153,000	Install potable wells/flr elevations @ Morris Delair WTP
94	Netcong Borough	1428001-007	\$3,554,000	Replace WM on Rte 46, extend WM on Rte, 80, replace meters
99	Little Egg Harbor MUA	1516001-004	\$1,520,000	Twin Lakes Water Main Replacment
100	Paulsboro Borough	0814001-003	\$1,295,000	Water Main Repalcement (Thomson, Wood, Elizabeth and Commerce St.)
103	North Jersey District WS	1613001-033	\$3,785,000	Orechio Dr complex updates to Security Infra., @ Treatment Facilities
104	North Jersey District WS	1613001-034	\$1,447,000	Building Improvements @ 3 facilities, Guardian Blue, Genius Moduls
105	North Jersey District WS	1613001-037	\$244,000	Install of backup generator feed
121	Netcong Borough	1428001-008	\$568,000	Rehabilitate existing storage facilities
147	Bayonne MUA	0901001-006	\$7,621,000	Aqueduct Replacement
149	Wall Township	1352003-002	\$2,742,000	Route 34 Water Main Improvements
150	Wall Township	1352003-001	\$1,391,000	Route 138 Water Main Improvements
157	Trenton City	1111001-008	\$14,170,000	Cleaning/Lining 128,000 LF / 5500 LF of water mains
157	Trenton City	1111001-010	\$13,361,000	Cleaing/Lining of 4-12" water mains )
158	Manchester Utilities Authority	1603001-015	\$1,276,000	Relocate Meters, transferring users to higher elevation
159	Netcong Borough	1428001-009	\$267,000	Replace old meters with automatic ones
174	Hightstown Borough	1104001-008	\$156,000	Settling Tank Rehabilitation
182	Cape May City	0502001-004	\$1,523,000	Well #5 Replacment for the Sands Aquifer
183	Jackson Township MUA	1511001-010	\$5,690,000	Demolition of Facilities, replace storage tank, well #3
193	Perth Amboy City	1216001-008	\$1,725,000	2015 Replacement of Various Four Inch Mains throught the City
214	Hammonton Town	0113001-011	\$1,781,000	2016 Utility Road Program Valley, Central & Bellevue Ave to Broadway.
220	Clementon Borough	0411001-001	\$457,000	Rehab of Gibbsboro Water Main (White Horse Pk & Wht Horse Rd.)

225	Middlesex Water Company	1225001-021	\$12,611,000	CJO Sludge Dewatering Facility
229	Washington Township MUA	0818004-013	\$1,043,000	Well #21 Treatment Facility
233	Long Beach Township	1517001-502	\$2,808,000	Raise Well #4, reconstruct filter room & pumps
235	Bordentown City	0303001-007	\$2,454,000	Water System Remediation Upgrades to WTP
260	Ocean Township	1520001-007	\$1,257,000	Tuscarora Ave & 11st water main replacement
261	Milltown Borough	1214001-004	\$1,610,000	Phase II of overall plan to correct water distribution system
270	Manasquan Borough	1327001-002	\$1,142,000	Construction of 600 LF of WM on Perrine Blvd & Mallard Park Area
273	Hightstown Borough	1104001-006	\$1,875,000	Water Main Rehab Stockton St. / Dutch Neck & Harron intersection
278	Ocean Gate Borough	1521001-001	\$1,034,000	Majority of West Barnegat Ave water mains replaced. Additional areas also replacing
280	Lake Glenwood Village	1922010-006	\$1,568,000	Distribution Main replacement, mains undersized, improperly covered
286	Downe Township	0604999-001	\$4,288,000	Water System - Money Island & Gandy's Beach, Install Storage Tank
299	Middlesex Water Company	1225001-023	\$5,681,000	Renew 2016, C&L of water mains, replacement of non-copper services
300	Middlesex Water Company	1225001-022	\$39,134,000	Construct 5.3 mile transmission main for system redundancy
307	Washington Township MUA	0818004-009	\$678,000	Shoppers Lane Water Main extension
337	Pennington Borough	1108001-001	\$1,135,000	Upper King George Rd & Park Ave replace & upgrade water system
370	Middlesex Water Company	1225001-024	\$3,463,000	New Interconnection of PS, new table type chlorinators
371	Middlesex Water Company	1225001-506	\$8,592,000	New elevated storage tank to replace tank & PS @ Eborn
377	Washington Township MUA	0818004-010	\$1,828,000	Replace well #8, pump house replace @ well #2,
378	Washington Township MUA	0818004-011	\$4,628,000	Storage Tank painting (interior & exterior)
381	Marlboro Township	1328002-003	\$1,800,000	Beacon Hill storage tank Rehab
389	Oakland Borough	0220001-004	\$115,000	Rehab of Iroquois Pumping Station
408	Manasquan Borough	1327001-001	\$2,429,000	Green Infrastructure Project-Advances Metering System

411	Jackson Township MUA	1511001-011	\$1,407,000	Improvements to Manhattan St Complex, Garage & Admin Bldg.
413	Manchester Utilities Authority	1603001-014	\$174,000	Relocate water meters to reduce non-revenue water due to peaks.
424	Washington Township MUA	0818004-012	\$115,000	Improvements to the billing building. Security at well houses
426	Marlboro Township	1328002-501	\$1,523,000	portable genertor @ Harbor Rd & Tennent Rd WTP
432	Oakland Borough	0220001-003	\$153,000	diesel generator for well #9
437	Clementon Borough	0411001-002	\$1,295,000	Rehab of well #9 including slip lining to improve conveyance
439	Hampton Borough	1013001-001	\$1,371,000	New back up well #5 to address firm capacity requirements
449	Winslow Township	0436007-009	\$3,597,000	Eden Hollow & Arbor Meadows water service replacement & upgrades
476	Hightstown Borough	1104001-007	\$375,000	Rehabilitation of Deep Well #2
481	Lake Glenwood Village	1922010-005	\$168,000	New well #8 for upper system
490	Oakland Borough	0220001-002	\$2,632,000	Replace 4600 water meters
500	Marlboro Township	1328002-004	\$1,142,000	New standby well 5A (Tennent Rd Trtment Plant & Booster PS)
501	Marlboro Township	1328002-005	\$762,000	Reconstruction of well #4 @ the Harbor Rd WTP
504	Oakland Borough	0220001-001	\$153,000	Construct new well 10A as backup for well #10
527	Franklin Township	0805388-001	\$160,000	WTP & Water Storage Tank for fire protection @ Meredith Fams
	<b>76 Projects</b>		<b>\$243,313,000</b>	
<b>Small Systems Loan Program</b> (Included in above Base Program)				
<b>&lt;500 Population Served</b>				
8	Lake Glenwood Village	1922010-008	\$739,000	Brand new water source for water system for 70 homes
68	Lake Glenwood Village	1922010-007	\$686,000	Central WTP to treat & rehab wells



81	Jefferson Township	1414009-001	\$1,809,000	Mountain Shores WC connection
280	Lake Glenwood Village	1922010-006	\$1,568,000	Replace undersized mains, improper cover & water loss control
286	Downe Township	0604999-001	\$4,288,000	Upgrade wastewater mgt system for Money Island & Gandy's Beach.
481	Lake Glenwood Village	1922010-005	\$168,000	Well #8 Construction & Interconnection
527	Franklin Township	0805388-001	\$160,000	New water treatment plant at Meredith farms
	<b>7 Projects</b>		<b>\$9,418,000</b>	
<b>501 to 3,300 Population Served</b>				
57	Mountain Shores POA	1414009-001	\$1,400,000	Install/Replace water mains to connect to Jefferson Twp
94	Netcong Borough	1428001-007	\$3,554,000	Remove/repair 1MMG reservoir, replace mains (rte 46 & rte 80)
121	Netcong Borough	1428001-008	\$568,000	Rehabilitate existing storage facilities
159	Netcong Borough	1428001-009	\$267,000	Install automatic meter reading system
278	Ocean Gate Borough	1521001-001	\$1,034,000	Replacement of approximately 2,950 LF of water mains.
337	Pennington Borough	1108001-001	\$1,135,000	Upper King George Rd & Park Ave replace & upgrade water system
439	Hampton Borough	1013001-001	\$1,371,000	New back up well #5 to address firm capacity requirements
	<b>7 Projects</b>		<b>\$9,329,000</b>	
<b>3,301 to 10,000 Population Served</b>				
78	Berkeley Township MUA	1505004-008	\$3,286,000	Phase VI Water Main Installation
99	Little Egg Harbor MUA	1516001-004	\$1,520,000	Twin Lakes Water Main Replacment

100	Paulsboro Borough	0814001-003	\$1,295,000	Water Main Repalce (Thomson, Wood, Elizabeth,Commerce St)
174	Hightstown Borough	1104001-008	\$156,000	Rehabilitation of settling tanks
220	Clementon Borough	0411001-001	\$457,000	Gibbsboro Water Main Rehab (White Horse Pk & Wht Horse Rd.)
261	Milltown Borough	1214001-004	\$1,610,000	Phase II of overall plan to correct water distribution system
273	Hightstown Borough	1104001-006	\$1,875,000	Water Main Rehab (Stockton St, and Dutch Neck / Harron Ave. intersect)
437	Clementon Borough	0411001-002	\$1,295,000	Rehab of well #9 including slip lining to improve conveyance
476	Hightstown Borough	1104001-007	\$375,000	Rehabilitation of Deep Well #3
	<b>9 Projects</b>		<b>\$11,869,000</b>	

**Appendix C**  
**Drinking Water**  
**SFY2016 Superstorm Sandy NJEIPF Project Priority List**  
**Ranked Order**

Rank	Project Sponsor	Project No.	Est. Proj. Cost	Project Name
1	Middlesex WC	1225001-506	\$8,592,000	New elevated storage tank to replace tank & PS @ Eborn
2	Long Beach Township	1517001-502	\$2,808,000	Raise Well #4, reconstruct filter room & pumps
3	Newark City	0714001-500	\$1,523,000	Generators @ Wayne & Clifton PS, provide wtr to Cedar Grove Res.
4	East Orange Water Commission	0705001-500	\$4,596,000	Install generators -White Oak Rd
5	North Jersey District WS	1613001-037/507	\$244,000	Install of backup generator feed
6	Marlboro Township	1328002-501	\$1,523,000	Portable generator @ Harbor Rd & Tennent Rd WTP
7	North Jersey District WS	1613001-031/501	\$3,560,000	Design/Build to install centrifuge within RTF
8	North Jersey District WS	1613001-032/502	\$3,554,000	Water Treatment Facility Improvements (new equip, dam #4 bar racks, filter media)
9	North Jersey District WS	1613001-035/505	\$1,523,000	Design/Build, Rehab of PS, Repair Balancing Reservoir
10	North Jersey District WS	1613001-036/506	\$4,025,000	Lower Gate House Improv., Replace Wanaque Flow Control Valve, Rebuild motors
11	North Jersey District WS	1613001-033/503	\$3,785,000	Orechio Dr complex updates to Security Infra., @ Treatment Facilities
12	North Jersey District WS	1613001-034/504	\$1,447,000	Building Improvements @ 3 facilities, Guardian Blue, Genius Moduls
	Projects = 12		\$37,180,000	
<b>Auxiliary Power Set Aside - \$10 Million (included above)</b>				
2	Long Beach Township	1517001-502		Raise Well #4, reconstruct filter room & pumps

6	Marlboro Township	1328002-501		portable generator @ Harbor Rd & Tennent Rd WTP
4	East Orange Water Commission	0705001-500		Install generators -White Oak Rd
3	Newark City	0714001-500		Generators @ Wayne & Clifton PS, provide wtr to Cedar Grove Res.
5	North Jersey District WS	1613001-037/507		Install of backup generator feed
	Projects = 5			

Appendix D  
Construction Loan Program Clean Water Eligibility List

Rank	Project Sponsor	Project No.	Project Type	Amount
588	Aberdeen Township	340869-02	Collection System	\$8,413,108
148	Allamuchy Township	340256-02	STP Improvements	\$3,997,392
812	Allendale Borough	343067-01	Land Acquisition	\$6,863,603
437	Allentown Borough	340567-04	I/I Correction	\$570,013
469	Alloway Township/Quinton Township	340965-01	Collection System	\$9,963,124
430	Alpha Borough	340324-01	Sewer Rehabilitation	\$639,645
449	Asbury Park City	340883-01	Sludge Management	\$746,386
209	Asbury Park City	340883-05	Sanitary Sewer Improvements	\$14,618,546
209	Asbury Park City	340883-06	Sewer Improvements	\$17,350,281
548	Asbury Park City	340883-07	Storm Water Improvements	\$708,917
542	Atlantic City	340439-01	Stormwater Management	\$18,830,939
542	Atlantic City	340439-02	Riverside Stormwater	\$8,859,157
542	Atlantic City	340439-03	Atlantis Avenue Flood Gate	\$2,488,662
638	Atlantic County	340156-01	Vehicle Wash Facility	\$1,141,988
459	Atlantic County UA	340405-04	Sludge Management	\$19,607,239

96	Atlantic County UA	340809-08	STP Improvements	\$1,640,997
120	Atlantic County UA	340809-09	STP Improvements	\$2,718,518
478	Atlantic County UA	340809-11	Water Reclamation	\$7,602,671
477	Atlantic County UA	340809-14	Water Reclamation-Smithville	\$4,679,566
639	Atlantic County UA	340809-19	Compost Cover	\$1,522,661
639	Atlantic County UA	340809-20	Stormwater Receiving Station	\$570,013
200	Atlantic County UA	340809-21	Force Main Replacement	\$8,492,702
200	Atlantic County UA	340809-22	Solar Pump Station Network	\$15,439,092
61	Atlantic County UA	340809-23	Treatment Plant Resiliency	\$8,610,164
261	Atlantic County UA	340809-24	PS Resiliency	\$998,209
61	Atlantic County UA	340809-25	Seawall	\$13,641,136
61	Atlantic County UA	340809-26	STP Mitigation Projects	\$13,442,855
61	Atlantic County UA	340809-27	Automated Bar SCreeens	\$3,094,238
456	Atlantic County UA	340809-28	Sewer Sludge IncineRation	\$2,049,114
261	Atlantic County UA	340809-29	Brigantine Force Main	\$2,718,518
769	Atlantic County UA	342001-02	Landfill Cap	\$5,962,475
382	Audubon Borough	340309-01	InfiltRation/Inflow	\$1,094,976
243	Avalon Borough	340864-01	I/I Correction	\$1,530,125

746	Avalon Borough	340864-02	Back Bay Dredging	\$3,217,620
741	Avon By The Sea Borough	340335-02	Stormwater Management	\$360,245
431	Avon-By-The-Sea Borough	340335-01	Sewer Rehabilitation	\$3,973,856
228	Barnegat Township	340620-06	Pump Station Rehabilitation	\$535,216
228	Barnegat Township	340620-07	Pump Station Resiliency	\$570,013
176	Barnegat Township	344130-01	Stormwater/NPS	\$570,013
395	Barrington Borough	340305-02	Sewer Rehabilitation	\$1,396,910
441	Bay Head Borough	340590-02	I/I Correction	\$2,230,279
199	Bay Head Borough	344120-01	Stormwater/NPS	\$250,886
165	Bay Head Borough	344120-02	Stormwater/NPS	\$289,789
755	Bayonne Local Redevelopment	342009-01	Landfill Closure	\$3,941,003
829	Bayonne LRA	340051-05	Remediation/Stormwater	\$2,451,173
829	Bayonne LRA	340051-06	Remediation/Stormwater	\$3,471,822
829	Bayonne LRA	340051-07	Remediation/Stormwater	\$7,111,175
48	Bayonne MUA	340399-26	CSO Abatement	\$5,439,141
48	Bayonne MUA	340399-27	Pump Station Improvements	\$3,997,392
59	Bayshore RSA	340697-05	RestoRation & Flood Mitigation	\$58,072,111
59	Bayshore RSA	340697-06	RestoRation & Flood Mitigation	\$7,916,433

683	Beachwood Borough	340208-01	Stormwater Controls	\$416,419
192	Beachwood Borough	340208-02	Stormwater Outfall Relocation	\$708,917
194	Beachwood Borough	344010-01	Stormwater/NPS	\$980,378
192	Beachwood Borough	344010-02	Stormwater Outfall Relocation	\$708,917
600	Bedminster Township	340830-01	STP Purchase	\$44,376,955
864	Belleville Township	340243-01	Site Remediation	\$7,478,656
763	Bellmawr Borough	342011-02	Landfill Closure	\$66,350,624
713	Belmar Borough	340209-02	Stormwater Controls	\$574,201
713	Belmar Borough	340209-03	Lake Como Stormwater Controls	\$94,425
132	Bergen County UA	340386-09	Infiltration/Inflow - CSO/Sso	\$31,783,125
166	Bergen County UA	340386-10	STP-Edgewater	\$5,962,475
132	Bergen County UA	340386-11	STP-Little Ferry	\$15,439,092
132	Bergen County UA	340386-12	Edgewater Outfall Extension	\$13,000,360
166	Bergen County UA	340386-13	Edgewater Force Main	\$31,660,502
132	Bergen County UA	340386-14	Little Ferry Plant Improvements	\$54,172,587
132	Bergen County UA	340386-15	Power Supply	\$42,094,280
132	Bergen County UA	340386-16	Little Ferry Storm Repairs	\$19,537,263
127	Bergen County UA	340386-17	Cogeneration	\$8,621,779



132	Bergen County UA	340386-18	Pump Station Resiliency	\$2,491,339
453	Bergen County UA	340687-05	Sludge Management	\$37,834,533
260	Bergen County UA	340768-02	I/I Correction	\$15,673,755
325	Bergen County UA (Triboro)	340769-02	I/I Correction	\$1,584,586
321	Bergenfield Borough	340378-02	Sewer Rehabilitation	\$2,618,381
678	Berkeley Heights Township	340385-03	Stormwater Management	\$500,308
26	Berkeley Heights Township	340385-05	STP Upgrade	\$1,973,289
308	Berkeley Township	340969-01	I/I Correction	\$2,718,518
653	Berkeley Township	340969-10	Stormwater/Equipment	\$773,430
653	Berkeley Township	340969-11	Stormwater Management	\$395,962
653	Berkeley Township	340969-12	Stormwater/Equipment	\$908,797
173	Berkeley Township	344020-01	Stormwater/NPS	\$2,091,098
570	Berkeley Township SA	340969-08	Collection System	\$6,137,256
570	Berkeley Township SA	340969-09	Collection System	\$4,202,120
306	Berkeley Township SA	340969-13	Pelican Island Sewer Repair	\$3,032,199
715	Berlin Borough	340308-01	Stormwater Management	\$708,917
715	Berlin Borough	340308-02	Equipment Purchase	\$722,804
512	Berlin Township	340790-02	Collection System	\$847,274

717	Berlin Township	340790-03	Stormwater Management	\$1,317,721
545	Bernards Township	340382-04	NPS Management	\$1,928,489
495	Bernards Township SA	340382-02	Collection System	\$542,184
355	Bernards Township SA	340382-03	I/I Correction	\$482,182
396	Bernardsville Borough	340816-03	I/I Correction	\$1,135,113
601	Bernardsville Borough	340816-04	Sewer Rehabilitation	\$646,588
731	Bethlehem Township	340210-01	Storage Building	\$110,655
731	Bethlehem Township	340210-02	Vehicle Wash Facility	\$402,413
514	Blairstown Twp	340568-02	Collection System	\$1,512,694
503	Bloomington Borough	340634-03	Collection System	\$3,790,064
390	Bogota Borough	340914-01	Sewer Rehabilitation	\$3,094,238
703	Bogota Borough	340914-02	Stormwater Management	\$430,399
703	Bogota Borough	340914-03	River Rd Stormwater Pump	\$6,614,815
702	Boonton Town	340265-01	Stormwater/NPS Management	\$360,245
808	Bordentown Township	343036-01	Land Acquisition	\$13,550,697
528	Branchville Borough	340740-02	Collection System	\$2,584,971
761	Brick Township	342018-01	Landfill Closure	\$14,226,449
776	Brick Township	343010-02	Land Acquisition	\$4,345,207
172	Brick Township	344030-01	Stormwater/NPS	\$47,512

280	Brick Township MUA	340448-09	Pump Stations Rehabilitation	\$2,691,295
280	Brick Township MUA	340448-10	Pump Station Resiliency	\$3,032,199
322	Bridgeton City	340829-01	I/I Correction	\$1,387,415
322	Bridgeton City	340829-02	Sewer Rehabilitation	\$1,387,415
322	Bridgeton City	340829-03	Emergency Power	\$456,326
471	Bridgewater Township	340638-03	Collection System	\$2,273,143
569	Bridgewater Township	340638-05	Stormwater Management	\$788,517
381	Brigantine City	340827-04	Emergency Generators	\$3,014,413
694	Brigantine City	340827-05	Flood Control	\$4,420,173
694	Brigantine City	340827-06	Stormwater Improvements	\$873,263
694	Brigantine City	340827-07	Floodwalls	\$999,476
801	Brigantine City	343042-01	Land Acquisition	\$6,614,815
155	Buena Borough MUA	340518-04	Pump Station, Force Main	\$2,049,114
610	Buena Borough MUA	340518-05	Effluent Disposal Facility	\$5,232,801
535	Buena Borough MUA	340833-01	Collection System, STP	\$721,335
635	Burlington County	340818-07	Stormwater	\$2,183,362
455	Burlington County Board Of	340818-04	Sludge Management	\$7,846,596
636	Burlington County Bridge Comm.	340818-05	Stormwater Management	\$5,962,475

341	Burlington Township	340712-13	Emergency GeneRators	\$639,645
330	Burlington Township	340712-14	Sewer Rehabilitation	\$1,259,960
794	Burlington Township	343060-01	Land Acquisition	\$610,884
699	Byram Township	340569-03	Equipment (Weed Harvester)	\$218,940
699	Byram Township	340569-04	Vehicle Wash Facility	\$186,919
809	Byram Township	343047-01	Land Acquisition	\$1,915,067
747	Califon Borough	340431-01	Stormwater Improvements	\$1,584,586
448	Camden City	340366-02	Sludge Management	\$667,397
17	Camden City	340366-03	PS Rehabilitation	\$10,361,096
754	Camden City	340366-05	Well Sealing	\$6,614,815
17	Camden City	340366-06	CSO Abatement	\$58,648,610
17	Camden City	340366-07	Sewer Rehabilitation	\$6,614,815
17	Camden City	340366-09	Pump Stations Rehabilitation	\$10,361,096
17	Camden City	340366-10	CSO Relocation	\$708,917
540	Camden City	340366-11	Stormwater Controls	\$2,049,114
631	Camden County Board Of Freeholders	340525-01	Stormwater/NPS Management	\$792,068
631	Camden County Department Of Parks	340525-02	Stormwater/NPS Management	\$1,693,221
631	Camden County Department Of Parks	340525-03	Stormwater/NPS Management	\$781,693

47	Camden County MUA	340640-13	Delaware #1 Pump Upgrades	\$5,308,104
2	Camden County MUA	340640-14	Green Infrastructure/CSO	\$6,000,000
2	Camden County MUA	340640-15	Green Infrastructure /CSO	\$6,614,815
12	Camden County MUA	340640-16	STP Improvements	\$13,000,360
1	Camden County MUA	340640-17	Green & Gray Infrastructure	\$6,614,815
23	Camden County MUA	340640-18	Delaware No.1 STP Improvements	\$50,664,200
259	Camden County MUA	340709-02	I/I Correction	\$15,673,755
828	Camden Redevelopment Agency	340044-01	Site Remediation	\$172,309,962
837	Camden Redevelopment Agency	340044-02	Site Remediation	\$45,383,793
837	Camden Redevelopment Agency	340044-03	Site Remediation	\$13,000,360
602	Cape May City	340258-01	Desalination ConcentRate	\$360,245
821	Cape May City	343045-01	Land Acquisition	\$5,308,104
461	Cape May County MUA	340661-06	Sludge Management	\$12,302,395
479	Cape May County MUA	340661-07	Beneficial Reuse	\$2,305,676
461	Cape May County MUA	340661-09	Odor Controls	\$384,168
269	Cape May County MUA	340661-22	Concrete Wet Well Repairs	\$3,997,392

753	Cape May County MUA	342017-01	Landfill Gas SCrubbers	\$954,929
849	Cape May County MUA	342017-02	Landfill Power GeneRation	\$6,354,123
849	Cape May County MUA	342017-04	Landfill Cell	\$5,617,822
508	Carlstadt SA	340705-03	New Interceptor	\$5,342,181
393	Carneys Point Township	340502-07	Pump Stations Rehab	\$604,874
340	Carteret Borough	340939-01	I/I Correction	\$7,234,505
585	Carteret Borough	340939-04	New Sewer Service	\$2,250,375
329	Carteret Borough	340939-06	PS Rehab	\$6,093,106
843	Carteret Borough	340939-07	Marina Dredging	\$23,882,313
669	Carteret Borough	340939-08	Milik St. Drainage Improvements	\$1,396,910
669	Carteret Borough	340939-09	Noe St. Stormwater PS	\$4,653,327
364	Cedar Grove Township	340717-05	I/I Correction	\$374,327
502	Chatham Township	340403-05	Septage Treatment/Disposal	\$708,917
806	Chatham Township	343016-01	Land Acquisition	\$2,718,518
577	Cherry Hill Township	340954-01	Collection System, Rehabilitation	\$1,276,427
615	Chester Borough	340876-02	STP, Collection System	\$1,191,434
141	Cinnaminson SA	340170-07	STP Improvements	\$5,356,597
620	Cinnaminson Township	340170-05	Salt Dome	\$647,074
533	Clayton Borough(Silver Lake)	340918-01	Collection System	\$1,162,637

75	Cliffside Park Borough	340847-04	CSO SepaRation	\$2,718,518
584	Cliffside Park Borough	340847-05	Sewer Rehabilitation	\$2,718,518
278	Clifton City	340844-01	I/I Correction	\$430,399
561	Clifton City	340844-03	Bonsal Preserve Sewer	\$4,391,306
642	Clifton City	340844-04	Equipment & Storage Building	\$2,337,382
278	Clifton City	340844-05	Sewer Rehabilitation	\$3,340,073
147	Clinton Town	340924-05	STP Electrical Resiliency	\$1,559,892
361	Clinton Town	340924-06	I/I Correction	\$1,259,960
799	Clinton Township	343012-01	Land Acquisition	\$12,493,116
616	Commercial Township	340955-01	Collection System, STP	\$9,207,328
556	Cranbury Township	340506-02	Collection System	\$3,603,428
624	Cranford Township	340858-04	Stormwater Management	\$11,795,031
625	Cranford Township	340858-05	Stormwater Management	\$190,491
245	Cranford Township	340858-06	Sewer Rehab	\$1,005,872
709	Cresskill Borough	340374-01	Stormwater/NPS Management	\$444,422
846	Cumberland County IA	342015-01	Landfill Leachate Controls	\$25,607,620
846	Cumberland County IA	342015-02	Hazardous Waste Facility	\$2,049,114
97	Cumberland County UA	340550-07	STP	\$1,054,062

215	Cumberland County UA	340550-08	Pump Station Replacement	\$1,122,734
438	Deal Borough	340412-08	I/I Correction	\$1,259,960
423	Delanco Township SA	340956-02	Sewer Rehabilitation	\$1,854,849
105	Delaware Township MUA	340917-01	STP Improvements	\$3,866,213
418	Delaware Township MUA	340917-02	I/I Correction	\$430,399
618	Delran SA	340794-06	Storage Facility	\$1,220,236
106	Delran Township	340794-08	STP SAnd Filter	\$1,874,782
231	Delran Township	340794-09	Fifth Street Pump Station	\$750,544
581	Deptford Township MUA	340066-01	Pump Station	\$1,677,717
358	Dover Town	340889-01	I/I Correction	\$935,648
557	Downe Township	340438-01	New System	\$7,846,596
629	Downe Township	340438-02	Stormwater Management	\$16,395,206
349	Dumont Borough	340922-01	Sewer Rehabilitation	\$3,625,787
676	Dumont Borough	340922-05	Stormwater Improvements	\$4,784,482
397	Dunellen Borough	340916-01	Sewer Rehabilitation	\$7,234,505
853	East Amwell	340037-01	Site Remediation	\$639,645
820	East Amwell Township	343062-01	Land Acquisition	\$500,588
302	East Brunswick SA	340168-01	Sewer System Rehabilitation	\$1,847,907
607	East Greenwich Township	340368-01	Collection System	\$660,187



607	East Greenwich Township	340368-02	Regional Pump Station	\$2,781,719
122	East Windsor MUA	340536-08	Photovoltaic	\$12,293,391
818	Eastampton Township	343026-01	Land Acquisition	\$3,997,392
336	Edgewater Borough	340443-05	I/I Correction	\$3,091,877
587	Edgewater Borough	340446-06	Collection System	\$2,207,442
722	Edgewater Borough	340446-07	Stormwater Management	\$2,718,518
104	Edgewater MUA	340446-09	STP Outfall/Improvements	\$2,451,173
701	Edgewater Park Township	340166-01	Stormwater Management	\$2,049,114
810	Edgewater Park Township	343038-01	Land Acquisition	\$147,540
773	Edison Township	342020-01	Landfill Closure	\$11,714,265
774	Edison Township	343027-02	Land Acquisition	\$55,475,227
727	Egg Harbor Township	340856-01	Stormwater Management	\$2,643,901
303	Egg Harbor Township MUA	340753-03	Sewer Rehabilitation	\$916,350
303	Egg Harbor Township MUA	340753-04	Washington Avenue Interceptor	\$1,322,416
568	Egg Harbor Township MUA	340753-05	Farmington East Collection	\$903,161
303	Egg Harbor Township MUA	340753-06	Faa Pump Station	\$620,184
834	Elizabeth City	340942-06	Site Remediation	\$3,340,073
834	Elizabeth City	340942-10	Site Remediation	\$9,911,578

41	Elizabeth City	340942-13	Western Interceptor	\$12,357,700
41	Elizabeth City	340942-15	North Avenue CSO	\$1,522,661
41	Elizabeth City	340942-16	Elizabeth River Flood Control	\$13,000,360
41	Elizabeth City	340942-17	South Street Flood Control	\$5,308,104
41	Elizabeth City	340942-18	Progress Street Flood Control	\$4,423,429
41	Elizabeth City	340942-19	Trumbull Street Flood Control	\$3,688,239
347	Elmwood Park Borough	340863-01	I/I Correction	\$985,189
719	Englewood Cliffs Borough	340169-01	Stormwater	\$430,399
168	Essex Union Joint Meeting	340686-07	Jmeuc STP	\$14,628,107
150	Essex Union Joint Meeting	340686-04	STP Improvements	\$11,199,679
454	Essex-Union Joint Meeting	340686-03	Sludge Treatment & Disposal	\$19,257,315
826	Estell Manor City	342002-01	Landfill Closure	\$1,572,251
520	Evesham MUA	340838-01	Alternative Wastewater System	\$3,665,234
102	Evesham MUA (Woodstream)	340463-05	STP, Interceptor	\$7,132,162
789	Evesham Township	342003-01	Landfill Closure	\$3,055,927
784	Evesham Township	343023-02	Land Acquisition	\$616,010
285	Ewing Lawrence SA	340391-06	I/I Correction	\$2,718,518

129	Ewing Lawrence SA	340391-11	STP Improvements	\$5,635,544
662	Ewing Township	340397-01	Stormwater/NPS Management	\$465,419
662	Ewing Township	340397-03	Stormwater Management	\$185,346
507	Fairfield Township	340957-01	Collection System	\$7,336,023
815	Fairfield Township	342004-01	Landfill Closure	\$1,645,877
376	Fairview Borough	340517-01	I/I Correction	\$1,522,661
416	Flemington Borough	340440-04	I/I Correction	\$1,645,877
370	Florham Park Borough	340703-05	I/I Correction	\$1,396,910
807	Florham Park Borough	343001-01	Land Acquisition	\$9,782,685
312	Fort Lee Borough	340853-01	I/I Correction	\$682,636
513	Frankford Twp	340742-02	Collection System	\$2,727,380
410	Franklin Borough	340129-01	Pump Station Improvements	\$2,718,518
783	Franklin Township	343017-01	Land Acquisition	\$21,625,688
592	Franklin Township (Gloucester Co.)	340839-03	Collection System	\$1,645,877
295	Franklin Township SA	340839-04	Equipment Purchase	\$985,189
295	Franklin Township SA	340839-05	Pump Station Rehabilitations	\$2,049,114
234	Freehold Borough	340304-02	Sewer Rehabilitation	\$430,399
486	Freehold Township	340304-01	Collection System	\$4,886,714

792	Freehold Township	343018-01	Land Acquisition	\$2,718,518
483	Galloway Township	340892-02	Collection System	\$5,700,971
658	Galloway Township	340892-07	Patriot Lake Improvements	\$714,452
576	Galloway Township	340892-09	Moss Mill Pump Station	\$951,143
314	Garfield City	340172-01	Sewer Rehabilitation	\$3,997,392
591	Glassboro Borough	340545-04	Collection System	\$3,968,099
392	Glen Ridge Borough	340861-02	Sewer Rehabilitation	\$684,574
131	Gloucester City	340958-06	Water Street CSO	\$566,906
552	Gloucester City	340958-07	Freedom Pier Sewer Extension	\$112,292
125	Gloucester Co UA (Gibbstown)	340526-06	STP Upgrade, Sludge Management	\$2,294,564
487	Gloucester Co UA (Monroe)	340526-03	Collection System, Sludge	\$2,911,180
767	Gloucester County IA	342016-01	Leachate Lift Station Rehab	\$1,388,163
845	Gloucester County IA	342016-02	Landfill Expansion	\$5,962,475
768	Gloucester County IA	343074-01	Land Aquisition	\$2,049,114
559	Gloucester County UA	340902-01	Sludge Management	\$4,945,666
265	Gloucester County UA	340902-08	PS Electrical Service	\$1,753,729
226	Gloucester County UA	340902-12	Porches Branch	\$67,013
452	Gloucester County UA	340902-13	Incinerator #2 Upgrade	\$13,982,306
149	Gloucester County UA	340902-14	STP Improvements	\$37,750,220

496	Gloucester County UA (Franklin Twp)	340461-04	Interceptor, Pump Station, Force	\$7,211,095
646	Gloucester Township	340364-11	Flood Mitigation	\$1,470,871
646	Gloucester Township	340364-12	Stormwater Management	\$1,982,136
646	Gloucester Township	340364-14	Stormwater Improvements	\$1,400,973
779	Gloucester Township	343014-01	Land Acquisition	\$1,328,374
158	Gloucester Township MUA	340364-09	Solar Array	\$864,565
286	Gloucester Township MUA	340364-13	Sewer Rehabilitation	\$1,122,734
614	Greenwich Township	340359-01	STP, Collection System	\$11,199,679
54	Guttenberg Town	340854-02	CSO Abatement	\$402,413
861	Hackensack City	340923-09	Site Remediation, Stormwater	\$9,589,269
100	Hackensack City	340923-10	CSO Abatement	\$3,736,731
787	Hackensack City	343024-01	Land Acquisition	\$735,292
594	Hackettstown MUA	340803-03	Sewage Treatment & Disposal	\$641,034
212	Hackettstown MUA	340803-04	Treatment Plant Abandonment	\$1,411,500
389	Haddon Heights Borough	340877-01	I/I Correction	\$1,364,098
367	Haddonfield Borough	340220-01	Sewer Rehabilitation	\$2,517,530
736	Hamburg Borough	340149-02	Stormwater Management	\$570,013

91	Hamilton Township	340898-01	STP Improvements	\$10,686,034
270	Hamilton Township	340898-02	Sewer Rehabilitation	\$13,012,687
270	Hamilton Township	340898-04	Hamilton Ave. Sewer Rehab	\$6,739,361
270	Hamilton Township	340898-05	Newkirk/Wert Sewer Rehab	\$3,032,199
775	Hamilton Township	343051-02	Land Acquisition	\$1,709,268
583	Hamilton Township MUA	340903-02	Collection System	\$2,774,147
320	Hamilton Township MUA	340903-05	Sewer Rehabilitation	\$1,097,006
475	Hammonton Town	340927-03	Collection System	\$4,983,647
626	Hammonton Town	340927-04	Equipment Purchase	\$247,348
356	Hammonton Town	340927-06	Sewer SCada	\$325,117
171	Hammonton Town	340927-07	Boyer Ave Drip Irrigation	\$3,866,213
356	Hammonton Town	340927-08	Sewer Rehabilitation	\$2,220,550
677	Hammonton Town	340927-09	Stormwater Infrastructure	\$1,773,508
130	Hanover SA	340388-06	Fuel Supply	\$2,008,938
800	Hanover Township	343003-01	Land Acquisition	\$11,714,265
841	Harrison Town/Hudson County IA	340341-05	Site Remediation	\$31,783,125
414	Harrison Township	340362-01	System Rehabilitation	\$3,125,171
383	Harrison Township	340362-04	Sewer Rehabilitation	\$2,054,490

124	Harrison Township	340362-05	Solar Panels & Storage Facility	\$1,114,504
599	Harrison Township	340362-06	Richwood Water Reclamation	\$21,330,927
367	Hasbrouck Heights Borough	340329-01	Sewer Rehabilitation	\$14,226,449
682	Hasbrouck Heights Borough	340329-02	Stormwater Management	\$6,614,815
336	Hazlet Township	340968-01	I/I Correction	\$916,350
672	Hazlet Township	340968-02	Stormwater/NPS Management	\$416,419
672	Hazlet Township	340968-03	Stormwater Management	\$140,163
420	High Bridge Borough	340842-01	I/I Correction	\$243,967
733	High Bridge Borough	340842-02	Stormwater/NPS Management	\$162,326
733	High Bridge Borough	340842-03	Dam Removal	\$6,863,603
822	High Bridge Borough	343072-02	Land Acquisition	\$5,570,096
362	Highland Park Borough	340938-01	I/I Correction	\$4,315,232
679	Highland Park Borough	340938-02	Stormwater Management	\$479,390
409	Highlands Borough	340901-01	I/I Correction	\$877,696
411	Highlands Borough	340901-02	I/I Correction	\$147,540
720	Highlands Borough	340901-03	Stormwater/NPS Management	\$4,299,487

720	Highlands Borough	340901-04	Stormwater Management	\$781,697
238	Hightstown Borough	340915-04	Rocky Brook Sewer Rehab	\$403,745
178	Hightstown Borough	340915-05	Uv Disinfection	\$1,369,569
178	Hightstown Borough	340915-06	Anaerobic Digester	\$1,441,211
623	Hightstown Borough	340915-07	Headwalls Replacement	\$479,390
575	Hillsborough Township	340099-02	Sewer Extension	\$1,536,339
338	Hillside Township	340906-03	I/I Correction & Sewer Pump	\$1,110,388
674	Hillside Township	340906-04	Stormwater Management	\$748,257
541	Hoboken City	340635-03	Stormwater Management	\$73,770
69	Hoboken City	340635-04	Wet Weather Pump Station	\$15,227,977
69	Hoboken City	340635-05	Southwest Park	\$4,260,119
69	Hoboken City	340635-06	Basf Park	\$91,281,534
756	Hoboken City	343078-01	Land Acquisition	\$4,922,087
595	Holmdel Township	340919-02	Collection System, Interceptor	\$40,665,789
353	Holmdel Township	340919-03	Equipment Purchase	\$316,480
27	Hopatcong Borough	340488-05	Collection System	\$17,222,998
619	Hopatcong Borough	340488-06	Stormwater Management	\$570,013



522	Hope Township	340872-01	Interceptor Sewers	\$508,696
574	Hopewell Township	340282-01	Interceptor Sewers	\$23,940,222
603	Hopewell Township	340282-02	Collection System	\$3,475,917
786	Howell Township	343011-01	Land Acquisition	\$2,049,114
164	Howell Twp MUA	340832-01	Collection System, Interceptor	\$5,877,522
762	Hudson County IA	340094-01	Nonpoint Source Mangement	\$6,614,815
457	Hudson County UA	340399-15	Sludge Treatment & Disposal	\$20,024,455
458	Hudson County UA (Area I)	340900-01	Collection System	\$26,962,839
65	Hudson County UA (Hoboken)	340399-09	CSO Abatement	\$14,038,507
439	Island Heights Borough	340176-01	Pump Station Rehab	\$392,454
439	Island Heights Borough	340176-02	Pump Station No. 2 Rehab	\$102,348
291	Jackson Township	340953-04	Equipment Purchase	\$852,000
189	Jackson Township	344050-02	Equipment Purchase	\$998,980
291	Jackson Township MUA	340953-02	Brookwood Iii Sewer Repalcement	\$2,049,114
398	Jamesburg Borough	340224-01	Sewer Rehabilitation	\$1,117,248
78	Jefferson Township	340747-02	Pump Station, Force Main,	\$1,952,637
56	Jefferson Township	340747-05	Collection System/Individual	\$19,158,252

163	Jefferson Township (Rockaway)	340747-04	Collection System	\$6,526,216
752	Jersey City	343069-01	Land Acquisition	\$13,000,360
38	Jersey City MUA	340928-03	CSO Abatement	\$47,046,859
38	Jersey City MUA	340928-04	CSO Abatement	\$2,437,780
38	Jersey City MUA	340928-07	CSO Abatement	\$3,345,345
29	Jersey City MUA	340928-11	Brown Place Sewer Improvement	\$5,962,475
29	Jersey City MUA	340928-13	Duncan St. Outfall Replacement	\$9,771,083
29	Jersey City MUA	340928-14	Grand St Sewer Repair	\$2,290,548
29	Jersey City MUA	340928-15	Sewer Improvements	\$38,467,004
29	Jersey City MUA	340928-16	Sixth Street CSO Extension	\$8,987,500
29	Jersey City MUA	340928-17	Regulator Outfall Repair	\$1,396,910
29	Jersey City MUA	340928-18	Claremont Carteret Outfall	\$5,308,104
29	Jersey City MUA	340928-19	East Side Plant	\$6,614,815
29	Jersey City MUA	340928-20	Outfall Chambers	\$40,602,842
126	Jersey City MUA	340928-21	Phase 5 Sewer Rehabilitation	\$6,832,571
467	Jersey City RA	340119-01	Stormwater/NPS Management	\$3,000,793
693	Keansburg Borough	340118-03	Pump Station Improvements	\$1,847,907

378	Keansburg Borough	340118-04	Sewer Repairs	\$4,653,327
378	Keansburg Borough	340118-05	Sewer Repairs	\$6,614,815
50	Kearny MUA	340259-06	Pump Station, Force Main	\$5,308,104
206	Kearny MUA	340259-07	Pump Station Rehabilitation	\$8,918,476
170	Kearny MUA	340259-08	Photovoltaic System	\$708,917
50	Kearny Town	340259-10	Pump Station Rehab	\$3,558,698
50	Kearny Town	340259-11	Dukes St. Pump Station	\$8,518,521
832	Kearny Town	340259-12	Gunnel Oval Remediation	\$961,810
832	Kearny Town	340259-13	Kearny Point	\$107,557,474
708	Keyport Borough	340267-01	Stormwater/NPS Management	\$360,245
521	Kinnelon Borough	340487-02	Collection System	\$9,964,412
181	Lacey Township	344140-01	Stormwater/NPS	\$325,652
180	Lakehurst Borough	344150-01	Stormwater/NPS	\$515,681
274	Lakewood Township MUA	340465-01	Sewage Lift Stations	\$708,917
190	Landis SA	340461-05	STP Influent PS, Grit Chamber	\$3,603,428
433	Lavalette Borough	340966-02	I/I Correction	\$430,399
432	Lavalette Borough	340966-03	Sewer Rehabilitation	\$2,526,305
738	Lavalette Borough	340966-04	Stormwater Management	\$405,216

737	Lawnside Borough	340263-01	Stormwater Management	\$193,346
852	Lawrence Township	340395-02	Site Remediation	\$18,347,670
442	Lebanon Borough SA	340509-02	Infiltration/Inflow Repair	\$207,090
740	Liberty Township	340165-01	Stormwater/NPS Management	\$148,979
537	Lincoln Park Borough	340594-02	Collection System	\$4,245,681
863	Linden City	340679-02	Site Remediation	\$16,322,578
288	Linden Roselle SA	340299-05	Sewer Rehabilitation	\$389,787
68	Linden-Roselle SA	340299-04	I/I Correction - Overflow	\$62,819
711	Linwood City	340217-01	Stormwater Management	\$937,026
230	Little Egg Harbor MUA	340579-02	Sewer Rehabilitation	\$1,930,210
177	Little Egg Harbor Township	344060-01	Stormwater/NPS	\$2,954,323
372	Little Falls MUA	340716-04	I/I Correction	\$2,183,362
685	Little Falls Township	340716-05	Stormwater Management	\$1,235,996
685	Little Falls Township	340716-06	Stormwater Pump Station	\$1,163,975
380	Little Ferry Borough	340425-01	Sewer Rehabilitation	\$4,915,537
327	Lodi Borough	340317-02	Sewer Rehabilitation	\$1,780,655
604	Logan Township MUA	340123-01	STP Expansion	\$17,350,281
424	Long Beach Township	340023-06	Sewer Replacement	\$3,524,481
216	Long Branch SA	340336-05	I/C Abatement	\$1,396,910

451	Long Branch SA	340820-03	Sludge Treatment & Disposal	\$3,766,422
89	Long Branch SA	340820-04	STP Mitigation	\$5,860,527
505	Long Hill Township	340404-05	Collection System, Interceptor	\$14,495,600
384	Long Hill Township	340404-09	Sewer Rehabilitation	\$1,396,910
401	Lopatcong Township	340264-02	Sewer Rehabilitation	\$3,340,073
10	Lower Township MUA	340810-03	STP Improvements	\$3,135,057
328	Madison-Chatham Joint Meeting	340715-03	I/I Correction	\$782,388
160	Madison-Chatham Joint Meeting	340715-05	STP Improvements	\$3,217,620
728	Magnolia Borough	340285-03	Equipment Purchase	\$455,626
729	Magnolia Borough	340285-04	Salt Dome	\$159,031
500	Mahwah Township	340592-03	Collection System, Interceptor	\$9,194,418
517	Mahwah Township	340592-06	Collection System, Interceptor	\$5,532,128
509	Mahwah Township	340737-01	Alternate Wastewater System	\$230,325
790	Manalapan Township	343039-01	Land Acquisition	\$3,471,822
622	Manasquan Borough	340450-01	Resiliency	\$5,069,400
573	Manasquan River Reg SA	340832-02	New Interceptor System	\$4,610,126
239	Manasquan River RSA	340911-01	Sewer Rehabilitation	\$708,917

506	Manchester Township	340650-05	Pump Station, Force Main	\$13,791,502
525	Manchester Township	340650-06	Pump Station, Force Main	\$3,340,073
657	Manchester Township	340650-07	Stormwater Management	\$500,308
174	Manchester Township	344070-01	Stormwater/NPS	\$812,885
493	Manchester Twp	340650-03	Collection System	\$8,972,628
139	Mansfield Township	340935-01	STP Improvements	\$1,396,910
443	Mansfield Township	340935-02	I/I Correction	\$147,540
566	Mansfield Township	340935-03	Collection System	\$11,392,714
813	Mansfield Township	343040-01	Land Acquisition	\$1,641,302
491	Maple Shade Township	340710-03	Water Reclamation	\$496,861
344	Maple Shade Township	340710-04	Sewer Rehabilitation	\$1,721,795
161	Maple Shade Township	340710-05	Photovoltaic System At STP	\$2,541,541
344	Maple Shade Township	340710-06	Sewer Rehabilitation	\$32,459
161	Maple Shade Township	340710-09	STP Improvements	\$2,183,362
668	Maplewood Township	340283-02	Stormwater Management	\$5,479,091
665	Marlboro Township	340268-01	Stormwater/NPS Maintenance	\$9,524,777
788	Marlboro Township	343059-01	Land Acquisition	\$3,997,392

803	Marlton/Burlington County BCF	343068-01	Land Acquisition	\$76,721
248	Matawan Borough	340967-01	I/I Correction	\$708,917
627	Matawan Borough	340967-02	Stormwater Management	\$4,404,418
627	Matawan Borough	340967-03	Stormwater / NPS Management	\$289,789
417	Medford Lakes Borough	340319-01	Sewer Rehabilitation	\$289,789
730	Medford Lakes Borough	340319-02	Stormwater Management	\$360,245
55	Medford Lakes Borough	340463-06	STP Upgrade	\$4,135,382
671	Medford Township	340346-02	Stormwater Management	\$4,784,482
334	Medford Township	340346-06	Sanitary Sewer Lining	\$3,242,185
723	Mendham Borough	340159-01	Stormwater/NPS Management	\$318,067
723	Mendham Borough	340159-02	Stormwater/NPS Management	\$193,346
819	Mendham Township	343031-01	Land Acquisition	\$5,308,104
766	Mercer County	343004-03	Land Acquisition	\$1,122,734
419	Merchantville Borough	340367-03	Sewer Repairs	\$805,887
221	Metuchen Borough	340360-01	I/I Correction	\$3,734,892
24	Middlesex County UA	340699-03	Outfall Construction	\$363,247,172
253	Middlesex County UA	340699-07	Pump Station Rehabilitations	\$8,105,182

253	Middlesex County UA	340699-08	Sewer Rehabilitation	\$22,180,484
476	Middlesex County UA	340699-11	Wastewater Reuse Facilities	\$22,117,020
250	Middlesex County UA	340699-12	Sayreville PS Repair/Reiliency	\$157,358,964
250	Middlesex County UA	340699-13	Edison PS Repair/Reiliency	\$20,721,117
250	Middlesex County UA	340699-14	Main Trunk Sewer Rehab	\$11,457,042
22	Middlesex County UA	340699-15	STP Upgrades	\$15,741,870
749	Middlesex County UA	342012-02	Landfill Renewable Energy	\$4,915,537
643	Middletown Township	340097-01	Shadow Lake RestoRation	\$3,997,392
643	Middletown Township	340097-03	Stormwater	\$147,540
777	Middletown Township	343021-02	Land Acquisition	\$3,193,018
67	Middletown Township SA	340097-04	STP Mitigation/Resiliency	\$19,834,947
283	Middletown Township SA	340097-05	Pump Station Resiliency	\$1,760,462
466	Milford Borough	340805-02	I/I Correction; Sludge/Septage	\$4,076,260
531	Millstone Borough	340271-01	Collection System	\$3,340,073
698	Millstone Township	340126-01	Truck Washing Facility	\$360,245
817	Millstone Township	343009-01	Land Acquisition	\$11,714,265
195	Millstone Township	344160-01	Stormwater/NPS	\$360,245
237	Milltown Borough	340102-03	Substation Relocation	\$15,439,092



854	Milltown Borough	340102-04	Ford Ave. Infrastructure	\$5,190,428
811	Milltown Borough	343052-01	Land Acquisition	\$4,653,327
225	Millville City	340921-04	I/I Correction, Collection System	\$8,557,247
103	Millville City	340921-07	STP Upgrade	\$10,491,204
823	Mine Hill Township	343053-01	Land Acquisition	\$1,396,910
630	Monmouth County Board Of Freeholders	340788-05	Stormwater/NPS Management	\$923,244
315	Monroe MUA	340423-03	Sewer Rehabilitation	\$2,249,480
664	Monroe Township	340423-04	Stormwater/NPS Management	\$318,067
589	Montclair State University	340321-02	Sewer System Expansion	\$6,614,815
804	Montgomery Township	343029-01	Land Acquisition	\$4,594,151
394	Montvale Borough	340846-01	I/I Correction	\$104,753
492	Montville Township MUA	340931-02	Collection System	\$16,484,390
428	Moonachie Borough	340970-02	I/I Correction	\$332,158
346	Moorestown Township	340912-02	Sewer Rehabilitation	\$862,491
844	Morris County	340107-01	Brownfields	\$13,000,360
407	Morris Plains Borough	340330-01	Sewer Rehabilitation	\$479,390
796	Morris Township	343022-01	Land Acquisition	\$2,718,518
247	Morristown Town	340376-04	I/I Correction	\$8,621,779
726	Mount Arlington Borough	340541-04	Stormwater Management	\$134,261

558	Mount Holly SA	340817-02	Septage Treatment & Disposal	\$1,525,150
465	Mount Holly SA	340819-02	Sludge Management	\$5,203,507
690	Mount Holly Township	340817-05	Lake RestoRation	\$169,048
656	Mount Laurel Township	340943-04	Stream RestoRation	\$10,426,744
791	Mount Laurel Township	343015-01	Land Acquisition	\$4,174,867
675	Mount Olive Township	340537-05	Stormwater Management	\$1,266,579
402	N Arlington - Lyndhurst Jt Mtg (Narl)	340426-06	Sewer Rehabilitation	\$218,940
402	N Arlington-Lyndhurst Jt Mtg (Lynd)	340426-05	I/I Correction	\$4,688,749
824	National Park Borough	342019-01	Landfill Closure	\$12,583,490
408	Neptune City Borough	340106-02	Sewer Rehabilitation	\$430,399
659	Neptune Township	340410-06	Salt Dome	\$708,917
659	Neptune Township	340410-07	Stormwater Management	\$5,308,104
659	Neptune Township	340410-08	Lake Dredging	\$1,396,910
101	Neptune Township SA	340410-05	STP Upgrade	\$10,684,529
464	Neptune Township SA	340410-09	Sludge System Improvements	\$13,000,360
840	New Brunswick	340437-12	Brownfields/Stormwater	\$3,340,073
482	New Brunswick City	340437-03	I/I Correction	\$950,799
681	New Providence Borough	340474-01	Equipment Purchase	\$180,000

637	Newark City	340815-11	Blanchard St. Site Remediation	\$29,876,122
750	Newark City	340815-15	Site Remediation	\$16,123,721
151	Newark City	340815-16	Equipment Purchase	\$5,923,270
450	Newark City	340815-18	Stormwater Pump Stations	\$1,645,877
151	Newark City	340815-19	Catch Basins And Manhole Rehab	\$4,653,327
15	Newark City	340815-22	Queen Ditch RestoRation	\$4,522,375
750	Newark City	340815-23	Delancy St Site Remediation	\$27,315,737
15	Newark City	340815-24	Small Sewer Rehabilitation	\$19,257,315
780	NJ Water SA (Manasquan Basin)	343055-01	Land Acquisition	\$13,000,360
649	NJ Water Supply Authority	340421-01	D&R Canal Dredging	\$36,425,562
764	NJ Water Supply Authority	343054-09	Land Acquisition	\$2,725,422
764	NJ Water Supply Authority	343054-10	Land Acquisition	\$1,366,519
494	North Arlington Borough	340959-02	Collection System	\$708,917
211	North Arlington Borough	340959-03	PS Decommissioning	\$381,358
343	North Arlington-Lyndhurst Jt Mtg	340426-07	Pump Station Rehabilitation	\$2,049,114
72	North Bergen MUA	340399-20	STP Upgrade	\$38,083,680
518	North Bergen MUA	340652-06	STP Expansion	\$3,997,392

859	North Bergen MUA	340652-11	WWTP Decommission	\$2,468,581
25	North Bergen MUA	340652-12	Force Main	\$3,340,073
204	North Bergen Township	340652-07	Sewer Rehabilitation	\$639,645
839	North Bergen Township	340652-08	Shoreline Stabilization	\$3,997,392
90	North Bergen Township/Hudson Co UA	340652-01	Collection System	\$3,997,392
204	North Bergen UA	340652-10	Equipment Purchase	\$1,679,606
391	North Haledon Borough	340229-01	Pump Station Rehabilitation	\$46,773
80	North Hudson SA	340952-02	Sewer Rehabilitation	\$30,948,777
80	North Hudson SA	340952-18	5Th Street Pump Station	\$510,792
80	North Hudson SA	340952-19	CSO Abatement	\$7,480,253
80	North Hudson SA	340952-20	STP Improvements	\$3,997,392
80	North Hudson SA	340952-21	CSO Rehab	\$2,718,518
80	North Hudson SA	340952-22	W1234 Solids/Floatables Controls	\$15,451,847
80	North Hudson SA	340952-23	Adams Street STP	\$3,032,199
80	North Hudson SA	340952-24	Hamilton Ave Sewer Rehab	\$2,330,694
80	North Hudson SA	340952-25	Sewer Improvements	\$1,396,910
213	North Wildwood City	340663-04	Sewer Rehabilitation	\$11,349,790
555	North Wildwood City	340663-05	Stormwater Management	\$1,800,638

213	North Wildwood City	340663-06	Utility Reconstruction	\$13,090,964
565	Northwest Bergen Co UA	340700-05	Septage Disposal Facility	\$2,294,564
275	Northwest Bergen Co UA	340700-06	I/I Correction	\$7,944,881
562	Northwest Bergen County UA	340700-11	Upper Saddle River Pump Stations	\$6,419,326
463	Northwest Bergen County UA	340700-12	Incinerator Improvements	\$8,040,553
121	Northwest Bergen County UA	340700-13	STP Upgrades	\$5,177,348
11	Oakland Borough	340418-03	STP, Interceptor, & Collection	\$36,522,885
497	Oakland Borough	340418-05	Collection System	\$40,854,622
802	Oakland Borough	343070-01	Land Acquisition	\$15,516,767
220	Ocean City	340730-01	I/I Correction	\$57,540
159	Ocean County	344080-02	Stormwater/NPS	\$2,093,653
182	Ocean County	344080-03	Berkley Shores Basin	\$1,026,865
182	Ocean County	344080-04	Manufactured Treatment Devices	\$3,217,620
182	Ocean County	344080-06	Southern Complex Truck Wash	\$2,718,518
182	Ocean County	344080-07	Starr Stormwater Treatment	\$268,597
182	Ocean County	344080-08	Camera Equipment	\$292,601
255	Ocean County UA	340372-53	Pump Station Generators	\$3,340,073

255	Ocean County UA	340372-54	Nsa Pump Station Improvements	\$1,915,067
255	Ocean County UA	340372-55	Trailer Mounted GeneRator	\$430,399
58	Ocean County UA	340372-56	Area Wide Clarifier Rehab	\$6,223,655
255	Ocean County UA	340372-57	Ni-13 Interceptor Rehab	\$2,969,927
197	Ocean Gate Borough	344180-01	Stormwater/NPS	\$2,303,933
235	Ocean Township	340112-05	Pump Station Resiliency	\$315,598
235	Ocean Township	340112-06	Sewer Main Replacement	\$3,931,820
388	Ocean Township	340112-07	Sewer Improvements	\$2,290,548
667	Ocean Township	340750-04	Stormwater Management	\$1,198,294
316	Ocean Township SA	340750-10	Deal Lake Siphon	\$1,396,910
316	Ocean Township SA	340750-11	Collection System Improvements	\$4,522,375
316	Ocean Township SA	340750-12	Interlaken Pump Station	\$3,340,073
480	Old Bridge MUA	340945-04	Collection System	\$33,032,119
287	Old Bridge MUA	340945-05	Sewer Rehabilitation	\$2,183,362
284	Old Bridge MUA	340945-13	Laurence Harbor Bulkhead	\$4,915,537
645	Old Bridge Township	340945-12	Stormwater Management	\$13,000,360
778	Old Bridge Township	343043-02	Land Acquisition	\$3,997,392

385	Oradell Borough	340835-03	Phase 3 Sewer Improvements	\$2,969,927
385	Oradell Borough	340835-04	Phase 4 Sewer Improvements	\$1,136,488
313	Orange City	340859-01	I/I Correction	\$964,562
519	Oxford Township	340445-02	Collection System	\$183,343
351	Palisades Park Borough	340313-01	Sewer Rehabilitation	\$430,399
621	PalmyRA Borough	340030-02	NPS Controls	\$343,408
169	Parsippany-Troy Hills Township	340806-04	Photovoltaic System	\$10,833,981
365	Parsippany-Troy Hills Twp	340766-02	I/I Correction	\$51,639
564	Parsippany-Troy Hills Twp	340806-03	Septage Treatment/Disposal	\$354,638
294	Passaic City	340845-01	I/I Correction	\$3,997,392
445	Passaic Valley SC	340683-05	Sludge Treatment & Disposal	\$132,505,940
142	Passaic Valley SC	340689-19	Combined Heat & Power Facility	\$63,223,700
108	Passaic Valley SC	340689-23	Flood Wall & Standby Power	\$134,646,201
108	Passaic Valley SC	340689-24	Plant Wide Repairs	\$17,986,421
108	Passaic Valley SC	340689-25	AdministRation Building Rehab	\$9,070,282
108	Passaic Valley SC	340689-26	Electrical Substations	\$58,205,014
445	Passaic Valley SC	340689-27	Sludge Heat Treatment	\$14,713,119

108	Passaic Valley SC	340689-28	Dewatering & Bulkheads	\$3,340,073
108	Passaic Valley SC	340689-29	Plant Wide Electrical	\$60,117,586
108	Passaic Valley SC	340689-30	Sump Pump Relocation	\$1,733,643
108	Passaic Valley SC	340689-31	Sodium Hypochlorite Storage	\$1,780,655
108	Passaic Valley SC	340689-32	Newark Bay Outfall	\$1,804,876
108	Passaic Valley SC	340689-33	Tunnel Flood Proofing	\$5,921,310
108	Passaic Valley SC	340689-34	Waste Pump Station	\$2,844,687
445	Passaic Valley Sewerage Commissioners	340689-06	Sludge Management	\$63,223,700
142	Passaic Valley Sewerage Commissioners	340689-16	STP Improvements	\$13,000,360
539	Passaic Valley Sewerage Commissioners	340689-17	Equipment Purchase	\$3,054,560
770	Passaic Valley WC	342014-01	Landfill Closure	\$1,645,877
202	Paterson City	340850-01	I/I Correction	\$28,256,876
712	Paulsboro Borough	340164-01	Stormwater Management	\$2,236,978
435	Peapack & Gladstone Borough	340822-01	I/I Correction	\$125,409
825	Peapack & Gladstone Borough	343049-01	Land Acquisition	\$1,054,062
578	Pemberton Township MUA	340649-02	STP Improvement, Collection	\$13,800,360



617	Pemberton Township MUA	340649-04	Septic Management District	\$1,232,571
412	Penns Grove SA	340502-05	Sewer Rehabilitation	\$1,122,734
28	Pennsauken Township	340349-03	CSO Abatement	\$5,308,104
856	Pennsauken Township	340349-04	Site Remediation	\$55,431,119
534	Pennsville SA	340870-01	Collection System	\$2,157,878
123	Pennsville SA	340870-02	STP Upgrade, Collection System	\$7,211,095
73	Pequannock Lincoln Park Fairfield SA	340880-04	STP GeneRator Replacement	\$22,373,643
307	Pequannock Lincoln Park Fairfield SA	340880-05	PS Flood OpeRations	\$3,768,261
319	Pequannock River Basin RSA	340459-05	Sewer Rehabilitation	\$2,969,927
536	Pequannock Township	340480-03	Collection System	\$1,645,877
527	Pequannock Township	340480-05	Collection System	\$6,403,679
523	Pequannock Township	340480-06	Collection System	\$9,333,821
92	Perth Amboy City	340435-11	Second St. PS Resiliency	\$6,459,351
92	Perth Amboy City	340435-12	Replacement Of Catch Basins	\$430,399
851	Perth Amboy RA	340435-07	Site Rmediation	\$36,825,064
860	Perth Amboy RA	340435-08	Site Remediation	\$19,257,315
866	Phillipsburg RA	340874-06	Riverview At Delaware Station	\$9,215,958
128	Phillipsburg Town	340874-07	STP Improvements	\$2,049,114

742	Pine Beach Borough	340248-01	Stormwater Management	\$293,500
198	Pine Beach Borough	344090-01	Stormwater/NPS	\$437,413
377	Pine Hill MUA	340274-05	Sewer Rehabilitation	\$1,286,028
266	Plainfield Area RSA	340949-05	Pump Station Rehab	\$3,997,392
650	Plainfield City	340240-01	Salt Dome	\$103,278
650	Plainfield City	340240-03	Municipal Vehicle Wash	\$1,343,743
781	Plainfield City	340240-04	Potable Well Abandonment	\$78,934
650	Plainfield City	340240-05	Grove Street Retaining Wall	\$60,491
567	Plainfield MUA	340240-02	Regional Pump Station	\$3,997,392
532	Plainsboro Township	340836-01	Collection System, Interceptor	\$2,089,419
246	Pleasantville City	340147-01	Sewer & Stormwater	\$7,860,818
554	Pleasantville City	340752-02	New Collection System	\$686,789
814	Plumsted Township	343019-01	Land Acquisition	\$8,879,791
474	Plumsted Twp	340607-03	Collection System	\$16,789,494
422	Pohatcong Township	340109-01	I/I Correction	\$706,450
816	Point Pleasant Beach Borough	343073-01	Land Acquisition	\$19,257,315
196	Point Pleasant Beach Borough	344190-02	Little Silver Lake	\$8,944,264
797	Point Pleasant Borough	343025-01	Land Acquisition	\$654,846

191	Point Pleasant Borough	344210-01	Stormwater/NPS	\$318,067
107	Pompton Lakes Borough MUA	340636-08	Clarifier Mechanism Replacement	\$985,189
217	Princeton Borough	340656-08	Sewer Rehabilitation	\$3,862,595
217	Princeton Township	340656-09	Linden Lane Improvements	\$1,821,582
759	Princeton Township	343008-01	Land Acquisition	\$4,653,327
400	Prospect Park Borough	340186-01	Sewer Rehabilitation	\$708,917
666	Rahway City	340546-03	Stormwater Management	\$1,483,949
261	Rahway Valley SA	340547-03	I/I Correction	\$5,938,953
261	Rahway Valley SA	340547-08	Sewer Rehabilitation	\$1,713,312
4	Rahway Valley SA	340547-12	Storm Mitigation & Upgrades	\$4,378,193
4	Rahway Valley SA	340547-13	STP Upgrades	\$10,104,841
4	Rahway Valley SA	340547-14	Sludge Digester Upgrades	\$9,460,275
4	Rahway Valley SA	340547-15	Receiving Station	\$2,718,518
4	Rahway Valley SA	340547-16	STP Upgrades	\$1,191,434
586	randolph Township	340632-07	Interceptor, Rehabilitation	\$8,842,391
795	randolph Township	343007-01	Land Acquisition	\$10,903,537
473	Raritan Borough	340781-03	Collection System	\$551,932
9	Raritan Borough	340781-04	I/I Correction - Overflow	\$360,245

488	Raritan Township MUA	340485-04	Alternative Collection/Systems	\$8,583,061
140	Raritan Township MUA	340485-05	Flemington Wet Weather Facility	\$311,009
331	Raritan Township MUA	340485-07	Scada	\$2,250,375
146	Raritan Township MUA	340485-09	Motor Control Center	\$2,718,518
331	Raritan Township MUA	340485-10	Woodside Farms Pump Station	\$1,443,733
352	Readington Township	340577-07	I/I Correction	\$226,059
798	Readington Township	343034-04	Land Acquisition	\$14,000,636
705	Richard Stockton College	340146-01	Stormwater Management	\$597,909
549	Richard Stockton College	340146-02	Pervious Concrete	\$3,007,318
549	Richard Stockton College	340146-03	Green Roofs	\$26,849,966
705	Richard Stockton College	340146-04	Spillway RestoRation	\$1,201,038
53	Ridgefield Park Village	340688-04	CSO Abatement	\$16,713,680
74	Ridgewood Village	340639-05	I/I Correction - Overflow	\$2,075,987
326	Ridgewood Village	340639-07	I/I Correction	\$6,046,088
680	Ringwood Borough	340157-01	Equipment Purchase	\$465,419
373	River Edge Borough	340841-01	I/I Correction	\$458,425
694	River Vale Township	340188-01	Stormwater Management	\$1,191,434
805	River Vale Township	343064-01	Land Acquisition	\$6,614,815
516	Riverdale Borough	340473-01	Interceptor	\$4,345,404

515	Riverdale Borough	340729-01	Collection System, Interceptor	\$1,744,301
739	Riverdale Borough	340729-02	Equipment Purchase	\$289,789
77	Riverton Borough	340275-01	STP Improvements	\$914,970
402	Rochelle Park Township	340310-01	Sewer Rehabilitation	\$2,255,626
490	Rockaway Township	340478-05	Collection System, Interceptor	\$17,510,632
99	Rockaway Valley RSA	340821-04	STP	\$9,782,685
273	Rockaway Valley RSA	340821-06	Jersey City Trunk Sewer	\$6,543,350
187	Rockaway Valley RSA	340821-07	Clarifier Mechanism	\$3,997,392
187	Rockaway Valley RSA	340821-08	STP Upgrades	\$15,439,092
444	Roosevelt Borough	340761-02	I/I Correction	\$1,522,661
413	Roseland Borough	340361-01	I/I Correction	\$123,712
725	Roseland Borough	340361-02	Stormwater Management	\$1,396,910
339	Roselle Borough	340332-02	Sewer Lining	\$3,471,822
362	Roselle Park Borough	340234-01	Sewer Rehabilitation	\$166,190
366	Roxbury Twp	340381-05	I/I Correction	\$1,344,941
385	Runnemede Borough	340363-06	Sewer Lining	\$1,553,702
348	Rutherford Borough	340192-01	Sewer Rehabilitation	\$708,917
605	Salem City	340235-02	Stormwater Management	\$1,546,267

563	Salem County Bd Of Chosen Freeholders	340804-03	Septage Treatment/Disposal	\$6,816,427
208	Salem County Board Of Freeholders	340804-04	STP	\$18,263,633
785	Sayerville Borough	343075-01	Land Aquisition	\$31,783,125
375	Sayreville Borough	340326-04	I/I Correction	\$244,515
415	Sayreville Borough	340326-07	Sewer System Improvements	\$7,049,396
862	Sayreville ERA	340134-01	Site Remediation	\$50,664,200
745	Sea Bright Borough	340077-01	Stormwater Pump Station	\$3,774,303
744	Sea Girt Borough	340468-01	Stormwater Management	\$4,823,809
427	Sea Isle City	340659-01	I/I Correction	\$667,397
242	Seaside Heights Borough	340236-01	Sewer Rehabilitation	\$3,913,060
156	Seaside Park Borough	344200-02	Stormwater/NPS	\$1,445,429
546	Secaucus Town	340029-03	Golden Avenue PS Culvert	\$2,250,375
546	Secaucus Town	340029-04	Born Street Storm PS	\$2,359,235
757	Secaucus Town	342021-01	Malanka Landfill Closure	\$21,189,859
530	Shamong Twp	340831-01	Alternative Wastewater System	\$2,702,506
718	Somerdale Borough	340338-03	Stormwater/NPS Management	\$1,331,729
405	Somerdale Borough	340338-04	Sewer Rehabilitation	\$444,422

687	Somers Point City	340618-02	Stormwater Improvements	\$5,203,507
687	Somers Point City	340618-03	Exton Road Stormwater	\$1,122,734
687	Somers Point City	340618-04	Bethel Road Stormwater	\$1,054,749
98	Somerset Raritan Valley SA	340801-07	Off Site Treatment	\$14,834,451
460	Somerset Raritan Valley SA	340801-08	Sludge Incinerator Upgrade	\$12,997,791
560	Somerset-Raritan Valley SA	340801-03	Septage Treatment/Disposal	\$1,465,130
867	Somerville Borough	342013-01	Landfill Closure	\$10,684,529
249	South Amboy City	340326-06	I/I Correction	\$244,515
240	South Bound Brook Borough	340347-01	Interceptor	\$1,239,434
333	South Brunswick Township	340866-01	I/I Correction	\$374,327
489	South Brunswick Township	340897-01	Collection System	\$1,254,485
298	South Monmouth RSA	340377-03	Pump Station Improvements	\$9,137,611
298	South Monmouth RSA	340377-04	Pump Station Improvements	\$9,137,611
298	South Monmouth RSA	340377-05	Belmar Pump Station	\$2,718,518
857	South Orange Village Township	340103-01	Site Remediation	\$2,049,114
335	South Plainfield Borough	340408-01	Vacuum Jet Purchase	\$458,425
529	Southampton Township	340961-01	Sewer System, Force Main	\$2,459,208

13	Sparta Township	340495-03	STP Upgrades, On-Site	\$2,853,484
593	Sparta Township	340495-04	Collection System	\$2,821,542
425	Spring Lake Borough	340442-01	Wreck Pond	\$593,310
406	Spring Lake Heights Borough	340840-01	I/I Correction	\$163,328
360	Springfield Township	340855-01	I/I Correction	\$1,465,130
470	Stafford Township	340946-02	Collection System	\$7,975,913
219	Stafford Township	340946-05	Beach Haven West Sewer	\$936,969
582	Stafford Township	340946-06	Mill Creek Bulkhead	\$1,679,268
758	Stafford Township	343076-01	Land Aquisition	\$6,683,353
153	Stafford Township	344100-02	Stormwater/NPS	\$5,935,359
153	Stafford Township	344100-03	Stormwater/NPS	\$3,046,458
421	Stanhope Borough	340504-02	Sewer Rehabilitation	\$254,421
735	Stanhope Borough	340504-03	NPS Management	\$147,540
244	Stone Harbor Borough	340722-05	Sewer Rehab	\$4,475,330
350	Stony Brook Regional SA	340400-03	I/I Correction	\$560,281
144	Stony Brook RSA	340400-07	Emergency GeneRator Resiliency	\$5,177,348
288	Stony Brook RSA	340400-08	Millstone Emergency GeneRator	\$1,566,713
288	Stony Brook RSA	340400-09	South Brunswick Emergency	\$1,501,281
510	Sussex Co. MUA- Branchville/Frankford	340759-02	Collection System	\$7,234,628



771	Sussex County MUA	342008-01	Landfill Closure	\$2,451,173
748	Teterboro Borough	340339-01	Stormwater Management	\$1,219,513
868	Teterboro Borough	340339-02	Site Remediation	\$21,889,461
868	Teterboro Borough	340339-03	Site Remediation	\$33,535,341
641	Toms River Township	340145-02	Stormwater Management	\$1,054,062
233	Totowa Borough	340778-01	I/I Correction	\$985,189
553	Totowa Borough	340778-04	Force Main	\$420,000
203	Trenton City	340416-12	Sewer Rehabilitation	\$2,718,518
827	Trenton City	340416-13	Site Remediation	\$10,091,960
836	Trenton City/Mercer CIA	340087-01	Site Remediation	\$2,844,687
241	Tuckerton Borough	340034-02	Sewer Main Replacement	\$1,820,883
266	Two Rivers Water Recl. Auth.	340117-05	Main PS Replacement	\$26,849,966
66	Two Rivers WRA	340117-02	STP Upgrade	\$7,760,140
277	Two Rivers WRA	340117-03	Pump Station Improvements	\$3,866,213
266	Two Rivers WRA	340117-04	Pump Station Upgrades	\$500,308
848	Two Rivers WRA	340117-06	Collection Sysytem	\$14,826,569
399	Union Beach Borough	340278-01	Sewer Rehabilitation	\$2,317,315
634	Union County	340280-01	Stormwater Management	\$63,324
842	Union County IA	340124-01	Site Remediation	\$23,069,596

865	Union County IA (Scotch Plains)	340113-01	Stormwater Management	\$1,847,907
293	Union Township	340293-04	Interceptor Replacement	\$999,117
504	Upper Saddle River Borough	340909-01	Collection System, Interceptor	\$1,384,609
526	Upper Twp (Strathmere)	340619-03	Collection System, Interceptor	\$2,326,681
691	Ventnor City	340667-02	Stormwater Management	\$9,466,743
691	Ventnor City	340667-03	Flood Walls	\$1,396,555
498	Vernon Twp	340745-02	Alternative Wastewater System	\$6,677,126
359	Verona Borough	340533-04	I/I Correction	\$1,465,130
485	Voorhees Township	340875-01	Collection System, Force Main &	\$5,630,570
499	Wanaque Borough	340434-02	Collection System, Interceptor	\$306,771
145	Wanaque Valley RSA	340780-04	STP Improvements	\$3,774,303
374	Wanaque Valley RSA/Wanaque Borough	340780-02	I/I Correction	\$1,567,310
501	Wantage Twp	340760-03	Alternative Wastewater Systems	\$572,805
354	Warren Co Lopat SA	340580-04	I/I Correction	\$2,463,225
57	Warren Co- Paulinskill/Blairstown	340453-03	STP, Interceptor, Pumping Station	\$2,607,692
772	Warren County	343035-01	Land Acquisition	\$3,185,630

76	Warren County (Pequest River) MUA	340454-05	Photovoltaic	\$3,997,392
14	Warren Township SA	340964-01	STP Upgrades	\$2,949,114
232	Warren Township SA	340964-02	Fox Hill West & Heather Ln PS	\$675,018
524	Washington Township	340930-01	Collection System	\$3,335,192
782	Washington Township (Gloucester Co.)	343044-01	Land Acquisition	\$1,019,650
301	Washington Township MUA	340930-03	Sewer Rehabilitation	\$2,270,465
684	Waterford Township	340163-02	Salt Dome	\$500,308
598	Waterford Township MUA	340163-01	Collection System	\$3,309,186
297	Wayne Township	340393-07	I/I Correction	\$2,049,114
481	Wayne Township	340929-01	Collection System	\$1,861,346
369	West Caldwell Township	340200-01	Pump Station Upgrade	\$268,597
342	West Deptford Township	340947-04	Pump Station Upgrades	\$2,315,616
468	West Milford Township	340701-10	Septic System Repairs	\$289,789
94	West Milford Township MUA	340701-11	STP Improvements	\$9,189,254
94	West Milford Township MUA	340701-12	Emergency Generators	\$301,823
572	West Orange Township	340865-01	Interceptor Sewers	\$12,117,146
596	West Paterson Borough	340778-05	Sewer Rehabilitation	\$733,721
224	West Wildwood Borough	340626-03	I/I Correction	\$564,453
472	West Wildwood Borough	340626-04	Collection System	\$55,180

793	West Windsor Township	343005-02	Land Acquisition	\$8,712,041
590	West Windsor Township	340491-02	Collection System	\$570,013
710	Westampton Township	340105-01	Equipment Purchase	\$289,789
157	Western Monmouth UA	340128-03	Photovoltaic Solar Array	\$13,000,360
276	Western Monmouth UA	340128-04	Pump Stations Rehab	\$6,127,056
371	Westwood Borough	340862-01	I/I Correction	\$971,701
613	Weymouth Township MUA	340078-01	Pump Station	\$236,752
434	Weymouth Township MUA	340713-02	Sewer Rehabilitation	\$570,013
511	Wharton Borough	340489-03	Collection System, Interceptor	\$599,302
609	Wildwood City	340664-02	Storm Sewer Rehabilitation	\$2,492,677
222	Wildwood City	340664-03	Sewer Rehabilitation	\$3,032,199
606	Wildwood City	340664-04	Stormwater Management	\$12,357,700
223	Wildwood Crest Borough	340719-03	New Jersey Ave Sewer	\$10,560,451
611	Wildwood Crest Borough	340719-04	New Jersey Ave Storm	\$3,764,045
760	Wildwood Crest Borough	343041-01	Land Acquisition	\$3,997,392
175	Willingboro MUA	340132-06	STP Resiliency	\$200,617
227	Willingboro MUA	340132-07	Collection System Resiliency	\$1,575,337
579	Winslow Township	340895-04	Collection System	\$2,320,058
309	Winslow Township	340895-07	Sewer Rehabilitation	\$653,528

207	Winslow Township	340895-08	Sicklerville Interceptor	\$1,748,207
309	Winslow Township	340895-09	Scada	\$945,291
579	Winslow Township (W. Atco)	340895-05	Collection System	\$4,852,482
484	Winslow Twp	340895-02	Collection System, Pumping	\$2,722,377
311	Winslow Twp (Sicklerville)	340895-01	I/I Correction	\$2,013,118
612	Woodbine MUA	340370-01	STP Upgrade, Expansion	\$12,630,925
282	Woodbridge Township	340433-04	I/I Correction	\$1,132,363
538	Woodbridge Township	340433-08	Collection System	\$36,885
858	Woodbridge Township	340433-10	Site Remediation	\$9,943,795
425	Woodbury Heights Borough	340257-02	Sewer Rehabilitation	\$1,841,186
596	Woodland Park	340203-01	Collection System	\$2,049,114
429	Woodlynne Borough	340849-01	I/I Correction	\$4,264,056
707	Wood-Ridge Borough	340239-01	Stormwater Management	\$646,771
551	Woolwich Township	340432-01	New Collection System &	\$25,227,238
79	Wrightstown MUA	340925-01	STP Upgrade	\$3,866,213
436	Wyckoff Township	340738-03	Collection System, Interceptor	\$14,494,384
743	Wyckoff Township	340738-04	Equipment Purchase	\$535,216

**Appendix E**  
**Construction Loan Program Drinking Water Eligibility List**  
**Clean Water**

Rank	Project Sponsor	Project Number	Project Description	Total Project Cost (with buffer)
332	Aberdeen Township	1330002-001	Installation of water mains to provide water services and fire protection to residents within the Aberdeen Road area of the Cliffwood/Cliffwood Beach service areas.	\$1,188,000
331	Aberdeen Township	1330002-003	Replace deteriorated water main from Route 35/Long Neck crossing to and along County Road to improve the system's reliability, pressure and fire protection	\$990,000
330	Aberdeen Township	1330002-004	Install two water utility crossing of Route 35 to improve the capability of the existing water distribution system	\$537,000
276	Alpha Borough	2102001-001	Upgrades to treatment for Pursell & Alpha St wells or VOC removal, hardness and disinfection	\$2,419,000
9	Aqua NJ - Hamilton	1103001-005	Addition of radium treatment at Well 9 to resolve MCL exceedance	\$894,000
60	Aqua NJ - Northern	2119001-008	Replacement of 7,080 LF of undersized water mains in Philipsburg	\$1,609,000
122	Aqua NJ - Southern	0415002-008	Replacement of 5,900 LF of water main on Lakeside, East Blenheim, Haines, Lake & Church, etc	\$1,462,000
83	Arthur Road Well Association	1912007-001	Connection of this system to Hopatcong Borough to resolve capacity development issues including sealing of existing well and replacement of water mains within the Arthur Road area.	\$389,000
47	Atlantic City MUA	0102001-005	Installation of solar system at offices and at WTP	\$5,681,000
258	Barnegat Township	1533001-002	Replacement of water meters & Back flow preventers	\$686,000
356	Barnegat Township	1533001-003	Installation of 1,700 LF of 8 inch PVC water main extension on Memorial Drive and 680 LF of 12 inch PVC main on Hillside Avenue	\$317,000
168	Barnegat Township	1533001-500	Install emergency generator for well #4	\$311,000
148	Bayonne MUA	0901001-004	Rehabilitation of gate house valve chamber and venturi flow meter	\$1,352,000

147	Bayonne MUA	0901001-006	Installation of 2,000 LF of 36inch HDPE transmission line to replace a leaking main	\$7,621,000
146	Bayview Water Co./Downe Twp	0604001-004	Construction of new storage tank on New Jersey Avenue	\$914,000
173	Beach Haven Borough	1503001-500	Demolish and replace damaged pump room @ WTP	\$1,263,000
326	Beachwood Borough	1504001-006	The Cable Avenue water main replacement includes replacing 4, 6 and 8 inch water mains with 3,500 LF of 8 inch main	\$630,000
264	Belleville Township	0701001-001	Extension of 12 inch water main to the Medical Center	\$533,000
265	Belleville Township	0701001-002	Replacement of inoperable valves & hydrants	\$800,000
16	Belleville Township	0701001-003	Replacement of 7,000 lead service lines	\$19,289,000
17	Belleville Township	0701001-004	Installation of lead corrosion control measures at four interconnections	\$609,000
450	Belleville Township	0701001-005	Replacement of water meters	\$4,295,000
456	Bellmawr Borough	0404001-003	Replacement of water mains will be needed to serve a brownfield redevelopment area.	\$8,592,000
457	Bellmawr Borough	0404001-004	A new 0.3 MG storage tank is needed to serve a Brownfield redevelopment area.	\$579,000
143	Bellmawr Borough	0404001-005	Replace back wash tanks and emergency generators at Warren Ave and Leaf Ave WTP's	\$633,000
227	Berkeley Township MUA	1505004-002	Install new water mains to existing homes and commercial establishments. New mains are approx. 10,000 LF of 8, 10 and 12 inch ductile iron cement	\$6,985,000
93	Berkeley Township MUA	1505004-003	Install new solar panels at treatment plant	\$1,142,000
125	Berkeley Township MUA	1505004-004	Install automated meter reading system throughout the service area to improve the speed and reliability of billing records	\$762,000
228	Berkeley Township MUA	1505004-005	Extension of water mains to serve existing homes on private wells in the Manitou Park Section of the Township	\$11,361,000
172	Berkeley Township MUA	1505004-007	Installation of new well #4 with 1,000 LF of main to connect to the WTP	\$1,216,000

78	Berkeley Township MUA	1505004-008	Installation of new water main within the existing Berkeley Twp MUA service area. Constuction of approximately 11,400 LF of new 8inch cement lined DIP, valves, fire hydrant assemblies, residential service connections and other related work. The proposed water mains will provide additional looping in the existing distributution system.	\$3,286,000
169	Berlin Borough	0405001-005	Repairs to Plant#1 filter and complete replacement of filter media	\$123,000
269	Berlin Borough	0405001-006	A 12 inch water main needs to be tied in at Park Drive and White Horse Pike	\$305,000
473	Berlin Borough	0405001-007	Redrilling of well, approximately 450 feet deep	\$914,000
252	Bloomfield Township	0702001-001	Cleaning and Lining of water mains	\$1,523,000
275	Bloomingtondale Borough	1601001-004	Replacement of 3,150 LF of 2 inch water mains with 12 hydrants and 52 water services	\$1,299,000
319	Bordentown City	0303001-002	Replacement of 1,500 LF of 12-inch transmission mains	\$514,000
418	Bordentown City	0303001-005	Construct a 1.25 MG storage tank	\$3,440,000
26	Bordentown City	0303001-006	Water System Remediation- Upgrade Well ACO violation	\$995,000
235	Bordentown City	0303001-007	Upgrade treatment plant	\$2,454,000
129	Brick Township MUA	1506001-002	Replace gaseous chlorine with sodium hypochlorite as part of overall chemical upgrades to WTP	\$7,067,000
181	Brick Township MUA	1506001-003	Replacement of 24,090 LF of undersized water mains	\$5,988,000
139	Brick Township MUA	1506001-004	Installation of emergency generators w/ controls & instrumentation at 3 booster pump stations	\$642,000
226	Brick Township MUA	1506001-005	Installation of a replacement well as an ASR well	\$4,064,000
284	Brick Township MUA	1506001-006	Installation of security measures in water system: Hatch Blue Guardian system to monitor WQ, lightning strike protection, surveillance cameras, wind turbine and solar panels	\$3,255,000
38	Bridgeton City	0601001-005	Replacement of 2,190 LF of 6 inch with 8 inch main	\$2,371,000
336	Brielle Borough	1308001-002	Replacement of existing water main	\$2,454,000
526	Brielle Borough	1308001-003	Storage tank demolition	\$58,000



412	Brigantine City	0103001-500	New well#4 @ higher elevation	\$1,926,000
318	Brigantine City	0103001-501	Installation of generators @ wells #4,5 & 7	\$1,547,000
222	Brooklawn Borough	0407001-004	Removal and replacement 1,500 LF of 6-inch water mains; looping of dead end water mains on Crescent Blvd., Browning Lane, Hannivig Ave., & Broadway	\$2,192,000
277	Brooklawn Borough	0407001-005	Painting interior & exterior of water tank	\$654,000
459	Burlington Township	0306001-002	Rehabilitate well #4	\$86,000
431	Burlington Township	0306001-003	Purchase of water meters to replace existing meters-Phases 2 to 4	\$284,000
257	Burlington Township	0306001-004	Replacement of 1,500 LF of main on Lansberry Dr and LaVeer Rd	\$326,000
347	Byram Twp Homeowners Assoc	1904009-006	Replacement of 77 saddles on the water mains	\$381,000
34	Camden City	0408001-004	Replacement of water mains on South Merrimac Road and New Hampshire Road	\$5,820,000
45	Camden City	0408001-006	Rehabilitate the North Camden pump station	\$762,000
36	Camden City	0408001-013	Cleaning & Lining of distribution and transmission mains on Cooper, Federal, Arch & Market Streets, Delaware Ave., Riverside & Aquarium Drives	\$11,593,000
35	Camden City	0408001-014	Replacement of Lead Service Lines in schools including child care centers approved by the City of Camden Board of Education	\$864,000
24	Camden City	0408001-015	Morris-Delair WTP improvements - Phase II - Upgrade plant SCADA system, replace existing sludge pumps, install safety guards, self closing gates at work platforms, new booster pumps and four new wells	\$1,338,000
23	Camden City	0408001-016	Replacement of VOC tower media, removal and replacement of existing degasifier, and restoration of surface treatments and finishes for the pressure filter at Parkside WTP	\$357,000
46	Camden City	0408001-018	Rehabilitation and painting of a 5 MG standpipe (North Camden Tank) and two 2 MG elevated tanks (Kaighn Avenue and Whitman Park Tank)	\$5,599,000
37	Camden City	0408001-020	Cleaning and lining of approximately 57,000 feet of various transmission mains ranging in size between 16 to 36 inches in diameter	\$10,701,000

67	Camden City	0408001-021	Replacement of outdated meters with new automatic meter reading equipment	\$1,523,000
88	Camden City	0408001-022	Installation of 10 replacement potable wells and well house floor elevations at Morris Delair WTP	\$153,000
182	Cape May City	0502001-004	Construction of a new 12-inch case well into the 800 foot Atlantic City Sands Aquifer	\$1,523,000
301	Carteret Borough	1225001-020	Installation of 6-inch main to serve waterfront park in Cateret	\$901,000
145	Central Regional Board of Ed. Bayville	1505355-001	Additional treatment on existing well	\$1,523,000
396	Central Regional Board of Ed. Bayville	1505355-002	Construction of new interconnection with existing municipal water system	\$1,523,000
335	Clayton Borough	0801001-002	Rehabilitation of East Chestnut St and North Delsea Dr storage tanks	\$4,001,000
220	Clementon Borough	0411001-001	8 inch cast iron pipe water main sliplining (1,300 LF) at Gibbsboro Rd between White Horse Pike and White House Rd.	\$457,000
437	Clementon Borough	0411001-002	Rehab of Well #9. Well #9 has experienced sedimentation-related water quality impacts.	\$1,295,000
322	Clinton Town	1005001-006	Replacement of 12,485 linear feet of water mains, Phases II through V	\$3,858,000
491	Clinton Town	1005001-007	Replacement of water meters	\$1,065,000
516	Colby Water Company	1904007-001	Installation of back up well	\$153,000
423	Colby Water Company	1904007-002	Installation of a new storage tank	\$229,000
401	Collier Services	1328300-001	Replace existing 24,000 gallon elevated storage tank to prevent freezing and leakage	\$533,000
348	Collier Services	1328300-002	Replace distribution system and associated appurtenances including hydrants within the Collier Services property	\$387,000
246	Collier Services	1328300-003	Replace existing hypochlorination and water softener systems with new hypochlorination and iron removal systems; construct new well/treatment house with security features; replace auxiliary power and redevelop existing 25 gpm well.	\$153,000
461	Collier Services	1328300-005	Install new meters and water conservation devices at Collier Services Bldgs	\$5,000

286	Downe Township	0604999-001	Construction of water system for Money Island and Gandy's Beach and installation of storage tank in Fortescue	\$4,288,000
308	East Brunswick Twp	1204001-001	Replacement of undersized water mains on Wilmot, Harrison and various streets	\$5,271,000
507	East Greenwich Township	0803001-001	Construct new well #3	\$876,000
506	East Greenwich Township	0803001-003	Construction of a well house for well#4 w/ associated piping	\$3,644,000
451	East Hanover Township	1410001-001	Renovation of treatment plant - addition of ion exchange for well #1 & #2	\$1,371,000
505	East Hanover Township	1410001-002	New Water Treatment Plant for Well 6	\$3,290,000
327	East Hanover Township	1410001-004	Replace water mains	\$533,000
419	East Hanover Township	1410001-005	Construction of a new water storage tank	\$3,602,000
42	East Orange Water Commission	0705001-002	Cleaning & Lining of mains	\$3,137,000
112	East Orange Water Commission	0705001-004	Rehab of Braidburn wells #1 & #2; Canoe Brook wells #2, #3 & #4	\$1,795,000
111	East Orange Water Commission	0705001-005	Replacement of electrical cable for wellfield which includes Well Nos. 3, 4 & 5	\$1,447,000
43	East Orange Water Commission	0705001-006	Replacement of west well transmission main	\$3,602,000
44	East Orange Water Commission	0705001-007	Replacement of fifteen water mains suspended on Garden State Parkway bridges	\$3,602,000
64	East Orange Water Commission	0705001-009	Installation of solar power at water treatment plant	\$1,523,000
41	East Orange Water Commission	0705001-010	Installation of 2,150 LF of 8-inch & 1,400 LF of 4-inch for a redevelopment	\$495,000
5	East Orange Water Commission	0705001-011	Installation of VOC treatment at White Oak Ridge PS and rehabilitation of wells to increase deficiency	\$12,196,000
72	East Orange Water Commission	0705001-500	Installation of 2 generators at White Oak Road	\$4,596,000
430	East Windsor MUA	1101002-004	Installation of solar panels at 2 facilities	\$2,247,000
119	Egg Harbor City	0107001-001	Construction of a new storage tank	\$2,489,000
66	Egg Harbor City	0107001-002	Replacement of a water treatment plant	\$11,272,000
397	Essex Fells Borough	0706001-001	Rehabilitate 1 MG water storage tank	\$515,000
230	Evesham MUA	0313001-001	Upgrades to WTP for wells # 13 and 14 including iron removal	\$1,963,000

510	Farmingdale Borough	1314001-001	Redevelop well #3; upgrade control system for well #3 & 4, misc improvements to the WTP	\$562,000
239	Fayson Lake Water Co	1415001-001	Upgrade treatment facility	\$800,000
395	Fayson Lake Water Co	1415001-003	Replace existing 0.1 MG Stony Brook storage tank with a 0.25 MG tank	\$960,000
394	Flemington Boro	1009001-008	Installation of wells #1B and 1C	\$168,000
452	Florham Park Boro	1411001-001	Construction of Water Treatment Facility for removal of manganese	\$7,342,000
333	Florham Park Boro	1411001-002	Replacement of 14 6-inch line valves, 12 hydrants and 11 services	\$250,000
392	Florham Park Boro	1411001-003	Rehabilitation of a 1.0 MG storage tank	\$929,000
440	Forest Lakes Water Company	1904003-001	Installation of two generators	\$168,000
177	Fountainhead Properties, Inc.	1511013-001	Improvement to WTP including chemical feed, building, hydropneumatic tank, controls & auxiliary power	\$295,000
279	Fountainhead Properties, Inc.	1511013-002	Loop system with 400 LF of water main with replacement of water meters	\$76,000
482	Fountainhead Properties, Inc.	1511013-003	Rehabilitation of well #2	\$55,000
480	Fountainhead Properties, Inc.	1511013-004	Improvements/Replacement of well #1	\$187,000
527	Franklin Township	0805388-001	New water treatment plant at Meredith farms	\$160,000
376	Franklin Township	1808001-004	Replacement of 2 elevated storage tanks	\$10,532,000
488	Franklin Township	1808001-005	Replace water meters	\$4,988,000
306	Franklin Township	1808001-006	Installation of new water mains to eliminate dead end mains	\$1,401,000
471	Franklin Township	1808001-007	Construction of an interconnection w/ New Brunswick City including 1450 Lf of water main and a booster pump station	\$780,000
434	Freehold Borough	1315001-001	Replace and construct two well houses that protect well pumps	\$191,000
428	Garfield City	0221001-003	Rehabilitation of Well 1A	\$609,000
198	Garfield City	0221001-004	Replacement of water mains	\$5,958,000
267	Garfield City	0221001-005	Replacement of the Botany Street pump station. Expansion of the SCADA system	\$2,978,000
199	Garfield City	0221001-006	Replacement of 8,000 LF of 6-inch to 12-inch water main & replacement of 30 valves	\$6,991,000
463	Garfield City	0221001-007	Upgrade to SCADA	\$77,000

398	Glen Gardner Borough	1012001-001	Rehabilitate storage tank	\$592,000
211	Gloucester City	0414001-002	Water Main replacement on Broadway & Koehler Streets	\$1,217,000
210	Gloucester City	0414001-003	Water Main replacement on Jersey Avenue	\$2,963,000
209	Gloucester City	0414001-007	Water Main replacement on Johnson Blvd.	\$1,305,000
208	Gloucester City	0414001-008	Water Main replacement on Market Street	\$686,000
207	Gloucester City	0414001-009	Water Main replacement on Park Avenue	\$1,205,000
206	Gloucester City	0414001-010	Water Main replacement on Baynes Avenue	\$727,000
205	Gloucester City	0414001-011	Water Main replacement on Brown Street, E. Brown Street, Sparks Avenue	\$2,448,000
204	Gloucester City	0414001-012	Water Main replacement on Nicholson Road	\$331,000
212	Gloucester City	0414001-013	Replacement of 2,200 LF of water mains on Charles Street	\$1,687,000
295	Gloucester City	0414001-014	Construction of a 1.0 MG storage tank to replace standpipe	\$4,295,000
294	Gloucester City	0414001-015	Construction of a new .5 MG storage tank to maintain pressure on the east side	\$1,388,000
213	Gloucester City	0414001-020	Replacement of water mains on Water St and looping of mains to Freedom Pier	\$1,259,000
250	Green Briar Residential Home	1421305-001	Installation of chlorination to WTP, emergency generator, back up well	\$33,000
323	Haddonfield Borough	0417001-001	Replacement of water main on Tanner & Woodlane with 8 inch	\$799,000
400	Haledon Borough/Manchester UA	1603301-001	Reactivation of the Tilt St Spring including upgrades to the cistern and the treatment, pumps, storage and building	\$105,000
215	Hammonton Town	0113001-001	Water main extension along Egg Harbor Road, and Eighth Street to create loops and eliminate dead ends	\$381,000
216	Hammonton Town	0113001-002	Replacement of water mains on Central Ave., Golf Dr., & 12th Street.	\$1,523,000
217	Hammonton Town	0113001-003	Replacement of 2,900 LF of water mains on Rte 54	\$739,000
409	Hammonton Town	0113001-007	Replace 1,500 meters with radio frequency meters .	\$936,000
466	Hammonton Town	0113001-010	Installation of SCADA at water facilities	\$305,000
214	Hammonton Town	0113001-011	Water main extension on 4,600 LF section of Valley ave extending from Central Ave to Bellevue Ave, inclusive of a 900 LF segment of Broadway extending from Valley Ave to Central Ave.	\$1,781,000

439	Hampton Borough	1013001-001	Construction of back up well #5	\$1,371,000
420	Harding Woods MHC	1710001-002	Installation of new water meters in Harding Woods Mobile Home Park	\$320,000
155	Harrison Water Dept	0904001-001	Cleaning & Lining of mains on Grant Ave., Cleveland Ave., & Hamilton Street	\$7,760,000
156	Harrison Water Dept	0904001-004	Cleaning and Lining and of approximately 3,000 LF of 10, 12 and 14 inch mains	\$2,909,000
157	Harrison Water Dept	0904001-005	Replacement of 3,160 LF of water mains on S 2nd, Frank E. Rogers Blvd & Scott Mobus Place	\$2,216,000
367	Hightstown Borough	1104001-001	New Wycoff Mills Water Storage Tank with transmission mains	\$1,257,000
477	Hightstown Borough	1104001-002	New Well #3 - Upgrades to plant, well house and pump	\$762,000
175	Hightstown Borough	1104001-003	Construct 80,000 gallon backwash tank and re-line existing lagoons	\$686,000
273	Hightstown Borough	1104001-006	This project will add 2,300 LF of 8inch diameter ductile iron or HDPE plastic water main to replace existing deteriorated 2inch, 4inch, 6inch water mains along Stockton St (County Rte 571) and at the intersection of Dutch Neck Rd. and Harron Avenue. Existing galvanized pipe service connections will be replaced with copper service pipes.	\$1,875,000
476	Hightstown Borough	1104001-007	Rehabilitation of Deep Well #2	\$375,000
174	Hightstown Borough	1104001-008	Rehabilitation of two settling tanks-drained, cleaned, repaired as necessary and interior and exterior painted	\$156,000
475	Hopatcong Borough	1912001-008	Install new well and construct associated treatment facilities, SCADA system, generator & mains	\$1,014,000
6	Hopatcong Borough	1912001-009	Installation of 48-inch pipe at wells to increase chlorine contact time at nine wells	\$1,142,000
474	Hopatcong Borough	1912001-010	Construction of a new surface water treatment plant for reactivated Elbo Pt well	\$2,632,000
338	Island Heights Borough	1510001-004	Replacement of 75 fire hydrants and repairs to 21 fire hydrants	\$290,000
472	Jackson Township MUA	1511001-006	Construction of back up well for Manhattan Water Treatment Plant	\$745,000
499	Jackson Township MUA	1511001-007	Ancillary Improvements to the Old Manhattan Water Treatment Facility	\$2,216,000
427	Jackson Township MUA	1511001-008	Installation of a water main and booster station to interconnect the Legler system	\$3,971,000

183	Jackson Township MUA	1511001-010	Replacement of two storage tanks with one 0.2 MG tank with booster station shed and piping, site work and demolish existing tanks and old WTP. Demolition of Field Office and replace with new warehouse that will house the new pumps and chemical feed for well #3.	\$5,690,000
411	Jackson Township MUA	1511001-011	Modifications to the administration building and garage building	\$1,407,000
81	Jefferson Township	1414011-001	Mountain Shores WC connection	\$1,809,000
135	Jersey City/Jersey City MUA	0906001-006	Installation of 8,600 LF of 24" & 30" transmission main for looping	\$18,005,000
134	Jersey City/Jersey City MUA	0906001-010	Clean & line 18,000 LF of 6", 8" & 10" water main & replace 4,000 LF of water main	\$7,067,000
136	Jersey City/Jersey City MUA	0906001-011	Replacement of approximately 30 large valves over 12 inches in diameter throughout the water aqueduct and distribution system	\$5,070,000
137	Jersey City/Jersey City MUA	0906001-012	Replacement of approx 20,000 linear ft of water mains in area bounded by Manila Ave, First St, Brunswick St, and Fifth St. Small portion of Coles St between First St and Columbus Dr also included.	\$16,643,000
503	Lacey Township	1512001-001	Construction of two test wells # 7 and 8	\$2,341,000
502	Lacey Township	1512001-002	Upgrade of WTP to make wells # 7 and 8 operational	\$3,100,000
350	Lake Glenwood Village	1922010-002	Installation of 7,100 LF of 6-inch Cement Lined Ductile Iron Pipe replacement water mains	\$762,000
421	Lake Glenwood Village	1922010-003	Installation of a new 8,000 gal. underground concrete water storage tank	\$77,000
349	Lake Glenwood Village	1922010-004	Replacement of 1,000 LF of water mains on Cliffside, Toboggan & Lakeshore	\$110,000
481	Lake Glenwood Village	1922010-005	New well #8 for upper system	\$168,000
280	Lake Glenwood Village	1922010-006	Replacement of 13,767 LF of water mains in system.	\$1,568,000
68	Lake Glenwood Village	1922010-007	New central WTP to treat all wells , new wells with piping and pumps and disinfection tank	\$686,000
8	Lake Glenwood Village	1922010-008	Resolution for wells #1 and 2 to correct significant deficiency of GWR; well/treatment upgrades or new wells.	\$739,000



201	Lakewood Township MUA	1514002-012	Installation of a new storage tank	\$153,000
406	Lakewood Township MUA	1514002-013	Installation of SCADA	\$191,000
464	Little Egg Harbor MUA	1516001-003	Construction of a new WTP to improve capacity of wells and for resiliency of system	\$4,572,000
99	Little Egg Harbor MUA	1516001-004	Replace existing 6,281 LF of old water mains with new 6" and 8" PVC pipe at Twin Lakes	\$1,520,000
465	Little Egg Harbor MUA	1516001-500	Replacement of existing wooden sections of water treatment plant building with concrete masonry unit walls to prevent flooding	\$689,000
170	Long Beach Township	1517001-500	Demolish and replace damaged pump room @ Beach Haven Terrace WTP	\$3,062,000
171	Long Beach Township	1517001-501	Demolish and replace damaged pump room @ Brant Beach	\$1,263,000
233	Long Beach Township	1517001-502	Replace deteriorated raw water concrete reservoir with a new above ground steel tank; demolish and construct the filter room to 500-yr flood elevation; raise Well #4 to 500-yr flood elevation and construct a new building with emergency generator	\$2,808,000
123	Long Beach Township (Brant Beach)	1517001-012	Rehabilitation of four storage tanks-Beach Haven Terrace, Brant Beach, Holgate & Pehala Park	\$1,523,000
97	Long Beach Township (Brant Beach)	1517001-013	Replacement of water mains	\$3,556,000
468	Lower Township MUA	0505002-001	Extension of water mains to service homes that are on private wells	\$7,067,000
469	Lower Township MUA	0505002-002	Installation of well #10	\$2,216,000
268	Lyndhurst Township	0232001-002	Replacement of 1,350 LF of antiquated water mains on Forest Avenue	\$2,585,000
293	Mahwah Township	0233001-003	Interconnection on Campgaw & Pulis Avenues	\$1,939,000
256	Mahwah Township	0233001-005	Installation of emergency generators	\$533,000
113	Mahwah Township	0233001-006	Rehabilitation of Ford Wellfield treatment, pumps & motors, electrical, SCADA and transmission mains	\$6,495,000
522	Mahwah Township	0233001-009	Construction of two new wells	\$914,000
382	Mahwah Township	0233001-010	Rehabilitation of Campgaw elevated storage tank	\$514,000



416	Mahwah Township	0233001-011	Installation of a new Nilson Ave. Booser Pump Station	\$1,972,000
408	Manasquan Borough	1327001-001	Purchase and installation of equipment and software necessary to deploy the Advanced Metering Infrastructure including, but not limited to, base stations, servers, software, training, programming equipment, transmitters, and meters. 3500 meters will be impacted.	\$2,429,000
270	Manasquan Borough	137001-002	Construction of 600 LF of 8 inch waer main on Perrine Blvd to connect two mains and loop the existing system. Improvements to increase resiliency.	\$1,142,000
80	Manchester Township	1518005-001	Water main replacement on Northampton Blvd; Yorkshire Ct water main replacement; Wilbur Ave & Holly Rd intersection water main reconstruction & 10th Ave water main extension	\$312,000
98	Manchester Township	1518005-002	Painting of 1.0 MG elevated storage tank	\$363,000
130	Manchester Township	1518005-003	Installation of an automated meter reading system	\$3,385,000
124	Manchester Utilities Authority	1603001-007	Replace existing booster station at former filter plant with new booster station at Morley and High Mountain in North Haledon	\$1,662,000
203	Manchester Utilities Authority	1603001-008	Slip line 16,000 LF unlined cast iron 16" pipe in High Mountain in Haledon and North Haledon w/ smaller diameter pipe	\$1,662,000
413	Manchester Utilities Authority	1603001-014	Relocate water meters which were connected to provate water main extensions. Relocating these meters to the boundary of Manchester UA to reduce non-revenue water due to peaks.	\$174,000
158	Manchester Utilities Authority	1603001-015	Transfer services to a higher elevation to increase water pressure, approximately 2,700 LF of water mains will be replaced. Retire Manchester Avenue PS and extend 1,500 LF of water mains to increase reliability of water supply. Size to be determined by hydraulic analysis.	\$1,276,000
231	Marlboro Township	1328002-002	Replacement of Harbor Rd WTP	\$12,514,000
381	Marlboro Township	1328002-003	Rehabilitation of the Beacon Hill storage tank	\$1,800,000
500	Marlboro Township	1328002-004	Construction of well 5A as a standby for the existing well 5	\$1,142,000

501	Marlboro Township	1328002-005	Reconstruction of Well 4 located at the Harbor Road WTP	\$762,000
426	Marlboro Township	1328002-501	Purchase of a 1 megawatt portable generator to provide power to either the Harbor Road or Tennent Road WTPs.	\$1,523,000
497	Matawan Borough	1329001-003	Rehabilitate the Borough's two wells	\$312,000
165	Middlesex Water Company	1225001-003	Installation of nanofiltration for hardness removal (North Tingley Lane)	\$2,216,000
166	Middlesex Water Company	1225001-004	Installation of nanofiltration for hardness removal (South Tingley Lane)	\$2,909,000
110	Middlesex Water Company	1225001-016	Cleaning & cement lining of mains (Phase 13)	\$5,681,000
108	Middlesex Water Company	1225001-018	Construction of a 48-inch, 30,000 LF of finished water supply Transmission main from Carl J Olsen WTP to intersect Tices Lane and Old Bridge Turnpike in East Brunswick	\$31,461,000
109	Middlesex Water Company	1225001-019	Replacement of 5,000 LF of 24-inch cast iron mains from Main Street in the Borough of Sayreville across the Raritan River to the City of Perth Amboy.	\$5,958,000
128	Middlesex Water Company	1225001-020	Replace the Tingley Lane pump station	\$13,997,000
225	Middlesex Water Company	1225001-021	Construction of 2 sludge thickeners and a mechanical dewatering building at Carl J. Olson WTP.	\$12,611,000
300	Middlesex Water Company	1225001-022	Construct 5.3 miles of 36" and 48" diameter transmission main as a redundant feed from water treatment plant to distribution system.	\$39,134,000
299	Middlesex Water Company	1225001-023	C/L of 20,000 LF of water main and replacement of 12,000 LF of undersized water main	\$5,681,000
370	Middlesex Water Company	1225001-024	Construct a new 3 mgd interconnection pump station to replace the existing facility where the pumps are below ground. SCADA panels and new tablet type chlorinators will replace the old ones in the new building.	\$3,463,000
371	Middlesex Water Company	1225001-506	Construct a new 2 MG elevated storage tank as the first phase to replace 5 MG groundtank and PS at Eborn due to flood by Sandy Superstorm	\$8,592,000
341	Milford Borough	1020001-001	Replace 3,000 LF with 8-inch water mains on Green, Maple, Orchard, Walnut & Railroad Sts	\$1,116,000

340	Milford Borough	1020001-002	Replace 5,000 LF with 8-inch water mains on Delaware & Ravine Rds to loop system	\$1,959,000
272	Milltown Borough	1212001-001	Cleaning and lining of water mains, replacement of fire hydrants, gate valves and valve boxes in the Borough	\$1,523,000
262	Milltown Borough	1212001-002	Ford Ave Redevelopment-installation of 4,700 LF of water main	\$1,606,000
296	Milltown Borough	1212001-003	Ford Ave Redevelopment-Rehabilitation of storage tank	\$1,142,000
261	Milltown Borough	1214001-004	Cleaning and Lining of mains and construction of 2 water main loops to eliminate dead ends	\$1,610,000
493	Mine Hill Township	1420001-004	Replace water meters	\$320,000
289	Montclair Township	0713001-002	Cleaning & Lining of water mains	\$1,142,000
290	Montclair Township	0713001-003	Replace Transmission Valves	\$990,000
362	Montclair Township	0713001-004	Rehabilitate 2.5 MG & 1.5 MG storage tanks with piping	\$762,000
496	Montclair Township	0713001-006	Redevelop Glenfield Wells	\$762,000
495	Montclair Township	0713001-008	Construction of a Water Treatment Plant and main for Nishuane well #4	\$2,203,000
291	Montclair Township	0713001-010	Replacement of lead service Lines - Phase III	\$1,210,000
523	Montville Township	1421003-001	Installation of 2,300 LF of 8 inch water main and appurtances on Hillcrest and Upper Mountain Avenues	\$495,000
316	Montville Township	1421003-002	Installation of 880 LF of 8 inch water main and a pressure reducing faciity to provide a secondary supply to the Pine Brook Road service area	\$168,000
383	Montville Township	1421003-003	Storage tank rehabilitation, which includes increasing the capacity of 0.25 MG tank to 0.33 MG	\$457,000
521	Mount Laurel Township MUA	0324001-002	Construct a new 4 MGD surface water treatment plant	\$43,500,000
312	Mount Laurel Township MUA	0324001-006	Replacement of 1,460 LF of 8 and 12-inch water main	\$602,000
82	Mountain Shores POA	1414009-001	Replacement of 2,500 LF of water main and installation of 900 LF of water main to connect to Jefferson Twp water system	\$1,400,000
176	National Park Borough	0812001-001	Replacement of a WTP	\$3,272,000
478	National Park Borough	0812001-002	Redevelopment/ Rehabilitation to Well 5 with a new well house	\$142,000
274	National Park Borough	0812001-003	Replacement of 6-inch and 10-inch water main with appurtenances	\$344,000

95	Netcong Borough	1428001-002	Replacement of leaking water mains	\$1,731,000
238	Netcong Borough	1428001-003	Drill new well to meet current demand	\$648,000
96	Netcong Borough	1428001-004	Replacement of 8in water main; replacement of 2in galvanized metal water main with 6in ductile iron main; new valves and fire hydrants; installation of 6in ductile main to connect to existing water main	\$2,351,000
120	Netcong Borough	1428001-005	Roof and Structural repairs to a 1,000,000 Gal in-service reservoir; demolition and removal of out-of-service 500,000 Gal Reservoir	\$926,000
189	Netcong Borough	1428001-006	Replacement of water meters	\$343,000
94	Netcong Borough	1428001-007	replace old deteriorating mains that are failing, replace a section of undersized water main along Rte 46, extend a portion of the existing water main on the south side or Rte 80, replace various fire hydrants and water valves	\$3,554,000
121	Netcong Borough	1428001-008	Rehabilitate existing storage facilities	\$568,000
159	Netcong Borough	1428001-009	Replace custoer meters with automatic meter reading system	\$267,000
39	New Brunswick City	1214001-004	Repairs to 3 pumping stations including replacement of pumps, motors and control systems	\$4,240,000
21	Newark City	0714001-001	Construction of an ozonation facility	\$13,997,000
31	Newark City	0714001-002	Rehab of 42-inch Steel water main including cleaning & lining	\$4,295,000
40	Newark City	0714001-007	Construction of a hydro-electric facility at the pre-treatment plant screen building	\$8,453,000
32	Newark City	0714001-008	Cleaning and lining of water mains, upgrading 4 inch mains to 6 & 8 inch mains, replace old fire hydrants	\$33,577,000
33	Newark City	0714001-009	Replacement of 12,000 Lead service lines	\$40,457,000
77	Newark City	0714001-010	Replacement of 38,234 old water meters in the distribution system. Size ranges from 5/8" to 8"	\$25,904,000
62	Newark City	0714001-011	Rehabilitation of the basculat gate at the Charlotteburgh Reservoir with alarm and control systems	\$2,909,000
1	Newark City	0714001-012	Construction of a cover for the Cedar Grove Reservoir	\$65,867,000
22	Newark City	0714001-013	Removal and disposal of sludge from lagoon	\$4,295,000
102	Newark City	0714001-014	Installation of a SCADA system	\$3,602,000

29	Newark City	0714001-015	Cleaning & lining of 61,000 LF of 6, 8 & 12-inch water mains	\$11,225,000
20	Newark City	0714001-016	Backwash, chlorination system & sludge lagoon upgrades at Pequannock WTP	\$9,365,000
30	Newark City	0714001-017	Upgrade transmission mains to gravity feed 260A Zone to 360 Zone	\$1,838,000
63	Newark City	0714001-500	Standby generators at the Wayne and Clifton pump station	\$1,523,000
282	NJ American Water Co.-Atlantic	0119002-004	Construction of a 1.5 MG elevated tank including water mains	\$3,048,000
414	NJ American Water Co.-Atlantic	0119002-006	Smithville ASR Well	\$1,225,000
357	NJ American Water Co.-Atlantic	0119002-009	Installation of New Water Meters	\$196,000
373	NJ American Water Co.-Atlantic	0119002-010	Replacement of Water Meters	\$492,000
512	NJ American Water Co.-Bridgeport	0809001-001	Beckett Well Replacement	\$613,000
224	NJ American Water Co.-Coastal North System	1345001-005	Replacement of ozone generators at Swimming River WTP	\$580,000
297	NJ American Water Co.-Coastal North System	1345001-006	Rehab of High Service Transmission Main in Middletown	\$7,347,000
447	NJ American Water Co.-Coastal North System	1345001-007	Monterey Iron Removal	\$7,067,000
369	NJ American Water Co.-Coastal North System	1345001-008	Rehab of Newman Springs Pumping Station	\$609,000
298	NJ American Water Co.-Coastal North System	1345001-009	East End Transmission Main Replacement	\$2,020,000
368	NJ American Water Co.-Coastal North System	1345001-010	Sunset Avenue and Monterey Tank Painting	\$914,000
498	NJ American Water Co.-Coastal North System	1345001-011	Drill two additional wells to increase the capacity at Yellowbrook WTP	\$4,898,000
453	NJ American Water Co.-Coastal North System	1345001-014	Installation of New Water Meters	\$147,000
483	NJ American Water Co.-Coastal North System	1345001-015	Replacement of Water Meters	\$1,156,000

460	NJ American Water Co.- Little Falls	1605001-003	Installation of New Water Meters	\$141,000
492	NJ American Water Co.- Little Falls	1605001-004	Replacement of Water Meters	\$1,440,000
429	NJ American Water Co.- Ocean City	0508001-003	Third Street Well Replacement	\$2,909,000
363	NJ American Water Co.- Ocean City	0508001-006	Installation of New Water Meters	\$160,000
407	NJ American Water Co.- Ocean City	0508001-007	Replacement of Water Meters	\$1,524,000
462	NJ American Water Co.- Passaic Basin	0712001-004	Interconnection of Twin Lake and Short Hill Systems	\$914,000
372	NJ American Water Co.- Passaic Basin	0712001-006	Short Hills Tank Painting	\$609,000
302	NJ American Water Co.- Passaic Basin	0712001-008	Replacement of two large valves	\$914,000
455	NJ American Water Co.- Passaic Basin	0712001-014	Installation of New Water Meters	\$262,000
485	NJ American Water Co.- Passaic Basin	0712001-015	Replacement of Water Meters	\$4,931,000
359	NJ American Water Co.- Raritan	2004002-002	Hummocks Tank Painting	\$2,243,000
360	NJ American Water Co.- Raritan	2004002-003	Upgrade or replace existing booster station due to aging and obsolete equipment (Roselle Station)	\$6,980,000
285	NJ American Water Co.- Raritan	2004002-006	36 inch valve replacement at Madison Hill Road	\$267,000
192	NJ American Water Co.- Raritan	2004002-007	Painting of the Raritan Millstone backwash tank at the WTP	\$602,000
361	NJ American Water Co.- Raritan	2004002-008	Prospect Ave Tank (Mountainside) Painting	\$533,000
448	NJ American Water Co.- Raritan	2004002-009	Installation of New Water Meters	\$246,000
470	NJ American Water Co.- Raritan	2004002-010	Replacement of Water Meters	\$2,697,000
405	NJ American Water Co.- Raritan	2004002-500	Raise level of floodwall@ Raritan Millstone	\$31,500,000
410	NJ American Water Co.- Tri County	0327001-008	Installation of a booster station including associated apputenances at Barrington	\$762,000
454	NJ American Water Co.- Tri County	0327001-012	Installation of New Water Meters	\$178,000
484	NJ American Water Co.- Tri County	0327001-013	Replacement of Water Meters	\$9,576,000

486	NJ American Water Co-Mercer	1103002-001	Replacement of Water Meters	\$6,255,000
458	NJ American Water Co-Mt Holly	0323001-003	Installation of New Water Meters	\$11,000
489	NJ American Water Co-Mt Holly	0323001-004	Replacement of Water Meters	\$2,625,000
138	NJ City University/Jersey City	0906001-005	Redevelopment of Brownfield site to the west of the New Jersey City University main campus that includes installation of 6,8 and 12-inch Ductile Iron Pipes	\$1,336,000
314	North Brunswick Township	1215001-002	Replacement of 4 miles of 24 inch water main from the North Brunswick Twp Treatment plant to Finnegan's Lane	\$7,067,000
232	North Brunswick Township	1215001-003	Treatment plant upgrade, which includes replacing the precipitators with upflow clarifiers inside the building, new intake screens, sludge dewatering facilities and a second clear well	\$27,227,000
313	North Brunswick Township	1215001-004	Install 16 inch water main to connect existing Township water mains located both sides of Route 1 to complete a service loop	\$2,160,000
315	North Brunswick Township	1215001-005	Replacement of 2,350 LF of 8 inch water mains on Excelsior and Thalia Streets and Sioux Road	\$1,270,000
393	North Caldwell Borough	0715001-001	Rehabilitate a 1.29 MG steel water tank. Remove and replace 800 feet of existing chain link fence and 16 foot wide gate that encloses the tank	\$716,000
71	North Jersey District WS	1613001-006	Construct a 48 inch by-pass main and rehabilitate the single 70+ yr old 74 inch aqueduct	\$20,612,000
191	North Jersey District WS	1613001-007	Acquisition and integration of the Kearny/Bayonne Transmission main	\$40,457,000
70	North Jersey District WS	1613001-009	Rehab of the Kearny/Bayonne Transmission main	\$7,899,000
51	North Jersey District WS	1613001-012	Improvement of chemical feed equipment, pressure gauges, meters and alarms for increased security measures	\$762,000
13	North Jersey District WS	1613001-013	Construction of a new 50 MGD Bellville Pump Station, purchase the Virginia Street Pump Station and 60-inch transmission mains, modifications to the Virginia Street Pump Station, and construct flow metering stations	\$33,842,000

52	North Jersey District WS	1613001-014	Construction of a 6 MG baffled clearwell and rehab of an existing clearwell to include baffles	\$7,067,000
53	North Jersey District WS	1613001-016	Install 6 Layer Aerators including air piping and appurtenances. Purchase and install one unit of variable speed, oil-free compressor w/ instrumentations	\$1,523,000
107	North Jersey District WS	1613001-018	Security system improvements - Relocation of Wanaque WTP main entrance gate closer to Ringwood Blvd	\$4,232,000
86	North Jersey District WS	1613001-019	(1) Replacement of existing traveling screen, large valves and instrumentation improvements at Ramapo Pump Station (2) Replacement of antiquated electrical equipment at Treatment Plant Raw Water Pump Station	\$16,643,000
54	North Jersey District WS	1613001-020	Rehabilitation of existing WTP including (1) repainting waste washwater storage, surge tank and filter gallery; prevention of stagnation at the Balancing Reservoir (2) Install permanent centrifuge in the existing Residuals Treatment Facility (3) Provide S	\$6,027,000
87	North Jersey District WS	1613001-021	Implementation of alternative energy generation systems including solar collectors and wind energy at the Wanaque TP for reduction of utility power consumption	\$3,602,000
50	North Jersey District WS	1613001-022	Replace Sedimentation basins 5 and 6 with high rate clarifiers-Design Build Project	\$16,769,000
106	North Jersey District WS	1613001-023	Security system improvements (1) Addition of cameras at remote sites, alarm monitoring, fire alarms at Wanaque WTP (2) Communication systems with area police department	\$2,205,000
55	North Jersey District WS	1613001-025	Treatment technique to recycle lagoon discharge to head of plant-design build	\$7,247,000
56	North Jersey District WS	1613001-026	Installation of low lift natural gas pump-design/build	\$12,809,000
57	North Jersey District WS	1613001-027	Expansion of Aeration System-design/build	\$2,291,000
58	North Jersey District WS	1613001-028	Filter building pipe gallery dehumidification and painting-design/build	\$1,864,000
59	North Jersey District WS	1613001-029	Rehabilitation of settling basins 1-4 flocculators-design/build	\$2,867,000



190	North Jersey District WS	1613001-030	Modify and expand central receiving building-design/build	\$922,000
48	North Jersey District WS	1613001-031	Purchase and install new centrifuge at the RTF	\$3,560,000
49	North Jersey District WS	1613001-032	Rehab of treatment facilities: Replacement of chem build roof and electrical generator transfer switch, enclosure of sodium hypochlorite tanks, replacement of bar racks at dam 4, boiler repairs/treatment system, replacement of filter eff valve actuators, replacement of potassium permanganate feed sys, modification of waste wash water basinfor anthracite return prevention, replacement of filter media.	\$3,554,000
103	North Jersey District WS	1613001-033	Updating the Security Infrastructure for NJDWSC to provide an increased security for the treatment facilities and infrastructure. Tasks located within the Orechio Drive complex and numerous outposts including dams, aqueducts, pump stations and remote treatment facilities and shared facilities.	\$3,785,000
104	North Jersey District WS	1613001-034	1)Network Server Replacement 2)Installation of new fire alarm systems in all NJDWSC owned buildings 3) Guardian Blue Early Warning System 4) Lightning Protection 5) Replacement of existing obsolete Genius modules with Genius II Prohinet @RTF	\$1,447,000
84	North Jersey District WS	1613001-035	FS Rehab: Surge Tank Repainting, Wash Water Tank--repainting and filter backwash pump	\$1,523,000
85	North Jersey District WS	1613001-036	PS Rehabs: Lower Gate House Improvement, Repair wall/ Ceiling cracks in Balancing Reservoir, Install new travel screens and instrumentation at Ramapo PS, Replace and automate Wanaque River Passing Flow Control Valve, Rebuild and Rewind motors at low lift pumps 1&6, Low lift PS Alternative Bearing/ Flushing Cooling Water system	\$4,025,000
105	North Jersey District WS	1613001-037	300 kW Backup Generator Feed	\$244,000
11	North Shore Water Association	1904004-001	Resolution of nitrate issue-new well(s) with treatment	\$475,000

355	North Shore Water Association	1904004-002	Replacement of 1,800 LF of water mains	\$419,000
422	North Shore Water Association	1904004-003	Installation of storage tank	\$378,000
10	North Shore Water Association	1904004-004	Drilling of test well(s)	\$183,000
504	Oakland Borough	0220001-001	Construct a backup well 10A when Well 10 is out of service	\$153,000
490	Oakland Borough	0220001-002	Replace 4600 water meters	\$2,632,000
432	Oakland Borough	0220001-003	Install a diesel generator at Well #9	\$153,000
389	Oakland Borough	0220001-004	Replacement of Pump 2 and appertenances in kind at Iroquois Booster Pumping Station	\$115,000
278	Ocean Gate Borough	1521001-001	Replacement of approximately 2,950 LF of water mains.	\$1,034,000
259	Ocean Township	1520001-006	Replacement of undersized water mains in Skippers Cove & Pebble Beach Area	\$2,538,000
260	Ocean Township	1520001-007	Replace failing 4" diameter asbestos cement pipe water main with new 6" DIP and connect into the existing distribution system on Tuscarora Ave and 11th St.	\$1,257,000
366	Ocean Township	1520001-500	Replacement of generator @ well #5 and demolish generator @ Pebble Beach WTP	\$976,000
303	Old Bridge MUA	1209002-002	Replacement of water mains along Lawrence Harbor Road	\$2,355,000
374	Old Bridge MUA	1209002-011	Rehabilitating the Perrine Rd storage tank	\$3,255,000
518	Old Bridge MUA	1209002-012	Upgrade to SCADA system	\$1,283,000
519	Old Bridge MUA	1209002-500	Construction of an emergency fuel depot	\$1,399,000
184	Orange City	0717001-005	Cleaning & Lining of mains	\$2,459,000
375	Parsippany Troy Hills Township	1429001-004	Repainting of 1 MG water storage tank	\$968,000
164	Passaic Valley WC	1605002-009	Replacement of surface water intake facilities on the Passaic River	\$1,218,000
131	Passaic Valley WC	1605002-010	Installation of a back up Wanaque interconnection line	\$1,142,000
2	Passaic Valley WC	1605002-014	Replace the Levine Reservoir, a 19.2 MG uncovered finished water reservoir, with two 2.5 MG covered concrete storage tanks, with 48" piping and a new building with chemical feeds.	\$23,446,000
74	Passaic Valley WC	1605002-015	Replace approximately 200 large antiquated valves	\$2,909,000
133	Passaic Valley WC	1605002-016	Upgrade the interconnection with United WC	\$2,909,000

75	Passaic Valley WC	1605002-017	Installation of 7000 LF of 12-inch main to replace Granite Ave storage tank	\$2,493,000
61	Passaic Valley WC	1605002-018	Upgrade residual treatment process to include belt thickeners	\$7,067,000
76	Passaic Valley WC	1605002-019	Installation of 2200 LF of 12-inch main to connect Eastside Pumping station to Paterson's downtown area	\$914,000
90	Passaic Valley WC	1605002-020	Replacement of Prospect Park storage tank	\$1,218,000
132	Passaic Valley WC	1605002-022	Emergency interconnection upgrade between PVWC and United Water that supply water to the Borough of Lodi	\$2,909,000
89	Passaic Valley WC	1605002-023	Decommissioning of Granite Avenue Tank	\$2,493,000
4	Passaic Valley WC	1605002-024	Phase 1-installation of a 2.0 MG storage tank next to existing Verona storage tank	\$4,253,000
3	Passaic Valley WC	1605002-025	Phase 1-Installation of four 2,500 kW diesel generators with buildings and fuel pumps at the Little Falls WTP; storage tanks	\$22,289,000
219	Paulsboro Borough	0814001-002	Replacement of 2,300 water meters	\$1,340,000
100	Paulsboro Borough	0814001-003	Replace 4inch water main along Thomson Avenue and Wood Street with a new 12 inch water main from Elizabeth Avenue to Commerce Street that will connect two existing 12 inch water mains.	\$1,295,000
223	Pemberton Borough	0328001-001	Replacement of undersized and antiquated water mains on Hough and Handover Streets	\$765,000
12	Pemberton Township	0329004-004	Rehabilitation of Well No. 11 with installation of a radium treatment facility, bringing Well No. 11 back online and into conformance with NJDEP Safe Drinking Water standards.	\$1,142,000
435	Pemberton Township	0329004-005	Drilling of test well #14 to replace well #4. Sealing of well #4.	\$415,000
218	Pemberton Township	0329004-006	Replacement of 4,900 LF of water mains on Ivy, Crescent, No Shore, Peony, Verbena, Sunset & Golf Club Sts	\$623,000
271	Pemberton Township	0329004-007	Rehabilitation of Beech Ave, Trenton Rd & Oak Pines Rd Storage Tanks	\$2,510,000
467	Pemberton Township	0329004-008	Installation of SCADA at wells and storage facilities	\$392,000
436	Pemberton Township	0329004-010	Conversion of test well #14 to production well	\$609,000

337	Pennington Borough	1108001-001	The project consists of the replacement and upgrading of water distribution along Upper King George Road and Park Avenue between their intersection and Eglantine Avenue.	\$1,135,000
320	Pennsville Township	1708001-003	Rehabilitate .25 MG Water Street storage tank	\$229,000
194	Perth Amboy City	1216001-007	Replacement of existing 4 inch water mains throughout the distribution system	\$2,216,000
193	Perth Amboy City	1216001-008	Various 4 inch water main replacements throughout the city's distribution system ranging from 675 LF to 1,275 LF.	\$1,725,000
195	Perth Amboy City	1216001-001	Replacement of undersize water main - Center Street	\$1,813,000
196	Perth Amboy City	1216001-002	Replacement of undersize water main - State Street	\$3,588,000
197	Perth Amboy City	1216001-003	Cleaning & Lining of water mains-Central bussiness District	\$1,523,000
140	Perth Amboy City	1216001-006	Sandblast & paint aerator, clarifiers, lime silos & dust collectors @ WTP	\$914,000
305	Perth Amboy City	1216001-500	Installation of a new standby generator for Runyon WTP	\$2,708,000
186	Phillipsburg Redevelopment Authority/Aqua NJ - Phillipsburg	2119001-006	Installation of 5,300 LF of 8 and 12-inch water mains for a brownfield site	\$3,045,000
494	Pine Beach Borough	1522001-001	Replacement of meters townwide to electronic read meters	\$960,000
508	Pine Beach Borough	1522001-002	Replacement of well #1	\$480,000
142	Pine Hill MUA	0428002-001	Construction of GAC filtration system for removal of IPMP - Critical Area #2	\$381,000
247	Plausha Park Water Co	1421004-001	Install chemical feed, safety upgrades and replace the ramp and piping at the well/treatment facility	\$176,000
352	Plausha Park Water Co	1421004-002	Replacement of main at stream crossing, valves and installing blow off hydrants	\$129,000
403	Plausha Park Water Co	1421004-003	Rehabilitation of concrete storage facility including security measures and instrumentation	\$183,000
384	Point Pleasant Borough	1524001-001	Replacement of the Clifton Ave storage tank	\$1,477,000
325	Pompton Lakes MUA	1609001-001	Abandonment of Cannonball Rd main and installation of insertion valves throughout system	\$220,000
391	Pompton Lakes MUA	1609001-002	Rehabilitation of the exterior of the existing 1.0 MG tank	\$258,000

236	Pompton Lakes MUA	1609001-003	Replacement of gas chlorination system with solid tablet chlorination system	\$98,000
433	Pompton Lakes MUA	1609001-004	Installation of emergency generator at wells	\$267,000
390	Pompton Lakes MUA	1609001-005	Replacement of water storage tanks with a 1.0 MG tank	\$1,365,000
163	Rahway City	2013001-007	Rahway Water Treatment Plant Filter System Upgrade to membrane filtration & new interconnection with MWCo	\$18,084,000
415	Rahway City	2013001-008	Construction of new interconnection with Middlesex WC	\$2,770,000
255	Rahway City	2013001-001	Cleaning & Lining of various water main sections	\$1,371,000
254	Rahway City	2013001-002	Cleaning & Lining of various water main sections	\$1,662,000
292	Rahway City	2013001-004	Repainting of 1.5 MG elevated & 0.5 MG watersphere water tanks	\$1,142,000
151	Ramsey Board of Public Utilities	0248001-001	Construction of mains (Rte 17, Grant & Airmount)	\$2,479,000
152	Ramsey Board of Public Utilities	0248001-002	Replacement of mains (Carol & Maple)	\$1,994,000
153	Ramsey Board of Public Utilities	0248001-003	Construction of mains (Rte 17, Snyder & Airmount)	\$1,500,000
154	Ramsey Board of Public Utilities	0248001-004	Construction of mains (Lakeview & Airmount)	\$1,211,000
187	Ramsey Board of Public Utilities	0248001-005	Rehabilitation of Airmount reservoir	\$573,000
364	Ramsey Board of Public Utilities	0248001-006	Rehabilitate Dixon, Martis & Spring wells	\$381,000
365	Ramsey Board of Public Utilities	0248001-007	Construction of 2 wells with pump station & piping	\$4,420,000
25	Ramsey Board of Public Utilities	0248001-009	Arsenic treatment system at the Spring Street Treatment Facility	\$685,000
317	Ramsey Board of Public Utilities	0248001-014	Replacement of North Central Ave water main	\$105,000
234	Ramsey Board of Public Utilities	0248001-015	Installation of chlorine analyzers and pipe improvements to upgrade disinfection system at various facilities	\$672,000
263	Richard Stockton College of NJ	0111304-001	Installation of solar power at water treatment plant	\$1,036,000
487	Ridgewood Village	0215001-024	Replacement of 14,629 water meters with radio frequency meters	\$6,007,000
237	Ringwood Borough	1611002-001	Installation of chlorination station, automatic controls & protection of pipe	\$411,000
329	Ringwood Borough	1611002-002	Replacement of undersized water mains	\$990,000

343	Roosevelt Borough	1341001-001	Cleaning and lining of 8,900 LF of 6 & 8 inch water mains	\$664,000
243	Roosevelt Borough	1341001-004	Upgrades to water treatment plant, including new 240/480 volt electrical service, replacement of pumps and electrical equipment and improvements to aerator.	\$564,000
242	Roosevelt Borough	1341001-005	Upgrades to water treatment plant, including new 240/480 volt electrical service and upgrades to electrical equipment and security improvements	\$375,000
351	Rosemont Water Company	1007002-002	Rehabilitate and/or replace existing distribution mains	\$551,000
402	Rosemont Water Company	1007002-003	Replace existing underground hydro-pneumatic tank with ground level storage tank	\$60,000
321	Saddle Brook Township	0257001-001	Construction of 1,200 LF of 8-inch water mains	\$708,000
28	Saddle Brook Township	0257001-002	Main replacement and looping to resolve low chlorine residual	\$1,995,000
188	Salem City	1712001-002	Installation of a new well to enable withdrawing GW at diversion rate since existing wells do not run at capacity	\$198,000
65	Salem City	1712001-003	Upgrades to WTP to address taste and odor problems	\$6,374,000
380	Sayreville Borough	1219001-002	Rehabilitate the pump station facility and surface intake on the South River located in Sayreville	\$457,000
379	Sayreville Borough	1219001-003	Rehabilitate existing 3 MG tank	\$3,549,000
310	Sayreville Borough	1219001-004	Rehabilitate existing unlined cast iron water mains in several areas of Sayreville	\$7,067,000
520	Sayreville Borough	1219001-005	Construct new transmission mains in the northeast section of the Borough	\$1,502,000
311	Sayreville Borough	1219001-006	Construct new water main along Washington Road	\$976,000
309	Sayreville Borough	1219001-008	Clean and line water mains in several sections of the Borough	\$2,867,000
19	Sea Village Marina	0108021-002	Installation of 4,500 LF of water main to connect with NJAWCo to resolve a contaminated source issue in accordance with ACO	\$1,202,000
517	Somerset County Improvement Authority/NJAWCo	0712001-013	Installation of water mains at redevelopment project	\$1,525,000

479	Sparta Township Water Utility	1918003-001	Installation of a water main interconnection (8 inch - 5,000 ft) between the Highlands water system and the Sunset Lakes water system to supplement water demands during summer	\$619,000
386	Sparta Township Water Utility	1918004-001	Installation of a 600 KW wind turbine generator at Germany Flats Water Utility	\$1,454,000
27	Sparta Township Water Utility	1918004-003	Installation of uranium treatment equipment at two of the existing Autumn Hill well house (Well 1 and Well 2)	\$397,000
334	Spotswood Borough	1224001-001	Cleaning and lining of approximaty 3,600 LF of water mains	\$609,000
281	Stafford Township	1530004-014	Construction of 2,600 LF of 8 and 12-inch water main on Rte 9 and Oak Ave	\$742,000
283	Stafford Township	1530004-015	Redevelopment of wells # 2 and 5	\$139,000
117	Stafford Township	1530004-016	Installation of 5,000 LF of main under the GSP as secondary crossing	\$4,295,000
116	Stafford Township	1530004-017	Replacement of 1,600 LF of water main on Charles Blvd	\$553,000
118	Stafford Township	1530004-018	Replacement of water main with 12" on Mill Creek Road	\$2,315,000
253	Stafford Township	1530004-019	Replacement of water main with 12 inch DIP on Mill Creek Road between Jonathon Drive and the water treatment plant, Phase II	\$1,805,000
399	Stillwater Twp District #1	1920001-002	Painting interior of water tank	\$61,000
200	Stone Harbor Borough	0510001-005A	Replacement of water mains on 83rd, 84th, 85th, 86th, 87th, 88th and 89th streets	\$791,000
144	Sussex Borough	1921001-001	Water Treatment Plant upgrades	\$127,000
221	Sussex Borough	1921001-002	Replacement of 75 year old water mains	\$1,517,000
251	Towne Centre - Cliffside Park	0238001-001	Construction of water mains for a brownfield redevelopment project - Towne Centre	\$800,000
185	Towne Centre - Garfield	0221001-006	Construction of water mains for a brownfield redevelopment project - Towne Centre	\$807,000
178	Towne Centre - Passaic	1605002-009	Construction of water mains for a brownfield redevelopment project - Towne Centre	\$762,000
358	Trenton City	1111001-007	Construction of an emergency interconnection with NJAWCo comprising of 33,000 LF of 12, 16 and 24 inches of transmission main	\$17,966,000



179	Trenton City	1111001-008	Cleaning and lining of 4-12 inch water mains, replace 4 inch main-phase 1	\$13,048,000
180	Trenton City	1111001-010	Cleaning and lining of 4-12 inch water mains, replace 4 inch main-phase 2	\$12,724,000
126	Tuckerton Borough	1532002-003	Rehabilitation of the 1.5 MG storage tank	\$1,318,000
73	Tuckerton Borough	1532002-004	Rehabilitation of three green sand filter tanks and one backwash tank	\$166,000
101	Tuckerton Borough	1532002-005	Replacement of 5,000 LF of water mains	\$1,299,000
524	United Water /Franklin Lakes Twp	0220001-001	Construction of about 3,600 LF of 8 inch water main in the vicinity of Birch Road which currently has private wells	\$990,000
18	Upper Deerfield Twp	0613004-001	Radium Treatment Removal for Love Lane WTP (wells # 3 & 4)	\$3,186,000
202	Ventnor City	0122001-001	Clean and line 8 and 14" water mains	\$2,100,000
417	Verona Township	0720001-003	Construction of a new Fairview Ave tank	\$2,909,000
388	Verona Township	0720001-004	Acquisition of the ECUA Jail Annex tank plus rehab and upgrading of the tank	\$762,000
387	Verona Township	0720001-005	Rehabilitation of the 2 MG Fairview Avenue storage tank	\$1,052,000
161	Vineland City	0614003-007	Replacement of 1.4 miles of 8-inch with 10 - inch water mains	\$1,662,000
160	Vineland City	0614003-008	Replacement of 2,300 LF of 8-, 10- and 12-inch water mains	\$533,000
162	Vineland City	0614003-009	Construction of .4 miles of 12-inch water mains to loop dead ends and enhance water pressure	\$305,000
115	Vineland City	0614003-012	Upgrades to well #4 water treatment plant including a new air stripping tower	\$1,152,000
114	Vineland City	0614003-013	Upgrades to the existing water treatment plant at well #13 with new replacement well #18. Decommission well #13.	\$5,681,000
266	Vineland City	0614003-014	Installation of gas generators at wells #4,6,7,8,10,11 and 12	\$2,276,000
150	Wall Township	1352003-001	Installation of 4,700 LF of 12 inch DIP and 1,200 LF of 8inch DIP in four sections of Rte 138 where gaps exist in water system.	\$1,391,000
149	Wall Township	1352003-002	Installation of 10,000 LF of 12 inch DIP and 300 LF of 8 inch DIP in three sections of Rte 34 and two sections in Wyckoff Rd where gaps in water system exist.	\$2,742,000
324	Wallington Borough	0265001-001	Replacement of 6-inch mains with 8-inch mains	\$1,933,000



328	Wanaque Borough	1613002-002	Replacement of approximately 6,000 feet of water main and services on Ringwood Avenue	\$2,086,000
425	Washington Township MUA	0818004-008	Installation of solar system for wells # 18, 19 & 20	\$972,000
307	Washington Township MUA	0818004-009	Existing 8inch water main to be replaced with proposed 10 inch main with Shoppers Lane and vicinity. 1,500 LF total.	\$678,000
377	Washington Township MUA	0818004-010	Pump house at Well 2 needs to be replaced as it is antiquated and in need of major improvement. The existing structure on the site will be replaced as well as the existing electrical systems and components and controls. At Well 8, the pumping equipment is located outdoors and raw water is treated within the old well house adjacent to it. The new well house will provide protection to the existing equipment from outdoor elements and security.	\$1,828,000
378	Washington Township MUA	0818004-011	Painting of a 3MG elevated water storage tank on the interior and exterior.	\$4,628,000
424	Washington Township MUA	0818004-012	Security cameras at various well houses and office building and protective glass.	\$115,000
229	Washington Township MUA	0818004-013	Proposed water treatment plant will include filtration to reduce aluminum and iron concentrations and is necessary in order to place Well 21 into service.	\$1,043,000
127	Waterford Township MUA	0435003-001	New water mains for Maximum Contaminant Level violations: Jackson Rd., Third St., Gardens Ave., Carolyn Ave., Murray Hill Dr., Denver Ave., Clifford Ave.	\$2,169,000
304	Wayne Township	1614001-001	Replacement of 2400 LF of 8-inch water main and 2000 LF of 12-inch water main - Farmingdale Area	\$1,662,000
385	West Caldwell Township	0721001-001	Rehabilitation of McKinley Ave storage tank	\$735,000
244	West Milford MUA-Awosting System	1615012-001	Well #1 WTP upgrades	\$180,000
443	West Milford MUA-Awosting System	1615012-002	Replace Generator	\$119,000
513	West Milford MUA-Awosting System	1615012-003	rehabilitation of well	\$138,000
345	West Milford MUA-Awosting System	1615012-004	Replace Fire Hydrants	\$26,000
241	West Milford MUA-Bald Eagle System	1615018-001	Concorde & Quincy WTP upgrades	\$494,000

441	West Milford MUA-Bald Eagle System	1615018-002	Replace Generator	\$92,000
511	West Milford MUA-Bald Eagle System	1615018-003	rehabilitation of well	\$101,000
342	West Milford MUA-Bald Eagle System	1615018-004	Replace Fire Hydrants	\$54,000
248	West Milford MUA-Birch Hill System	1615001-001	Moore Rd WTP upgrades	\$221,000
445	West Milford MUA-Birch Hill System	1615001-002	Replace Generator	\$92,000
514	West Milford MUA-Birch Hill System	1615001-003	rehabilitation of well	\$92,000
353	West Milford MUA-Birch Hill System	1615001-004	Replace Fire Hydrants	\$10,000
442	West Milford MUA-Crescent Park System	1615014-001	Replace Generator	\$119,000
344	West Milford MUA-Crescent Park System	1615014-002	Replace Fire Hydrants	\$26,000
245	West Milford MUA-Greenbrook Estates System	1615002-001	Well #28 WTP Upgrades	\$268,000
444	West Milford MUA-Greenbrook Estates System	1615002-002	Replace Generator	\$92,000
346	West Milford MUA-Greenbrook Estates System	1615002-003	Replace Fire Hydrants	\$26,000
240	West Milford MUA-Olde Milford System	1615016-001	Wells #1,6 & 7 WTP upgrades	\$546,000
438	West Milford MUA-Olde Milford System	1615016-002	Replace Generator	\$119,000
509	West Milford MUA-Olde Milford System	1615016-003	rehabilitation of well	\$201,000
339	West Milford MUA-Olde Milford System	1615016-004	Replace Fire Hydrants	\$71,000
249	West Milford MUA-Parkway System	1615006-001	Well #6 WTP Upgrades	\$390,000
446	West Milford MUA-Parkway System	1615006-002	Replace Generator	\$39,000
515	West Milford MUA-Parkway System	1615006-003	rehabilitation of well	\$101,000

354	West Milford MUA-Parkway System	1615006-004	Replace Fire Hydrants	\$10,000
79	Wildwood City	0514001-002	Replacement & looping of water mains in Wildwood Crest	\$2,657,000
92	Willingboro MUA	0338001-002	Replacement of 56,000 LF of 6 and 8-inch mains-Twin Hills	\$10,590,000
91	Willingboro MUA	0338001-003	Replacement of 6 & 8 inch mains in Rittenhouse section	\$2,335,000
69	Willingboro MUA	0338001-005	Replacement of electrical, distribution equipment and generator at well # 6 WTP	\$797,000
7	Willingboro MUA	0338001-009	Construction of radium and gross alpha removal treatment facility from raw water at existing Well 5A site.	\$3,883,000
141	Willingboro MUA	0338001-010	Installation of generator at three wells	\$817,000
167	Winslow Township	0436007-003	New 1.0 MG finished water storage tank	\$1,523,000
288	Winslow Township	0436007-004	Install appurtenances associated with new well #12 (SCADA, well house, transmission mains)	\$2,619,000
287	Winslow Township	0436007-005	Install new 500 GPM well #12	\$349,000
15	Winslow Township	0436007-006	Add radium removal treatment at existing wells 1 and 8 to correct Maximum Contaminant Level violations	\$7,002,000
14	Winslow Township	0436007-008	The project will include installation of a WRT Z-88 media, radium removal treatment for well #1. The well has experienced exceedances in the MCL for Radium 226,228 and Gross Alpha.	\$2,702,000
449	Winslow Township	0436007-009	Winslow has experienced numerous water service breaks through the years in the Eden Hollow, and Arbor Meadows community within the Township. The intent is to replace the 379 water services, and new meter located at the curb line in a meter pit.	\$3,597,000
404	Wonder Lake Properties, Inc.	1615017-003	Replace hydropneumatic tank and install new tank	\$95,000
525	Woodland Park Borough	1616001-001	Extension of water mains to service homes that are on private wells	\$2,535,000

## **Appendix F**

### **Project Eligibility Guidelines for Sandy Clean Water NJEIPF Loans**

#### **1. Projects that prevent interruption of collection system operation in the event of a flood or natural disaster, including but not limited to:**

- a. Physical “hardening” or waterproofing of pumps and electrical equipment at pump stations and other components of collection systems (including storage facilities and associated equipment) through upgrade or replacement, including:
  - Installation of submersible pumps
  - Waterproofing electrical components (e.g. pump motors)
  - Waterproofing circuitry
  - Dry floodproofing/sealing of structure to prevent floodwater penetration
  - Installation/construction of wind resistant features (e.g. wind resistant roofing materials, wind-damage resistant windows, storm shutters)
- b. Relocation of pump stations or other collection system facilities to less flood prone areas
- c. Installation of physical barriers around pump stations or other collection system facilities (e.g. levies or dykes)
- d. Installation of back-up generators or alternative energy sources (including switch boxes) that service pump stations or other collection system facilities
- e. Correction of significant infiltration and inflow problems that increase the likelihood of sewer backups or flooding of a treatment works
- f. Separation of combined sewers that will result in a reduced risk of flooding of the collections system and/or treatment works
- g. Installation/construction of redundant collection system components and equipment
- h. Regionalization project that enables diversion of wastewater flows to an alternate system for emergency wastewater collection and treatment services
- i. SCADA system projects to allow remote or multiple system operation locations
- j. Replacement of damaged equipment with more energy efficient equipment
- k. Construction or installation of flood attenuation, diversion, and retention infrastructure within or beyond the boundaries of a treatment works that protects the collection system
  - Green infrastructure that reduces flood risk by reducing stormwater runoff, including permeable pavement, green roofs and walls, bioretention infrastructure (e.g. constructed wetlands, detention basins, riparian buffers, or stormwater tree trenches/pits/boxes), stream daylighting, and downspout disconnection
  - Natural systems, and features thereof, capable of mitigating a storm surge, such as barrier beach and dune systems, tidal wetlands, living shorelines, and natural berms/levees
  - Flood water pumping systems
  - Flood water channels/culverts, physical barriers, and retention infrastructure

#### **2. Projects that prevent floodwaters from entering a treatment works, including but not limited to:**

- a. Installation of physical barriers around a facility (e.g. levies or dykes around the facility to prevent flooding)
- b. Relocation of facilities to less flood prone areas
- c. Construction or installation of flood attenuation, diversion, and retention in infrastructure within or beyond the boundaries of a treatment works that protects the treatment works
  - Green infrastructure that reduces the risk of flooding by reducing stormwater runoff, including permeable pavement, green roofs and walls, bioretention infrastructure (e.g. constructed wetlands, detention basins, riparian buffers, or stormwater tree trenches/pits/boxes), stream daylighting, and downspout disconnection
  - Natural systems, and features thereof, capable of mitigating a storm surge, such as barrier beach and dune systems, tidal wetlands, living shorelines, and natural berms/levees
  - Floodwater pumping systems
  - Flood water channels/culverts, physical barriers, and retention infrastructure

**3. 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, including but not limited to:**

- a. Physical “hardening” or waterproofing of pumps and electrical equipment at treatment works through upgrade or replacement, including:
  - Installation of submersible pumps
  - Waterproofing electrical components (e.g. pump motors)
  - Waterproofing circuitry
  - Dry floodproofing/sealing of structure to prevent floodwater penetration
  - Installation/construction of wind resistant features (e.g. wind resistant roofing materials, wind-damage resistant windows, storm shutters)
- b. Relocation of critical equipment to less flood prone areas of a facility and/or elevation of critical structures
- c. Installation of physical barriers around individual treatment processes
  - Flood walls around treatment tanks
  - Elevated walls or capping of treatment tanks
- d. Installation of larger capacity storage tanks
  - Installation of larger capacity chemical storage tanks for continued treatment in absence of delivery service
  - Installation of larger capacity fuel storage tanks for back-up generators
  - Construction of storage tanks at treatment works to store overflows for future treatment
- e. Installation of back-up energy supply or alternative energy sources and/or hardening of existing connections to the power grid
- f. Installation/construction of redundant components and equipment
- g. Replacement of damaged equipment with more energy efficient equipment
- h. SCADA system projects to allow remote or multiple system operation locations

- 4. Projects that preserve and protect treatment works equipment in the event of a flood or natural disaster, including but not limited to:**
  - a. Relocation of critical equipment to less flood prone areas of a facility and/or elevation of critical structures
  - b. Prevention of saltwater damage to materials and equipment
    - Installation of salt water resistant chemical storage tanks
    - Installation of salt water resistant fuel storage tanks
    - Installation of salt water resistant equipment and appurtenances
- 5. 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, including but not limited to:**
  - a. Risk/vulnerability assessments considering recent floodplain maps and projected sea level rise
  - b. Alternatives analysis
  - c. Asset Management Plans, Emergency Preparedness, Response, and Recovery Plans

## **Appendix G**

### **Project Eligibility Guidelines for Sandy Drinking Water NJEIFP Loans**

**1. Projects that prevent interruption of water distribution system operation in the event of a flood or natural disaster, including but not limited to:**

- a. Physical "hardening" or waterproofing of pumps and electrical equipment at pump stations and other components of distribution systems (including storage facilities and associated equipment) through upgrade or replacement including:
  - Waterproofing electrical components (e.g. pump motors)
  - Waterproofing circuitry
  - Dry floodproofing/sealing of structure to prevent floodwater penetration
  - Installation/construction of wind resistant features (e.g. wind resistant roofing materials, wind-damage-resistant windows, storm shutters)
- b. Relocation of pump stations or other distribution system facilities to less flood prone areas
- c. Installation of physical barriers around pump stations or other distribution system facilities (e.g. levies or dykes)
- d. Installation of back-up generators or alternative energy sources (including switch boxes) that service pump stations or other distribution system facilities
- e. Installation/construction of redundant distribution system components and equipment
- f. Construction of interconnections with neighboring water systems which could provide an emergency water supply
- g. SCADA system projects to allow remote or multiple system operation locations
- h. Replacement of damaged equipment with more energy efficient equipment
- i. Construction or installation of flood attenuation, diversion, and retention infrastructure associated with an otherwise eligible drinking water project that protects the distribution system
  - Green infrastructure that reduces the risk of flooding by reducing stormwater runoff including permeable pavement, green roofs and walls, bioretention infrastructure (e.g. constructed wetlands, detention basins, riparian buffers, or stormwater tree trenches/pits/boxes), stream daylighting, and downspout disconnection
  - Natural systems, and features thereof, capable of mitigating a storm surge, such as barrier beach and dune systems, tidal wetlands, living shorelines, and natural berms/ levees
  - Floodwater pumping systems
  - Flood water channels/culverts, physical barriers, and retention
  - infrastructure

**2. Projects that prevent floodwaters from entering a treatment plant or well house, including but not limited to:**

- a. Installation of physical barriers around a facility (e.g. levies or dykes around the facility to prevent flooding)
- b. Relocation of facilities to less flood prone areas
- c. Construction or installation of flood attenuation, diversion, and retention infrastructure associated with an otherwise eligible drinking water project that protects the treatment plant
  - Green infrastructure that reduces the risk of flooding by reducing stormwater runoff, including permeable pavement, green roofs and walls, bioretention infrastructure (e.g. constructed wetlands, detention basins, riparian buffers, or stormwater tree trenches/pits/boxes), stream daylighting, and downspout disconnection
  - Natural systems, and features thereof, capable of mitigating a storm surge, such as barrier beach and dune systems, tidal wetlands, living shorelines, and natural berms/levees
  - Floodwater pumping systems
  - Flood water channels/culverts, physical barriers, and retention infrastructure

**3. Projects that maintain the operation of a drinking water treatment plant, intake or well in the event of a flood or natural disaster, including but not limited to:**

- a. Physical "hardening" or waterproofing of pumps and electrical equipment at pump stations and other components of distribution systems (including storage facilities and associated equipment) through upgrade or replacement, including:
  - Waterproofing electrical components (e.g. pump motors)
  - Waterproofing circuitry
  - Dry floodproofing/sealing of structure to prevent floodwater penetration
  - Installation/construction of wind resistant features (e.g. wind resistant roofing materials, wind-damage-resistant windowsstorm shutters)
- b. Relocation of critical equipment to less flood prone areas of a facility and/or elevation of critical structures
- c. Installation of physical barriers around individual treatment processes
  - Flood walls around treatment tanks
  - Elevated walls or capping of treatment tanks (e.g. tanks, vaults)
- d. Installation of larger capacity storage tanks
  - Installation of larger capacity chemical storage tanks for continued treatment in absence of delivery service
  - Installation of larger capacity fuel storage tanks for back-up generators
  - Installation of larger capacity water storage facilities (e.g. raw water reservoirs, backwash tanks, contact basins)



- e. Installation of back-up energy supply or alternative energy sources and/or hardening of existing connections to the power grid
- f. Installation/construction of redundant distribution system components and equipment
- g. Replacement of damaged equipment with more energy efficient equipment
- h. SCADA system projects to allow remote or multiple system operation locations

**4. Projects that preserve and protect water system equipment in the event of a flood or natural disaster, including but not limited to:**

- a. Relocation of critical equipment to less flood prone areas of a facility and/or elevation of critical structure
- b. Prevention of saltwater damage to materials and equipment
  - Installation of salt water resistant chemical storage tanks
  - Installation of salt water resistant fuel storage tanks
  - Installation of salt water resistant equipment and appurtenances

**5. 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, including but not limited to:**

- a. Risk/vulnerability assessments considering recent floodplain maps and projected sea level rise
- b. Alternatives analysis
- c. Asset Management Plans, Emergency Preparedness, Response, and Recovery Plans

## **Appendix H**

### **Project Eligibility Guidelines for Sandy Drinking Water NJEIFP Loans**

#### **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. Note: this guidance does not address 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 at (609) 292-5550;
- Clean Water Projects: The Assistant Director of the Municipal Finance and Construction Element in the Division of Water Quality, 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 NJEIPF 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 I**  
**Clean Water Projects Financed in SFY2014**

<b>Sponsor</b>	<b>Project No.</b>	<b>Description</b>	<b>Total</b>
Atlantic Highlands Borough	S340857-03A	Sewerage Force Main Replacement	\$1,486,500
Borough of Bellmawr	S340337-03	Various Sewer Improvements	\$648,123
Burlington County	S340818-06	Stormwater Enhancement Projects	\$2,981,770
Burlington Twp.	S340712-11	Sanitary Sewer Rehab in Var. Locations	\$742,370
Burlington Twp.	S340712-12	Sanitary Sewer Jet Vactor Truck	\$397,500
Chatham Twp.	S340403-07	Sanitary Sewer System Modifications	\$5,463,201
Delran Twp.	S340794-07	Delran Wastewater Treat Plant Improv.	\$1,959,400
Evesham Mun. Util. Auth.	S340838-04	Woodstream/Elmwood WWTP Improv.	\$1,589,958
Evesham Mun. Util. Auth.	S340838-05	Wastewater Treatment Plant Upgrades	\$2,706,138
Ewing-Lawrence SA	S340391-10	WWTP Improvements Project	\$23,543,865
Fanwood Borough	S340429-01	Glenwood Ave. Area Drainage Improv.	\$1,369,674
Gloucester City	S340958-05	Various Sanitary Sewer Improv.	\$1,340,290
Gloucester Twp.	S340364-10	Stormwater Improvements	\$1,564,341
Hamilton Twp. Mun. Util. Auth.	S340903-04	Pump Station Upgrades	\$953,000
Hammonton Town	S340927-05	Pratt/Packard/2 <sup>nd</sup> St. Swr. Rehab	\$3,651,767
Hanover Sewerage Authority	S340388-05	Rehab of Primary Digester #2	\$8,892,400
Highlands Borough	S340857-03B	Sewerage Force Main Replacement	\$1,632,800
Jersey City Mun. Util. Auth.	S340928-12	Newark/SIP/Trenton Sewer Rehab	\$9,265,000
Long Beach Twp.	S340023-05	Sewer Main Replacement	\$3,160,000
Long Beach Twp.	S344170-02	(BB) DPW Yard Non-Point Source Strmwater	\$576,173
Long Hill Twp.	S340404-06/08	STP (I/I Corr) & STP (UV Disinfect. Syst)	\$3,364,000
Maple Shade Twp.	S340710-08	WWTP Improvements	\$1,817,142
Middlesex County Util. Auth.	S340699-10	Main Trunk Sewer Rehab – Phase I	\$5,624,702
Newark City	S340815-05-1	CSO Abatement	\$2,428,440
Newark City	S340815-21	Phase –VI (H) Sewer Rehab	\$10,393,000
North Bergen MUA	S340652-13	Woodcliff Plant Improvements	\$5,753,033
Northwest Bergen County UA	S340700-09-1	Franklin Lakes Bus. District Sanit. Swr.	\$575,000
Ocean County	S344080-05	(BB) – Twilight Lake Dredging	\$2,621,000
Ocean County Util. Auth.	S340372-48	Areawide Biosolids Mgt Plan	\$15,800,000
Ocean Gate Borough	S340151-01	San. Sewer Rehab & I/I	\$232,559
Ocean Twp.	S340112-03-1	Replace ACP Swr Main Hornblower Dr.	\$389,848
Ocean Twp.	S340112-04	Sewer Improvements – Montclair Rd.	\$366,182
Palmyra Borough	S340030-04	Sludge Thickening & Odor Control Proj.	\$3,549,000

Passaic Valley SC	S340689-03-1	EPS & WWPS Electrical Improvements	\$9,710,590
Passaic Valley SC	S340689-10-1	Contract A315 Phase IV Sewer	\$12,464,493
Passaic Valley SC	S340689-20	Boiler Upgrade & Obtaining Exemption	\$4,427,819
Passaic Valley SC	S340689-21	Kearny/Harrison/Newark Branch Intercept.	\$1,176,000
Perth Amboy City	S340435-10	Collection System Component Improv.	\$2,278,337
Phillipsburg Town	S340874-05	WWTP Expansion & Outfall Relocation	\$7,810,000
Pine Hill Bor. Mun. Util. Auth.	S340274-04	Atlantic Ave. Pump Station	\$666,666
Point Pleasant Borough	S340428-01	Rehab Meadow Pt. Rd. & Bradley Rd. PS	\$1,644,646
Toms River Mun. Util. Auth.	S340145-03	Gravity, Sewer, Manhole & FM Improv.	\$1,240,688
Toms River Mun. Util. Auth.	S340145-04	Sewage Pump Station Upgrades	\$3,082,302
Warren County MUA	S340454-04	Oxford Area WWTP Upgrade	\$11,665,144
Watchung Borough	S340823-02	San Sewer Ext Johnston Dr./Bonnie Burn	\$1,219,343
Willingboro Mun. Util. Auth.	S340132-04	WWTP & Collection System Improvements	\$2,031,627
Willingboro Mun. Util. Auth.	S340132-05	WWTP & Collection System Improvements	\$1,122,504
<b>Projects: 47</b>		<b>Total SFY2014 Clean Water</b>	<b>\$187,378,335</b>

**Appendix J**  
**Drinking Water Projects Financed in SFY2014**

Sponsor	Project No.	Description	Total
Berkeley Twp MUA	W1505004-006	New WM to homes serviced by private wells	\$1,000,000
Berkeley Twp. MUA	1505004-006	Install 10,000 LF of water mains	\$680,009
Boonton Town	W1401001-002	Replacement of Green Street Tank	\$767,479
Brielle Borough	1308001-001	Replace Union Lane Storage Tank	\$3,529,000
Clayton Boro	W0801001-001	Rehabe of elevated storage tank	\$738,000
Clayton Borough	0801001-001	Water System Improvements	\$2,057,000
Clinton Town	1005001-005	Water Main Rehab	\$1,508,244
Gloucester City	0414001-016	Replacement of automatic read meters	\$880,483
Gloucester City	0414001-017	Various Water Sys. Improv. Phase II	\$321,669
Hamilton Twp. Mun. Util. Auth.	0112001-003	Replacement of antiquated water mains	\$2,703,000
Hammonton Town	0113001-006	Radium removal treatment well #4	\$2,166,666
Hammonton Town	0113001-008	Pratt St. Replacement of water mains	\$431,547
Hammonton Town	0113001-009	Water main Rehabilitation	\$1,007,405
Independence MUA	W2112001-001	Autumn Ln Wellhead Rehab & Plant Imprv	\$262,000
Long Beach Twp.	1517001-014	Replacement of Water Mains	\$2,588,911
Manchester Util. Auth.	1603001-006	Rehab Central Ave Storage Tank	\$1,051,245
Manchester Util. Auth.	1603001-012	Reservoir rehab/security Improv.	\$262,269
Manchester Util. Auth.	1603001-013	Var. Improv. at old filter plant	\$728,521
Matawan Boro	W1329001-005	Middlesex Road Water Storage Tank Imprv	\$893,084
Merchantville-Pennsauken WC	0424001-007	Rehab Park Ave Storage Tank	\$2,571,000
Middlesex Water Company	1225001-015	Clean & Line Phase 12 (Renew 2014)	\$3,753,673
New Jersey American WC	1707001-005	Design Build centralized WTP	\$11,647,500
Newfield Boro	W0813001-001	Install of radium treatment for well #5	\$1,000,000
Newfield Boro	W0813001-001/ 002	Well #5 Radium Treat/ Replace Metering Station	\$102,010
Ocean Twp.	1520001-005	Replace undersized water mains	\$577,524
Old Bridge Mun. Util. Auth.	1209002-007	Higgins Rd/Rte. 516 Wtr Stor Tank Connect	\$5,071,750
Old Bridge Mun. Util. Auth.	1209002-010	Replace 2100 LF water mains (Rte. 516)	\$1,223,780
Pine Hill Bor. Mun. Util. Auth.	0428002-002	Mt. Clement Water Storage Tank Rehab	\$334,732
Stanhope Boro	W1919001-001	Replace WM at various locations	\$1,000,000
Stanhope Borough	1919001-001	Replace water mains various roads	\$892,000
Stanhope Borough	1919001-002	Rehab 50,000 gallon elev. Storage tank	\$311,000
Vineland City	0614003-011	Replace radionuclide treatment at well #12	\$2,813,333

Willingboro Mun. Util. Auth.	0338001-004	Install of emergency generators @3 wells	\$120,321
Willingboro Mun. Util. Auth.	0338001-006	Paint two storage tanks (JFK Way/Ember Ln.)	\$571,812
Willingboro Mun. Util. Auth.	0338001-007	Replacement of 1,250 water meters	\$477,050
<b>Projects: 35</b>		<b>Total SFY2014 Drinking Water</b>	<b>\$56,044,017</b>

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## **Trust Meeting Dates**

**January 15, 2015**

**February 12, 2015**

**March 12, 2015**

**April 9, 2015**

**May 7, 2015**

**June 11, 2015**

**July 9, 2015**

**August 13, 2015**

**September 10, 2015**

**October 8, 2015**

**November 12, 2015**

**December 10, 2015**

# **New Jersey Environmental Infrastructure Trust**

**Address:** 3131 Princeton Pike, Building 4, Suite 216, Lawrenceville, NJ 08648

**Phone:** (609) 219-8600 – **Fax:** (609) 219-8620

**Web site:** [www.njeit.org](http://www.njeit.org)