

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DRINKING WATER STATE REVOLVING FUND  
FEDERAL FY2021 - PROJECT PRIORITY LIST  
UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

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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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**LEGEND FOR PROJECT TYPE:**

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<b>APPLICANT NAME:</b> MUNICIPAL WATER AUTH. OF ALIQUIPPA- LEAD SERVICE LINE REPL.	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 91
<b>STREET ADDRESS:</b> 160 HOPEWELL AVENUE	<b>PWSID:</b> 5040006	<b>PROJRANK:</b> 1
<b>CITY:</b> ALIQUIPPA	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$1,867,000
<b>COUNTY:</b> BEAVER	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** This project includes the replacement of 184 existing lead water service lines from the main line to property line (curb box) with 3/4" copper water service lines. To determine the material type of the service lines the contractor excavated roughly 250 sites via vacuum truck for visual inspection of the service lines. Of these 250 sites, 170 have been identified as having lead service lines, while the remaining were either copper or unable to be accessed. An additional 14 sites are suspected as lead service lines due to the identified buffalo style curb boxes, which have had a history of containing lead service lines. This brings the total project scope to 184 properties known or strongly suspected of having lead service lines. In regards to the private side of the service lines, it is assumed that roughly 10% of the total sites will have lead, or 18 private side service lines to be replaced. MWAA is committed to replacing the private side of the service lateral. Based on historic experience and a limited field verification in January/February 2021, a value of 10% of the service lines that contain lead on the public side will also contain lead on the private side. Confirmation on the private side will be conducted via excavation during construction. Construction includes service line replacement including corporation at the main, curb box, and connection to existing just outside of structure wall, trench restoration, curb, sidewalk, walkway, lawn, and roadway restoration, and all appurtenances required for complete construction.

**PROB. DESCRIPTION:** The purpose of this project is to remove existing lead service lines in the Municipal Water Authority of Aliquippa (MWAA) service area to improve the overall water quality and reduce the health risk that is present due to the aging lines. Lead in drinking water can cause brain and kidney damage, and interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children and pregnant women. Studies have shown that the effects of lead on the brain correlate with lowered IQ in children. The Lead and Copper Rule was established to protect public health by minimizing lead and copper levels in drinking water, primarily by making water less corrosive. When the water is corrosive, the lead and copper found in plumbing materials can leach into drinking water. Pennsylvania's Lead and Copper Rule establishes an action level of 0.015 mg/L for lead and 1.3 mg/L for copper. MWAA is required to conduct sampling every 6 months. An action level exceedance occurs if the results from more than 10% of the homes tested are above the action level. For the monitoring period of January 1 to June 30, 2020 MWAA had 32 samples collected and tested for lead. The 90th percentile value for lead was 0.0421 mg/L, exceeding the 0.015 mg/L action limit by almost three times. Due to these results MWAA has been required to do additional parameter monitoring, corrosion control treatment, source water monitoring/treatment, and public education. In addition to these requirements, the removal of lead lines in the system has become a priority.

<b>POPULATION:</b> 14,250	<b>PV RATING:</b> 116
<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> ALTOONA WATER AUTHORITY -BELLWOOD WATER TREAT. FACILITY IMP.	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 78
<b>STREET ADDRESS:</b> 20 GREENWOOD ROAD	<b>PWSID:</b> 4070023	<b>PROJRANK:</b> 2
<b>CITY:</b> ALTOONA	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$9,900,000
<b>COUNTY:</b> BLAIR	<b>MTGDATE:</b> 1/20/2021	<b>PROJECT TYPE:</b> TREAT

**PROJ. DESCRIPTION:** The proposed upgrades include installing a new ozone generating system, membrane filtration system, chemical feed system upgrades, reservoir aeration system, and miscellaneous upgrades regarding the building structure.

**PROB. DESCRIPTION:** The existing facilities at the Bellwood Water Treatment Plant are over twenty-four years old and most of the existing equipment is at the end of its useful life. Project will help authority consistently serve potable water to the service area.

<b>POPULATION:</b> 62,500	<b>PV RATING:</b> 97
<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> PWSA - LSL & 2021 SMALL DIAMETER WATER MAIN REPLACEMENT	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 71
<b>STREET ADDRESS:</b> 441 SMITHFIELD ST.	<b>PWSID:</b> 5020038	<b>PROJRANK:</b> 3
<b>CITY:</b> PITTSBURGH	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$38,550,000
<b>COUNTY:</b> ALLEGHENY	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** The project includes replacement of 24,752 LF of aging 4" to 12" diameter pipes with new zinc coated ductile iron pipe ranging from 8" to 12" in diameter, 59 fire hydrants, 870 public service lines at 14,668 LF of which 218 are lead public service lines, 546 private service lines at 20,108 LF of which 219 are lead private service lines.

**PROB. DESCRIPTION:** The 2021 Small Diameter Water Main Replacement Contracts include the replacement of approximately 24,752 LF of aging 4" to 12" diameter pipes with new zinc coated ductile iron pipe ranging from 8" to 12". This work includes the replacement of water mains, valves, 59 fire hydrants, and water service lines. Water mains were selected for replacement based on a number of risk-factors, including the prioritization of undersized mains, mains with a history of breaks, and the presence of lead service lines.

They will be replacing 870 public service lines, which is the portion of the service line that PWSA owns from the main to the curb stop. Of the 870 public service lines, 218 are lead. PWSA will also be replacing an estimated 546 private service lines, which will be the lines that the property owner owns between the curb stop and the meter as well as any service lines larger than 1" in diameter servicing both residential and commercial properties. Of the 546 private lead service lines, 219 are lead. Estimated Length of Public service line replaced is 14,668 LF and estimated length of private service line to be replaced is 20,108 LF. Of the total \$38,550,000 project it is expected that portion of work associated with lead service lines (219 private & 218 public) will be \$2,900,000.

Replacement of these mains will reduce the frequency of water main breaks, which will minimize the risk to public health caused by the resulting potential exposure to infectious diseases and will reduce the impact of unplanned water outages and street closures required due to emergency repairs. The replacement of older, leak-prone mains will also provide for more efficient management of water resources by reducing the amount of treated water that is lost from the system. Furthermore, the additional volume of water that will be able to be delivered to areas with inadequate flow will reduce restrictions on development within the affected areas. The water main replacement work will occur within the City of Pittsburgh and will benefit the existing population within the area and provide improved opportunities for future development.

<b>POPULATION:</b> 520,000	<b>PV RATING:</b> 98
<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> MAHONING TOWNSHIP MUNICIPAL AUTH. WATER SYSTEM IMPROVEMENT	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 65
<b>STREET ADDRESS:</b> P.O.BOX 168	<b>PWSID:</b> 5030024	<b>PROJRANK:</b> 4
<b>CITY:</b> DISTANT	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$3,651,220
<b>COUNTY:</b> ARMSTRONG	<b>MTGDATE:</b> 4/22/2020	<b>PROJECT TYPE:</b> DS, PS, WS

**PROJ. DESCRIPTION:** This water system improvements project consists of purchasing and installing a new meter vault, approximately 13,000 linear feet of 8-inch high density polyethylene waterline, a new booster pump station equipped with 100 horse power duplex pumps and an emergency generator. The project also includes purchasing and installing a new 200,000-gallon elevated composite storage tank with a mixing system to address occurrences of trihalomethanes maximum contaminant levels exceedances. This will increase water delivery rate, increase system pressures and reduce instances of total trihalomethanes (TTHM) violations.

**PROB. DESCRIPTION:** The existing Mahoning Township Municipal Authority water system is over 55 years old and has been plagued by insufficient water delivery rate, low system pressures and capacity issues. The existing booster station pumps are aged and the booster station does not have an emergency power back-up. The piping from the booster station to the existing 188,000-gallon standpipe is a 3-inch diameter watermain which lacks capacity and has experienced multiple leaks and breaks. The existing standpipe is not equipped with a mixing system and has caused the system operator to receive notices of violation (NOVs) for total trihalomethane disinfection by-product issues.

**POPULATION:** 9,000

**PV RATING:** 82

**GREEN PROJECT:** Yes

**GREEN CATEGORY:** Water & Energy Efficiency

**BUSINESS CASE:** Required

**GREEN AMOUNT:** \$1,758,420

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<b>APPLICANT NAME:</b> MIDDLEBURG MUNICIPAL AUTHORITY - WATER SYSTEM IMPROVEMENTS	<b>REGION:</b> IV	<b>DEP PROJECT RATING:</b> 60
<b>STREET ADDRESS:</b> 13 N. MAIN STREET	<b>PWSID:</b> 4550016	<b>PROJRANK:</b> 5
<b>CITY:</b> MIDDLEBURG	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$4,586,200
<b>COUNTY:</b> SNYDER	<b>MTGDATE:</b> 1/20/2021	<b>PROJECT TYPE:</b> TREAT, WS

**PROJ. DESCRIPTION:** Middleburg Municipal Authority (MMA) proposes to install a 290,000-gallon concrete contact tank, a new meter building, a 163,000-gallon standpipe tank, to replace approximately 10,000 feet of water mains, replace 3 water meters to new electromagnetic flow meters, replace 5 turbidimeters, replace the filter media, re-coat the 3 filter units and replace the underlying porous plate underneath the filter media. The standpipe storage tank and water mains will be located in Middleburgh Borough, while the water filtration plant rehabilitation and concrete contact tank construction will be located in Franklin Township.

**PROB. DESCRIPTION:** The project intends to replace the old reservoir and outlet pipe with a new 290,000-gallon concrete contact tank and removing debilitated water main piping to reduce maintenance costs and allow the use of Well #3. Additionally, a secondary standpipe tank is proposed to ensure adequate pressure within the distribution system, as well as adequate reserve volume during emergency fire flows. This will improve water adequacy and public health and safety. Also, the use of Well #3 will help with alleviating water drawdown from the surface water sources during low rainfall periods to help preserve aquatic life in the streams.

<b>POPULATION:</b> 1,600	<b>PV RATING:</b> 79
<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> CITY OF PHILADELPHIA TORRESDALE FILTERED WATER PS REHAB.	<b>REGION:</b> I	<b>DEP PROJECT RATING:</b> 55
<b>STREET ADDRESS:</b> 1101 MARKET STREET	<b>PWSID:</b> 1510001	<b>PROJRANK:</b> 6
<b>CITY:</b> PHILADELPHIA	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$60,000,000
<b>COUNTY:</b> PHILADELPHIA	<b>MTGDATE:</b> 4/22/2020	<b>PROJECT TYPE:</b> PS

**PROJ. DESCRIPTION:** The PWD is proposing to install 6 new high service pumps to meet a 50MGD demand and 6 new low pressure pumps. to meet the 196MGD demand. Two transfer pumps will be installed to provide system flexibility and to reduce low service pumping if needed. Two new hydropneumatic surge tanks will also be installed along with new mag meters.

**PROB. DESCRIPTION:** The Torresdale Filtered Water Pumping Station was built in the 1940's provides water to the low and high pressure distribution areas. The station consists of 12 inefficient pumps that are at the end of their useful life. The pumps have been repaired many times and due to their age, spare parts are no longer available. The Philadelphia Water Department run the risk of an outage if these pumps remain in service. Project will improve operation of the system.

<b>POPULATION:</b> 1,755,0	<b>PV RATING:</b> 70
<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> CITY OF LANCASTER WATER INFRASTRUCTURE IMPROVEMENTS	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 53
<b>STREET ADDRESS:</b> 150 PITNEY ROAD	<b>PWSID:</b> 7360058	<b>PROJRANK:</b> 7
<b>CITY:</b> LANCASTER	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$10,550,000
<b>COUNTY:</b> LANCASTER	<b>MTGDATE:</b> 10/21/2020	<b>PROJECT TYPE:</b> TREAT, DS

**PROJ. DESCRIPTION:** The City of Lancaster will be installing three (3) new emergency power generators at water treatment facilities to ensure that safe and potable water is continuously supplied to users if a facility loses the primary source of power. The generators will be installed at the Conestoga Water Treatment Plant, the Susquehanna Water Treatment Plant, and the low service pump station. A new diesel-powered emergency generator and fuel tank will be installed at each location within previously disturbed areas. The City will also constructing a new 16-inch ductile iron cement lined water main within the Millersville Pike right-of-way to replace the existing 8-inch asbestos cement main. This main replacement will achieve higher sustained minimum pressures during peak flow events and provide increased transmission capacity and increased reliability. The project involves 7,500 linear feet of water main along Millersville Pike from Charles Road to State Route 741.

**PROB. DESCRIPTION:** The City of Lancaster operates two (2) water treatment plants which combined supply 36 million gallons per day of potable water to approximately 118,000 people in 10 municipalities in Lancaster County. These facilities are critical for the reliable supply of safe potable water to the community. The treatment plants do not currently have a stand-by power source for emergencies when the primary source of power is lost. The City's water system also does not have enough water storage capacity if the treatment plants are offline for a significant period of time. The 2019 General Update to PA regulations Title 25, Chapter 109.708 requires that community water suppliers take steps to ensure uninterrupted water service. The emergency generators are needed to comply with this regulation change, which is required by August 2021. The existing 8-inch asbestos cement water main along Millersville Pike is over 70 years old and subject to water main breaks due to age. The main is not adequately sized to provide sufficient water capacity and pressure to the service area.

<b>POPULATION:</b> 140,000	<b>PV RATING:</b> 68
<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> COLUMBIA WATER COMPANY - INTAKE AND DISTRIBUTION SYSTEM IMP.	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 53
<b>STREET ADDRESS:</b> 220 LOCUST STREET	<b>PWSID:</b> 7360123	<b>PROJRANK:</b> 8
<b>CITY:</b> COLUMBIA	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$4,500,000
<b>COUNTY:</b> LANCASTER	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> SRC, WS, PS

**PROJ. DESCRIPTION:** This project has three components. The first consists of construction of a new river intake adjacent to the existing intake in the Susquehanna River for the Walnut Street Water Treatment Plant, installation of a new air burst system, installation of a frazil ice protection system, and installation of a new valve vault. The second consists of rehabilitation of the Prospect Road Tank. The third consists of installation of an emergency generator at the Spruce Street Booster Station.

**PROB. DESCRIPTION:** The existing intake consists of only bar screens, which allow passage of sediment and debris to the water treatment plant resulting in increased maintenance. The existing intake is also subject to clogging by sediment and frazil ice and requires frequent backflushing. The proposed intake will be constructed of wedge wire passive screens in a half-barrel configuration which will reduce the passage of sediment and debris. The proposed air burst system will be used for backflushing the proposed intake screens. The proposed frazil ice protection system will prevent the formation of frazil ice on the proposed intake. The existing intake will remain, and the proposed valving will allow for use of the proposed intake and/or the existing intake, to provide redundancy. The existing valve vault is located on the river's edge and inaccessible during floods or ice jams. The proposed valve vault will allow safe operation of the valves during these conditions. The Prospect Road Tank was recently inspected and found to be in need of a complete replacement of the interior coating system and, at a minimum, an over-coating of the exterior coating. An emergency generator is required at the Spruce Street Booster Station to meet the Department's uninterrupted service requirements.

<b>POPULATION:</b> 25,001	<b>PV RATING:</b> 68
<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> LEHIGH COUNTY AUTHORITY - HIGH LIFT VFD REPLACEMENT	<b>REGION:</b> II	<b>DEP PROJECT RATING:</b> 50
<b>STREET ADDRESS:</b> 1300 MARTIN LUTHER KING JR.DR	<b>PWSID:</b> 3390024	<b>PROJRANK:</b> 9
<b>CITY:</b> ALLENTOWN	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$2,000,000
<b>COUNTY:</b> LEHIGH	<b>MTGDATE:</b> 1/20/2021	<b>PROJECT TYPE:</b> PS

**PROJ. DESCRIPTION:** The Allentown WTP has three high lift service pumps, two of which are on Rubicon variable frequency drives (VFDs). Pump 3 is run at constant speed via a reduced voltage soft starter (RVSS). The scope of the project is primarily electrical in nature with some minor structural building work and proposes to replace the two existing Rubicon VFDs and add a third VFD to the third pump all rated for 2,300-volts, 3 phase power. The proposed modifications would replace antiquated electrical equipment, increase the pump station's reliability and provide additional flexibility for meeting finished water capacity demands. An increase in permitted capacity is not proposed. This will enhance LCA's ability to operate and maintain its PWS system.

**PROB. DESCRIPTION:** The Lehigh County Authority (LCA) – Allentown Division proposes an extensive maintenance and rehabilitation project of their three high lift service pumps at their Allentown Water Treatment Plant (WTP) located in the City of Allentown, Lehigh County. The existing high lift pumping system at the Allentown WTP is aging and in need of repair and rehabilitation. A critical element of the Allentown WTP are the high service pumps which is the primary means of conveying water into the distribution system. The manufacturer no longer supports the equipment (approximately 25 years old) and spare parts are no longer readily available so concerns of reliability are paramount. Each pump was originally rated for 10,500 gallons per minute (gpm) at 290 feet of total dynamic head; however, both Pumps 1 and 3 have been modified to supply less than the rated capacity. The pumps are equipped with 1,000 horsepower motors rated for 2,300-volt, 3 phase power. The Allentown WTP has three high lift service pumps, two of which are on Rubicon variable frequency drives (VFDs). Pump 3 is run at constant speed via a reduced voltage soft starter (RVSS). The scope of the project is primarily electrical in nature with some structural building work and is to replace these two existing Rubicon VFDs and add a third VFD to the third pump all rated for 2,300-volts, 3 phase power. This option replaces antiquated electrical equipment, increases pump station reliability and provides additional flexibility for meeting finished water capacity demands. An increase in permitted capacity is not proposed.

<b>POPULATION:</b> 118,000	<b>PV RATING:</b> 65
<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> AQUA PA - NORTH HILLS WELL STATION PFAS TREATMENT SYSTEM	<b>REGION:</b> I	<b>DEP PROJECT RATING:</b> 50
<b>STREET ADDRESS:</b> 762 LANCASTER AVE.	<b>PWSID:</b> 1460073	<b>PROJRANK:</b> 10
<b>CITY:</b> BRYN MAWR	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$3,970,600
<b>COUNTY:</b> MONTGOMERY	<b>MTGDATE:</b> 10/21/2020	<b>PROJECT TYPE:</b> TREAT

**PROJ. DESCRIPTION:** This project proposes to install two ion exchange vessels and cartridge filtration in addition to upgrades to the chemical treatment systems and installation a new well pump. Treatment upgrades include a new sodium hypochlorite feed system with a larger double storage tank, separate ammonium sulfate and bimetallic phosphate feed systems. The proposed well pump will have the same capacity, however will operate at a higher pressure and will be equipped with a VFD. New electrical equipment and piping will be installed to accommodate the new equipments.

**PROB. DESCRIPTION:** Current well station is old and need rehabilitation to include PFAS treatment. Project will help reduce/eliminate PFAS from the water and help system supply potable water to its customer.

<b>POPULATION:</b> 79,710	<b>PV RATING:</b> 65
<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> SHINGLEHOUSE BOROUGH - WELL NO. 2 IMPROVEMENTS PROJECT	<b>REGION:</b> IV	<b>DEP PROJECT RATING:</b> 48
<b>STREET ADDRESS:</b> P.O.BOX 156	<b>PWSID:</b> 6530013	<b>PROJRANK:</b> 11
<b>CITY:</b> SHINGLEHOUSE	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$1,078,785
<b>COUNTY:</b> POTTER	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> TREAT

**PROJ. DESCRIPTION:** The project will include the removal of the current inoperable treatment equipment, demolition and re-building of the control building, installation of new iron and manganese filtration system, chlorination and flow monitoring equipment and associated electrical construction.

**PROB. DESCRIPTION:** Well No. 2 is only used for emergency purposes as the water from this well does not currently meet US EPA or PA DEP requirements for water quality, specifically for Iron and Manganese concentrations. When Well #2 is utilized to either supplement or replace the distribution of water from the Borough's main source well (Well #3), the Borough must issue a boil water advisory, though the water delivered is incapable of meeting the iron and manganese treatment standards. Recent PA DEP regulations enacted require that the Borough possess a suitable backup source of water to its distribution system, with Well #2 being that source of backup. Water from Well #2 needs to be properly treated to allow for its distribution to the Borough's customers due to the high levels of iron and manganese in the source water. The currently inoperable treatment equipment at the well building requires removal in order to install a new treatment system. Additionally, the building which houses the well, existing treatment system and all electrical controls is in a poor structural condition and requires replacement with a new control building to house the equipment to prevent further structural deterioration.

<b>POPULATION:</b> 1,250	<b>PV RATING:</b> 71
<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  
DRINKING WATER STATE REVOLVING FUND  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> ALTOONA WATER AUTHORITY- TIPTON/PLANE NINE/MILL RUN WTP UPGR	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 48
<b>STREET ADDRESS:</b> 20 GREENWOOD ROAD	<b>PWSID:</b> 4070023	<b>PROJRANK:</b> 12
<b>CITY:</b> ALTOONA	<b>FUND SOURCE:</b> DWSRF	<b>PROJECT COST:</b> \$7,500,000
<b>COUNTY:</b> BLAIR	<b>MTGDATE:</b> 10/21/2020	<b>PROJECT TYPE:</b> TREAT

**PROJ. DESCRIPTION:** The Authority has proposed to replace the existing ozone generation and feed systems Tipton, Plane Nine, and Mill Run Water Treatment Plants. The new systems will consist of liquid oxygen storage and feed gas preparation systems and additional equipment.

**PROB. DESCRIPTION:** The existing ozone generation and feed systems at the Tipton, Plant Nine, and Mill Run Water Treatment Plants were installed/placed in operation in the early 1990's and have reached the end of their service life. Project will help system effectively disinfect the finished water and supply potable water to the customers.

<b>POPULATION:</b> 62,500	<b>PV RATING:</b> 63
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

<b>APPLICANT NAME:</b> M. A. OF THE BOROUGH OF DERRY- LEAD LINE SERVICE REPLACEMENT	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 47
<b>STREET ADDRESS:</b> 620 NORTH CHESTNUT STREET	<b>PWSID:</b> 5650049	<b>PROJRANK:</b> 13
<b>CITY:</b> DERRY	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$2,896,669
<b>COUNTY:</b> WESTMORELAND	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** This project will replace approximately 170 Lead Service Lines from the main line to the curb stops. The property owners' lines from the curb stops to their homes are all updated and no longer lead. Portions of the distribution lines are imperative to replace in order to facilitate the number of taps for the new services replacing the old lead services.

**PROB. DESCRIPTION:** The Municipal Authority of the Borough of Derry knows of approximately 170 lead service lines to replace. The replacement of the lead service lines will better serve the customers and provide safer drinking water. By replacing the lead service lines in the area it will eliminate the potential contamination of public drinking water that would threaten the health of the residents. Additionally, it will help eliminate breaks and damaged roadways and water pressure should improve for these customers as well.

<b>POPULATION:</b> 6,500	<b>PV RATING:</b> 62
<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:**

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> KNOX BOROUGH - EAST PENN AVENUE WATER LINE PROJECT	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 45
<b>STREET ADDRESS:</b> P.O. BOX 366	<b>PWSID:</b> 6160005	<b>PROJRANK:</b> 14
<b>CITY:</b> KNOX	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$1,577,200
<b>COUNTY:</b> CLARION	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** Project includes 76 existing service connections from the new water main to the service line curb stop including the connection at the main and the curb stop. Any service line pipe that is made of lead between the curb stop and the residence or business will be replaced, and 15 of those service lines are anticipated to be encountered. 5,100 feet of 8" water line be installed to replace existing 4" cast iron water lines. 9 fire hydrants and 23 main water valves will also be replaced.

**PROB. DESCRIPTION:** All of the water mains within the project area are cast iron. All of the joints between pipes are sealed with lead. All of the joints between the pipes and water valves are sealed with lead. All of the water line fittings, such as tees and bends, are sealed with lead. All of the existing fire hydrant connections are sealed with lead. All of the service lines between the water main connection and the service line shut off, or curb stop, are made of lead pipe, and the connection fittings and the curb stops are made of lead. Some of the water service pipe between the curb stop and the customer's water meter located inside of their home or business is made of lead.

<b>POPULATION:</b> 1,380	<b>PV RATING:</b> 60
<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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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> WEST VIEW WATER AUTHORITY LEAD SERVICE LINE REPL. WIFTA	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 44
<b>STREET ADDRESS:</b> 210 PERRY HIGHWAY	<b>PWSID:</b> 5020043	<b>PROJRANK:</b> 15
<b>CITY:</b> PITTSBURGH	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$6,600,000
<b>COUNTY:</b> ALLEGHENY	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** This project includes replacement of 500 lead service lines. This include over 20,000 linear feet of 3/4" copper pipe, 500 curb boxes and valves, 500 pressure reducers, 500 internal shut off valves, and 500 backflow preventers. The project will also include restoration of damaged surface features such as roads, sidewalk, landscaping, driveways, walls, steps, and other items necessary to make the full-length replacement.

**PROB. DESCRIPTION:** West View Water Authority has a large number of services (line between the main and the water meter in the residence) that are at least partially constructed of lead pipe. Lead is a large health issue with guidance to eliminate lead throughout the water system. The project will eliminate lead pipe for approximately 500 water services. It is expected that the 500 services replaced will be lead on both the private and public side. Services will be scheduled for replacement that have lead on both the private and public portion of the service.

<b>POPULATION:</b> 200,000	<b>PV RATING:</b> 59
<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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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> NEW KENSINGTON - LEAD SERVICE LINE REPLACEMENT WIFTA	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 42
<b>STREET ADDRESS:</b> P O BOX 577, 920 BARNES STREET	<b>PWSID:</b> 5650070	<b>PROJRANK:</b> 16
<b>CITY:</b> NEW KENSINGTON	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$1,753,876
<b>COUNTY:</b> WESTMORELAND	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** The project includes replacement of approximately 326 service lines. It is anticipated that main lines will remain intact. New service saddles, corporations and curb stops and curb boxes will be installed as a part of the project. If the private service line is also lead, it will be replaced up to the house connection as a part of the project. The estimate includes lead service line replacement and reconnection to the main line and customer service line. If the customer service line is also lead, the long service price will be used for replacement along with appurtenances and restoration.

**PROB. DESCRIPTION:** The existing service lines in the areas are lead lines which could lead to contamination of public drinking water and threaten the health of the residents. The service lines are old and deteriorated and filled with calcification. The residents of the streets have been subjected to numerous service line leaks, which result in inconveniences – no water until the repair is made, and damage to their roadway. The new line will improve the water pressure and the water quality for the residents. Less water leaks will provide a more efficient system (operational and economical) and lower unaccounted for water amounts.

<b>POPULATION:</b> 47,800	<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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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> WILKINSBURG-PENN JT. W. A. LEAD SERVICE LINE REPL. WIFTA	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 42
<b>STREET ADDRESS:</b> 2200 ROBINSON BOULEVARD	<b>PWSID:</b> 5020056	<b>PROJRANK:</b> 17
<b>CITY:</b> WILKINSBURG	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$9,330,720
<b>COUNTY:</b> ALLEGHENY	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** This project will replace approximately 1,000 lead water service lines with copper water service lines. Construction will consist of removal of approximately 1,000 existing lead service lines on the both the WPJWA and customer side of the water service lines, approximately 40,000 linear feet of new 1-inch copper water service lines, 1,000 curb boxes, and associated surface restoration.

**PROB. DESCRIPTION:** Wilkinsburg-Penn Joint Water Authority (WPJWA) owns and maintains their water distribution system. The distribution system includes 432 miles of water lines ranging in size from 4-inch to 48-inches and 48,184 water service lines. Of the 48,184 water service lines, 2,589 are constructed of lead on both the customer side and the WPJWA side. Water service lines were commonly made from lead in the early 20th century and lead solder was used until it was banned in 1986. Corrosion of the lead service lines causes lead to enter drinking water. Lead is toxic to humans and exposure can cause a number of serious health concerns.

<b>POPULATION:</b> 125,000	<b>PV RATING:</b> 67
<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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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> GA OF CITY OF FRANKLIN - LEGACY LEAD WATERLINE ELIMINATION	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 41
<b>STREET ADDRESS:</b> 430 13TH STREET	<b>PWSID:</b> 6610020	<b>PROJRANK:</b> 18
<b>CITY:</b> FRANKLIN	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$914,602
<b>COUNTY:</b> VENANGO	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** The project will include the replacement of four identified lead piping and joints areas. Area 1 with 700 ft. of mainline and 300 ft. of laterals that serve 15 connections, area 2 with 1000 ft. of mainline and 500 ft. of laterals that serve 31 connections, area 3 with 800 ft. of mainlines and 500 ft. of laterals that serve 28 connections and area 4 with 500 ft. of mainlines and 100 ft. of laterals that serve 5 connections. All identified lead piping and joints will be replaced with plastic pipes up to the curb stop of 79 connections. The total estimated length of pipe is approximately 4,400 L.F.

**PROB. DESCRIPTION:** The General Authority of the City of Franklin (GACF) provides water services to approx. 8,600 people within the City of Franklin, French creek Township, Sugar creek Township and Cranberry Township. The water distribution main contains leaded pipe, joints, and service laterals with lead goose necks, which has adverse health effect on young children.

<b>POPULATION:</b> 8,600	<b>PV RATING:</b> 56
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

<b>APPLICANT NAME:</b> FALLS CREEK BOROUGH M. A. - MAIN ST. WATERLINE REPL.	<b>REGION:</b> VI	<b>DEP PROJECT RATING:</b> 40
<b>STREET ADDRESS:</b> 117 TAYLOR AVE.	<b>PWSID:</b> 6330007	<b>PROJRANK:</b> 19
<b>CITY:</b> FALLS CREEK	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$1,400,000
<b>COUNTY:</b> JEFFERSON	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** Project includes replacement of approximately 2,600 linear feet of water mains on Main Street water distribution line, with 8-inch diameter C900 PVC pipe, with service lines to right-of-way. Hydrants and valves will be replaced and surface restoration will be done.

**PROB. DESCRIPTION:** Main Street cast iron water distribution line with lead joints to be replaced. Water main is approximately 100 years old and multiple leaks / breaks have occurred on this waterline. All lead joints will be eliminated in this section of the pipe.

<b>POPULATION:</b> 1,440	<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

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> SCHUYLKILL HAVEN SERVICE LINE REPLACEMENT PROJECT	<b>REGION:</b> II	<b>DEP PROJECT RATING:</b> 40
<b>STREET ADDRESS:</b> 12 WEST MAIN STREET	<b>PWSID:</b> 3540041	<b>PROJRANK:</b> 20
<b>CITY:</b> SCHUYLKILL HAVEN	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$529,645
<b>COUNTY:</b> SCHUYLKILL	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** Schuylkill Haven Borough proposes the replacement of approximately 54 existing 3/4-inch diameter service lines for an estimated total of 3,000 linear feet (LF) with assumed lead materials in the Borough of Schuylkill Haven, Schuylkill County. These are older sections of the Schuylkill Haven Borough's service area have been documented with service cards in the Borough's records to be comprised of lead. The proposed project will include all necessary water line appurtenances associated with the service line replacements such as valves, curb stops, goosenecks, shut-offs, water main construction, manways, etc. found necessary during the service line replacement and installation. The existing system facilities identified as part of this project are older and comprised primarily of lead. Removal and replacement of the service lines is desired and considered necessary in order to ensure continued compliance with the Department's Lead and Copper Rule, Title 25 Chapter 109, Subchapter K. Note that high unaccounted for water loss in the Schuylkill Haven Borough's distribution system is reported at 28 percent. and service line replacement may help mitigate some unaccounted for water loss. The improvements will enhance Schuylkill Haven Borough's ability to operate and maintain the system and increase the reliability of service.

**PROB. DESCRIPTION:** In Schuylkill Haven Borough's service area, approximately 54 existing 3/4-inch diameter service lines for an estimated total of 3,000 linear feet (LF) of water main are comprised of assumed lead materials in the Borough of Schuylkill Haven, Schuylkill County. These are older sections of the Schuylkill Haven Borough's service area have been documented with service cards in the Borough's records to be comprised of lead. The proposed project will include all necessary water line appurtenances associated with the service line replacements such as valves, gooseneck replacement, curb stops, shut-offs, water main construction repairs, manways, etc. found necessary during the service line replacement and installation. The existing system facilities identified as part of this project are older and comprised primarily of lead. Removal and replacement of the service lines is desired and considered necessary in order to ensure continued compliance with the Department's Lead and Copper Rule, Title 25 Chapter 109, Subchapter K. Note that high unaccounted for water loss in the Schuylkill Haven Borough's distribution system is reported at 28 percent and service line replacement may help mitigate some unaccounted for water loss.

<b>POPULATION:</b> 6,000	<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

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> CITY OF BETHLEHEM LEAD LINE REPLACEMENT	<b>REGION:</b> II	<b>DEP PROJECT RATING:</b> 40
<b>STREET ADDRESS:</b> 10 E. CHURCH STREET	<b>PWSID:</b> 3480046	<b>PROJRANK:</b> 21
<b>CITY:</b> BETHLEHEM	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$2,875,000
<b>COUNTY:</b> NORTHAMPTON	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** The City of Bethlehem-Water and Sewer Resources (Bethlehem) proposes the replacement of approximately 250 residential (and a small number of commercial) 5/8-inch diameter existing service lines (and 3/4-inch diameter galvanized steel pipe with lead goosenecks service lines) for an estimated average total of 12,500 linear feet (LF) with assumed lead materials primarily in areas in the City of Bethlehem, Northampton County. These service lines are older sections of the City of Bethlehem's service area constructed in the 1920s and the 1930s with and without recent water main replacements and based on their experience are assumed to be comprised primarily of lead. The proposed project will include all necessary water line appurtenances associated with the service line replacements such as valves, shut-offs, water main construction, manways, test digs, repair to damaged facilities during construction, etc. found necessary during the service line replacement and installation. The existing system facilities identified as part of this project are older and comprised primarily of lead. Removal and replacement of the service lines is desired and considered necessary in order to ensure continued compliance with the Department's Lead and Copper Rule, Title 25 Chapter 109, Subchapter K. The improvements will enhance Bethlehem's ability to operate and maintain the system and increase the reliability of service.

**PROB. DESCRIPTION:** The City of Bethlehem-Water and Sewer Resources (Bethlehem) distribution system contains a significant number of residential (with some commercial) service laterals constructed in the 1920s and the 1930s which are primarily comprised of lead. Bethlehem proposes the replacement of approximately 250 primarily residential (and a small number of commercial) 5/8-inch diameter existing service lines (and 3/4-inch diameter galvanized steel pipe with lead goosenecks service lines) for an estimated average total of approximately 12,500 feet (LF) of piping with assumed lead materials primarily in areas in the City of Bethlehem, Northampton County. These service lines are older sections of the City of Bethlehem's service area with and without recent water main replacements and based on their experience are assumed to be comprised of lead. The proposed project will include all necessary water line appurtenances associated with the service line replacements such as valves, shut-offs, water main construction, manways, test digs, repair to damaged facilities during construction, etc. found necessary during the service line replacement and installation. Removal and replacement of the service lines is desired and considered necessary in order to ensure continued compliance with the Department's Lead and Copper Rule, Title 25 Chapter 109, Subchapter K. The improvements will enhance Bethlehem's ability to operate and maintain the system and increase the reliability of service.

<b>POPULATION:</b> 115,845	<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

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> MOUNT UNION MUNICIPAL AUTHORITY - METER REPLACEMENT PROJECT	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 37
<b>STREET ADDRESS:</b> PO BOX 88	<b>PWSID:</b> 4310016	<b>PROJRANK:</b> 22
<b>CITY:</b> MOUNT UNION	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$2,140,000
<b>COUNTY:</b> HUNTINGDON	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> METERS

**PROJ. DESCRIPTION:** This project is for the replacement of approximately 2,060 existing customer water meters throughout the distribution system (nearly all existing meters) which will increase the accuracy of the Authority's water usage records. Also included is the installation of a new tower based meter reading system.

**PROB. DESCRIPTION:** The Authority has aged meters throughout the distribution which are hindering their ability to accurately monitor the water usage amongst residential and commercial customers.

<b>POPULATION:</b> 5,801	<b>PV RATING:</b> 52
<b>GREEN PROJECT:</b> Yes	<b>GREEN CATEGORY:</b> Water Efficiency
<b>BUSINESS CASE:</b> Not Required	<b>GREEN AMOUNT:</b> \$1,700,000

<b>APPLICANT NAME:</b> CARROLLTOWN BOROUGH MUNICIPAL AUTHORITY - METER REPLACEMENT	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 37
<b>STREET ADDRESS:</b> P.O. BOX 37	<b>PWSID:</b> 4110004	<b>PROJRANK:</b> 23
<b>CITY:</b> CARROLLTOWN	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$300,000
<b>COUNTY:</b> CAMBRIA	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> METERS/LSL

**PROJ. DESCRIPTION:** The project will involve the replacement of approximately 520 individual service meters with lead-free magnetic meters, a continuation of the work that the Authority has already undertaken. Additionally, the flow control valves at the treatment plant will be replaced by lead-free valves.

**PROB. DESCRIPTION:** Lead is known to exist in two components of the Carrolltown Borough Municipal Authority System. First, approximately 520 of the total 607 individual meters are older high-lead brass meters. Second, two flow control valves at the water treatment facility contain bronze pistons and pilot systems.

<b>POPULATION:</b> 1,049	<b>PV RATING:</b> 52
<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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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

<b>APPLICANT NAME:</b> PATTON MUNICIPAL AUTHORITY - MAGEE AVENUE WATERLINE REPL.	<b>REGION:</b> V	<b>DEP PROJECT RATING:</b> 35
<b>STREET ADDRESS:</b> P.O. BOX 175	<b>PWSID:</b> 4110024	<b>PROJRANK:</b> 24
<b>CITY:</b> PATTON	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$600,000
<b>COUNTY:</b> CAMBRIA	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DSL/LSL

**PROJ. DESCRIPTION:** The project will replace approximately 700 linear feet of 8" cast iron pipe with new 8" C900 PVC main line, as well as approximately 600 linear feet of service line. Associated valves and restoration will be included in the project.

**PROB. DESCRIPTION:** The original Patton water distribution system was constructed over 100 years ago and consists of cast iron pipe with lead joints. These lead components represent a health risk to the community. Additionally, the age of the line to be replaced means that the Authority is correcting leaks and breaks at a much higher rate than elsewhere in the system. Since implementation of the new well water source in 2016, this portion of the system has experienced increased customer complaints relating to water quality, particularly discolored, sediment-heavy, and smelly water.

<b>POPULATION:</b> 2,290	<b>PV RATING:</b> 50
<b>GREEN PROJECT:</b> No	<b>GREEN CATEGORY:</b> N/A
<b>BUSINESS CASE:</b> N/A	<b>GREEN AMOUNT:</b> \$0

<b>APPLICANT NAME:</b> BOROUGH OF CHAMBERSBURG LEAD GOOSENECK REPLACEMENT	<b>REGION:</b> III	<b>DEP PROJECT RATING:</b> 33
<b>STREET ADDRESS:</b> 100 S. MAIN STREET	<b>PWSID:</b> 7280005	<b>PROJRANK:</b> 25
<b>CITY:</b> CHAMBERSBURG	<b>FUND SOURCE:</b> APPLICATION PENDING	<b>PROJECT COST:</b> \$3,299,828
<b>COUNTY:</b> FRANKLIN	<b>MTGDATE:</b>	<b>PROJECT TYPE:</b> DS/LSL

**PROJ. DESCRIPTION:** The project includes the removal and replacement of up to 1,968 lead goosenecks from the service lines of the Borough's customers. Any lead or galvanized service lines encountered during the gooseneck removal will also be replaced.

**PROB. DESCRIPTION:** The presence of lead goosenecks in the applicant's system contributes to lead concentrations in the distribution system which at some point may exceed the lead action level.

<b>POPULATION:</b> 40,000	<b>PV RATING:</b> 48
<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