

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FEDERAL FY 2019  
DRINKING WATER PROJECT PRIORITY LIST  
APRIL 17, 2019**

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**EXPLANATION OF HEADINGS (EXCEPT THOSE THAT ARE SELF-EXPLANATORY)**

**PROJECT TYPE:**

- SRC    - SOURCE**
- TRANS - TRANSMISSION SYSTEM**
- PS     - PUMP STATION**
- WS     - WATER STORAGE**
- DS     - DISTRIBUTION SYTEM**
- METERS- WATER METERS**
- LDE    - LEAK DETECTION SYSTEM**

**PWSID - PUBLIC WATER SYSTEM ID NUMBER**

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<b>APPLICANT NAME:</b> PINE GROVE BOROUGH WATER IMPROVEMEN	<b>REGION:</b> II	<b>DEP PROJECT RATING:</b> 77
<b>STREET ADDRESS:</b> 17 MIFFLIN ST.	<b>PWSID:</b> 3540037	<b>PROJRANK:</b> 1
<b>CITY:</b> PINE GROVE	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$5,479,764
<b>COUNTY:</b> SCHUYLKILL	<b>MTGDATE:</b> 7/18/2018	<b>PROJECT TYPE:</b> WS, TREAT, DS

**PROJ. DESCRIPTION:** Pine Grove Borough proposes replacement of approximately 2,700 LF of waterline, hydrants, valves, etc. on South Tulpehocken St. (SR 443); construction of a new 1.0 MG finished water storage tank; construction of corrosion control treatment facilities necessary per the Lead and Copper Rule and modified 4-log disinfection treatment facilities during construction; modification of SCADA system to control the new tank facilities; addition of automated chlorine control system to ensure 4-log compliance and better control chlorine residuals; and the rehabilitation of the existing 1.5 MG finished water storage tank. Improvements will enhance Pine Grove Borough's ability to operate and maintain the system.

**PROB. DESCRIPTION:** The Pine Grove water system is in need of additional storage capacity; is experiencing leaking and aging distribution system mains, has a storage tank in need of rehabilitation; requires corrosion control treatment per the Lead and Copper Rule; and requires automatic control modifications to their gas disinfection system for better chlorine residual control due to demand fluctuations. The Pine Grove PWS system (PWS ID No. 3540037) serves a population of 2,862 people via 1,500 service connections with one large industrial user (Guilford Mills). The industrial customer currently utilizes over half the water pumped in a day by the system and has huge unpredictable daily swings in demand. This customer also anticipates an increase of 7% in water usage in the next few years, which is taxing for the water system, especially the control for the disinfection facilities. Additional water storage (1.0 MG storage tank) is proposed to address the storage issue. Corrosion Control Treatment (pH adjustment via 50% NaOH) is needed to address high copper levels (2.1 mg/l) in the system which are above the action level of 1.3 mg/l per the Lead and Copper Rule which is over the One-Day Health Advisory (HA)/Ten-Day HA level per PENNVEST Guidance of 1.3 mg/l. Installation of an automatic flow control valve on their gas chlorination system to enhance operational control of chlorine residuals due to significant flow fluctuations is also proposed. The system is also faced with aging and leaking distribution system facilities (tank and waterlines) which are in need of repair and rehabilitation. Unaccounted for water loss is high, greater than 20%. Pressure at certain nodes in the system during peak demand periods were reported to be less than the required minimum of 20 psi. Additional finished water storage, rehabilitation of the existing 1.5 MG storage tank, and new/rehabilitated distribution system facilities (waterlines, hydrants, etc.) along SR 443 to adequately serve the existing residential and commercial customers of the PWS system are proposed.

**POPULATION:** 2,862  
**GREEN PROJECT:** No  
**BUSINESS CASE:** N/A

**PV RATING:** 92  
**GREEN CATEGORY:** N/A  
**GREEN AMOUNT:** \$0

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APPLICANT NAME: PITTSBURGH WSA - LEAD SERVICE LINE REPL	REGION: V	DEP PROJECT RATING: 71
STREET ADDRESS: 441 SMITHFIELD ST.	PWSID: 5020038	PROJRANK: 2
CITY: PITTSBURGH	FUND SOURCE: DWSRF	PROJECT COST: \$49,710,104
COUNTY: ALLEGHENY	MTGDATE: 10/17/2018	PROJECT TYPE: DS

**PROJ. DESCRIPTION:** The project includes replacement of approximately 2,800 lead service line due to high lead levels. Approximately 7 miles of potable lead service lines will be replaced.

**PROB. DESCRIPTION:** Pittsburgh Water and Sewer Authority is under an Order to complete lead service line replacement. Project will help reduce/eliminate lead from drinking water.

POPULATION: 370,000	PV RATING: 106
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

APPLICANT NAME: TOWANDA MUNICIPAL AUTHORITY WATER SYS	REGION: IV	DEP PROJECT RATING: 63
STREET ADDRESS: 724 MAIN STREET	PWSID: 2080029	PROJRANK: 3
CITY: TOWANDA	FUND SOURCE: DWSRF	PROJECT COST: \$4,736,700
COUNTY: BRADFORD	MTGDATE: 1/30/2019	PROJECT TYPE: SRC, TREAT, DS, WS

**PROJ. DESCRIPTION:** Towanda Municipal Authority (TMA) proposes to construct a new membrane filter water treatment plant, three new groundwater source wells, approximately 8,600 feet of waterline, 106,000-gallon water storage tank, booster pump station rehabilitation and related appurtenances.

**PROB. DESCRIPTION:** The project intends to replace two existing groundwater sources with three new groundwater sources. The project will increase the reliability of the current system and eliminate the potential for adjacent industrial activity to negatively impact the Authority's raw water supply. The proposed improvements will also help to address an inadequate fire suppression system.

POPULATION: 5,000	PV RATING: 78
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

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APPLICANT NAME: WARRINGTON TOWNSHIP PFOS/PFOA REMEDI	REGION: I	DEP PROJECT RATING: 63
STREET ADDRESS: 2210 SHETLAND DRIVE	PWSID: 1090070	PROJRANK: 4
CITY: WARRINGTON	FUND SOURCE: DWSRF	PROJECT COST: \$5,321,500
COUNTY: BUCKS	MTGDATE: 10/17/2018	PROJECT TYPE: TREAT

**PROJ. DESCRIPTION:** Warrington Township has PFOS and PFOA in Well Nos. 4,5,8 and 11 with an average of 37.5 ppt which is below the EPA health Advisory Level. Warrington is proposing to provide GAC filtration in conjunction with Ion Exchange units to treat to non-detectable levels. Warrington also has exceeded the MCLs for Gross Alpha and Uranium in Well No4. and is proposing an additional Ion Exchange unit at that well station for treatment of radionuclides. The 2016 annual averages are 32.6pCi/L for gross alpha and 29.6pCi/L for uranium. Enough information is available to present the system with a Consent Order and Agreement to lock in a timetable for installing treatment in order to bring this well back on line.

**PROB. DESCRIPTION:** Warrington Township has PFOS and PFOA in its Well Nos. 4,5,8 and 11. Other wells owned by Warrington are currently temporarily out of service due to the contamination. Water is being purchased from North Penn Water Authority to supplement the system. In an effort to provide a more reliable source, Warrington proposes to provide treatment to achieve non detectable levels in these wells. Warrington has exceeded the MCLs for Gross Alpha and Uranium at Well No.4. Project will improve sufficient source water to the system.

POPULATION: 11,688  
GREEN PROJECT: No  
BUSINESS CASE: N/A

PV RATING: 68  
GREEN CATEGORY: N/A  
GREEN AMOUNT: \$0

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<b>APPLICANT NAME:</b> CLYMER BOROUGH MUNICIPAL AUTHORITY WA	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 60
<b>STREET ADDRESS:</b> R.R.#1, BOX 1	<b>PWSID:</b> 5320009	<b>PROJRANK:</b> 5
<b>CITY:</b> CLYMER	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$2,177,500
<b>COUNTY:</b> INDIANA	<b>MTGDATE:</b> 1/30/2019	<b>PROJECT TYPE:</b> TREAT, DS, WS

**PROJ. DESCRIPTION:** The Authority is proposing to install a forced draft aerator for the removal of hydrogen sulfide prior to filtration. In addition, due to the age and condition of the 200,000-gallon tank, it will be replaced along with the plant's above ground clearwell. Also, 7,750 linear feet of leaking transite waterline will be replaced with 8-inch C-900 PVC pipe. Installation of 7,750 linear feet of PVC waterline includes 150 service lines, 39 gate valves, 11 interconnections and seven fire hydrants. All waterline and appurtenances shall be in Clymer Borough. A new 250,000-gallon water storage tank will be constructed on Clymer Road in Cherry hill Township.

**PROB. DESCRIPTION:** The residents of Clymer Borough are experiencing unpleasant taste and odor issues caused by the presence of hydrogen sulfide in old pipes. The existing asbestos concrete pipes are leaking in several areas. This proposed project will correct the leakage and antiquated pipes. The new aerator scrubber will remove hydrogen sulfide at the existing water treatment plant. The existing clearwell's roof experienced holes and partial collapse exposing the finished water to contaminants. An emergency permit was issued to Clymer to repair holes and have an interconnection with Indiana County Municipal Service Authority (ICMSA) to provide finished water. The clearwell was out of operation for approximately 1 month.

**POPULATION:** 1,700  
**GREEN PROJECT:** No  
**BUSINESS CASE:** N/A

**PV RATING:** 83  
**GREEN CATEGORY:** N/A  
**GREEN AMOUNT:** \$0

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APPLICANT NAME:	NEW SEWICKLEY TWP MA - HRR AC WATERLIN	REGION:	V	DEP PROJECT RATING:	55
STREET ADDRESS:	233 MILLER ROAD	PWSID:	5040085	PROJRANK:	6
CITY:	ROCHESTER	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$717,654
COUNTY:	BEAVER	MTGDATE:		PROJECT TYPE:	DS

**PROJ. DESCRIPTION:** The New Sewickley Township Municipal Authority proposes the installation of approximately 5,200 linear feet of 6-inch and 8-inch diameter ductile iron (DI) pipe to replace all asbestos cement (AC) pipe located in the Harvey Run Road system. New DI water mains will be installed parallel to the AC pipe while the AC pipe remains in service. Each replacement water main will be either the same size as or one size smaller than the water main it replaces, as appropriate. Reinstatement of water service laterals to customers in the project area will be included as part of the project. Due to health and environmental concerns with handling and disposal of pipe containing asbestos, completion of the project involves leaving the AC pipe undisturbed. The project is an in-kind replacement of existing water mains. No water main extensions or additional water customers are proposed with this project. Two new fire hydrants are proposed at water main dead-ends to facilitate system flushing.

**PROB. DESCRIPTION:** The New Sewickley Township Municipal Authority has approximately 5,200 linear feet of water distribution mains comprised of aging asbestos cement pipe. The main is old and deteriorating requiring replacement. Due to the asbestos in the existing pipe, repairs on the line are difficult. New distribution main will reduce breakage and will be easy to repair. New fire hydrants will help flush the dead-end distribution mains.

POPULATION: 1,894  
GREEN PROJECT: No  
BUSINESS CASE: N/A

PV RATING: 64  
GREEN CATEGORY: N/A  
GREEN AMOUNT: \$0

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<b>APPLICANT NAME:</b> CRANBERRY TOWNSHIP SR 62 WATERLINE RE	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 52
<b>STREET ADDRESS:</b> BOX 378	<b>PWSID:</b> 6610031	<b>PROJRANK:</b> 7
<b>CITY:</b> SENECA	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$1,130,000
<b>COUNTY:</b> VENANGO	<b>MTGDATE:</b> 10/17/2018	<b>PROJECT TYPE:</b> DS

**PROJ. DESCRIPTION:** The Authority is proposing to install approximately 4,700 feet of 8-inch C900 PVC pipe and abandoned the existing lines in place. The new water distribution lines will be installed in the shoulder of SR-62 Penn-DOT right-of-way just east of the intersection with SR 257 in Cranberry Township – Venango County. The project will serve 77 existing customers.

**PROB. DESCRIPTION:** The water lines along State Route 62 has experienced numerous breaks over the past several years to a point beyond repairs. Project will supply uninterrupted finish water to the service area and will reduce unaccounted water loss.

<b>POPULATION:</b> 2,700	<b>PV RATING:</b> 57
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

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<b>APPLICANT NAME:</b> MEADVILLE AREA WA - 2019 WATER SYSTEM I	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 49
<b>STREET ADDRESS:</b> 984 WATER STREET	<b>PWSID:</b> 6200036	<b>PROJRANK:</b> 8
<b>CITY:</b> MEADVILLE	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$3,000,000
<b>COUNTY:</b> CRAWFORD	<b>MTGDATE:</b> 1/30/2019	<b>PROJECT TYPE:</b> DS

**PROJ. DESCRIPTION:** The Meadville Area Water Authority (MAWA) 2019 Water System Improvements project includes the replacement of approximately 5,885 LF of 6-inch and 2,800 LF of 8-inch aged cast iron waterlines, replacement of fire hydrants, service connections and the installation of 46 distribution system valves ranging in size from 3-inch to 12-inch.

**PROB. DESCRIPTION:** The existing aged cast iron water mains have experienced numerous breaks and most of the control/gate valves are non-operable. The valves are rusted and/are too old to repair. The malfunctioning of existing valves on the system results in a greater number of customers being affected by water outages due to defective valves. Once operated, the defective valves leak, causing additional water loss and potential freezing in winter months. Project will help reduce authority unaccounted for water loss.

<b>POPULATION:</b> 17,339	<b>PV RATING:</b> 83
<b>GREEN PROJECT:</b> Yes	<b>GREEN CATEGORY:</b> Water Efficiency
<b>BUSINESS CASE:</b> Required	<b>GREEN AMOUNT:</b> \$3,000,000

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<b>APPLICANT NAME:</b> HAZLETON CITY AUTHORITY 2019 TANK AND P	<b>REGION:</b> II	<b>DEP PROJECT RATING:</b> 48
<b>STREET ADDRESS:</b> 400 E. ARTHUR GARDNER PARKWAY	<b>PWSID:</b> 2408001	<b>PROJRANK:</b> 9
<b>CITY:</b> HAZLETON	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$1,519,841
<b>COUNTY:</b> SCHUYLKILL	<b>MTGDATE:</b> 1/30/2019	<b>PROJECT TYPE:</b> WS, PS

**PROJ. DESCRIPTION:** HCA proposes the rehabilitation of the 0.5 MG Park Place Tank including interior and exterior painting, fencing, and all necessary appurtenance repairs/upgrades (vent, ladder, etc.) as well as the minor rehabilitation of all other finished water storage tanks ((McKinley Tank #1 and #2, Lattimer Tank, Highland Tank, Council Crest Tank, Tomhicken Tank, Monges Street Tank, and Roan Tank) consisting of exterior coating maintenance, touch up, and minor appurtenance in-kind replacement if necessary. The finished water storage tanks are aging and in need of repair and rehabilitation. The Drifton and Barnes Run Pump Stations are also aging and in need of upgrading to more energy efficient units. The Drifton Pump Station currently has only a single pump to meet design discharge and no emergency power provisions. The upgraded station will provide two pumps for redundancy to meet design capacity, emergency power provisions, all necessary piping, electrical, and appurtenance modifications, and necessary building improvements. The Barnes Run Raw Water Booster Station currently provides water to the HCA WTP on a common main line. HCA has experienced reduced flow and capacity when multiple sources are brought on line on this common main. Due to limitations in the existing pump intake pipes this project is proposing increasing the pump capacity and discharge design pressure by 10% over current design. The new capacity will improve operating conditions without significant reconstruction and cost of water intake piping. Emergency power provisions will also be added to this station as well as building maintenance. Lastly, to reduce unaccounted for water loss in the distribution system, HCA is proposing acquiring a fixed base leak detection system along with required training and technical support necessary. Replacement of booster pumps with more energy efficient models will improve energy efficiency.

**PROB. DESCRIPTION:** HCA's existing finished water storage tanks (primarily the Park Place Tank) and their Drifton and Barnes Run Pump Stations are aging and in need of repair and rehabilitation. The 0.5MG Park Place finished water storage tank requires the most extensive rehabilitation. All other finished water storage tanks (McKinley Tank #1 and #2, Lattimer Tank, Highland Tank, Council Crest Tank, Tomhicken Tank, Monges Street Tank, and Roan Tank) will need minor appurtenance in-kind replacement if necessary, as they need minor rehabilitation. The tanks are located in remote locations and were subjected to vandalism over time. The Drifton and Barnes Run Pump Stations are also aging and in need of upgrading to more energy efficient units. The Drifton Pump Station currently has only a single pump to meet design discharge and no emergency power provisions. The upgraded station will provide two pumps for redundancy to meet design capacity, emergency power provisions, and necessary building improvements. The Barnes Run Raw Water Booster Station currently provides water to the HCA WTP on a common main line. HCA has experienced reduced flow and capacity when multiple sources are brought on line on this common main. Due to limitations in the existing pump intake pipes this project is proposing increasing the pump capacity and discharge design pressure by 10% over current design. The new capacity will improve operating conditions without significant reconstruction and cost of water intake piping. Emergency power provisions will also be added to this station as well as building maintenance. Lastly, to reduce unaccounted for water loss in the distribution system, HCA is proposing a fixed base leak detection system.

**POPULATION:** 45,000  
**GREEN PROJECT:** Yes  
**BUSINESS CASE:** Not Required

**PV RATING:** 73  
**GREEN CATEGORY:** Water Efficiency  
**GREEN AMOUNT:** \$200,000

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<b>APPLICANT NAME:</b> STONEBORO BORO - WATER SYSTEM INFRAS	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 46
<b>STREET ADDRESS:</b> LAKE STREET	<b>PWSID:</b> 6430056	<b>PROJRANK:</b> 10
<b>CITY:</b> STONEBORO	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$5,590,000
<b>COUNTY:</b> MERCER	<b>MTGDATE:</b> 7/18/2018	<b>PROJECT TYPE:</b> WS, DS, PS

**PROJ. DESCRIPTION:** The proposed project will include a 500,000-gallon new reservoir and removal of existing 300,000 gallon reservoir, a new booster pumping station and the replacement of approximately 21,800 feet (3.7 miles) of water mains and 25 fire hydrants.

**PROB. DESCRIPTION:** The existing finished water concrete reservoir was built in 1935 (10 feet deep by 80 feet in diameter and 300,000 gallons in volume). A hypalon cover was installed in 1989. The reservoir was designed to be gravity filled from the treatment facility. The top three (3) feet of the concrete reservoir is falling apart. The hypalon cover has developed several tears and holes and needs replaced. The current elevation differences between the treatment facility and reservoir is approximately 10 feet. When the potable water within the reservoir reaches 10 feet it overflows and is piped to an unnamed tributary of Saw Mill Run. The existing distribution system still has several asbestos-cement and steel water mains that are over 70 years. Breaks from these pipes are becoming more and more frequent. Also, several of these mains are undersized, with diameters ranging from 4 to 8 inches. The main line from the reservoir pump station to Mercer Road is only 4 inches in diameter. It is estimated that about 16,000 feet of asbestos cement pipes are still being used throughout the system, with most near its life expedience (over 70 years). The pumps are installed below grade, making repairs and maintenance very difficult. About 40% (193 of 488) of the customers are served by the pumping station. The other 60 % of the customers are served by gravity.

**POPULATION:** 1,104  
**GREEN PROJECT:** No  
**BUSINESS CASE:** N/A

**PV RATING:** 81  
**GREEN CATEGORY:** N/A  
**GREEN AMOUNT:** \$0

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APPLICANT NAME:	EAST STROUDSBURG BOROUGH-NEW WATER	REGION:	II	DEP PROJECT RATING:	43
STREET ADDRESS:	PO BOX 303	PWSID:	2450023	PROJRANK:	11
CITY:	EAST STROUDSBURG	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$2,416,000
COUNTY:	MONROE	MTGDATE:		PROJECT TYPE:	TRANS

**PROJ. DESCRIPTION:** The Borough of East Stroudsburg is proposing to replace the existing raw water supply intake and transmission pipeline from the intake structure of Middle Dam to the East Stroudsburg Water Filtration Plant. This project is being undertaken in conjunction with major rehabilitation work on Middle Dam. The existing transmission line will be abandoned in place and replaced by the new pipeline.

**PROB. DESCRIPTION:** The Borough of East Stroudsburg owns and maintains Middle Dam across Sambo Creek. The dam impounds the Borough's water supply reservoir. The PA DEP Division of Dam Safety identified deficiencies with the dam, which are being addressed by upcoming major rehabilitation work. Existing water supply piping through the dam is over 100 years old and existing transmission piping from the dam to the water treatment plant is over 50 years old. Replacing this aging infrastructure can be cost-effectively accomplished in conjunction with the dam rehabilitation work.

POPULATION: 13,000  
GREEN PROJECT: No  
BUSINESS CASE: N/A

PV RATING: 58  
GREEN CATEGORY: N/A  
GREEN AMOUNT: \$0

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<b>APPLICANT NAME:</b> HOUTZDALE MUN AUTH - WATER SYSTEM DIST	<b>REGION:</b> IV	<b>DEP PROJECT RATING:</b> 42
<b>STREET ADDRESS:</b> 612 BRISBIN ST.	<b>PWSID:</b> 6170023	<b>PROJRANK:</b> 12
<b>CITY:</b> HOUTZDALE	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$22,222,400
<b>COUNTY:</b> CLEARFIELD	<b>MTGDATE:</b> 7/18/2018	<b>PROJECT TYPE:</b> DS, METERS

**PROJ. DESCRIPTION:** The project involves the replacement of approximately 185,000 linear feet of waterline and related appurtenances within HMA's water system. The Project also includes the replacement of approximately 1,200 service lines. The replaced portion of the service lines will be restricted to the portion of the service lines owned and maintained by HMA. The project will also involve the installation of meter pits on each service line, to further reduce unaccounted for water loss. New waterlines will range in size from 2 inches to 8 inches, and will consist of mostly PVC piping, with some polyethylene tubing. Several existing pipe segments will be replaced with larger diameter pipes, in order to ensure a reliable amount of potable water is available throughout the system for the useful life of the waterline.

**PROB. DESCRIPTION:** The Houtzdale Municipal Authority (HMA) maintains a public water system with aging infrastructure. The infrastructure consists of multiple pipe compositions throughout the system that are approaching their useful lifespan. Water leakage detection has proven to be very difficult as a result of the expansive, aging infrastructure. A reliable supply of safe drinking water can, at times, be a challenge for the authority.

<b>POPULATION:</b> 8,410	<b>PV RATING:</b> 57
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

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<b>APPLICANT NAME:</b> LAPORTE BOROUGH WATER METER INSTALLA	<b>REGION:</b> IV	<b>DEP PROJECT RATING:</b> 41
<b>STREET ADDRESS:</b> P.O. BOX 125	<b>PWSID:</b> 2570004	<b>PROJRANK:</b> 13
<b>CITY:</b> LAPORTE	<b>FUND SOURCE:</b> STATE BYPASS	<b>PROJECT COST:</b> \$344,775
<b>COUNTY:</b> SULLIVAN	<b>MTGDATE:</b> 1/30/2019	<b>PROJECT TYPE:</b> METERS

**PROJ. DESCRIPTION:** The LaPorte Borough Municipal Water Company proposes to construct new meters and meter pits to comply with conditions of their Water Allocation permit.

**PROB. DESCRIPTION:** The LaPorte Borough Municipal Water Company is proposing to install system meters to comply with their water allocation permit. Since the system is not currently metered, they are having issues determining what the residential usage is and if this is within normal limits for typical household usage.

<b>POPULATION:</b> 325	<b>PV RATING:</b> 56
<b>GREEN PROJECT:</b> Yes	<b>GREEN CATEGORY:</b> Water Efficiency
<b>BUSINESS CASE:</b> Not Required	<b>GREEN AMOUNT:</b> \$344,775

<b>APPLICANT NAME:</b> BEDFORD BOROUGH MA WATER IMPROVEMEN	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 40
<b>STREET ADDRESS:</b> 244 WEST PENN STREET	<b>PWSID:</b> 4050002	<b>PROJRANK:</b> 14
<b>CITY:</b> BEDFORD	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$3,880,000
<b>COUNTY:</b> BEDFORD	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS

**PROJ. DESCRIPTION:** The Municipal Authority of the Borough of Bedford (MABB) is undertaking a project to upgrade their existing water distribution system. Approximately 18,450 linear feet of antiquated waterline will be replaced with new 4-inch to 12-inch C900 polyvinyl chloride pipe. Fire hydrants will be added or replaced where appropriate. Service lines reconnecting the customer to the new line will also be installed. Most of the utility replacements are to occur within the Bedford Borough limits with the remainder occurring in Bedford Township.

**PROB. DESCRIPTION:** The Authority's drinking water system is old, antiquated and leaking. Some sections of transite or asbestos-cement pipe and cast-iron pipe were installed prior to 1961 while others were installed between 1961-1989. The Authority has averaged an unaccounted-for-water usage of about 163,000 gallons per day since 2013.

<b>POPULATION:</b> 5,127	<b>PV RATING:</b> 55
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

**LEGEND FOR PROJECT TYPE:**

**SRC = SOURCE    TRANS = TRANSMISSION SYSTEM    TREAT=TREATMENT    WS = WATER STORAGE    DS = DISTRIBUTION SYSTEM**

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION

FEDERAL FY 2019

DRINKING WATER PROJECT PRIORITY LIST

APRIL 17, 2019

APPLICANT NAME: EASTON SUBURBAN WATER AUTH-LOWER NAZ	REGION: II	DEP PROJECT RATING: 38
STREET ADDRESS: CITY HALL 650 FERRY STREET	PWSID: 3480050	PROJRANK: 15
CITY: EASTON	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$7,617,500
COUNTY: NORTHAMPTON	MTGDATE:	PROJECT TYPE: PS, DS

**PROJ. DESCRIPTION:** The Easton Suburban Water Authority (ESWA) propose to construct the following facilities to alleviate the problems noted above: (a) construct a new 3.74 Million Gallon per Day (MGD) pumping station along Country Club Road to replace the current 1.7 MGD Butztown Pumping Station feeding the ESWA's Lower Nazareth Pressure Zone; (b) install approximately 2,600 LF of 16-inch suction main from the east side of State Route (SR) 33 to the new pumping station; (c) install approximately 6,900 LF of 16-inch discharge main from the new pumping station to an existing 16-inch suction main; transferring services from the existing 6-inch water main to the new 16-inch water main; and abandoning the existing 6-inch water main; and (d) install approximately 7,600 LF of 12-inch main on SR 191 (Nazareth Pike) from Newburg Road north to Christian Springs Road to improve water distribution within the pressure zone including improved reliability, fire flows, and overall pressure zone water age and water quality. The Project scope includes replacement and new fire hydrants (9) and gate valves along the project route. Approximately 75 service connections (up to curb box) will also be replaced as needed. Security cameras will be provided at the new pumping station to enhance site security. The project will increase the reliability of service and enhance ESWA's ability to maintain and operate their system.

**PROB. DESCRIPTION:** The project is proposed to address the following problems in the Easton Suburban Water Authority's (ESWA) Lower Nazareth Pressure Zone: (a) aging pumping station equipment and aging priority water mains that reduce reliability of water service, (b) water main breaks and service line leaks attributing to unaccounted for water losses (unaccounted for water loss of 14% in the most recent Annual Water Supply Report), (c) available fire flows throughout the service area of less than ISO recommended availability, (d) hydraulic limitations due to the existing pressure zone configuration, (e) projected water storage needs requiring a sustainable and cost effective solution while considering water quality impacts including disinfection byproducts (TTHM) [The system was required to submit a report for exceeding the TTHM operation evaluation level (OEL) of 0.080 mg/l under Stage 2 DDBP 109.701(2)(iii). At this time, there are no violations issued by the Department.], and (f) higher water age due to consecutive pressure zone at the end of the ESWA's system. The existing distribution system pumping station and priority water mains are aging and becoming more unreliable due to increased maintenance needs and leaks, and are in need of repair and rehabilitation. Several factors contribute to the limited available fire flow within the area including: water storage location at the extreme of the pressure zone, poor hydraulic connectivity of the water storage tank to the majority of the service area, main sizes, and pumping limitations. The current pumping station location requires drawing suction thousands of lineal feet through the Lower Nazareth Pressure Zone then discharging back to those same areas, causing increased water age and inefficiencies in the system. The new pumping station is to be located near the Knox Avenue Pressure Zone from which it pulls suction and therefore reduces inefficiencies. Demand and water storage requirement projections for the pressure zone indicate an estimated need for additional storage within a five (5) year timeframe. However, traditional methods of adding additional storage would increase already existing issues with water age, tank turnover, and disinfection byproducts. As noted above, ESWA proposes this distribution main replacement/installation and pump station construction project.

POPULATION: 93,400

PV RATING: 53

GREEN PROJECT: No

GREEN CATEGORY: N/A

BUSINESS CASE: N/A

GREEN AMOUNT: \$0

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PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION

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DRINKING WATER PROJECT PRIORITY LIST

APRIL 17, 2019

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APPLICANT NAME:	WORTHINGTON-WEST FRANKLIN JMA - WATER	REGION:	V	DEP PROJECT RATING:	38
STREET ADDRESS:	P.O. BOX O	PWSID:	5030027	PROJRANK:	16
CITY:	WORTHINGTON	FUND SOURCE:	DWSRF	PROJECT COST:	\$2,100,000
COUNTY:	ARMSTRONG	MTGDATE:	10/17/2018	PROJECT TYPE:	DS

PROJ. DESCRIPTION: The proposed project will consist of the installation of 13,000 feet of 2-inch, 6-inch and 8-inch diameter waterline and appurtenances (Craigsville Waterline Extension Project). The project will also add approximately 62 customers in the Craigsville area of West Franklin Township.

PROB. DESCRIPTION: Residents of the Craigsville area of West Franklin Borough have poor water quality and quantity due to mining in the area, including high levels of iron, manganese, sulfate, total dissolved solids and low pH. Project will improve water quality and quantity within the service area.

POPULATION: 1,500  
GREEN PROJECT: No  
BUSINESS CASE: N/A

PV RATING: 61  
GREEN CATEGORY: N/A  
GREEN AMOUNT: \$0

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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DRINKING WATER PROJECT PRIORITY LIST  
APRIL 17, 2019**

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APPLICANT NAME: WILLIAMSBURG MUNICIPAL AUTHORITY WATE	REGION: III	DEP PROJECT RATING: 37
STREET ADDRESS: 305 EAST SECOND STREET	PWSID: 4070022	PROJRANK: 17
CITY: WILLIAMSBURG	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,384,420
COUNTY: BLAIR	MTGDATE:	PROJECT TYPE: SRC, TREAT, PS, DS

**PROJ. DESCRIPTION:** Authority has proposed to install a new well pump at well number 1, construct a new disinfection system/building, install two new packaged water booster pump stations, replace existing water mains, and extend the distribution system. Approximately 3,400 linear feet and 3,900 linear feet of existing asbestos cement waterline in the Fayetteown and Sage Hill areas, respectively, will be replaced. Approximately 3,700 linear feet of new waterline will be installed along Ridge Road to connect to 14 additional customers.

**PROB. DESCRIPTION:** The existing facilities/equipment, which were installed in the late 1960s with minor upgrades made in the late 1990s, have met or exceeded their operational lifespan. To avoid major equipment failures or a total system shutdown, the Authority proposes to upgrade the plant to improve potable water supply reliability to the service area.

POPULATION: 1,800	PV RATING: 52
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

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APPLICANT NAME: SLIPPERY ROCK MUNICIPAL AUTHORITY WATE	REGION: VI	DEP PROJECT RATING: 36
STREET ADDRESS: 514 SOUTH MAIN ST, PO BOX 83	PWSID: 5100079	PROJRANK: 18
CITY: SLIPPERY ROCK	FUND SOURCE: DWSRF	PROJECT COST: \$1,622,500
COUNTY: BUTLER	MTGDATE: 1/30/2019	PROJECT TYPE: DS

**PROJ. DESCRIPTION:** Approximately 5,500 linear feet of 8-inch C-900 water line and appurtenances will be installed as part of the project. Additionally new service laterals to the right-of-way (ROW) boundary will be installed.

**PROB. DESCRIPTION:** Slippery Rock Municipal Authority (SRMA) is proposing to upgrade portions of their waterlines on State Route (SR) 258 and SR 173. The water line upgrades are necessary to address frequent breaks and antiquated piping. Project will help authority reduce unaccounted for water loss.

POPULATION: 15,778	PV RATING: 51
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

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