

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEDERAL FY 2016
DRINKING WATER PROJECT PRIORITY LIST
APRIL 20, 2016**

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

LEGEND FOR PROJECT TYPE:

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APRIL 20, 2016

APPLICANT NAME: SYKESVILLE BOROUGH WATER TRANSMISSIO	REGION: VI	DEP PROJECT RATING: 84
STREET ADDRESS: 21 EAST MAIN STREET	PWSID: 6330013	PROJRANK: 1
CITY: SYKESVILLE	FUND SOURCE: DWSRF	PROJECT COST: \$3,670,000
COUNTY: JEFFERSON	MTGDATE: 1/20/2016	PROJECT TYPE: DS

PROJ. DESCRIPTION: Sykesville Borough "Borough" (a consecutive PWS to the City of DuBois) is planning to replace 25,900 L.F. of 8" and 12" diameter PVC C-900 main water transmission lines from the take-point to the Borough's water storage tank, construct a new chlorination booster/metering station and install a dedicated inlet pipe connection to the Borough's 250,000-gallon storage tank.

PROB. DESCRIPTION: On November 7, 2014, the Department entered a CO&A with the Borough to address both water turnover in the storage tank and issues associated with the aged distribution system which were identified to be the main contributing factors to the noncompliance of Disinfectants/Disinfection Byproducts levels consistently over the past several years.

POPULATION: 1,950	PV RATING: 111
GREEN PROJECT: Yes	GREEN CATEGORY: Water Efficiency
BUSINESS CASE: Required	GREEN AMOUNT: \$1,595,000

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APPLICANT NAME: NANTY GLO WA - WATER TREATMENT PLANT I	REGION: V	DEP PROJECT RATING: 60
STREET ADDRESS: 872 CHESTNUT STREET	PWSID: 4110023	PROJRANK: 2
CITY: NANTY GLO	FUND SOURCE: DWSRF	PROJECT COST: \$3,500,000
COUNTY: CAMBRIA	MTGDATE: 4/20/2016	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: The water treatment plant improvements project will include the replacement of the existing dual unit 800 gpm filtration system with a new, dual unit, 800 gpm upflow clarifier/filtration system, the construction of a backwash water supply pump station, conversion of an existing sludge holding tank to a backwash waste equalization tank, installation of a backwash wastewater plate settler, installation of a reclaim water meter and meter pit, and installation of an on-site shallow injection well/absorption bed for disposal of backwash water solids and plate settler overflow.

PROB. DESCRIPTION: The need exists to upgrade the water filtration system to meet current Safe Drinking Water Act regulations. The plant is 25 years old and in need of upgrades. Operation and maintenance expenses are increasing yearly. The proposed improvements shall drastically improve the quality of the water and reduce the number of operational and maintenance problems. Upgrade will help resolve current violations of TTHM and HAA5 concentrations. A Notice of Violation was sent to the Authority on December 18, 2015 for exceeding the MCL for HAA5's for the third and fourth quarters. Project will eliminate MCL violations and provided consistent potable water to the customers.

POPULATION: 4,060	PV RATING: 75
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: INDIANA CTY MSA WR 18 - PENN RUN AREA	REGION: V	DEP PROJECT RATING: 59
STREET ADDRESS: 827 WATER STREET	PWSID: 5320042	PROJRANK: 3
CITY: INDIANA	FUND SOURCE: DWSRF	PROJECT COST: \$8,215,000
COUNTY: INDIANA	MTGDATE: 1/20/2016	PROJECT TYPE: DS, WS, TREAT

PROJ. DESCRIPTION: The project includes approximately 83,039l.f. of 8" pipe; 1310 l.f. of 2" pipe; 3200 l.f. of 6" pipe; 44 hydrants; 97 valves, approx. 309 service connections, approx. 300 meters, a 250,000 gallon potable water storage tank, and renovations to the Heilwood Water Treatment Plant.

PROB. DESCRIPTION: Homes and businesses are currently serviced by individual wells and small community cisterns which typically produce poor quality water and/or do not produce adequate quantities of water for normal daily use. In addition to low producing wells, a lack of fire protection and the possibility of contaminated water wells due to the malfunctioning on-lot sewage system and other ground water contaminants exists. Abandoned surface mines and refuse piles are common in the project area. Residents have reported taste and odor problems as well as staining as a result of elevated concentrations of iron and manganese. In addition, this project will be supplying water to the Four C's restaurant and ice cream shop and the Penn Run High School, both of which have had numerous compliance issues with the SDWA. A survey was conducted in the proposed area. A total of 181 surveys were returned which required 25% random sampling to be conducted. This resulted in 45 samples being taken. The Authority conducted 51 random samples which exceeded the amount required. Total 70% tested positive for bacteria, 35 samples tested positive for Total Coliform, 1 sample tested positive for Total Coliform and E-Coli. Project will supply potable water to this homes.

POPULATION: 710	PV RATING: 68
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: CENTRAL INDIANA COUNTY WA. 2016 WATER S	REGION: V	DEP PROJECT RATING: 52
STREET ADDRESS: 30 E WILEY STREET	PWSID: 5320040	PROJRANK: 4
CITY: HOMER CITY	FUND SOURCE: DWSRF	PROJECT COST: \$3,831,000
COUNTY: INDIANA	MTGDATE: 1/20/2016	PROJECT TYPE: WS, DS, PS

PROJ. DESCRIPTION: The proposed project is comprised of four portions: 1: Construction of a 220,000 gallon bolted glassed fused-to-steel water storage tank; 2: installation of approximately 21,200 feet of 6-inch, 8-inch and 12-inch PVC water lines and installation of 20 fire hydrants; 3: installation of a chlorine feed system at Route 119 pump station and 4: Replacement of old waterlines with approximately 4200 feet of 6-inch PVC waterlines and installing 4 fire hydrants.

PROB. DESCRIPTION: There are approximately 60 residential customers and two farms that lack sufficient water supply. Residents of these areas presently depend upon private wells, springs and cisterns for water. Groundwater in the area is of very poor quality and quantities are very limited. Low chlorine levels in portion of the distribution system is low during the summer months. The Authority's distribution system includes old water lines that are prone to breaks and leakage.

POPULATION: 3,738	PV RATING: 67
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

APPLICANT NAME: MANOR TOWNSHIP JOINT MUNICIPAL AUTHORI	REGION: V	DEP PROJECT RATING: 50
STREET ADDRESS: 2310 PLEASANT VIEW DRIVE	PWSID: 5030006	PROJRANK: 5
CITY: FORD CITY	FUND SOURCE: DWSRF	PROJECT COST: \$8,500,000
COUNTY: ARMSTRONG	MTGDATE: 10/21/2015	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: Proposed water treatment plant replacement project will have the capacity to meet peak demand. The new softening process will also eliminate the brine discharge, and the waste from the softening process has the beneficial reuse. Manor will also expand service area to serve additional customers in Rayburn Township.

PROB. DESCRIPTION: Existing water treatment facility can not produce enough water to meet the peak demand. The existing facility also has brine waste that system can not discharge to the Allegheny River.

POPULATION: 6,744	PV RATING: 65
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: MUNCY BORO MA - 2015 WATER SYSTEM UPG	REGION: IV	DEP PROJECT RATING: 47
STREET ADDRESS: 14 NORTH WASHINGTON STREET	PWSID: 4410165	PROJRANK: 6
CITY: MUNCY	FUND SOURCE: DWSRF	PROJECT COST: \$5,737,650
COUNTY: LYCOMING	MTGDATE: 1/20/2016	PROJECT TYPE: WS, DS

PROJ. DESCRIPTION: The project includes construction of a 1.0 MG storage tank to replace a 3.0 MG in-ground reservoir and construction of a 0.5 MG elevated storage tank to replace the 0.2 MG elevated Kellogg's tank to place both tanks on same hydraulic gradient and increase pressures on south side of the service area while decreasing water age. The new elevated tank will also eliminate lead based paint on existing tank and an aging booster pump station that does not meet water supply design standards. Both new storage tanks will include mixing systems that will improve water mixing and consequently water quality. The new 12" second waterline to the new 1.0 MG storage tank will improve system reliability since the exiting 10" line from the 1880s is experiencing water leaks. The waterline insertion of a 3" HDPE waterline into an existing 8" waterline along Muncy Exchange Road will decrease water age and help maintain adequate disinfectant residual levels. Service line transfers on Market Street between Penn and High Streets to an existing new water line installed in 1970s will eliminate lead goosenecks.

PROB. DESCRIPTION: The MBMA system at the Muncy Industrial Park has an aging 0.2 MG elevated storage tank (Kellogg's tank) with lead based coating that needs to be replaced and an aging pump station that needs to be replaced. The size of the tank does not provide for the water needs plus fire flow of the industrial park. The existing 3.0 MG in-ground reservoir is too large and results in high water age. Normal pressures in the south end of service area hover around 20 psi. Both tanks will be increased to the same elevation to alleviate normal low pressure and eliminate need for pump station at the industrial tank site. The water line to the existing reservoir is well over 100 years old, leaks and is generally unreliable. High water age and low chlorine residual will be eliminated with insertion of small waterline along Old Glade Run Road. Lead goosenecks will be eliminated with service connection transfers to new water main along Market Street.

POPULATION: 3,000	PV RATING: 67
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: SCHUYLKILL CTY MA - METERS AND TANKS UP	REGION: II	DEP PROJECT RATING: 46
STREET ADDRESS: 12 S. CRESCENT ST.	PWSID: 3540046	PROJRANK: 7
CITY: TREMONT	FUND SOURCE: DWSRF	PROJECT COST: \$6,400,000
COUNTY: SCHUYLKILL	MTGDATE: 1/20/2016	PROJECT TYPE: WS, METERS

PROJ. DESCRIPTION: SCMA proposes the rehabilitation (cleaning and painting exterior and interior) of three existing, finished water storage tanks (Park Basin Tank, Mt. Laurel Tank No. 1 and Sharp Mountain Tank No. 2) due to their deteriorating conditions as well as various necessary repairs and modifications to tank appurtenances. The Mt. Laurel Tank No. 1 and the Park Basin Tank were constructed in 1989 and 1992, respectively, while the Sharp Mountain Tank was built in the 1960s. Exterior and interior painting as well as structural modifications (including, but not limited to, vent replacement, installation of mixing systems, structural modifications, overflow modifications, removal of de-icing systems) are necessary as the existing facilities are aging and in need of rehabilitation to extend the useful life of these critical facilities. Proposed improvements will enhance SCMA's ability to operate and maintain the system and increase the reliability of service and availability of water. This project also proposes the replacement approximately 9,864 5/8 - inch and 158 3/4 - inch residential water meters (total of 10,022) in SCMA's Pottsville (PWS ID 3540038) and Tremont (PWS ID 3540046) Systems. Additional meter reading and leak correlator equipment will also be included in the project to more accurately bill customers and identify water losses in the system. The existing meters have surpassed their design life where they are expected to function within their original specified parameters. The new meters will be equipped with radio technology to transmit readings to increase efficiency. The radio meters will be in full compliance with the Reduction in Lead in Drinking Water Act that went into effect in January 2014. These meters will make the quarterly process of billing and establishing usage more accurate and efficient, reducing costs. This technology will act as an additional tool to analyze and enhance leak detection efforts in the system. Proposed improvements will enhance SCMA's ability to operate and maintain their system and increase the reliability of service.

PROB. DESCRIPTION: In SCMA's Pottsville System (PWS ID 3540038) three existing, finished water storage tanks (Park Basin Tank, Mt. Laurel Tank No. 1 and Sharp Mountain Tank No. 2) are in need of rehabilitation and repair due to their deteriorating conditions. The Mt. Laurel Tank No. 1 and the Park Basin Tank were constructed in 1989 and 1992, respectively, while the Sharp Mountain Tank was built in the 1960s. Exterior and interior painting as well as structural modifications (including, but not limited to, vent replacement, installation of mixing systems, structural modifications, overflow modifications, removal of de-icing systems) are necessary as the existing facilities are aging and in need of rehabilitation to extend the useful life of these critical facilities. A PWS construction permit no. 5415504MA was issued on October 13, 2015 for necessary modifications to these finished water storage facilities.

POPULATION: 31,850	PV RATING: 61
GREEN PROJECT: Yes	GREEN CATEGORY: Water Efficiency
BUSINESS CASE: Not Required	GREEN AMOUNT: \$2,445,000

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APPLICANT NAME: SOMERSET BOROUGH MA - HICKORY HILL WAT	REGION: V	DEP PROJECT RATING: 43
STREET ADDRESS: 340 WEST MAIN STREET	PWSID: 4560042	PROJRANK: 8
CITY: SOMERSET	FUND SOURCE: DWSRF	PROJECT COST: \$1,806,000
COUNTY: SOMERSET	MTGDATE: 4/20/2016	PROJECT TYPE: WS

PROJ. DESCRIPTION: The proposed project includes replacement of existing 1 million gallon storage tank with a 1 million gallon storage tank of similar dimensions. The proposed finished water storage tank construction will utilize pre-cast post tension and cast-in-place concrete for a rectangular tank. The proposed tank will be constructed in the same spot where the existing tank is to be demolished and will have the same volume and shape as the existing tank. The foundation and base of the proposed tank will be cast-in-place concrete and the sidewalls will be precast concrete. The roof of the proposed tank will be constructed in precast concrete. The proposed piping will consist of a 6-inch coupling to connect to the existing 6-inch drain pipe, a 10-inch coupling connection to the existing 10-inch inlet pipe, a 10-inch coupling connection to the existing 10-inch outlet pipe, a 12-inch coupling connection to the existing 12-inch overflow drain pipe with an aluminum weir box. The roof will have three - 3'x 3' watertight aluminum access hatches with ladders and one vent pipe with insect screen.

PROB. DESCRIPTION: The purpose of this application is to replacement an existing 1 million gallon water storage tank located at "Hickory Hill". The existing tank is over 50 years old and has been rehabilitated once during its service life. The construction of the existing tank is not in compliance with current construction standards and the tank leaks. The goal of this project is to replace the water tank to eliminate leaks and update the construction to current design standards. This tank is located next to two other existing tanks which will serve the system during construction. The existing rectangular concrete tank was constructed in the 1950's and was rehabilitated with a rubber liner in the 1990's. The rehabilitation was performed in order to address tank leakage. The existing tank capacity is 1.0 million gallons. The water tank receives water from the Bakersville water treatment plant. A study of the existing tank estimates that the tank loses approximately 12,750 gallons per day.

POPULATION: 8,000	PV RATING: 58
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: HAZLETON CTY AUTH - 2015 TANK AND PUMP S	REGION: II	DEP PROJECT RATING: 41
STREET ADDRESS: 400 E. ARTHUR GARDNER PARKWAY	PWSID: 2408001	PROJRANK: 9
CITY: HAZLETON	FUND SOURCE: DWSRF	PROJECT COST: \$2,671,500
COUNTY: LUZERNE	MTGDATE: 10/22/2014	PROJECT TYPE: WS, TREAT

PROJ. DESCRIPTION: HCA proposes the rehabilitation (cleaning, painting exterior and interior, and installation of required tank appurtenances) of two existing finished water storage tanks (the 0.10 MG McKinley Tank and 0.5 MG Council Crest Tank) due to their deteriorating condition and to provide much needed security (fencing and video surveillance) and OSHA mandated safety features. HCA also proposes the replacement of the three existing raw water pumps and main electrical gear at their Hudsondale raw water pump station, ancillary site piping work, and various building improvements. Project includes the elimination of one diesel engine driven pumping unit and replacing it with an new electrically driven pump identical to the other two new replacement pumping units proposed. The existing facilities are aging and in need of repair and rehabilitation. The proposed project will improve HCA's ability to operate and maintain the system and increase the reliability of service. Also, by replacing the raw water pumps with newer more energy efficient models, a savings in energy will be realized.

PROB. DESCRIPTION: HCA proposes the rehabilitation (cleaning and painting exterior and interior) of two existing finished water storage tanks (the 1.0 MG McKinley Tank and 0.5 MG Council Crest Tank) due to their deteriorating condition and to provide much needed security and OSHA mandated safety features as well as the replacement of the original raw water pumps and main electrical gear at their Hudsondale raw water pump station. The existing facilities are aging and in need of repair and rehabilitation. The proposed project will improve HCA's ability to operate and maintain the system effectively and increase the reliability of service and available quantity of water. Also, by replacing the three existing raw water pumps with newer more energy efficient models, a savings in energy will be realized.

POPULATION: 38,022	PV RATING: 66
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: RAYBURN TOWNSHIP JMA. SPACE CORNER W	REGION: V	DEP PROJECT RATING: 38
STREET ADDRESS: 1080 KEYSTONE BLVD	PWSID: 5030020	PROJRANK: 10
CITY: KITTANNING	FUND SOURCE: DWSRF	PROJECT COST: \$4,968,405
COUNTY: ARMSTRONG	MTGDATE: 1/20/2016	PROJECT TYPE: WS, DS, PS

PROJ. DESCRIPTION: The project consists of the following major items of construction, Meter pit installed near the point of connection with Manor Twp Joint MA's existing water system, Approximately 47,000 LF of 8" C-900 Waterline Pipe, A 200,000 gallon Elevated Water Tank, Pump Station, 67 Fire Hydrants, and other items associated with construction

PROB. DESCRIPTION: The Rayburn Township Joint Municipal Authority ("RTJMA" or "the Authority") proposes to extend waterlines along Iron Bridge Road, McMillen Road, Cowanshannock Road, Johns TV Road, Lower Hayes Road (State Route 574), Hayes Hollow Road (State Route 574), Anderson Creek Road, Mechling Road, Sloan Hill Road and State Route 28/66 in Rayburn Township, Armstrong County. The residents in the project area are currently using cisterns, rain water, springs, and wells as their source of drinking water. The Authority purchases water in bulk from the Manor Township Joint Municipal Authority ("MTJMA"). Due to the location of the proposed project, a second point of connection with MTJMA is required for this project. Over the years, several studies have been conducted in the project area. Out of the 137 surveyed, 91 responded. The survey determined four different sources of drinking water. These sources include wells, springs, cisterns and purchasing water from an outside source. The survey also uncovered that several residents use a combination of wells and springs to provide enough drinking water for everyday use. Survey shows 30% - Have drinking water hauled to residence, 42% - Had to re-drill wells for water (some residents up to 5 times), 58% - History of losing their water between June & August, 64% - Report some type of contaminate in their water, 66% - Have to treat the water from their well, cistern or spring. Project area is in need of public drinking water. They researched their records to determine the effort they have made to deliver water to the residents in the project area. In some cases, records showed the fire department delivering water to these residents since 1983. These surveys describe how the existing sources of water for the residents lack in volume as well as quality in the proposed project area. This is largely due to past mining activities in the area. In addition to the water survey, a Hydrogeologic Effects study was conducted by PA DEP Bureau of Abandoned Mine Reclamation Department in December 2007. This study discussed the hydrogeologic effects on the water supply in the Spaces Corners area of the Township due to abandoned mines. Mining have negatively affected the water supply due to groundwater contamination, water loss to the mines, and that "there is little doubt that an adequate source of water is needed for many of the residents in the area.

POPULATION: 375	PV RATING: 63
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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APPLICANT NAME: PA AMERICAN - FAIRVIEW WATER MAIN EXTEN	REGION: III	DEP PROJECT RATING: 35
STREET ADDRESS: 4349 CARLISLE PIKE	PWSID: 7670126	PROJRANK: 11
CITY: CAMP HILL	FUND SOURCE: DWSRF	PROJECT COST: \$5,357,480
COUNTY: YORK	MTGDATE: 7/22/2014	PROJECT TYPE: DS

PROJ. DESCRIPTION: The Fairview Water Main Extension Project (Project) will include construction of approximately 34,000 lineal feet of new water mains, approximately 350 new services, 52 new fire hydrants, new meter pits, and will replace a Pressure Reducing Valve (PRV) vault to extend water service in Fairview Township, York County.

PROB. DESCRIPTION: The project will provide safe and potable water to residents which currently have contaminated wells in Timber Ridge, Fairview Farms and Bunker Hills Areas.

POPULATION: 16,250	PV RATING: 40
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

APPLICANT NAME: SCHUYLKILL CTY MA - REILLY WATERLINE EXT	REGION: II	DEP PROJECT RATING: 30
STREET ADDRESS: 12 S. CRESCENT ST.	PWSID: 3540046	PROJRANK: 12
CITY: TREMONT	FUND SOURCE: STATE BYPASS	PROJECT COST: \$3,700,000
COUNTY: SCHUYLKILL	MTGDATE: 10/21/2015	PROJECT TYPE: DS,WS, PS

PROJ. DESCRIPTION: The project proposes to extend service within SCMA's Tremont system from the Village of Donaldson to the Village of Newtown. The project will include the installation of approximately 27,000 linear feet of 8-inch water transmission and distribution lines, a 200,000-gallon finished water storage tank and a booster pump station. The project will also include the installation of copper service lines, fire hydrants and service appurtenances.

PROB. DESCRIPTION: The Village of Newtown in Reilly Township, Schuylkill County, currently contains 117 equivalent dwelling units which are served by individual private wells. Residents with deep wells have complained about the water quality and excessive treatment required such as softening and iron and manganese removal, and residents with shallow wells are concerned about availability of safe drinking water and potential contamination from malfunctioning on-lot sewer systems. SCMA proposes a waterline extension to provide safe potable water to the Village of Newtown.

POPULATION: 31,850	PV RATING: 55
GREEN PROJECT: No	GREEN CATEGORY:
BUSINESS CASE:	GREEN AMOUNT: \$0

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