

**APPENDIX E2: WATER**

<b>Project Title</b>	<b>Project Sponsor</b>	<b>County Served</b>	<b>Description</b>	<b>Total Project Cost</b>
Water Line Replacement	Village of Bethesda	Belmont	Water lines have reached the end of their useful life and need to be replaced.	\$ 580,980
Village of Minerva Water Tower Painting (Interior/Exterior)	Village of Minerva	Carroll	To remove interior/exterior coating and to re-coat the existing 500,000 gallon water tower within the Village of Minerva.	\$ 98,000
Water Line Replacement	Village of Malvern	Carroll	Water lines have reached the end of their useful life and need to be replaced.	\$ 471,500
Waterline Replacement	Village of East Palestine	Columbiana	The proposed project will replace aging and deteriorating waterline throughout varies areas of the Village of East Palestine.	\$ 5,100,000
Waterline Replacement	Village of New Waterford	Columbiana	The proposed 3B waterline replacement project will eliminate aging and failing waterline.	\$ 1,120,000
Elevated Water Tank	Village of Washingtonville	Columbiana	Exiting water tank has reached the end of its useful life.	\$ 1,158,000
Coshocton - Warsaw - River View Schools Regional Waterline	City of Coshocton	Coshocton	Regional water line will provide water safe and an adequate supply of drinking water to the Village of Warsaw and the River View Schools complex. The underground water supply for Warsaw is in danger from rising contaminants and the existing WTP is in need of replacement.	\$ 4,430,000
Steubenville Avenue Water Line Replacement	City of Cambridge	Guernsey	Water line has reached the end of its useful life and needs to be replaced prior to road improvements.	TBD
Water Storage Tank Replacement and Booster Pump Station	Village of Hopedale	Harrison	Replacement of two aging water tanks with one 220,000 gallon elevated water tank and a new booster station with generator and automatic transfer switch, chlorinator with day tanks, mixer, auto dialer, and valve vault.	\$ 2,275,760
Rabbit Road Waterline Extension	Village of Hopedale	Harrison	Approximately 3,200 linear feet of 6-inch and 8-inch HDPE water line to be installed by horizontal directional drill method.	\$ 546,500
Valve Replacement	Village of New Athens	Harrison	The village of New Athens would like to replace inoperable valves throughout the water system. Over the years dirt, road grit and stones have gotten into the valve box or the valve box has been misaligned with the valve nut preventing the valve to be operated. It is also impossible to completely close the valves due to grit in the piping. Without new valves, isolation of lines to repair leaks is not possible. After the valves are replaced, a regular maintenance program has been established to exercise each valve at least once per year.	\$ 214,534
Waterline Replacement St. Clairsville Road to New Athens Road - Phase I	Village of New Athens	Harrison	This water line is a main line that feeds the Village from Belmont County. It is proposed to replace 11,000 feet of existing 4-inch main with a new 6-inch main. This will provide more reliability of water from Belmont County because of the number of annual water main breaks. It will also increase water pressure and provide fire flow to the project area. This line will provide the beginning of a looped system for the Village which is necessary to maintain system-wide pressure and allow servicing and repairs while maintaining service to the Village. There are approximately 50 service connections on this line that do not currently have fire protection because of the existing 4-inch water main.	\$ 1,506,425
Waterline Replacement--St. Clairsville Road to New Athens Road--Phase II	Village of New Athens	Harrison	This water line will complete a loop within the Village's water distribution system. It is planned to be a 6-inch line to increase flow and provide fire protection to the 25 service connection. It will provide 7,700 feet of new water line and will provide a 50-year service life for the Village.	\$ 925,956
Water Plant Improvements	Village of Glenmont	Holmes	Water treatment plant needs to be replaced.	\$ 430,300
Water System Improvements	Village of Nashville	Holmes	Construction of a new water treatment plant with two new service wells and a 100,000 gallon water storage tank to replace aging infrastructure.	\$ 1,548,000
Waterline Replacement	Cherry Ridge Waterworks	Holmes	The proposed project will replace a failing waterline serving approximately 35 residences.	\$ 600,000
West End Water Project	City of Steubenville	Jefferson	New water storage tank in City's west end to provide redundancy for hospital and other critical users, schools, and future development. Project includes booster station and new water main to supply water to the tank.	\$ 5,040,000
Nebo Drive Water Line, Phase 2	City of Toronto	Jefferson	Extend water and sewer service to an existing home with a malfunctioning septic system and will add 24 future residential water and sewer connections to city through a new subdivision. Project will also allow the closure of Titanium Way as a public street to enable TIMET to maintain and expand operations at its existing site safely and efficiently.	\$ 2,065,000

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Euclid Avenue From Railroad Street to Franklin Street, Connection Relocation	City of Toronto	Jefferson	Reconnect service lines to a parallel water main along Euclid Avenue. This will be from Railroad Street to Franklin Street- approximately 1300' and 45 connections. This project will disconnect the service lines that currently are connected to an existing 4" line and reconnect them to a parallel line that changes from 12" to 8" then to 6". This project is to increase pressure to the homes. No PTI would be required because no water mains are being constructed. There will be some pavement replacement on the line extensions, sidewalk replacement on line reduction, and seeding/mulching needed. Utilities will need to be located.	\$ 248,114
Filter Media/Underdrains, Ground Storage Tank, Two Clearwells	City of Toronto	Jefferson	This project will Replace filter media (Remove ex- \$14,000; New- \$41,000= \$55,000) and underdrains (\$50,000). This work will insure proper operations of the filter and the removal of undesirable contaminants from the drinking water to provide the residents and businesses of Toronto with clean, safe and reliable drinking water. As part of this project, the Village will have their two clearwells cleaned and inspected as well as their 3 million gallon storage tank. The clearwells and tanks are critical components to the system providing required system storage while the clearwells also provide necessary chlorine contact time for disinfection prior to the water leaving the water treatment plant. The clearwell and tank work has been quoted for \$42,000.00.	\$ 241,700
Update Water Meter Reading/Billing Software	City of Toronto	Jefferson	The Village currently uses Neptune "NSIGHT PLUS" for their water meter and billing services. The NSIGHT PLUS will be outdated after 2020 and will no longer be serviceable. The Village is required to update from the NSIGHT PLUS to Neptune 360 to maintain system compatibility. The project cost from Neptune has been quoted for \$17,000.	\$ 59,625
Walton Acres Water Main-- Phase 1 and 2	City of Toronto	Jefferson	The project will excavate and replace the existing waterline with new pressure water line. Existing infrastructure consists of 6" cast iron water main under an existing local road. Phase 1 will replace approximately 1470 lf of water line with ductile iron and Phase 2 will replace approximately 3000 lf of water line with ductile iron. The project will replace or add 10 gate valves and replace 5 fire hydrants.	\$ 1,541,600
Stardust Drive, Rainbow, Skyline, Milky Way, Rex Ave., Russell Ave. and Day Circle Waterline Replacements	Village of Wintersville	Jefferson	The project will replace 7,294 LF with 6" C-900 PVC waterline with fittings and low density concrete fill. Fifteen existing fire hydrants will be installed. 133 meter pits, meters and transmitters and service connections are anticipated. Twelve 6" gate valves and 4 main line connections will be required. Topsail, seed and mulch will complete the waterline portion.	\$ 1,640,905
Systemwide Upgrade to Radio Read Water Meters	Village of Wintersville	Jefferson	Upgrade the water metering system that has reached the end of its useful life, by using AMR/AMI technologies to effect increased water conservation and increased water accountability and management for the Village of Wintersville.	\$ 1,209,224
Friendship Dr. Water Line Replacement	Village of New Concord	Muskingum	The proposed line to be replaced was originally installed in the 1930's and is of cast iron which breaks quite often. The project area also has been cited in OEPA reports as having a higher than normal lead level. Please note this line serves the John Glenn High School, Miller Elementary School and one-half of the village.	\$ 613,330
Water Storage Tank Replacement	Village of Dresden	Muskingum	Replacement of an existing leaking and deteriorated 200,000 gallon, ground-level, steel water tank with a new glass-lined, bolted steel water storage tank. The existing tank was constructed in 1970's.	\$ 407,360
Water Line and Booster Station Replacement	Village of Philo	Muskingum		\$ 515,000
Pioneer Water Storage Tank Replacement	City of Zanesville	Muskingum	The City of Zanesville needs to replace the existing Pioneer Reservoir with two new, one million gallon above grade water storage tanks. The existing tank has provided service to the city since 1878 and has survived beyond its useful life.	\$ 4,306,000
Water Treatment Plant Rehabilitation	Village of Gnadenhutten	Tuscarawas	Rehabilitation of water treatment plant.	\$ 1,500,000

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Tuscarawas County - Emergency Water Supply Connection	Tuscarawas County	Tuscarawas	With the upgrade of the Wilkshire Hills WTP, Tuscarawas County will be supplying water to the Village of Bolivar. Prior to this project, the Village of Bolivar served as an emergency supply for the County. We will no longer have this emergency source. The County would like to connect to the City of Canton's 42" water transmission line which is located near the village of Bolivar with a master meter for use in emergencies only. The Wilkshire Hills Water System serves most of northeast Tuscarawas County, and the project will benefit 2,500 County customers as well as the approximately 470 customers in the Village of Bolivar. It also provides greater resiliency to the County in order to provide emergency connections from the county to the Villages of Magnolia and East Sparta.	\$ 1,400,000
Water Meter Installation	Village of Bolivar	Tuscarawas	The proposed project will install water meters throughout the Village of Bolivar to improvement management and operations of the water system.	\$ 932,054
<b>TOTAL</b>				<b>\$ 42,725,867</b>