

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
CLEAN WATER STATE REVOLVING FUND
FEDERAL FY2018 PROJECT PRIORITY LIST
UPDATED FOR THE APRIL 18, 2018 PENNVEST BOARD MEETING**

EXPLANATION OF HEADINGS

NEEDS CATEGORY:

- I - SECONDARY TREATMENT
- II - TREATMENT MORE STRINGENT THAN SECONDARY
- IIIA - INFILTRATION/INFLOW CORRECTION
- IIIB - MAJOR SEWER SYSTEM REHABILITATION
- IVA - NEW COLLECTOR SEWERS AND APPURTENANCES
- IVB - NEW INTERCEPTORS AND APPURTENANCES
- V - CORRECTION OF COMBINED SEWER OVERFLOWS

PROJECT TYPE:

- STP - SEWAGE TREATMENT PLANT
- STPMOD - SEWAGE TREATMENT PLANT MODIFICATION
- INT - INTERCEPTOR
- PS - PUMP STATION
- FM - FORCE MAIN
- SS - SEWER SYSTEM
- SSREH - SEWER SYSTEM REHABILITATION

NPDES #:	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NUMBER
PROJECT NUMBER:	DEP PROJECT IDENTIFICATION NUMBER
LOAN #:	PENNVEST LOAN NUMBER OF FUNDED PROJECT
ELIG. COST:	ESTIMATED ELIGIBLE NEEDS FOR PROJECT

Note 1: Green projects pertain to those considered for funding after the issuance of EPA's "Procedures for Implementing Certain Provisions of the Fiscal Year 2010 Appropriation Affecting the Clean Water and Safe Drinking Water State Revolving Fund Programs" dated 4/21/2010.

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN CITY - KERNVILLE SANITARY/STORM WATER SEPARATION PROJECT 401 Main Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423149-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SSREH
	NPDES #: PA0026034	IIIA: \$10,900,000		V:	\$0	DEP RATING: 49
	LOAN #: 71434	IIIB: \$0	ELIG. COST: \$10,900,000			DEP RANKING: 1 of 23 PV RATING: 74

PROB DESC: Existing wet weather sanitary sewer overflows. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

PROJ DESC: Proposed construction of 21800 LF of 8" PVC gravity sewer + 8400 LF of 8" HDPE pipe liner + 1700 LF of 10" PVC gravity sewer + 600 LF of 12" PVC gravity sewer + 9800 LF of 6" lateral sewer + 205 manholes + 510 lateral inspection ports to remove excess infiltration and reduce SSO's during wet weather ---- A multi-phase project ---- Treatment provided at the existing Johnstown — Dornick Point STP NPDES # PA 0026034

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN CITY - OHIO STREET SANITARY/STORM WATER SEPARATION PROJECT	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423140-01
401 Washington Street Johnstown, PA 15901	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0026034	IIIA:	\$5,580,000	V:	\$0	DEP RATING: 49
	LOAN #: 71429	IIIB:	\$0	ELIG. COST:	\$5,580,000	DEP RANKING: 2 of 23
						PV RATING: 74

PROB DESC: City of Johnstown sewers are currently a source of excess wet weather flows which contribute to downstream wet weather overflows which are a source of pollution. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

PROJ DESC: Proposed construction of approximately 3600 linear feet of 8 inch PVC sanitary sewer, 2300 linear feet of 8 inch high-density polyethylene (HDPE) pipe bursting sanitary sewer, 800 linear feet of 8 inch HDPE slip-lining sanitary sewer, 330 linear feet of 8 inch to 15 inch cured in place pipe (CIPP) sewer liner, 185 sewer lateral connections, and appurtenances to rehabilitate the existing sanitary sewers in the Horner Street and Ohio Street Area of the City of Johnstown with treatment provided at the existing Johnstown – Dornick Point Sewage Treatment Plant (STP).

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN REDEVELOPMENT AUTH HORNERSTOWN/OHIO ST INTERCEPTOR/STORMWATER PROJECT 401 Washington Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423141-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: INT REHAB
	NPDES #: PA0026034	IIIA:	\$8,135,000	V:	\$0	DEP RATING: 49
	LOAN #: 71430	IIIB:	\$0	ELIG. COST:	\$8,135,000	DEP RANKING: 3 of 23
						PV RATING: 74

PROB DESC: Johnstown Redevelopment Authority sewers are currently a source of excess wet weather flows which contribute to downstream wet weather overflows which are a source of pollution. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

PROJ DESC: Proposed construction of approximately 6500 linear feet of 24 inch PVC sanitary sewer, 1350 linear feet of 8 inch PVC sanitary sewer, 150 linear feet of 8 inch high-density polyethelene (HDPE) pipe bursting sanitary sewer, 25 linear feet of 12 inch PVC sanitary sewer, 3500 linear feet of 8 inch to 30 inch cured in place pipe(CIPP) sewer liner, and appurtenances to rehabilitate the existing sanitary sewers in the Horner Street and Ohio Street Area of the City of Johnstown with treatment provided at the existing Johnstown – Dornick Point Sewage Treatment Plant (STP).

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
BEDFORD TOWNSHIP MUNICIPAL AUTHORITY AREA IV SANITARY SEWER EXTENSION 1007 Shed Road Bedford, PA 15522	COUNTY: Bedford	I:	\$0	IVA: \$2,146,210	PROJECT NO.: CS423135-01
	REGION: SC	II:	\$0	IVB: \$0	PROJ. TYPE: PS, SS
	NPDES #:	IIIA:	\$0	V: \$0	DEP RATING: 45
	LOAN #: 75323	IIIB:	\$0	ELIG. COST: \$2,146,210	DEP RANKING: 4 of 23 PV RATING: 50

PROB DESC: Project will address an area currently served by malfunctioning On-lot Disposal Systems (OLDS), holding tanks, outhouses and wildcat sewers. The 57% confirmed malfunction rate will be abated. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

PROJ DESC: Construction of 9800 feet of 8 inch gravity sewer, 1100 feet of 2 inch and 740 feet of 1.5 inch Low Pressure Sewers, 15 grinder pumps and one pump station to serve 95 equivalent dwelling units (EDUs) in Camp Sunshine area. Wastewater will be conveyed through existing collection and conveyance to the Bedford Boro Sewage Treatment Plant.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
KEYSTONE PROTEIN UPGRADE 2017 154 W Main Street Fredericksburg, PA 17026	COUNTY: Lebanon	I: \$0	IVA: \$0		PROJECT NO.: CS423159-01
	REGION: SCRO	II: \$11,000,000	IVB: \$0		PROJ. TYPE: STP, PS
	NPDES #: PA0266345	IIIA: \$0	V: \$0		DEP RATING: 44
	LOAN #: 27905	IIIB: \$0	ELIG. COST: \$11,000,000		DEP RANKING: 5 of 23
					PV RATING: 49

PROB DESC: The rendering plant is expanding and a new poultry processing plant is proposed. The existing treatment plant capacity is inadequate to handle the combined flow from the proposed poultry processing plant and the rendering plant to comply with the required permit limits.

PROJ DESC: This project is for construction of a new industrial wastewater treatment facility to treat the combined wastewater from a proposed Keystone Protein poultry processing facility and the existing Keystone Protein Rendering plant located in Bethel Township Lebanon County. The first phase of the project will have a design capacity of 1.05MGD. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the community's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES			PROJECT INFORMATION	
MERCER TOWNSHIP SANITARY SEWER EXTENSIONS & RSF TREATMENT PLANT 152 Boomerang Road P.O. Box 380 Harrisville, PA 16038	COUNTY: Butler	I: \$1,379,763	IVA: \$2,801,337	PROJECT NO.:	CS423156-01
	REGION: NWRO	II: \$0	IVB: \$0	PROJ. TYPE:	STP, SS
	NPDES #: PA0264784	IIIA: \$0	V: \$0	DEP RATING:	42
	LOAN #: 75329	IIIB: \$0	ELIG. COST: \$4,181,100	DEP RANKING:	6 of 23
				PV RATING:	47

PROB DESC: This project consists of serving three different service areas. They include properties along SR 58 west of Harrisville, properties along SR 58 east of Harrisville, and properties located in the Village of Forestville. A sanitary survey of these project areas revealed a 62% confirmed on-lot malfunction rate. These systems leach untreated and partially treated wastewater onto the ground surface and into the waters of the Commonwealth. This project will eliminate the malfunctioning sewage systems thereby improving the areas water quality.

PROJ DESC: The proposed project includes the construction of the following: to serve the properties along SR 58 west of Harrisville, low pressure sewer mains will be installed along with 29 individual grinder pumps; to serve the 15 properties along SR 58 east of Harrisville, a combination of gravity and low pressure sewer mains will be installed along with seven (7) individual grinder pumps; for the Village of Forestville, approximately 1,555 linear feet of 2 inch low pressure sewer main line and 18 individual grinder pumps will be installed along with approximately 8,233 linear feet of 8 inch gravity sewer main to serve 77 properties. The wastewater from the SR 58 extensions will be treated at the Grove City Borough Sewage Treatment Plant (STP). The Village of Forestville will be served by a new recirculating sand filter (RSF) treatment plant. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Township's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES			PROJECT INFORMATION
FAIRCHANCE-GEORGES YORK RUN/COLLIER SANITARY SEWER EXTENSION AND WWTP EXP 141 Big Six Road Smithfield, PA 15478	COUNTY: Fayette	I: \$6,318,000	IVA: \$11,977,875	PROJECT NO.: CS423147-01
	REGION: SW	II: \$0	IVB: \$1,711,125	PROJ. TYPE: STP, PS, INT, SS
	NPDES #: PA0096342	IIIA: \$0	V: \$0	DEP RATING: 40
	LOAN #: 71432	IIIB: \$0	ELIG. COST: \$20,007,000	DEP RANKING: 7 of 23
				PV RATING: 55

PROB DESC: Existing malfunctioning on-lot septic systems. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

PROJ DESC: Proposed construction of sanitary sewer extension and STP expansion project including 13,500 LF of 10" PVC sewer + 61,200 LF of 8" PVC sewer + 7400 LF of 6" PVC sewer + 7650 LF of 8" PVC force main + 450 GPM Pump Station + STP expansion from 0.75 to 1.50 MGD Design Average Flow to correct malfunctioning on-lot septic systems- Treatment provided at the Fairchance-Georges STP - NPDES Permit # PA 0096342.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
EBENSBURG MUNICIPAL AUTHORITY SANITARY SEWER IMPROVEMENTS PROJECT 300 West High Street Ebensburg, PA 15931	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423148-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
	NPDES #: PA0022292	IIIA:	\$0	V:	\$9,000,000	DEP RATING: 39
	LOAN #: 75328	IIIB:	\$0	ELIG. COST:	\$9,000,000	DEP RANKING: 8 of 23 PV RATING: 54

PROB DESC: Existing combined sewer wet weather overflows. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

PROJ DESC: Proposed construction of combined sewer separation project including 300 LF of 21" PVC + 1450 LF of 18" PVC + 2250 LF of 15" PVC + 1625 LF of 12" PVC + 6850 LF of 10" PVC + 47750 LF of 8" PVC sanitary sewer + 915 lateral observation ports + 1775 LF of SLCPP storm sewer to eliminate 2 CSOs --- Treatment provided at the existing Ebensburg STP - NPDES Permit # PA 0022292.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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WEST SUNBURY BORO MA - 2017 STP UPGRADES 142 Main Street PO Bos 202 West Sunbury, PA 16061	COUNTY: Butler	I:	\$0	IVA:	\$0	PROJECT NO.: CS423155-01
	REGION: NWRO	II:	\$350,000	IVB:	\$0	PROJ. TYPE: STPMOD
	NPDES #: PA0221830	IIIA:	\$0	V:	\$0	DEP RATING: 38
	LOAN #: 27904	IIIB:	\$0	ELIG. COST:	\$350,000	DEP RANKING: 9 of 23
						PV RATING: 53

PROB DESC: West Sunbury Borough's NPDES permit limits were changed to include an ammonia nitrogen limit. The existing West Sunbury Boro Mun Auth STP was not originally designed to remove ammonia nitrogen. Project needed to assure new ammonia nitrogen limit can always be met.

PROJ DESC: Construction of a tertiary treatment system at the STP is proposed to address the problem. Project will also improve, repair and rehabilitate existing treatment components at this aging sewage facility including replacing coarse bubble diffusers in the lagoon cells with fine bubble diffusers and associated new air supply lines from the existing blowers. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Borough's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
HOWE TWP MA - SANITARY SEWER SYSTEM 300 N. 4th Street Newport, PA 17074	COUNTY: Perry	I:	\$0	IVA: \$4,639,900	PROJECT NO.: CS423163-01
	REGION: SC	II:	\$0	IVB: \$1,000,500	PROJ. TYPE: PS, INT, SS
	NPDES #: PA0021237	IIIA:	\$0	V: \$0	DEP RATING: 38
	LOAN #: 0	IIIB:	\$0	ELIG. COST: \$5,640,400	DEP RANKING: 10 of 23 PV RATING: 58

PROB DESC: Howe Township is currently served by on-lot disposal systems (OLDS). The Juniata Parkway Area of Howe Township has been experiencing issues with OLDS malfunctions and well water contamination. Tier One and Tier Two sanitary surveys and well water sampling were performed for Howe Township and the Juniata Parkway Area, which confirmed these issues. The State Route 34 Planned Growth Area of Howe Township requires public sewer due to the potential for future growth.

PROJ DESC: The project will provide public sewer service to 146 existing equivalent dwelling units (EDUs), and will serve approximately 599 EDUs at build-out, consisting of residential, commercial, and institutional flow. The sanitary sewer collection system will consist of approximately 6,724 feet of gravity sewer, 7,253 feet of low pressure sewer, 8,532 feet of force main, and three pump stations. The Howe Township collection system will be connected to the Newport Borough Municipal Authority (NMBA) wastewater treatment plant (WWTP). A 5,000 gallon per day (gpd) package WWTP will be decommissioned as part of this project. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
HASTINGS AREA SEWER AUTHORITY SANITARY SEWER SYSTEM REPLACEMENT PROJECT 207-1 Fifth Avenue Hastings, PA 16646	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423150-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
	NPDES #: PA0023141	IIIA:	\$12,675,000	V:	\$0	DEP RATING: 36
	LOAN #: 71433	IIIB:	\$0	ELIG. COST:	\$12,675,000	DEP RANKING: 11 of 23 PV RATING: 51

PROB DESC: Existing sewer lateral basement back-ups and manhole overflows during wet weather. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

PROJ DESC: Proposed construction of sanitary sewer replacement project including 500 LF of 24" PVC + 750 LF of 18" PVC + 750 LF of 15" PVC + 375 LF of 12" PVC + 200 LF of 10" PVC + 53 000 LF of 8" PVC gravity sanitary sewer + 275 manholes + 695 lateral observation ports to eliminate sewer lateral basement back-ups and manhole overflows --- Treatment provided at the existing Hastings STP - NPDES Permit # PA 0023141.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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ALTOONA WATER AUTHORITY - SANITARY SEWER REHABILITATION PROJECT	COUNTY: Blair	I:	\$0	IVA:	\$0	PROJECT NO.: CS423165-01
900 Chestnut Avenue	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SS Rehab
Altoona, PA 16601	NPDES #: PA0027014 PA	IIIA:	\$0	V:	\$9,695,400	DEP RATING: 35
	LOAN #: 0	IIIB:	\$0	ELIG. COST:	\$9,695,400	DEP RANKING: 12 of 23
						PV RATING: 50

PROB DESC: Sanitary Sewer Rehabilitation project - Portions of the sewer system were constructed more than 125 years ago. This project is necessary to upgrade old and deficient sanitary sewer lines via lining rehabilitation in an effort to prevent catastrophic failure, reduce inflow/ infiltration, improve collection and conveyance system reliability and provide sufficient long-term upgraded infrastructure for the service community.

PROJ DESC: The project will control I/I by lining in the sanitary sewer system and increase raw sewage flow during wet weather to the treatment plant. After conventional cleaning work, sewer rehabilitation via application of cementitious mortar by conventional shotcrete-guniting methods will be performed. This correction qualifies as of construction in nature as it intended to add 50 years life in the sewer system. This work is part of the Altoona Water Authority's Long-Term Control Plan which is a requirement of their NPDES Permit renewals. This work will help restore interceptor conveyance capacity to help towards maximization of treatment at the existing WWTFs. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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LAKE CITY MSA - WASTEWATER TREATMENT PLANT UPGRADE 1150 Maple Avenue Lake City, PA 16423	COUNTY: Erie	I: \$4,612,000	IVA: \$0		PROJECT NO.: CS423151-01
	REGION: NW	II: \$0	IVB: \$0		PROJ. TYPE: STPMOD
	NPDES #: PA0024899	IIIA: \$0	V: \$0		DEP RATING: 35
	LOAN #: 75327	IIIB: \$0	ELIG. COST: \$4,612,000		DEP RANKING: 13 of 23 PV RATING: 55

PROB DESC: The Department and Lake City Borough entered into a CO&A on March 25, 2016 to address noncompliance of the Lake City Municipal Sewer Authority wastewater treatment plant (WWTP). The CO&A required implementation of the Borough's Act 537 Plan which addressed solids handling concerns and further created the opportunity to review the entire WWTP in order to meet the future needs of the Borough and adjacent areas in Girard Township. In this regard, the Plan concluded with a proposed rerate of the existing WWTP to a hydraulic design capacity of 1.061 MGD and an organic design capacity of 1,325 lbs BOD5/day. This upgrade and expansion project will allow the plant to adequately manage their solids, afford reliability and efficiency to its operation, and have the capacity to allow connection of currently unsewered areas of Lake City Borough as well as areas in neighboring Girard Township that are experiencing sewage compliance problems. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

PROJ DESC: The proposed project includes the construction of two new aerobic digesters with fine bubble membrane diffusers; construction of a sludge press building housing one rotary sludge press, sludge pump, polymer feed and flocculator; add coarse air diffusers to the existing RBCs; replace the RBCs with new units including media, shafts, bearings and drives; modification of the chlorine contact tanks to remove dechlorination equipment, add aeration, and increase the liquid capacity; install a new standalone dechlorination tank with aeration; provide a new lift station for the plant drainage; replace forcemain within the plant; and assorted other improvements.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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BROCKWAY AREA SEWER AUTHORITY - WASTEWATER SYSTEM IMPROVEMENTS 501 Main Street Brockway, PA 15824	COUNTY: Jefferson	I: \$259,049	IVA: \$608,111	PROJECT NO.: CS423136-01
	REGION: NW	II: \$0	IVB: \$0	PROJ. TYPE: STPMOD, PS, SSRE
	NPDES #: PA 0028428	IIIA: \$678,700	V: \$0	DEP RATING: 34
	LOAN #: 75326	IIIB: \$2,036,383	ELIG. COST: \$3,582,243	DEP RANKING: 14 of 23
				PV RATING: 49

PROB DESC: The Brockway Area Sewer Authority wastewater system improvements project will resolve several problems including the need to shut down a portion of the vacuum sewer system, remove infiltration and inflow, remove undersized sewer pipe, sewer an area with a high confirmed onlot malfunction rate, and plant upgrades to replace equipment that is outdated. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

PROJ DESC: The project has 11 components - they include the N 219 vacuum pump station replacement; the Bond Street sanitary sewer replacement; a Circle Drive pump station; the Keystone Road sewer extension; replace existing vacuum chambers; replace treatment plant rotor VFD drives; replace scum pumps at the treatment plant; upgrade and replace the SCADA system; replace the Arch Street pump station rail system; replace the Broad Street force main; and the purchase of a utility vehicle.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
CLARVIEW NURSING AND REHABILITATION CENTER - SANITARY SEWER EXTENSION PROJECT 14663 Route 68 Sligo, PA 16255	COUNTY: Clarion	I:	\$0	IVA: \$1,031,239	PROJECT NO.: CS423161-01
	REGION: NW	II:	\$0	IVB: \$0	PROJ. TYPE: PS, FM
	NPDES #:	IIIA:	\$0	V: \$0	DEP RATING: 34
	LOAN #: 0	IIIB:	\$0	ELIG. COST: \$1,031,239	DEP RANKING: 15 of 23 PV RATING: 39

PROB DESC: Clarview Nursing and Rehabilitation Center currently owns and operates an activated sludge wastewater treatment plant (WWTP). The current WWTP is small in size, antiquated, and has large operation and maintenance costs for treatment. There have been complaints of odor issues and due to the WWTP's age, upgrades would be required in the near future to maintain compliance. Clarview's wastewater will now be conveyed to Sligo Borough's wastewater treatment plant for processing. This project will result in the elimination of a point source discharge.

PROJ DESC: Clarview's proposed sanitary sewer line is approximately 7,000 linear feet of four-inch SDR 11 – High-density Polyethylene (HDPE) pipe and will be a pressure system. The lift station will be installed on Clarview's property. The existing WWTP serving Clarview will be decommissioned as part of the project. The new pump station and forcemain will be adequate in size to handle existing and future flows from the Clarview Nursing and Rehabilitation Center. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Community's waterways from an antiquated wastewater treatment plant.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
 CLEAN WATER STATE REVOLVING FUND
 FEDERAL FY2018 PROJECT PRIORITY LIST
 UPDATED FOR THE APRIL 18, 2018 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
FREEPORT BORO-LONG TERM CONTROL PLAN PHASE I IMPROVEMENTS 414 Market Street Freeport, PA 16229	COUNTY: Armstrong REGION: SW NPDES #: PA0025755 LOAN #: 0	I: II: IIIA: IIIB:	\$0 \$0 \$0 \$0	IVA: IVB: V: ELIG. COST:	\$0 \$0 \$920,600 \$920,600	PROJECT NO.: CS423162-01 PROJ. TYPE: CS DEP RATING: 34 DEP RANKING: 16 of 23 PV RATING: 39

PROB DESC: Combined sewer system Long Term Control Plan (Phase I) implementation requires sewer modifications to increase flows to the Wastewater Treatment Plant and reduce wet weather overflows to stream.

PROJ DESC: Proposed construction of existing combined sewer modifications as part of the combined sewer system Long Term Control Plan (Phase I) implementation. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
PAINT BOROUGH - 2018 SANITARY REHABILITATION PROJECT 119 Hoffman Avenue Windber, PA 15963	COUNTY: Somerset	I: \$0	IVA: \$0		PROJECT NO.: CS423164-01
	REGION: SW	II: \$0	IVB: \$0		PROJ. TYPE: SS
	NPDES #: PA0026778	IIIA: \$2,967,000	V: \$0		DEP RATING: 31
	LOAN #: 0	IIIB: \$0	ELIG. COST: \$2,967,000		DEP RANKING: 17 of 23 PV RATING: 36

PROB DESC: Existing sanitary sewers subject to excessive infiltration which contributes to downstream wet weather overflows.

PROJ DESC: Proposed construction of existing sanitary sewer rehabilitation and repairs. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
BRADFORD SANITARY AUTHORITY PHASE 3 WASTEWATER TREATMENT PLANT UPGRADES 28 Kennedy Street Bradford, PA 16701	COUNTY: McKean	I: \$7,000,000	IVA: \$0		PROJECT NO.: CS423152-01
	REGION: NW	II: \$0	IVB: \$0		PROJ. TYPE: STPMOD
	NPDES #: PA0026379	IIIA: \$0	V: \$0		DEP RATING: 24
	LOAN #: 75325	IIIB: \$0	ELIG. COST: \$7,000,000		DEP RANKING: 18 of 23 PV RATING: 39

PROB DESC: This is Phase 3 of the wastewater treatment plant upgrades by the Bradford Sanitary Authority. To continue to provide regional wastewater treatment the Authority is proposing this WWTP upgrade project which focuses on solids handling and dewatering, disinfection, an outfall diffuser, vehicle storage, demolition, and various architectural, electrical and HVAC upgrades. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

PROJ DESC: The Phase 3 project consists of 2 new aerobic digesters, a new chlorine building with 2 new chlorinators, an extended outfall diffuser, a new vehicle storage facility, repurposing sand beds to reed beds for sludge dewatering, demolition of the existing sludge conditioning lime feed facilities and two belt filter presses, 2 new waste activated sludge pumps, 1 new primary sludge pump, assorted upgrades, and 5 new flow boundary meters.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
LIBERTY BOROUGH - 2018 SEWER DEFICIENCY REPAIRS 2921 Liberty Way McKeesport, PA 15133	COUNTY: Allegheny	I:	\$0	IVA:	\$0	PROJECT NO.: CS423154-01
	REGION: SWRO	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
	NPDES #: PA0026913	IIIA:	\$0	V:	\$0	DEP RATING: 17
	LOAN #: 75330	IIIB:	\$1,200,000	ELIG. COST:	\$1,200,000	DEP RANKING: 19 of 23 PV RATING: 32

PROB DESC: The existing sanitary sewers are subject to excessive infiltration and overflow during wet weather.

PROJ DESC: The proposed construction project involves sanitary sewer rehabilitation and repairs. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the community's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
BURRELL TWP SA - WASTE WATER TREATMENT PLANT IMPROVEMENTS 49 Willow Street Black Lick, PA 15716	COUNTY: Indiana	I: \$11,000,000	IVA: \$0		PROJECT NO.: CS423160-01
	REGION: SC	II: \$0	IVB: \$0		PROJ. TYPE: STP
	NPDES #: PA0093050	IIIA: \$0	V: \$0		DEP RATING: 7
	LOAN #: 0	IIIB: \$0	ELIG. COST: \$11,000,000		DEP RANKING: 20 of 23 PV RATING: 12

PROB DESC: Existing WWTP is in poor condition and is subject to 100 year flooding.

PROJ DESC: Proposed construction of new Wastewater Treatment Plant (WWTP) to replace existing WWTP. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways from an antiquated wastewater treatment plant.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
NORTH WARREN WASTEWATER TREATMENT PLANT IMPROVEMENTS PROJECT 44 Hospital Drive North Warren, PA 16365	COUNTY: Warren	I: \$4,250,000	IVA:	\$0	PROJECT NO.: CS423143-01
	REGION: NW	II: \$0	IVB:	\$0	PROJ. TYPE: STPMOD
	NPDES #: PA0029467	IIIA: \$0	V:	\$0	DEP RATING: 7
	LOAN #: 75324	IIIB: \$0	ELIG. COST:	\$4,250,000	DEP RANKING: 21 of 23 PV RATING: 12

PROB DESC: The existing headworks and sludge digestion facilities have exceeded their useful life. The existing headworks equipment is inefficient and the concrete channels have experienced substantial deterioration over the many years of operation. The existing anaerobic digester tank is in need of concrete repairs and the roof and mechanical equipment are in need of replacement. The gas produced by the digestion process is not utilized to heat any plant facilities and the existing boiler that heats the sludge is in need of replacement. Additionally, the existing digester has no mechanical or storage redundancy and does not have sufficient volume to store sludge through the winter. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

PROJ DESC: The headworks improvements include construction of a new 24' x 36' headworks building and new concrete headworks channels; installation of two new centerflow band screens, one in both the main channel and bypass channel; and installation of a new influent meter, sampling equipment, electrical control panels and misc. piping, valves and other related appurtenances.
 The digester improvements include the construction of two new 28' x 28' x 15' deep digester tanks and a 26' x 60' digester control building; conversion of the existing anaerobic digester tank to an aerated sludge holding tanks; and installation of a peristaltic sludge transfer pump, four positive displacement blowers, stainless steel air headers, coarse bubble diffusers, electrical control panels with motor starters and VFD's and misc. piping, valves and other related appurtenances.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
DOYLESTOWN - PEBBLE RIDGE/ WOODRIDGE AND VICINITY SEWER PROJECT 425 Wells Road Doylestown, PA 18901	COUNTY: Bucks	I:	\$0	IVA:	\$8,852,000	PROJECT NO.: CS423158-01
	REGION: SERO	II:	\$0	IVB:	\$0	PROJ. TYPE: PS, SS
	NPDES #:	IIIA:	\$0	V:	\$0	DEP RATING: 6
	LOAN #: 75332	IIIB:	\$0	ELIG. COST:	\$8,852,000	DEP RANKING: 22 of 23
						PV RATING: 21

PROB DESC: Throughout the project area there are failed on-lot septic systems. Through laboratory analysis, it was determined that the stormwater is contaminated with human fecal coliform and the failed on-lot systems are believed to be the source of the pollution.

PROJ DESC: The project will provide public sewers serving 252 existing properties in the Pebble Ridge/Woodridge and Vicinity. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the community's waterways.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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GREATER HAZLETON JT SEWER AUTH - INCINERATOR INSTALLATION, ASH/SLUDGE SYSTEM P.O. Box 651 Hazleton, PA 18201	COUNTY: Luzerne REGION: NERO NPDES #: PA0026921 LOAN #: 27906	I: II: \$11,411,000 IIIA: IIIB:	\$0 \$0 \$0	IVA: IVB: V: ELIG. COST:	\$0 \$0 \$0 \$11,411,000	PROJECT NO.: CS423157-01 PROJ. TYPE: STPMOD DEP RATING: 0 DEP RANKING: 23 of 23 PV RATING: 40

PROB DESC: The Greater Hazleton Joint Sewer Authority (Authority) has a responsibility to dispose of the residual solids that remain after its primary, waste activated and hauled waste sludges are collected from its wastewater and hauled waste collection and treatment processes. The Authority has utilized pressing (dewatering) and sanitary landfill disposal of these sludges since approximately 1995. Prior to 1995, the Authority utilized incineration as the chosen method to permanently dispose of its sludge. The Authority is choosing to now return to incineration as its preferred method of sludge disposal. The Authority states that uncertainties related to sanitary landfill availability and landfill transportation costs have influenced the decision to move in this direction.

PROJ DESC: The proposed project involves the installation of a 15 dry ton per day fluidized bed incinerator, heat exchanger, air emissions treatment equipment, dewatering centrifuge, ash slurry thickener, holding tank and vacuum filter, upgraded utility water system and ammonia, caustic and polymer addition facilities. An addition to the existing control building will be constructed to house portions of the incineration equipment. An unwallled structure to protect the ash dumpsters, ammonia tank and sand hopper will also be constructed as part of the proposed project. Portions of the proposed incineration components have already been procured by the Authority using a previously awarded Commonwealth Financing Authority, H2O PA Water and Sewer Grant of \$7,000,000. Environmental benefits include reducing the volume of waste going to a landfill.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00