

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
DRINKING WATER STATE REVOLVING FUND
FY 2009 - 2010 PROJECT PRIORITY LIST**

JULY 01, 2008

APPLICANT: ADAMS TOWNSHIP M. W. A. (CALLERY BORO	REGION: MEADVILLE	PROJECT RATING: 43
STREET ADDRESS: 170 HUTCHMAN RD.	PWSID: 5100141	PROJRANK: 1
CITY: MARS, PA 16046	FUND SOURCE: DWSRF	PROJECT COST: \$2,500,000
COUNTY: BUTLER	MTGDATE: 1/23/2006	PROJECT TYPE: TRAN, DS

PROJ. DESCRIPTION: Approximately 16,000 feet of varying diameter waterline will be constructed for the proposed distribution system. Included in this distribution system will be approximately 19 fire hydrants, blow off(s), valves and 147 water meters.

PROB. DESCRIPTION: Service area is currently served by individual wells. Many of the wells are reported to experience chronic problems with positive total Coliform. The problems include high iron, high manganese and/or the presence of total and fecal coliform. The Municipal Water Authority of Adams Township purchases safe drinking water from the Westview Water Authority. This waterline project will benefit Callery Borough residents by eliminating the need for the wells, providing adequate quantities of safe drinking water, and by increasing the level of fire protection within the Borough.

APPLICANT: ANTRIM TOWNSHIP M.A. - TREATMENT PLANT	REGION: HARRISBURG	PROJECT RATING: 46
STREET ADDRESS: PO BOX 308	PWSID: 7280063	PROJRANK: 2
CITY: GREENCASTLE, PA 17225	FUND SOURCE: DWSRF	PROJECT COST: \$1,863,430
COUNTY: FRANKLIN	MTGDATE: 1/22/2008	PROJECT TYPE: WS, TREAT

PROJ. DESCRIPTION: The proposed project includes a new treatment building, 3 new vertical pressure filters, relocation of the 4 existing vertical pressure filters, new chemical feed equipment, and a new 0.3 MG finished water storage tank. The filtering capacity of the proposed facilities will increase the overall capacity from 112 gpm to 390 gpm. The new storage tank will replace the existing 0.065 MG storage tank and provide additional chlorine contact time.

PROB. DESCRIPTION: The existing treatment system currently has sources of supply that cannot be utilized to their full capacity because of treatment design restrictions. This inhibits the Authority's ability to provide an adequate quantity of water to its customers during fire flow conditions. To date, this has not been a problem but the area is experiencing above average residential growth and will soon out grow the treatment system capacity. In addition, the existing plant has restrictions in place because the current design leaves no room for treatment error regarding the post filtration CTs.

LEGEND FOR PROJECT TYPE:

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APPLICANT: AQUA PA - 2007 NE WATERLINE
STREET ADDRESS: 762 LANCASTER AVE.
CITY: BRYN MAWR, PA 19010-3402
COUNTY: LUZERNE

REGION: WILKES-BARRE
PWSID: 2400012
FUND SOURCE: DWSRF
MTGDATE: 1/22/2008

PROJECT RATING: 48
PROJRANK: 3
PROJECT COST: \$1,078,000
PROJECT TYPE: TRANS, DS

PROJ. DESCRIPTION: The project will include the construction of 4,700 feet of 8-inch water main to replace undersized, deteriorated water main.

PROB. DESCRIPTION: Small diameter distribution piping, installed in a phased manner, of dissimilar materials, with no quality controls during construction, and were not maintained after installation. This has resulted in problems with low pressure, dirty water and frequent service interruptions due to main breaks. The project will provide sufficient pressure to the service area and will supply consistent potable water to the service area.

APPLICANT: AQUA PA - BRUSH VALLEY WELLS
STREET ADDRESS: 762 LANCASTER AVE
CITY: BRYN MAWR, PA 19010-3402
COUNTY: COLUMBIA

REGION: WILLIAMSPORT
PWSID: 4490024
FUND SOURCE: DWSRF
MTGDATE: 7/14/2008

PROJECT RATING: 23
PROJRANK: 4
PROJECT COST: \$2,042,000
PROJECT TYPE: SRC

PROJ. DESCRIPTION: The project includes Rehabilitation of two wells with the installation of new well pumps with pitless adaptors, and construction of a new well station housing chemical feed equipment, clearwell and send-out pumps.

PROB. DESCRIPTION: Project will eliminate elevated levels of trihalomethane (TTHM) and haloacetic acid (HAA5) levels in water due to long residence time in water mains. Project will provide reliable second source of water for system and will provide security by putting fence around well station in state forest. Well station is served by high voltage power lines (4,800 volt) and with PCB-containing transformers will be eliminated.

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APPLICANT: AQUA PA - CRUM FILTRATION IMPROVEMENT	REGION: NORRISTOWN	PROJECT RATING: 27
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 1230023	PROJRANK: 5
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: DWSRF	PROJECT COST: \$1,924,000
COUNTY: DELAWARE	MTGDATE: 4/15/2008	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: The project includes upgrade of 24 filters, each filters will be upgraded with an air scour wash system to effectively backwash the filters.

PROB. DESCRIPTION: The current filter wash system at Crum WTP is an ineffective surface wash system that is causing mounding around the filter walls, and mudball formation. This project is for the installation of an air scour wash system that will provide more effective and efficient cleaning during back wash, therefore preventing mounding and mudballs from forming. Completion of this project will also increase filter media life and improve water quality.

APPLICANT: AQUA PA - MOUNTAIN HOME WATER SYSTEM	REGION: WILKES-BARRE	PROJECT RATING: 77
STREET ADDRESS: 1120 S. WASHINGTON AVE.	PWSID: 2450039	PROJRANK: 6
CITY: SCRANTON, PA 18505	FUND SOURCE: DWSRF	PROJECT COST: \$2,045,000
COUNTY: MONROE	MTGDATE: 10/23/2007	PROJECT TYPE: TREAT, DS, WS

PROJ. DESCRIPTION: Project includes following improvements: (1) replacement of the existing, non-code compliant treatment building including all necessary treatment and appurtenances. (2) Treatment for copper levels that are in excess of the action level per the Department's Lead and Copper Rule. (3) Replacement of approximately 5,200 feet of existing, undersized, deteriorating water mains to reduce high unaccounted-for water losses that are in excess of 20 percent. (4) Construction of a retaining wall to support the eroding and unstable steep slope adjacent to the treatment building and finished water storage tank. (5) Repaint/rehabilitate existing 0.75 MG storage tank. And (6) the installation of site security fencing around the existing finished water storage tank to comply with OSHA requirements.

PROB. DESCRIPTION: The proposed project will eliminate several system problems including exceedance of the copper action level per the Lead and Copper Rule, unaccounted-for water losses in excess of 20 percent, no site security fencing around the storage tank and treatment building, slope instability concerns and erosion of the hillside adjacent to the storage tank and treatment building, non-code compliant treatment building, taste and odor complaints, discolored water complaints, low pressure complaints, numerous main breaks and leaks, and complaints of laundry staining by system customers.

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APPLICANT BEDFORD TOWNSHIP M. A. (CAMP SHAFFER)	REGION: HARRISBURG	PROJECT RATING: 28
STREET ADDRESS: P.O. Box 371	PWSID: 4050037	PROJRANK: 7
CITY: BEDFORD, PA 15522	FUND SOURCE: DWSRF	PROJECT COST: \$1,680,000
COUNTY: BEDFORD	MTGDATE: 1/22/2008	PROJECT TYPE: SRC, TRAN, TREAT

PROJ. DESCRIPTION: The proposed project involves the installation of approximately 7,400 L. F. of 10" water transmission main, the development of two well sites, each capable of supplying up to 200 gallons per minute, a disinfection facility and all necessary appurtenances.

PROB. DESCRIPTION: The project will provide an alternative source of supply for the service area. The existing sources are considered a wellfield and on several occasions have been over utilized beyond the permitted capacity to meet system demands. Also, the project will eliminate the risk from contaminated wells along and provide the residents with sufficient quantity potable water. The proposed project would also provide much needed fire protection for the proposed project area.

APPLICANT BRACKENRIDGE BOROUGH (TRAN. LINE	REGION: PITTSBURGH	PROJECT RATING: 33
STREET ADDRESS: 1000 BRACKENRIDGE AVENUE	PWSID: 5020006	PROJRANK: 8
CITY: BRACKENRIDGE, PA 15014	FUND SOURCE: DWSRF	PROJECT COST: \$382,950
COUNTY: ALLEGHENY	MTGDATE: 1/23/2006	PROJECT TYPE: TRANS

PROJ. DESCRIPTION: Replacement of approximately 2100 feet of 16 inch DIP pipe and connecting to the existing 16 inch raw water pipe. This is the phase two of replacing more than 95 year old raw water line.

PROB. DESCRIPTION: The Borough has experienced water outage of up to three days, when the main raw water line breaks or has leaks. This project will correct these problems and eliminate those outage. The project will provide the borough with a more reliable source of water.

APPLICANT CLAREDON ACRES WATER CO - WELL# 4 &	REGION: WILKES-BARRE	PROJECT RATING: 56
STREET ADDRESS: R D 6 BOX 216	PWSID: 2660033	PROJRANK: 9
CITY: TUNKHANNOCK, PA 18657	FUND SOURCE: STATE BYPASS	PROJECT COST: \$332,140
COUNTY: WYOMING	MTGDATE: 1/22/2008	PROJECT TYPE: SRC, WS

PROJ. DESCRIPTION: The project will provide for construction of Well No. 4 and a 32,000 gallon finished water storage tank.

PROB. DESCRIPTION: The additional 12 GPM from the new well combined with required 1-day storage should eliminate the periodic water outages experienced by 8 homes within the 67 home development. Problem of low water pressure during drought conditions will be eliminated and service area will have sufficient pressure of potable water supply.

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APPLICANT: CLAYMAC EQUITIES, LLC - BLUE SPRUCE	REGION: WILLIAMSPORT	PROJECT RATING: 43
STREET ADDRESS: 158 SOUTH 11TH STREET	PWSID: 2080014	PROJRANK: 10
CITY: QUAKERTOWN, PA 18951	FUND SOURCE: DWSRF	PROJECT COST: \$300,315
COUNTY: BRADFORD	MTGDATE: 3/22/2006	PROJECT TYPE: DIST

PROJ. DESCRIPTION: Blue Spruce Mobile Home Park has 59 lots and is PUC regulated. There are 2 wells located in the basement of the original home on the property. They were built in 1950 and the construction is unknown. The owner has chosen not to participate in SWIP. They have also been informed by the department that new regulations for arsenic levels will be changing in the upcoming year and their levels are unacceptable.

PROB. DESCRIPTION: Test results from the existing wells on the property show the water for the residents does not meet the new Pennsylvania Safe Drinking Water regulations and will fail SWIP Testing. Aqua PA public water system will eliminate the use of the wells and will provide public drinking water to all residents.

APPLICANT: CLEARFIELD MUNICIPAL A. - MOOSE CREEK	REGION: WILLIAMSPORT	PROJECT RATING: 21
STREET ADDRESS: 107 EAST MARKET STREET	PWSID: 6170008	PROJRANK: 11
CITY: CLEARFIELD, PA 16830	FUND SOURCE: DWSRF	PROJECT COST: \$6,006,000
COUNTY: CLEARFIELD	MTGDATE: 4/15/2008	PROJECT TYPE: TREAT,TRANS

PROJ. DESCRIPTION: The project includes construction of a 1.0 MGD microfiltration membrane water treatment facility, 800 linear feet of conveyance piping for delivery of raw water to the proposed facility, 2,000 linear feet of distribution piping from the new treatment facility to the existing 1.5 MG Moose Creek Storage tank, concrete clearwell to meet disinfection and log inactivation requirements, backwash waste tank, and three sand drying beds and appurtenances.

PROB. DESCRIPTION: Provide treatment of the Moose Creek Reservoir source for retention of this valuable source, which in return will provide additional capacity to meet present and future system demands, in concert with the recent economic developments within the service area; as well as the need to provide service to neighboring municipalities that are affected by poor water quality and quantity.

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APPLICANT: CONWAY BORO - WATER SYSTEM
STREET ADDRESS: 1208 THIRD AVE
CITY: CONWAY, PA 15027
COUNTY: BEAVER

REGION: PITTSBURGH
PWSID: 5040022
FUND SOURCE: DWSRF
MTGDATE: 4/17/2007

PROJECT RATING: 40
PROJRANK: 12
PROJECT COST: \$2,955,035
PROJECT TYPE: WS, DS

PROJ. DESCRIPTION: The project includes construction of a new steel 430,000 gallon standpipe including a valve pit to house an 8" altitude valve and associated piping and gate valves, demolition of an existing 750,000 gallon steel storage tank, construction of a small building at the site of the standpipe to house a chlorine analyzer and booster chlorination facilities. The building will be partitioned and pump telemetry and electrical controls installed in a room separate from the booster chlorination facilities. Also, at the site of the standpipe a 6" emergency interconnect meter/valve pit will be constructed for a proposed interconnection with the Ambridge Water Authority system which is available just outside of the standpipe site. The emergency interconnect pit includes a 6" fire flow meter, a 6" pressure reducing valve and a 6" dual check valve assembly. The standpipe site will be fenced with a new 10' high chain link fence with barbed wire. A new 18'-8" x 15'-4" concrete and masonry constructed pumping station is proposed that will house two (2) 15 HP, 3544 RPM in line pumps and all associated piping and valving. The pump station includes an electromagnetic flow meter and chart recorder. Pump operation / standpipe levels will be controlled via a pressure transmitter at the standpipe which will relay signals to the pump station via a wireless control system with digital displays at both the standpipe and the pump station. The pump station will be equipped with a 100 KVA diesel powered generator provided with a 24 hour fuel tank. The generator will be capable of operating all electrical components within the pump station. Construction of the pump station also requires the upgrade and extension of an access road approximately 370 long and 12 feet wide. Proposed distribution system replacements and upgrades include the following approximate quantities: 973 lf of 6" Ductile Iron Pipe (DIP), 6,096 lf of 8" DIP, 3,581 lf of 10" DIP, (8) 6" gate valves, (44) 8" gate valves, (17) 10" gate valves, 414 restraining glands for mechanical joint pipe fittings of various sizes, 57 field lok gaskets for push-on-joint pipe restraint, 15 new fire hydrants, 2,070 lf of new copper service lines of various sizes, 104 curb box replacements, 1,944 sy of permanent pavement restoration, 1,275 cy of select granular material for trench backfilling, 3,180 sy of lawn area restoration 541 sy of driveway restoration, 36 connections to existing distribution lines, removal of 15 fire hydrants, removal of 19 roadway valve boxes and cutting and capping of existing water lines at 35 locations.

PROB. DESCRIPTION: Presently, customers located at the highest elevations of the Borough have low (substandard) service pressures due to the inadequate height of the existing water storage tank. The proposed storage facility (standpipe) will increase system head thereby improving customer service pressures. Fire protection is inadequate in many areas of the distribution system due to low system pressures and small distribution line sizes. The proposed standpipe will provide increased system pressures while the replacement and upgrade of distribution system piping will facilitate lower friction losses and higher fire flow volumes. The elimination of the unnecessary pressurization of the lower tier will save energy and reduce the probability of breaks and severity of leaks in the lower tier. The replacement and upgrade of old cast iron water mains within the upper tier with new ductile iron pipe is expected to make noticeable reductions in water losses associated with breaks and leaks.

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APPLICANT: CONYNGHAM BOROUGH AUTHORITY
STREET ADDRESS: P. O. BOX 469
CITY: CONYNGHAM, PA 18219
COUNTY: LUZERNE

REGION: WILKES-BARRE
PWSID: 2400048
FUND SOURCE: DWSRF
MTGDATE: 4/17/2007

PROJECT RATING: 41
PROJRANK: 13
PROJECT COST: \$1,268,500
PROJECT TYPE: DS, SRC

PROJ. DESCRIPTION: Replacement of 4500 LF existing transite mains with 8-inch DI watermains. A new groundwater supply well to supplement existing source water.

PROB. DESCRIPTION: Old deteriorated, leaking water mains with subsequent water losses with inadequate water pressure. Inadequate source water for new customers and fire flow. The project will eliminate occasional water outage and supply the sufficient quantity of water good quality water.

APPLICANT: CORAOPOLIS WATER AND SEWER AUTHORITY
STREET ADDRESS: 1012 FIFTH AVENUE
CITY: CORAOPOLIS, PA 15108
COUNTY: ALLEGHENY

REGION: PITTSBURGH
PWSID: 5020010
FUND SOURCE: DWSRF
MTGDATE: 1/23/2006

PROJECT RATING: 40
PROJRANK: 14
PROJECT COST: \$8,659,020
PROJECT TYPE: WS, DS

PROJ. DESCRIPTION: Replacement of four existing Water Storage tanks with a 0.7 MG reservoir at Fleming Street and an elevated 0.75 MG storage tank at the Cemetery site. Upgrades to the distribution system include replacement of approximately 13,600 linear feet of ductile iron water line, installation of 7 pressure reducing valves (PRV), demolition and reconstruction of the Fleming Street booster station with a re-chlorination station.

PROB. DESCRIPTION: Old antiquated water storage tanks and old water distribution lines that results in low pressure in the distribution lines, which increases the likelihood of backflow related contamination with leaking mains. The project will improve water pressure and will supply good quality potable water.

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APPLICANT: CRESSON TOWNSHIP M. A. WATER SYSTEM	REGION: PITTSBURGH	PROJECT RATING: 32
STREET ADDRESS: MUNICIPAL BUILDING	PWSID: 4110030	PROJRANK: 15
CITY: CRESSON, PA 16630	FUND SOURCE: DWSRF	PROJECT COST: \$800,000
COUNTY: CAMBRIA	MTGDATE: 4/15/2008	PROJECT TYPE: WS, TRAN

PROJ. DESCRIPTION: New transmission lines of ~ 11000 linear feet of 16", 12" and 8" diameter will be constructed (East of Route 22). Additionally, replacement of a 750,000-gallon finished water storage tank will be constructed adjacent to the State correction facility.

PROB. DESCRIPTION: This proposed project will afford Cresson Township complete control/oversight on the entire water treatment system and will eliminate existing cross connection and compliance problems. Additionally, this project allows the consolidation of the water system - SCI system water system (operating without a valid permit) will be operated by Cresson Township Municipal Authority under a lease agreement (99 years) for the new storage tank as well as all the underground public water facilities on the SCI property. Project will result in increased fire protection (2000 gpm), significantly reduce water loss/leakage and eliminate existing system water pressure problems (12" main installed at the new tank)

APPLICANT: CROYLE TOWNSHIP WATER AUTHORITY	REGION: PITTSBURGH	PROJECT RATING: 45
STREET ADDRESS: R D #1 BOX 622	PWSID: 4110299	PROJRANK: 16
CITY: MINERAL POINT, PA 15942	FUND SOURCE: DWSRF	PROJECT COST: \$1,097,400
COUNTY: CAMBRIA	MTGDATE: 5/24/2006	PROJECT TYPE: WS, TRANS, DS

PROJ. DESCRIPTION: Construction of a 209,000 gallon glass-lined water storage tank and replacement of approximately 12,000 feet of 6 inch waterlines with 8 inch pipe to serve New Germany area of Croyle Township including small portions of Jackson, East Taylor and Cambria Townships.

PROB. DESCRIPTION: The new water storage tank will provide an adequate reserve water supply to facilitate pump repairs (Three day supply) and the new tank and waterlines will provide fire protection. At present system lacks sufficient water pressure and experience periodic water outages. Project will provide sufficient storage and supply of quality potable water to the service area.

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APPLICANT: DUQUESNE, CITY OF
STREET ADDRESS: 12 SOUTH SECOND STREET
CITY: DUQUESNE, PA 15110-1148
COUNTY: ALLEGHENY

REGION: PITTSBURGH
PWSID: 5020012
FUND SOURCE: DWSRF
MTGDATE: 9/14/2005

PROJECT RATING: 23
PROJRANK: 17
PROJECT COST: \$2,600,000
PROJECT TYPE: DS

PROJ. DESCRIPTION: Construct the replacement of 13,548 of distribution pipelines, improve 2 pump stations, and add and replace fire hydrants along 5 streets.

PROB. DESCRIPTION: Existing distribution line is deteriorated due to age, and there is insufficient pressure for fire protection and customer service.

APPLICANT: EASTON SUBURBAN W. A. MORGAN HILL
STREET ADDRESS: 3700 HARTLEY AVENUE
CITY: EASTON, PA 18045-3757
COUNTY: NORTHAMPTON

REGION: WILKES-BARRE
PWSID: 3480064
FUND SOURCE: DWSRF
MTGDATE: 1/22/2008

PROJECT RATING: 30
PROJRANK: 18
PROJECT COST: \$3,186,000
PROJECT TYPE: WS

PROJ. DESCRIPTION: The proposed project involves replacing both deteriorated Morgan Hill concrete water storage tanks with steel tanks of the same 1.0 MG capacity, upgrading the existing valve chamber and overflow piping, replacing the connecting main from the tanks to the valve chamber, and installing new fencing and a gate.

PROB. DESCRIPTION: Old water storage tank built in 1962 are sub standard storage for the service area. On the exterior, many sections of concrete have loosened, exposing reinforcing steel and creating a potential falling hazard for personnel working at the site. Some portions of concrete have worn to the point of exposing reinforcing wire mesh and rebar. This is especially evident inside the tanks on the underside of the roof. Additionally, the roof on the east tank has a crack running along its circumference, and the report indicated that, if this is not repaired, it will worsen and the roof will be in danger of collapsing. There are cracks running horizontally along the tanks that are emphasized by the calcium deposits they have created. This indicates that cracks are following internal wires, possibly caused by stress from the expansion of active corrosion on the wire. This could lead to breakage due to metal loss, causing the side walls to rupture. Similarly, other patches of exposed wire mesh and rebar show signs of active corrosion, and many spalled areas that are allowing leakage. These areas allow water to permeate to other parts of the wire mesh, causing an unobservable structural problem. The project will replace unsafe storage tanks and will supply sufficient quantity of potable water to the service area.

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APPLICANT: EASTON SUBURBAN WATER AUTHORITY WTP	REGION: WILKES-BARRE	PROJECT RATING: 57
STREET ADDRESS: 3700 HARTLEY AVENUE	PWSID: 3480064	PROJRANK: 19
CITY: EASTON, PA 18045-3757	FUND SOURCE: DWSRF	PROJECT COST: \$20,000,00
COUNTY: NORTHAMPTON	MTGDATE: 7/17/2007	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: project is a comprehensive WTP expansion project from 10 MGD to 16 MGD including improvements to flood-proofing, raw water intake/supply systems, rapid mix basins, flocculators, sedimentation basins, filters, filter backwash system, pumping facilities, chemical feed systems, transmission main construction, high service pumping station, wastewater and residual handling, emergency power, instrumentation and control, electrical systems, and security improvements.

PROB. DESCRIPTION: Problems identified include deficiencies noted in the Department's FPPE Report dated August 19-21, 2003. Recent studies have shown operational deficiencies and adverse impacts of deferred maintenance at the WTP. The growth of ESWA system has necessitated an increase in plant production to keep up with system demand. All plant facilities need to be upgraded in order to reliably produce drinking water quality to meet minimum regulatory requirements in terms of quality and quantity. Areas in need of attention include emergency power requirements, turbidity issues, NPDES compliance issues, flood proofing, security upgrades, debris in intake issues, water allocation issues, outdated and unavailable equipment/computerization, FPPE report findings (Unacceptable/Needs Improvement rating), water outages, structural repairs, and system expansion to meet growth demands.

APPLICANT: GREGG TOWNSHIP WATER AUTH.- WATER	REGION: WILLIAMSPORT	PROJECT RATING: 70
STREET ADDRESS: P.O. BOX 165	PWSID: 4600008	PROJRANK: 20
CITY: SPRING MILLS, PA 16875	FUND SOURCE: DWSRF	PROJECT COST: \$1,760,000
COUNTY: CENTRE	MTGDATE: 10/23/2007	PROJECT TYPE: WS, DS

PROJ. DESCRIPTION: The project will consist of site development and construction of a welded steel or glass fused bolted steel finished water storage tank; site development and construction of a two-story building for filtration and pump equipment; and the replacement of 430 feet of water distribution piping to connect new process equipment with the existing distribution system.

PROB. DESCRIPTION: The GTWA is currently in violation of the Safe Drinking Water regulations, as the spring from which they draw water is influenced by surface water. In addition, the water storage tank is undersized, in poor condition, and needs replaced. This project includes the construction of a water filtration plant and a new water storage tank to bring GTWA into compliance with DEP regulations and supply adequate fire flow and storage

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APPLICANT: HAINES - WOODWARD MUNICIPAL AUTHORITY	REGION: WILLIAMSPORT	PROJECT RATING: 58
STREET ADDRESS: BOX 51	PWSID: 4140094	PROJRANK: 21
CITY: WOODWARD, PA 16882	FUND SOURCE: DWSRF	PROJECT COST: \$680,000
COUNTY: CENTER	MTGDATE: 4/15/2008	PROJECT TYPE: SRC, STO

PROJ. DESCRIPTION: The proposed project consists of the construction of a 45 gallon per minute well pumping system and a 53,000 gallon ground level bolted steel finished water storage tank.

PROB. DESCRIPTION: The proposed project will achieve compliance with the PA Department of Environmental Protection Consent Order and Agreement and with the Safe Drinking Water Act. The Authority is currently in direct violation of the Act because their primary source of drinking water is under direct influence of surface water. The storage provided as part of this project will allow the Authority to meet customer demands during peak periods and increase fire flow to the Authority's hydrants.

APPLICANT: HAMILTON TOWNSHIP MUNICIPAL AUTHORITY	REGION: WILLIAMSPORT	PROJECT RATING: 71
STREET ADDRESS: P.O.BOX 236	PWSID: 2590049	PROJRANK: 22
CITY: MORRIS RUN, PA 16939	FUND SOURCE: DWSRF	PROJECT COST: \$1,646,156
COUNTY: TIOGA	MTGDATE: 10/23/2007	PROJECT TYPE: SRC, DS

PROJ. DESCRIPTION: The project involves construction of 11,800 lineal feet of 6" PVC water main along with valves, fittings and fire hydrants. A duplex pressure booster station with a maximum capacity of 160 gallons per minute will also be constructed. HTMA will seek an initial allocation of 35,000 gallons per day from Blossburg. Development of a groundwater source (well) is also proposed. Maximum yield would be 100 gallons per minute or 144,000 gallons per day.

PROB. DESCRIPTION: The Village of Morris Run is served by an antiquated surface water treatment facility. The plant has not been able to consistently meet the disinfectant by-product regulations. The project proposes to inter-connect with the Blossburg municipal system. The project will supply good quality potable water to the service area.

LEGEND FOR PROJECT TYPE:

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APPLICANT: HOUTZDALE MUNICIPAL AUTHORITY
STREET ADDRESS: 612 BRISBIN ST.
CITY: HOUTZDALE, PA 16651
COUNTY: CLEARFIELD

REGION: WILLIAMSPORT
PWSID: 6170023
FUND SOURCE: DWSRF
MTGDATE: 10/24/2006

PROJECT RATING: 53
PROJRANK: 23
PROJECT COST: \$9,036,515
PROJECT TYPE: SRC, TREAT

PROJ. DESCRIPTION: Raw water from a newly developed ground water source and the existing surface water source on the Moshannon Creek watershed will be conveyed to the Authority's existing water treatment facility. Approximately 26,000 lineal feet of 12-inch diameter transmission main, utilizing a combination of ductile iron and PVC, and all appurtenances will be constructed to convey this raw water to the water treatment plant. Major modifications to the existing Moshannon Creek treatment plant with capacity increase.

PROB. DESCRIPTION: This project fulfills the requirement of the Consent Order and will result in better reliability of service, by adding reliable raw water supply and upgrade of treatment plant will provide the service area with sufficient quantity and quality of potable

APPLICANT: HUGHESVILLE BORO AUTHORITY - WELL
STREET ADDRESS: 147 SOUTH FIFTH STREET
CITY: HUGHESVILLE, PA 17737
COUNTY: LYCOMING

REGION: WILLIAMSPORT
PWSID: 4410178
FUND SOURCE: DWSRF
MTGDATE: 1/22/2008

PROJECT RATING: 25
PROJRANK: 24
PROJECT COST: \$1,680,000
PROJECT TYPE: SRC, TREAT, TRAN

PROJ. DESCRIPTION: Project #1: Proposed Well 103, capacity 1.44 MGD, 52 ft. deep, including submersible pump and 40 ft. drop pipe, 500 ft. 8" water main, and 220 ft. of 48" chlorine contact piping. The project also includes construction of a new administration building which will house treatment facilities. The project will provide more water supply capacity to the system, and will address security and safety issues in protecting the water supply. Project #2: Convert method of chlorination in Hughesville's two existing wells from gas to liquid chlorination for health and safety of the public. Project #3: Water system extension from Well 102 to Water street, 0.72 MGD, including 400 ft. of 24" chlorine contact piping and 1000 ft. of 12" water main, to connect dead end portions of the existing water system and to equalize system pressure and capacity, needed for fire protection and adequate capacity/pressure in the water system, health and safety considerations. Project #4: Upgrade SCADA and telemetry water system controls, and convert system controls communication from telephone to radio, in order to improve security and reliability to maintain system capacity. Project also eliminate private system. Projects # 1-4 shown above constitute the overall project request.

PROB. DESCRIPTION: Hughesville presently has two shallow gravel wells, both located in close proximity to Muncy Creek. The wells are vulnerable to contamination in Muncy Creek that may occur upstream from accidental spill along S.R. 220 or other unforeseen contaminant event. Construction of the new well will be a substantial distance from the creek and not subject to contamination that could occur from an accident. The projects also propose to change from gas chlorination to liquid chlorination to eliminate the potential for chlorine gas accident in the populated area. Controls communication will be changed to radio for reliability and security. Hughesville's two existing wells do not have capacity to serve projected growth in the service area and adjacent areas that are in need of water supply and are projected to be served through expansion of Hughesville's water service area.

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APPLICANT: MADISONBURG WATER WORKS - WATER	REGION: WILLIAMSPORT	PROJECT RATING: 68
STREET ADDRESS: C/O H DUCK	PWSID: 4140111	PROJRANK: 25
CITY: MADISONBURG, PA 16852	FUND SOURCE: DWSRF	PROJECT COST: \$1,363,600
COUNTY: CENTER	MTGDATE: 10/23/2007	PROJECT TYPE: TREAT, WS, TRAN

PROJ. DESCRIPTION: The project involves the construction of a 21,000 gpd membrane technology water treatment facility and a 60,000 gallon finished water storage tank. This project also includes 470 feet water transmission lines, a meter pit, raw water pumping station, a finished water pumping station, a backwash waste disposal pumping station, an under ground propane tank, an above grade generator and pad, an underground infiltration bed, and minimal site grading.

PROB. DESCRIPTION: The current water system utilizes spring sources that have been classified as groundwater under the influent of surface water. In the past water quality samples have been positive for both E. Coli and Giardia found in the drinking water. The construction of this treatment plant will remove these contaminants and provide safe drinking water to the residents of Madisonburg. The project will also increase the storage capacity of drinking water and provide approximately 60,000 gallons of water for use in fire conditions.

APPLICANT: MCALISTERVILLE AREA JOINT AUTH.- WATER	REGION: HARRISBURG	PROJECT RATING: 46
STREET ADDRESS: P.O. BOX 61	PWSID: 4340002	PROJRANK: 26
CITY: MCALISTERVILLE, PA 17049	FUND SOURCE: STATE BYPASS	PROJECT COST: \$578,000
COUNTY: JUNIATA	MTGDATE: 1/22/2008	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: The Authority is proposing to construct a membrane filtration plant. The project will bring the Authority into compliance with the Surface Water Treatment Rule.

PROB. DESCRIPTION: This project will bring the Authority into compliance with the Surface Water Treatment Rule. Well No. 2 was identified as Groundwater Under the Direct Influence (GUDI). The project will treat the source water and supply the service area with potable water and comply with DEP's public water supply standards.

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APPLICANT: MIFFLINTOWN M. A.- WATER FACILITY
STREET ADDRESS: P O BOX 36
CITY: MIFFLINTOWN, PA 17058
COUNTY: MIFFLIN

REGION: HARRISBURG
PWSID: 4340008
FUND SOURCE: DWSRF
MTGDATE: 7/17/2007

PROJECT RATING: 63
PROJRANK: 27
PROJECT COST: \$7,137,000
PROJECT TYPE: TREAT, TRANS, DS

PROJ. DESCRIPTION: The overall project is broken into three distinct contracts. The are defined as follows: 1. The new treatment plant and Juniata River intake facility will include a triplex gravity filtration system and river intake pumping station with a capacity of 700 gpm or 1.0 mgd. This portion of the work will also involve the installation of 2,170' of 12" pvc raw water transmission mains. 2. The SR 22 water main replacement project involves the replacement of 7,820' of 8" and 4" cast iron water mains with new 12" and 8" pvc water mains. 3. The new Industrial Park water main loop area will involve the installation of 7,000' of new pvc water main.

PROB. DESCRIPTION: The benefits of each individual portion of the project is broken down as follows, 1. The existing water treatment plant is operating near capacity and much of the equipment is at the end of its useful life and requires updating. This portion of the project will replace all treatment equipment and bring the facility up to current standards. 2. Current water withdrawals from the existing source are approaching maximum allowable numbers. This project provides for an additional source of supply to provide service into the projected future. 3. The existing cast iron water main along old SR 22 is in poor conditions and experiences periods of poor water quality and limited flow capacity. The project provides for the replacement of this main to remove water quality issues and increase system hydraulic capacities. 4. The industrial park area of system is fed with a single water main causing service disruptions during periods of main breaks. The portion of the project will provide a secondary feed to alleviate supply concerns especially during fire flow periods and in addition, the proposed loop will allow for the connection of several small businesses to the public system that currently are on private regulated wells that experience water quality issues.

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APPLICANT: OSCEOLA TOWNSHIP MUNICIPAL AUTHORITY	REGION: WILLIAMSPORT	PROJECT RATING: 68
STREET ADDRESS: P.O. BOX 107	PWSID: 2590045	PROJRANK: 28
CITY: OSCEOLA, PA 16942	FUND SOURCE: DWSRF	PROJECT COST: \$3,571,655
COUNTY: TIOGA	MTGDATE: 10/24/2006	PROJECT TYPE: DS,TREAT,WS

PROJ. DESCRIPTION: Project will include construction of a 16' x 24' treatment facility, 85 lineal feet of chlorine contact piping, installation of pitless adapters for well heads, interconnection piping, electric and controls. Sequestering treatment is proposed to control the elevated iron and manganese in the source water. This equipment will consist of a chemical metering pump and solution tank similar to the chlorination system. A telemetry system will be provided to control the operation of the well pumps and maintain the water level in the storage tank. A stand-by emergency generator will be installed

PROB. DESCRIPTION: The proposed project will alleviate problems associated with an old arcaic distribution system consisting of small diameter pipes, copper pipes, old iron and old asbestos cement mains and dead ends in the system. A new looped system of acceptable size and materials and fire protection is proposed. New storage facility will provide sufficient storage, project will provide sufficient Chlorine contact time. Periodic water outage, and individual contaminated well water supply will be eliminated.

APPLICANT: PA AMERICAN WC (HANOVER & COLLIER	REGION: PITTSBURGH	PROJECT RATING: 60
STREET ADDRESS: 800 W. HERSHEY PARK DR	PWSID: 2459999	PROJRANK: 29
CITY: HERSHEY, PA 17033	FUND SOURCE: DWSRF	PROJECT COST: \$2,449,689
COUNTY: ALLEGHENY	MTGDATE: 4/15/2008	PROJECT TYPE: DS

PROJ. DESCRIPTION: The project includes installation of approximately 19,129 linear feet of 12", 8" and 6" ductile iron water line to provide service to approximately 40 potential customers in Collier Township, Allegheny County, and installation of approximately 11,520 linear feet of 8" ductile iron water line to provide service to approximately 30 potential customers in Hanover Township, Washington County.

PROB. DESCRIPTION: Private wells and springs are bacterially unsafe and do not produce sufficient quantities of water for normal daily use. Cisterns, in use by a number of residents, are notoriously unsafe sources of water. The project will extend the facilities of the regional public water supplier to provide a safe and adequate source of water supply. The Borrower has received an Order from the Pennsylvania Public Utility Commission to extend water service to the service area.

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APPLICANT: PAINT TOWNSHIP MUNICIPAL WATER	REGION: MEADVILLE	PROJECT RATING: 38
STREET ADDRESS: 22139 ROUTE 66	PWSID: 0000011	PROJRANK: 30
CITY: SHIPPENVILLE, PA 16254	FUND SOURCE: DWSRF	PROJECT COST: \$1,390,300
COUNTY: CLARION	MTGDATE: 7/14/2008	PROJECT TYPE: DS

PROJ. DESCRIPTION: Project includes construction of approximately 9,625 LF of waterline, interconnection with Pennsylvania American Water Company, service connections and meters, hydrants, and other related appurtenances.

PROB. DESCRIPTION: The potential service area is currently composed of inadequate, private ground and untreated surface water sources. The groundwater sources generally have high iron levels with total coliform contamination. The surface water sources (pond and spring) both test positive for total coliform while the pond source also tests positive for fecal coliform. Water outages greater than 48 hours have occurred in approx. 30% of the proposed service connections. The connection to a public water supply will solve these quality and quantity issues. Fire protection will also be made available in the project area (currently ISO 9) for the 14 or 15 residential customers affected.

APPLICANT: REDBANK VALLEY M. A. WATER SYSTEM	REGION: MEADVILLE	PROJECT RATING: 77
STREET ADDRESS: 212 LAFAYETTE ST	PWSID: 6160010	PROJRANK: 31
CITY: NEW BETHLEHEM, PA 16242	FUND SOURCE: DWSRF	PROJECT COST: \$8,758,000
COUNTY: ARMSTRONG	MTGDATE: 7/17/2007	PROJECT TYPE: TREAT, WS

PROJ. DESCRIPTION: The project consists of construction of a new conventional multi-media package water treatment plant, a 400,000-gallon concrete ground-level storage tank and a raw water intake.

PROB. DESCRIPTION: The plant is outdated and over 65 years old and in need of structural and process improvements. With a 500 gallon clearwell, the plant disinfection methods are of concern. System fails plant performance criteria and signed Consent Order and Agreement in August of 2004 to build new plant that can supply potable water to the service area.

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APPLICANT: SOMERSET COUNTY GENERAL AUTHORITY	REGION: PITTSBURGH	PROJECT RATING: 57
STREET ADDRESS: SUITE 500, 300 N CENTER AVE	PWSID: 0000004	PROJRANK: 32
CITY: SOMERSET, PA 15501-1472	FUND SOURCE: DWSRF	PROJECT COST: \$23,989,00
COUNTY: SOMERSET	MTGDATE: 1/25/2006	PROJECT TYPE: WS,TREAT,DS,

PROJ. DESCRIPTION: Construct 2 MGD treatment plant, pumping stations, 21 miles of DIC pipe, and 54 fire hydrants to provide bulk water from Quemahoning Reservoir to four townships and Somerset Borough. Project will supply good quality public water, and fire protection flow.

PROB. DESCRIPTION: Inadequate source water supply and lack of sufficient potable water, insufficient fire protection. Inadequate source water during drought conditions. Project will eliminate water withdrawal impact on Laurel Hill Creek.

APPLICANT: SUBURBAN LOCK HAVEN WATER AUTHORITY	REGION: WILLIAMSPORT	PROJECT RATING: 36
STREET ADDRESS: 326 MAIN STREET	PWSID: 4180049	PROJRANK: 33
CITY: MILL HALL, PA 17751	FUND SOURCE: DWSRF	PROJECT COST: \$3,469,000
COUNTY: CLINTON	MTGDATE: 7/14/2008	PROJECT TYPE: TRAN, PS, METERS

PROJ. DESCRIPTION: The proposed project will include the construction of approximately 11,850 LF of transmission mains, one new pump station, rehabilitation of 2 existing pump stations, and the replacement of 2,650 meters.

PROB. DESCRIPTION: The project will correct the current insufficient flow capacity, low service pressures, and inadequate fire protection. Currently the system lacks a redundant flow path to allow customers to receive water when a water main is shutdown. The proposed project will allow another flow path to the residents. The existing system is not able to maintain a minimum residual pressure of 20 pounds per square inch throughout the distribution system during periods of high usage and fire demand (as required by the PA DEP Public Water Supply Manual). The implementation of this project will allow the distribution system to comply with this PA DEP requirement.

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APPLICANT: WAYNESBORO AUTH. - WELL 2, PUMPING &	REGION: HARRISBURG	PROJECT RATING: 21
STREET ADDRESS: P.O. BOX 310	PWSID: 7280032	PROJRANK: 34
CITY: WAYNESBORO, PA 17268	FUND SOURCE: DWSRF	PROJECT COST: \$2,600,000
COUNTY: FRANKLIN	MTGDATE: 1/22/2008	PROJECT TYPE: SRC, TREAT

PROJ. DESCRIPTION: New Well No. 2 facilities will include a 250-gpm submersible turbine well pump, a new treatment building to house a nanofiltration membrane treatment system, associated chemical feed systems (pH adjustment and chlorination), pumping equipment and electrical gear. This project will also include grading for the new building, an access drive, a pre-cast concrete underground chamber to equalize well blow-off and membrane concentrate flow.

PROB. DESCRIPTION: The addition of Well No. 2 will provide an alternative source of supply for the system. Currently, the system has a single source of supply to meet the needs of the system. Well No. 2 is pump tested and has high levels of hardness, sulfates and total dissolved solids that are incompatible with the Authority's existing surface water supply. The proposed membrane treatment will provide a treated water that is compatible with the existing supply, stabilize chlorine residuals that have recorded only traces in this part of the system, and improve fire flows in the vicinity of the well.

APPLICANT: WESTERN BERKS WATER AUTHORITY -	REGION: HARRISBURG	PROJECT RATING: 58
STREET ADDRESS: 91 WATER ROAD	PWSID: 3060066	PROJRANK: 35
CITY: SINKING SPRING, PA 19608	FUND SOURCE: STATE BYPASS	PROJECT COST: \$3,138,018
COUNTY: BERKS	MTGDATE: 7/14/2008	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: The project is mostly electrical in nature and will include replacement and/or repair of the following equipment: 12.47 KV service conduits and metering, Pad mounted transformer, 480V service, 900 KW Generator, 480 V ATS , switchgear, breakers, 400 HP variable frequency drives 75 HP Reduce voltage soft start/stop starter, Ethernet wiring to existing SCADA system, Conduit wiring to high services pumps 1, 5, and 6, Conduit and wiring to feed existing MCC5 and MCC6 from New Switchgear breaker section, New High Service Pump no. 5, Modifications to high service pumps no. 1 and 6, Modifications to discharge piping for all high service pumps, New backwash pump no 2, including motor and wiring, Tilting disc check valves for high service pumps no. 1, 5, and 6, Repair to Garage walls and electrical room walls, HVAC for electrical room.

PROB. DESCRIPTION: The existing switchgear at the WTP is over 34 years old (original plant equipment) and has been problematic to maintain and service over the past few years and the equipment is at the end of its useful service life. Additionally, the high service pumps, backwash pumps and raw water pumps are in need of repair. The project encompasses this work as well as addressing the need for a new generator on site. The project is under emergency conditions as the existing switchgear is in need of replacement to keep the entire WTP in operation. Additionally the existing generator is experiencing continuing problem and in turn the WBWA does not have a reliable back up to run the WTP if something should occur. If this should happen the Reading Hospital could be out of water service for a period of time as described above.

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APPLICANT: WINSLOW TWP - VILLAGE OF SOLDIER WATER	REGION: MEADVILLE	PROJECT RATING: 38
STREET ADDRESS: 3478 SPORTSMANDAM ROAD	PWSID: 3307402	PROJRANK: 36
CITY: REYNOLDSVILLE, PA 15851	FUND SOURCE: DWSRF	PROJECT COST: \$2,434,500
COUNTY: JEFFERSON	MTGDATE: 7/14/2008	PROJECT TYPE: TRAN, WS,PS

PROJ. DESCRIPTION: A new PVC transmission line and booster pump station will be constructed to convey finished water from the Sykesville Borough public water supply to the Village of Soldier. The new water system will connect to Sykesville Borough's system at its existing 0.25 MG storage tank. Approximately 3,000 feet of 6-inch and 17,000 feet of 8-inch diameter distribution lines will be installed. The new finished water storage tank will be a 75,000 gallon factory applied glass-fused-to-steel bolt together tank. A small shed building will be provided at the tank site to house the telemetry system. Duplicate 5HP Grundfos, series CRN 15-2, multi-stage, centrifugal pumps will be provided. An emergency generator will be provided to sufficiently power the pump station in the event of a power outage. Fire hydrants will be installed in accordance with ISO requirements.

PROB. DESCRIPTION: The new water service extension from Sykesville Borough to the Village of Soldier will eliminate an area wide, ongoing poor water quality and quantity due to acid mining drainage and bacteriological contaminations that became evident through soil study, water testing samples, on-lot septic malfunctioning evaluation and a door-to-door survey. Overall, water quality is poor and non-potable with several wells with have high counts of Total Coliform and several with Fecal Coliform. Water in the service area have high Iron and Manganese. Project will supply the service area with sufficient quantity of potable water.

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