

Ohio BUILDS Water Infrastructure Grant Projects – Round 3

Drinking Water Infrastructure Projects

Northwest Regional Water District (Adams County) will receive a \$55,360 grant to inspect and repaint inside and outside of its 104 ft tall, 88,000 gallon steel-welded storage tank. Repainting the tank will help ensure the finished drinking water it stores stays safe. This project will benefit 1,000 people.

Hayesville (Ashland County) will receive a \$2 million grant to construct a new water treatment plant to replace an existing plant that has reached the end of its useful life. The plant will include iron and manganese removal, improved treatment, clearwells, high service pump station, generator, connection to new wells, connection to existing system, abandonment of existing wells and treatment plant. The project will also include replacement of obsolete water meters and meter reading equipment. This project will benefit 465 people.

Burr Oak Regional Water District (Athens County) will receive a \$4.91 million grant to add Granular Activated Carbon (GAC) to the water treatment process. GAC is a very reliable solution for a variety of water treatment challenges. It is an efficient and cost-effective means to minimize the formation of disinfection byproducts while also removing other organic contaminants that can be found in ground water. This project will help to ensure the water district is providing safe drinking water to its customers and meeting drinking water standards. This project will benefit 40,000 people.

Le-Ax Water District (Athens County) will receive a \$345,500 grant to replace a below-ground pump station that has been in service for 50 years. The pumps and motors have been replaced over the years, but the internal piping and station structure are 50 years old and need to be retired. This particular station provides water to two water storage towers that serve approximately 3,100 residents and a business corridor within Athens, Canaan, Alexander, and Lodi Townships in Athens County. This project will benefit 3,112 people.

Minster (Auglaize and Shelby counties) will receive a \$2.5 million grant to construct a 1.25-million-gallon elevated water storage tank to replace the existing 250,000-gallon Ohio Street water storage tank which has reached the end of its useful life and is in poor condition. A larger tank is necessary in order to meet the pressure, water age, and fire flow needs within the village. The new elevated tank will be located off of Seventh Street, which is close to the existing Ohio Street tank. This new storage tank will increase the total storage volume within the village system to 2 million gallons and will provide for daily flow, emergency reserve, fire flow, and allow growth within the village. This project will benefit 2,850 people.

St. Clairsville (Belmont County) will receive a \$5 million grant to complete Phases 1 and 2 of a multi-phased approach to replace the entire water distribution system. The waterlines included in these phases are critical to replace, as it is in the area of regular waterline breaks which significantly impact the reliability of the system to provide safe drinking water. The system is comprised predominantly of cast iron pipe installed in the late 1920s and a surface water treatment plant built in 1929. A few sections of water line have been replaced where water break frequency is high; however, there has been no program to replace the aged distribution system until now. This project will replace a total of 36,075 linear feet of water distribution line, while also replacing 23 fire hydrants of varying functionality. This project will benefit 5,096 people.

College Corner (Butler County) will receive a \$526,750 grant for its water meter addition and replacement project. The village has approximately 530 total water service connections which are primarily residential. These are manually checked each month and readings are often taken by volunteers. Of the 530 connections, more than half of the meters have failed and are need of replacement. The village also would like to relocate the inside meters to outside pits to avoid needing access inside homes. This project will enable the village to accurately track water usage. The readings will be automatically sent to the village which can then track usage and develop invoices. This project will benefit 987 people.

Mechanicsburg (Champaign County) will receive a \$ 955,520 grant to replace portions of the village's antiquated drinking water system within the central area of the village. In place prior to 1970, the system has exceeded its useful life and experiences frequent breaks causing boil orders in the village. This project will replace 10,600 linear feet of water line in the area that includes High Street, West Main, North Main, South Main Streets, and portions of Sandusky, Walnut, and Race Streets. This project will benefit 140 customers.

Springfield (Clark County) will receive a \$360,000 grant to add a second water connection for the Northridge Water District, which is currently served by a 2-mile dead end waterline. This project creates redundancy by providing a second water connection to the district. This project will also make water available to unserved properties outside the city's jurisdiction in Moorefield Township. This project benefits 80,000 people.

Blanchester (Clinton County) will receive a \$ 519,940 grant to install approximately 2,150 feet of water main to replace the existing cast iron water main along East Fancy Street, between Broadway Street and the village's elevated water storage tank on East Fancy Street. The project will also include stubs and tie-ins to cross streets along the project route. In addition, the project will involve installing fire hydrants to meet current EPA spacing requirements. The cast iron water main was installed in the late 1920s or early 1930s and has a history of excessive breaks. The frequent water main breaks cause extended service interruptions for residents. This project will benefit 60 people.

Buckeye Water District (Columbiana County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will construct a secondary water transmission main located in Madison Township, which will begin at the intersection of Osbourne Road (T.R. 878), approximately 1,700 feet to the north of the existing Buckeye Water District Water Treatment Facility, then continue approximately 4.36 miles to the north along State Route 45 to the intersection of County Road 448A; then approximately 0.50 miles to the north along C.R. 448A to the end point at the intersection of West Point Road (T.R. 1148) including the necessary appurtenances, hydrants, and gate valves. The final project will allow looping of the distribution system and will provide water to an area of residential wells that have suspected contamination. This project will benefit 2,200 people.

Warsaw (Coshocton County) will receive a \$37,260 grant to replace 69 lead service lines that the village's records indicate are still present in the village distribution system. This project will replace service lines from the curb stop to the foundation of the home or building. Preliminary estimates suggest an average 50 feet per connection for a rough total of 3,450 linear feet. By replacing these lines, any leaks on private property before metering in the basement will be eliminated. The village has collaborated with the Rural Community Assistance Partnership (RCAP) to conduct an on-site

confirmation survey of the 69 properties suspected to have lead service Lines. This project will benefit 242 people.

Greenville (Darke County) will receive a \$1.44 million grant to install a new transmission water main from the city's water treatment plant to serve the city's water system on the south side of town. This project will replace two existing transmission mains that were installed in 1893 and have greatly exceeded their useful life. In addition to age, the existing cast iron mains run through private property so access for maintenance is challenging. The southernmost existing main is currently exposed where it crosses Greenville Creek, which increases the risk of failure of the main and potential contamination. Upgrading the transmission main will be crucial to provide reliable and a safe water supply to the south side of the city. This project will benefit 19,507 people.

Milan (Erie County) will receive a \$38,983 grant to replace a current waterline that has been prone to slipping down a hill side and is made out of substandard piping. This line has also been prone to water leaks. This project will replace this water main with polyvinyl line and shore up the hill side. This project will benefit 22 homes.

Washington Court House (Fayette County) will receive a \$625,457 grant to replace 2,000 linear feet of water mains that are past their service life and subject to frequent breaks and failures. Since 2016, the city of Washington Court House has repaired nine water main breaks along Lakeview Avenue. Additionally, fire protection is needed in the 1100 block of the street. Finally, this project is within an area identified by the city as potentially containing lead service lines. This project will also improve operational pressure throughout the neighborhood due to reducing friction losses as water enters the neighborhood through the replaced pipe. This project will benefit 500 people.

Whitehall (Franklin County) will receive a \$1.44 million grant to replace two aged and deteriorated small diameter water mains with one larger water main. The project is approximately 6,950 feet in length extending from the intersection with Beechwood Road to the intersection with Shady Lane Road. The existing water distribution network in this section of East Main Street (U.S. 40) was built in the 1940s and has been plagued with frequent emergency repairs, leading to outages, boil advisories, and disruptions to traffic in this heavily traveled corridor. This project will benefit 20,127 people.

Delta (Fulton County) will receive a \$1.04 million grant to build a connection so treated water can be provided to Fulton County by the city of Toledo. The current request for 500,000 gallons per day will serve a segregated portion of the existing distribution system of Delta. The majority of users in this district are commercial/industrial customers. The proposed connection is sized to provide adequate capacity for future growth, as well as serve as an option for supplying the entire community with water in the event of a catastrophic plant failure. This project will benefit 3,500 people.

Swanecreek Water District (Fulton County) will receive a \$1 million grant to extend a water main from an existing water main located on County Road E between Township Road 2 and County Road 3 to the existing water main between Township Road 4 and County Road 5. The water main extension is approximately 10,900 linear feet. The flood and drainage portion of the project consists of replacing approximately 600 linear feet of existing storm sewer and five catch basins. Finally, the project will establish fire protection in a rural area by installing four fire hydrants. This project will benefit 515 residential customers and one commercial customer.

Burton (Geauga County) will receive a \$26,400 grant to cover the planning and engineering design for a project that will replace the water line on Dean Court. The street and infrastructure were built in the 1950s or 1960s and includes asbestos cement water lines. These pipes are very brittle, crack easily and are difficult to repair. Also, as the name implies, asbestos fiber was used as an additive in the concrete to give it strength. Because of these problems, the waterline needs to be replaced. This project includes new ductile iron pipe, new valves, and new hydrants. This project will benefit 1,455 people.

Middlefield (Geauga County) will receive a \$1.4 million grant to connect a new well to its drinking water system. The village of Middlefield Public Water System (PWS) currently has two aging wells. The new well connection project will allow the village to connect a new well to the system and a new supply line that creates redundancy and provides the village a new connection for water wells to help the village accommodate future growth. This project will benefit 2,704 people.

Spring Valley (Greene County) will receive a \$595,000 grant to replace an existing 70-year-old 100,000-gallon steel water standpipe with a booster station and underground storage to meet Ohio EPA's one-day storage requirement. The current standpipe is past its useful life and in poor condition. The coating is missing from numerous areas which allows the drinking water to come into contact with widespread corrosion on the inside of the standpipe. Installing a water booster station with underground storage provides the same function to the water system as the standpipe and provides a long-term solution to the water system needs of the community at a much cheaper cost to the residents. This project will benefit 470 people.

Cambridge (Guernsey County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will extend the waterline that is pumping water from Wills Creek to the reservoir and replace the water intake. The reservoir intake structure was constructed around 1916. The current piping that extends from the raw water pumping station, which is located on the west side of Interstate 77, draws water from Wills Creek and delivers the water to the reservoir. The new waterline will help to eliminate the short circuiting that is currently seen in the reservoir and increase water quality to the city's water treatment plant. The current raw water intake structure located at the reservoir has no functioning valving or controls to direct the level of the water that is taken into the structure. This is an Ohio EPA concern, due to the new requirements to test for and treat for Harmful Algal Blooms (HABs). This project will benefit 21,000 people.

Lockland (Hamilton County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will install approximately 13,000 feet of raw water line to replace a large section of the existing raw water line that was installed in the 1940s. The existing raw water line has failed in multiple locations and is at the end of its useful life. The raw water line is a critical asset because it conveys the only source of raw water to the treatment plant. In addition, Lockland is planning water treatment plant lime softening improvements. The lime softening process needs to be improved to allow the plant operators to effectively provide a consistent water quality and flow rate to the distribution system. The existing lime storage and feed components may be creating issues with the building's structural integrity due to the roof mounted bin and age of the existing building. Replacing and moving the lime storage bin and feed equipment to a different location will reduce the structural strains on the existing building. This project will benefit 3,450 people.

Northwestern Water and Sewer District (Hancock County) will receive a \$2.095 million grant to build a water main interconnection between the communities of North Baltimore and McComb for

regionalization, eliminating the McComb water treatment facility. In addition, new customers along the route between the communities will receive public drinking water. This project will benefit 2,000 people.

Ada (Hardin County) will receive a \$ 218,250 grant to cover the planning and engineering design for a project that will implement necessary improvements needed at the drinking water plant to comply with EPA guidelines and recommendations and OSHA standards due to undersized, failing, or obsolete equipment. This project will benefit 5,544 people.

Deshler (Henry County) will receive a \$139,715 grant to perform maintenance on its 50,000-gallon elevated water storage tank and 300,000 gallon elevated water storage tank to improve the safety of drinking water stored in the tanks and the integrity of the tanks. This project will benefit 745 people.

Glenmont (Holmes County) will receive a \$1.4 million grant to install a new water main 5,500 feet through the village, which will replace the existing water line. This will also replace 61 public and private lead service connections. This project will benefit 297 people.

Monroeville (Huron County) will receive a \$333,439 grant to install 3,700 lineal feet of waterline, complete with new hydrants, valves, service lines and meter pits, and general restoration. The project will replace water lines with a history of breakage. This project will benefit 84 people.

Mt. Pleasant (Jefferson County) will receive a \$8,000 grant to reinstate a previous well to service. Mt. Pleasant currently only has one well to service their water customers and have consistently needed to locate water elsewhere when their well runs dry. This project will provide Mt. Pleasant with a new well to assist the village's current water supply. This project will benefit 275 people.

Danville (Knox County) will receive a \$500,000 grant to install a green sand filtration system. This project will remove iron and manganese from the village water and provide safe drinking water for the community. This project will benefit 1,044 people.

Lake County will receive a \$459,200 grant to replace existing cast iron waterlines along Division Street, Bank Street, and Atwater Street in Madison. The entire waterline will be replaced along these streets and include 2,200 lineal feet of ductile iron pipe new service connections to the right of way and eight new fire hydrants. This project will benefit 120,000 people.

Coal Grove (Lawrence County) will receive a \$933,900 grant to create two separate water interconnects between the city of Ironton and village of Coal Grove. The project includes two emergency connections, as well as booster pumps, master meters, meter pits, and a building for the interconnects. The pumps and meters will both have emergency generators, guaranteeing no service disruptions. The Southern connection includes repairs to existing failing water mains to ensure there are no leaks and potential boil orders due to poor aging infrastructure. This project will benefit 2,000 people.

Newark (Licking County) will receive a \$3.5 million grant to provide a waterline loop from the northeast corridor of the city to the far east side to provide for better fire protection flow within the commercial area on the east side and to provide for future development in that area. In addition, this project will provide a connection point for the proposed Licking Valley Water District for service to the Marne and Hanover area. This will become the beginning of a transmission line through the newly formed Water District that could then be tapped off into developments and businesses within that district. Water

infrastructure within this area will be critical to expand services to the ever-growing population within this district. This project will benefit 7,500 people.

South Solon (Madison County) will receive a \$160,000 grant to install water meters for all 156 existing water service connections within South Solon. Constructed in 1955, the Village's system did not include individual meters and continues to bill both water and sewer service on a flat rate basis. This project will improve the monitoring of water loss within the existing distribution system and provide for equitable billing for customer utilization. This project will benefit 309 people.

Del-Co Water Company, Inc. (Marion County) will receive a \$2.5 million grant to provide a water distribution system for the village of Waldo. The village does not have a centralized potable water system. Instead, residences and businesses rely on individual wells, many from the 1950s, and some residents currently draw water from individual wells located on the same lots as former failing septic systems. Without a water system, fire flow is not available to the village residents, limiting development opportunities. The Del-Co Water Company, Inc. will construct a distribution system within the village and several homes just outside the village limits and connect the new distribution system to Del-Co's existing distribution system, which is approximately two miles south of the village. This project will benefit 300 people.

Medina County will receive a \$150,000 grant to provide a new permanent generator to allow for continued pumping in the event of a power outage at the Spieth Road pump station, which is the main pumping station that distributes water to the entire Northwest water system. Currently, a portable generator is used to power the station during a power outage. This project will help the following political subdivisions: Medina, Brunswick Hills, York, Liverpool, Montville, Hinckley, Granger, Sharon, Lafayette, Chatham, and Harrisville Townships. This project will benefit 39,500 people.

Syracuse (Meigs County) will receive a \$474,100 grant to install 4,350 linear feet of PVC pipe, 22 new valves, 800 feet of new service lines with 43 new service connections and a chemical feed upgrade which will replace old piping that has inadequate water pressure for home use and fire protection. Many valves are inoperative and there is a need for many new valves for portions of the system to be isolated if a leak occurs. The chemical feed for water treatment is aging and subject to numerous problems. This project will benefit 100 people.

Celina (Mercer County) will receive a \$680,000 grant for to replace existing aging and failing waterlines, install new water valves and fire hydrants, replace existing water services up to the right-of-way line. If lead water service lines that go to a residence are discovered, the city will assist the homeowner in coordinating their replacement. These replacements will provide residents of the project area with a safe and reliable water distribution system. The additional fire flow capabilities will allow more effective fire suppression. This project will benefit 10,425 people.

Huber Heights (Miami/Montgomery Counties) will receive a \$400,000 grant to install a new well for the city's Rip Rap Road Water Treatment Plant. Since the recent decommissioning of the city's Needmore Road Water Treatment Plant because of age, the city is now down to one water plant and five wells. A new well will help replace some of the capacity that was lost at that old plant, provide more backup and redundancy to the city's water system, and help combat the higher usage that is experienced every year with new residential and commercial development. This project will benefit 39,000 people.

Farmersville (Montgomery County) will receive a \$45,000 grant to replace greensand and media in the village's gravity filters located at the water treatment plant. The water treatment plant was built in 1998 and the media used to treat the water has reached the end of its useful life. This project will benefit 2,000 people.

Englewood (Montgomery County) will receive a \$369,000 grant to repaint and rehab the city's existing 1-million-gallon water tower. Repainting and rehabbing the current tower will help ensure the finished drinking water it stores stays safe. This project will benefit 14,000 people.

Morgan Meigsville Rural Water District (Morgan County) will receive a \$70,000 grant to design a project to extend the water distribution system to serve a corridor extending 1.3 miles along State Route 60, just north of the village of McConnelsville. This project will begin at Boondocks Restaurant/Quick 60 and continue north to The Homestead Mobile Home Park. The project area covers several commercial/light industrial facilities and single-family residential homes. This project will benefit 100 people.

Ottawa County will receive a \$2 million grant to extend 4.38 miles of water transmission main from the existing Ottawa County Regional Water Distribution System starting at the Harris Township water tower and extending west to the village of Elmore's existing water treatment plant. The project includes a master meter and pressure reducing valve and all necessary accessories required to adequately supply the village. This will allow the village to abandon outdated existing wells and water treatment facilities which are in poor condition. The extension of regional distribution will ultimately provide future cost savings to both village and county customers. In addition, the regional water distribution mainline extension will better prepare the village of Elmore and Harris Township for economic development opportunities. This project will benefit 1,419 people.

Antwerp (Paulding County) will receive a \$49,000 grant for the planning and engineering design for the water treatment plant that serves the village of Antwerp. The water treatment plant needs significant upgrades and complete reconstruction. The first stage of this process will be performing a complete assessment of the existing infrastructure, recommending alternatives to the improvements, and assisting with funding as necessary. The purpose of this project is to develop an engineer's estimate, plans, and scope of work for the water treatment plant. The treatment plant services 730 connections. The improvements are needed to provide safe and efficient drinking water to the residents of this community. This project will benefit 1,681 people.

Shawnee (Perry County) will receive a \$25,000 grant to replace bladder tanks in the village's booster pump station that provides potable water to residents located on New England Hill Road and Manley Hill Road. The current bladder tanks do not hold pressure and require pressurization several times a week. This project will benefit 200 people.

Beaver (Pike) will receive a \$264,790 grant for maintenance and safety improvements to the village's existing 150,000-gallon water storage tank and the existing 80,000-gallon water storage tank. Both water storage tanks are in dire need of repair to ensure the stored water stays safe. This project will benefit 556 people.

Portage County will receive a \$3 million grant to install a water main and booster station which will provide an emergency water source for the village of Mantua Public Water System. The project consists of 2.56 miles of water main along State Route 44 from the intersection of State Route 303 and State

Route 44, Shalersville Township, to the Village of Mantua and Shalersville Fire Station. This project will benefit 1,043 people.

Pandora (Putnam County) will receive a \$1.1 million grant to install a new 200,000-gallon elevated water tank to replace an existing deteriorated 100,000-gallon elevated water tank. The replacement tank will improve water quality and increase storage for fire protection. This project will benefit 1,153 people.

Trumbull County will receive a \$3 million grant to construct an elevated water storage tank and booster pump station to stabilize pressure and volume throughout the entire Mineral Ridge Public Water System. The system is located on the side of a ridge with significant elevation changes. During high demand, water pressures at the higher elevations dip below 35 pounds per square inch and pressure and volume during fire flow is also inadequate at the higher elevations. This project is necessary to protect the health and safety of the residents by not allowing the pressures to drop, which increases the possibility of contaminants infiltrating the public water supply. This project will also increase fire flow during firefighting activities. This project will benefit 2,614 people.

Richwood (Union County) will receive a \$2.6 million grant to replace the existing water treatment facility. The current condition of the treatment equipment threatens the village's ability to produce safe drinking water. Due to continued corrosion and deterioration, many treatment components are nearing complete failure. The village plans to replace the entire water treatment facility using similar treatment methods. This project will ensure the village can provide safe drinking water to its residents. This project will benefit 2,329 people.

Van Wert (Van Wert) will receive a \$594,365 grant to replace 2,700 feet water main along Woodland Avenue between Parkview Drive and Lynn Street. The current water main is beyond its useful life and deteriorated. The condition of the existing line has been exposed through frequent breaks in recent years. New services will be provided to all residences along the project route. This project will benefit 320 people.

Norton (Wayne and Summit counties) will receive a \$3 million grant to construct 10,800 feet of waterline and a 1-million-gallon elevated water tank to provide for the cities of Barberton and Norton. This will help ensure a consistent and safe supply of drinking water. This project will benefit 30,000.

Fredericksburg (Wayne County) will receive a \$500,000 grant to replace the Fredericksburg water treatment system due to age and exceedances of manganese limits. The village had exceeded the manganese limits five times in November 2017 and received notices of violation from Ohio EPA. The new plant will include filters to treat for manganese to meet current and future demands. This project will benefit 408 people.

Wastewater Infrastructure Projects

Allen County will receive a \$217,500 grant to cover the planning and engineering design for a project that will provide sanitary sewer service to 40 property owners who currently have inadequate and failing home sewage treatment systems in the Hamlet of Hume, located in Shawnee Township. This project will benefit 120 people.

Perrysville Village (Ashland County) will receive a \$800,000 grant for its Phase 2 wastewater treatment plant improvements, which include replacing raw sewage pumps, return sludge pumps, concrete ultraviolet tank, metering equipment, standby generator, automatic transfer switch, and approximately 1,700 linear feet of sewer main, laterals and manholes of Pleasant Street due to current poor conditions. This project will benefit 683 people.

Conneaut (Ashtabula County) will receive a \$198,000 grant to replace 400 feet of existing sewer line on Buffalo Street. The line passes under an active railway (Norfolk-Southern) at the midway point. The current line is not in a casing under the tracks and is beyond its useful life. If a failure were to occur under the tracks, the results could be catastrophic. This project will benefit 13,000 people.

Georgetown (Brown County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will remove catch basins, inlets and open-grated structures that directly connect to the sewer system and create a system to discharge storm water at nearby storm water discharge points. This project will reduce inflow and infiltration to the sewer system, which has caused sanitary sewer overflows and excessive flow to the wastewater treatment plant during heavy rain events. The project area is bounded by North Street to the north, Apple Street to the east, State Street to the south, and Green Street to the west. Within this approximate 12 block area, there are close to 50 points of direct inflow into the system. This small geographic area of the village contains most of the direct inflow connections and the project will result in a significant amount of wet weather flow being removed from the system. This project will benefit 4,773 people.

Muskingum Watershed Conservancy District (Carroll County) will receive a \$1.55 million grant to build a new 8,000 gallon per day wastewater treatment plant, two new pump stations with force mains, and gravity collection to tie-in the existing marina building, restrooms, and rental cabins along with a new RV dump station at the North Fork area of Leesville Lake. Currently, onsite sanitary sewage is collected in a number of holding tanks, which are periodically pumped out. This project will benefit 140 people.

Batavia (Clermont County) will receive a \$643,500 grant to replace the force main from the Wood Street Lift Station to the west side of the East Fork of the Little Miami River with a larger diameter pipe. This project will help the village eliminate sanitary sewer overflows (SSOs) and remove the constructed overflow from the Broadway Lift Station and the Wood Street Lift Station. This project will benefit 1,983 people.

Bucyrus (Crawford County) will receive a \$209,000 grant to cover the planning and engineering design for its North West Sewer Separation Project. The project will install approximately 3,500 feet of storm sewer pipe. This important project will connect to an existing storm sewer that discharges into the nearby Sandusky River. This storm sewer is designed to separate approximately 55 acres of storm water from the city of Bucyrus combined sewer system. The storm sewer project will provide relief to the localized flooding and basement backups in the area during heavy rainfalls and provide the area's residents with a properly sized storm sewer to discharge during surface rainwater. This project will benefit 12,000 people.

Bedford Heights (Cuyahoga County) is receiving a \$250,000 grant to cover the planning and engineering design for a new headworks and influent pumping, new equalization tank, collection system improvements, primary clarifier and aeration tank improvements to reduce wet weather bypassing. This project will benefit 21,534 people.

Defiance (Defiance County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will add a clarifier and step-feed operation to the city's existing wastewater treatment plant. The improvements proposed will provide increased secondary treatment to assist in eliminating secondary treatment bypasses during wet weather events. The step-feed portion of the project will consist of modifying the current aeration tanks from conventional activated sludge to step-feed treatment. The upgrade will help achieve biological nutrient removal and allow higher flows into the aeration tanks. The addition of the clarifier will provide better settling to prevent solids from entering the effluent. This project will benefit 21,497 people.

Ashley (Delaware County) will receive a \$175,000 grant to cover the planning and engineering design for a project that will improve the existing influent lift station and sand filters. The influent lift station lacks adequate solids protection that can cause unplanned pump maintenance and the existing tertiary sand filters are in disrepair due to age with tanks and piping that leaks and impact the downstream ultraviolet disinfection operations. This project will add a channel grinder at the lift station and new tertiary filters that address the reliability, health, and safety concerns and operations. Replacing the sand filters with more efficient tertiary disc filters will eliminate algae and e. Coli carryover while increasing the filter run times and reducing backwash volumes. This project will benefit 1,502 people.

Pickerington (Fairfield County) will receive a \$300,000 grant to replace approximately 1,000 linear feet of clay pipe sanitary sewer and reestablish service connections. The existing sanitary sewer has been identified to have severe inflow and infiltration, and it has deformations causing sewer backup into residential basements. This project will benefit 1,000 people.

Worthington (Franklin County) will receive a \$ 345,479 grant to replace existing sewer mains with new mains to alleviate sanitary sewer overflows and basement backups during wet weather. This project will benefit 1,900 people.

Gallia County will receive a \$595,750 grant to replace the wastewater treatment plant that serves the buildings that house the Gallia-Meigs Community Action Agency and Hopewell Health Centers. Currently there is a very old and very small extended aeration plant with a leach field contained on the county-owned property with no discharge off property. The current system continually is in violation of Ohio EPA permit limits when it is fully occupied. The project will include construction of a new 15,000 gallon per day conventional package plant. The project will benefit 390 people.

Harrison County Board of Commissioners will receive a \$3.2 million grant to construct a 75,000 gallon per day extended aeration treatment plant and a conventional gravity sewer collection system with one lift station in the village of Freeport. The project will eliminate failing on-site septic systems and Ohio EPA violations for contamination and raw sewage in storm drains throughout the village of Freeport. This project will benefit 374 people.

Hamler (Henry County) will receive a \$132,213 grant to cover the planning and engineering design for a project that will remove sludge and rebuild the original two lagoons and build a third lagoon to add the retention time needed to meet permit effluent requirements. The existing lagoons were built in the early 1970s and there has never been any sludge removed or improvements made. This project will benefit 627 people.

Hillsboro (Highland County) will receive a \$3.2 million grant to improve storm water control by installing 14,000 linear feet of conduit, 1,500 linear feet of sanitary service line, and 131 catch basins. This project will reduce operation and maintenance costs through mitigating inflow and infiltration and complying with an Ohio EPA notice of violation. This project will benefit 6,534 people.

Laurelville (Hocking County) will receive a \$1.35 million grant to upgrade its wastewater treatment plant to enable it to comply with the village's ammonia effluent discharge limits. The project includes installing covers on two of the lagoons, replacing the aeration system in the lagoons, adding a polishing reactor, replacing the headworks, upgrading the Influent Pump Station, and adding a UV system. This project will benefit 869 people.

Wellston (Jackson County) will receive a \$2.7 million grant to separate the storm and sanitary sewer to rehabilitate the critical infrastructure along New York Avenue and Broadway Street. This will reduce infiltration and inflow and allow proper maintenance of city water, sanitary, and drainage systems. This project will benefit 2,236 people.

Empire (Jefferson County) will receive a \$563,815 grant to improve and upgrade its wastewater treatment facility that has reached the end of its useful life. This project will benefit 299 people.

Southwest Licking Community Water and Sewer District (Licking County) will receive a \$4.1 million grant to provide sanitary sewer to the Pataskala Corporate Park and to the northern portions of Etna Township Corporate Park. Both corporate parks have full utilities other than sanitary sewer service, and this will allow the corporate park to fully develop. This project will benefit 2,500 people.

Logan County will receive a \$5 million grant to extend sanitary sewers to several unsewered areas in Zane and Perry Townships and construct a new wastewater treatment facility. The current wastewater facility is at the end of its service life and will be replaced with the new facility and the existing sanitary sewers will be rehabilitated to reduce infiltration and inflow. This project will also allow for significant development along the U.S. 33 corridor in Logan County and allow the county to continue to provide reliable sanitary sewer service to several commercial and industrial customers in this area. This project will benefit 450 people.

Lorain County Rural Wastewater District will receive a \$2.6 million grant to replace the existing Slife Road lift station due to concrete deterioration. Existing manholes will be replaced with concrete manholes with internal corrosion protection and 88 existing concrete manholes will be repaired with added interior corrosion. Evaluations of 131,231 lineal feet sanitary sewer line will be performed to investigate potential clean water connections to the sanitary sewer collection system. This project will benefit 3,000 people.

Lucas County will receive a \$905,818 grant to install 2,200 linear feet of additional sanitary sewer. The county has had extensive growth over the years and the added wastewater flows have required the county to implement the gravity sewer extension in accordance with the sanitary sewer master plan. The gravity sewer extension will eliminate multiple pumping stations and force mains, thereby reducing reliance on electricity and emergency response to pump station failures. This project will benefit 7,500 people.

Waterville (Lucas County) will receive a \$88,100 grant to upgrade its pump station to and replace two pumps, and equipment to enable pump station to be bypassed for upgrade work, and cleanout the wet

well. Equipment at the pump station is aging and in need of replacement. This project will benefit 5,600 people.

Sebring (Mahoning County) will receive a \$330,000 grant to replace the ultraviolet disinfection equipment at the village's wastewater treatment plant. The plant's existing ultraviolet disinfection equipment has exceeded its useful life and has become cost-prohibitive for the village to maintain. This project will benefit 4,420 people.

Ohio & Lee Water and Sewer Authority (Monroe County) will receive a \$3.2 million grant to provide a decentralized sanitary sewer system for approximately 82 residential and commercial connections throughout the unincorporated area of Duffy, which has experienced high coliform levels. There currently is not a public sanitary sewer system in existence. Properties have on-lot systems of varying age and condition. This project will use a septic tank effluent pumping collection system with a re-circulating media filter for treatment. The project will reduce risk of contamination to sources of drinking water, both for the communities served and for communities downstream. It will also allow for safe recreation in the area. This project will benefit 2,154 people.

Morrow County will receive a \$2 million grant for the construction of the SoMoCo lagoon improvements and outfall sewer project which consists of adding treatment processes to the existing lagoon wastewater treatment plant facility to provide treatment to meet effluent requirements. Additional treatment will be added to treat for ammonia and phosphorus. The project also includes approximately 6,000 linear feet of gravity sewer to discharge treated effluent to Alum Creek. This project will benefit 1,525 people.

New Concord (Muskingum and Guernsey Counties) will receive a \$621,790 grant to replace the village's wastewater treatment plant's tertiary filters. The existing wastewater treatment plant is no longer able to provide this final treatment during peak flows at the plant. Replacing the plant's tertiary filters is essential to improving the quality of the plant's effluent and water quality. This project will benefit 2,676 people.

Caldwell (Noble County) will receive a \$3.7 million grant to replace 3,400 linear feet of sanitary sewer, and install 4,500 linear feet of sewer, and 8,600 linear feet of storm sewer. This project will reduce basement backups within the village, decrease sanitary discharges to local streams, and reduce flows going to the wastewater treatment plant. Reducing flows to the wastewater treatment plant will reduce wear on equipment, reducing operation and maintenance cost for the wastewater treatment plant. This project will benefit 2,171 people.

Williamsport (Pickaway County) will receive a \$132,840 grant to rehabilitate 1,760 linear feet of sanitary sewer through sewer lining. The village's system has line cracked sections of antiqued clay sanitary sewer lines that have been damaged by tree roots and have documented evidence of infiltration and inflow. This project will accelerate repairs to the sewer system. This project will benefit 959 people.

New Paris (Preble County) will receive a \$100,000 grant to cover the planning and engineering design for a project that will reduce inflow and infiltration by identifying sources that are contributing to the severe wet weather overflows. Over the past four years, effluent flows from the treatment plant have been two to three times higher than the design treatment capacity of the treatment plant. This project will benefit 1,479 people.

Putnam County Board of Commissioners will receive a \$960,000 grant to install 14,780 linear feet of storm sewer, 11 stormwater manholes, 55 catch basins and excavate 600 cubic yards of drainage swales to eliminate or reduce inflow and infiltration into the sanitary system. This project will make improvements in the area bound by U.S. 224, Old U.S. 224, Eastowne Drive, and Sunset Drive. This project will benefit 720 people.

Butler (Richland County) will receive a \$354,150 grant to repair two sections of storm sewer in the village that has been overwhelmed with excessive stormwater and little to no storm sewers. The rampant stormwater is a hazard to the community and the public facilities surrounding these areas have been damaged and require repair. The project area around Craig Street will consist of 700 linear feet of storm sewer, nine new or replacement catch basins, ditch work, miscellaneous road repair and concrete work. The project area around Stewart Avenue will consist of 580 linear feet of storm sewer, three new catch basins, and miscellaneous work to tie the project into the existing infrastructure. This project will benefit 200 people.

Adelphi (Ross County) will receive a \$148,350 grant to replace 430 linear feet of sewer and two manholes. This section of sewer main is contributing to issues in the sanitary collection system and needs to be replaced. This project will benefit 329 people.

Fremont (Sandusky County) will receive \$1 million grant to repair the city's interceptor and replace or repair various manholes and structures along the project area. The North Street Sanitary Sewer Main is a significant sanitary sewage interceptor for Fremont. There is a great deal of infiltration and inflow getting into this interceptor because the pipe has significantly deteriorated at and downstream of the sanitary force main connections. There are areas in this interceptor where the walls have become soft and are at risk of structural failure. This interceptor is under parts of Fremont Middle and High school properties, as well as railroad tracks and a portion of the county fairgrounds. This project will benefit 4,100 people.

New Boston (Scioto County) will receive a \$250,000 grant to cover the planning and engineering design for a project that will install a new sewage force main from the West Avenue pump station to the Portsmouth wastewater treatment plant. This project will provide more capacity in the West Avenue pump station and system redundancy, protecting against the consequences of system failure. Due to the recent capacity upgrades to other New Boston pump stations, the existing force main is incapable of handling the increased flow from an upgraded West Avenue pump Station. This capacity limitation results in combined sewer overflows, which can be mitigated by increasing the capacity of the West Avenue pump station including the parallel force main. The installation of a new parallel force main will decrease combined sewer overflows from New Boston's system that pose a threat to public health and impact water quality in the Ohio River. This project will benefit 2,139 people.

Tiffin (Seneca County) will receive \$390,000 grant to install sanitary sewer mains at various locations throughout the city in order to eliminate several household sewage treatment systems currently operating within the city's jurisdictional boundaries. This project will reduce the number of illicit discharges into the city's municipal storm sewer system. This project will benefit 10 people.

Botkins (Shelby County) will receive a \$80,000 grant to cover the planning and engineering design for a project that will add a third sequential batch reactor to the village's wastewater treatment facility. This upgrade serves a dual purpose for the village. Initially, the tank will be used for equalization, which will

allow more consistent flow, treatment of wastewater and maintenance of the overall facility. As the village continues to grow residentially and industrially, the wastewater treatment needs will grow as well, and these upgrades will help serve this growth. This project will benefit 1,124 people.

Dennison (Tuscarawas County) will receive a \$443,300 grant to correct potential cross-connections between the sanitary and storm sewer systems and replace the existing storm sewer system along Grant Street from Fourth Street to the Stillwater Creek Outfall. The village will investigate the sources of the cross-connections and infiltration and inflow. This project will benefit 2,594 people.

McArthur (Vinton County) will receive a \$519,000 grant to remove and land apply biosolids from the lagoons in the village. This project will also retrofit four wastewater treatment lagoons with new equipment and replace three blowers and motors. This project will help the village comply with state ammonia effluent standards. The project will benefit 2,064 people.

Mason (Warren County) will receive a \$300,000 grant to repair the wastewater treatment plant clarifiers and bridges that are failing due to aging and corroded equipment. This project benefit 33,000 people.

Matamoras (Washington County) will receive a \$420,000 grant to improve two lift stations. The first project will add a permanent backup generator on an elevated platform and pump, guide rail, electrical, and valve vault improvements to the Collins Run Lift Station. The second project will improve the portable generator hookup, electrical panel, pump, guide rail, valve vault, stairway, and ladder to the River Front Lift Station. The treatment plant has had issues with hydraulic overloading of the treatment plant during wet weather. The collection system also has experienced numerous sanitary sewer overflows for more than 15 years. This project will benefit 672 people.

Pioneer (Williams County) will receive a \$217,436 grant to build a new wastewater pump station and 2,588 linear feet of force main to serve the North Industrial Park. The wastewater pump station and force main will connect new businesses to the existing municipal wastewater collection and treatment facilities. This project will benefit 450 people.

Montpelier (Williams County) will receive a \$2.75 million grant to complete the final phase to separate its combined sewer overflows. The project will install 6,731 linear feet of new sanitary sewer line and 899 linear feet of new storm sewers as well as converting the existing combined sewers to storm sewers. The project also includes 5,229 linear feet of sanitary services and 281 linear feet of storm services to the foundation of 123 homes. The inside sewer piping of 55 of those homes will be updated to ensure that their sanitary and storm effluent is discharged to the appropriate sewer. This project will benefit 3,952 people.

Northwestern Water and Sewer District (Wood) will receive a \$462,916 grant to construct sanitary sewers to allow for the removal and abandonment of the failing home sewage treatment systems in the village of Sugar Ridge, which is an unincorporated community in Wood County. Sampling completed by the Ohio EPA indicated significant pollution in the area ditches related to these failing systems. This project will benefit 75 people.

Drinking Water and Wastewater Infrastructure

Lakewood (Cuyahoga County) will receive \$3.28 million to replace drinking water mains and lead service lines and reduce combined sewer overflows in its sewer system. The drinking water project will replace 115-year-old deteriorated cast iron watermains with ductile iron cement lined pipe and replace existing lead service lines with new copper service lines for each property. The wastewater project includes Combined Sewer Overflow reductions by constructing manhole separations where storm and sanitary flows share a common manhole, cured-in-place pipe lining of the sanitary sewer mains and laterals, installing new storm and sanitary cleanouts, and sewer point repairs to comply with the city's Integrated Wet Weather Improvement Plan. This project will benefit 4,120 people.

Massillon (Stark County) will receive a \$618,914 grant to replace a failing sanitary sewer and water main located along Eighth Street SW in Massillon. The severity of the joint failures indicates the failure of the system in the next few years. The water main was installed in 1928 and has a history of main breaks. This project will increase the size of this main and it will be constructed of ductile iron piping to improve the main for overall fire protection and service reliability in the area. The sanitary sewer has multiple joint failures and is receiving inflow and infiltration into the system. This project will benefit 15,000 people.

Sycamore (Wyandot County) will receive a \$288,000 grant to make several improvements on Benton Street in the village of the Sycamore. This is the first phase of a larger project that will reconstruct Kilborn Street and add an interceptor storm sewer. This project will replace an existing and failing waterline along a majority of Benton Street and add fire hydrants. A new storm sewer will be installed along Benton Street which will provide drainage for the roadway and adjacent properties. An existing failing sanitary sewer and services will be replaced between Benton Street and Kilborn Street that services a small mobile home park. This project will benefit 814 people.

Project summaries compiled by Ohio EPA. Contact Heidi Griesmer, Ohio EPA Deputy Director for Communication, at 614-644-2782 with any questions.