

STATUS OF ALL APPROVED TSEP PROJECTS

(Project information last updated October 2018)

Projects Approved through the 1993 Legislative process

Thirty-two applications requesting \$11,627,592 in TSEP funds were submitted for the 1995 biennium. The 1993 Legislative process approved 20 TSEP grants totaling \$3,966,458 and four loans totaling \$168,000. One grant (Gallatin Co. /Rae Subdivision) and all four loans were terminated. **All of the projects have been completed.**

NAME OF RECIPIENT	Anaconda-Deer Lodge County	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 350,000	TSEP Grant
	\$4,725,000	Revenue Bonds
	<u>\$ 375,000</u>	CDBG Grant
TOTAL	\$5,450,000	

PROJECT SUMMARY: Anaconda-Deer Lodge was required to improve its water system to comply with state and federal water quality standards. The city was under a DEQ boil order. *The project was completed and consisted of construction of a water storage tank and related transmission piping and equipment, renovation of the system's three existing wells, construction of three new wells, improvement of the pumping facilities, and improvements to the distribution system, primarily focusing on main replacement under Anaconda's two major arterial streets in conjunction with a MDT pavement renewal project.*

NAME OF RECIPIENT	Beaverhead County	
PROJECT TYPE	Solid Waste	
FUNDING	\$160,000	TSEP Grant
	<u>\$160,000</u>	Local Funds
TOTAL	\$320,000	

PROJECT SUMMARY: The landfill was located directly above the city's water supply and the Beaverhead River. The situation was considered a significant threat to public health, and there was a DEQ mandate to close and reclaim the site. *The project was completed and consisted of covering the old site, contouring and building diversion ditches for rainfall and runoff, reseeding the area with native vegetation, and implementing an on-going, 30-year monitoring program.*

NAME OF RECIPIENT	Butte-Silver Bow County	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 300,000	TSEP Grant
	<u>\$24,406,000</u>	Revenue Bonds
TOTAL	\$24,706,000	

PROJECT SUMMARY: Butte-Silver Bow was required to improve its water system to comply with state and federal water quality standards. *The project was completed and consisted of various improvements to the water transmission and distribution system, various water storage improvements including the construction of a new 10 million-gallon storage tank and a new reservoir, and the construction of two new water treatment plants.*

NAME OF RECIPIENT	Carbon County	
PROJECT TYPE	Bridge	
FUNDING	\$ 25,000	TSEP Grant
	\$ 70,500	Local Funds
	<u>\$ 45,100</u>	U.S. Forest Service Grant
TOTAL	\$140,600	

PROJECT SUMMARY: The Sand Ford Bridge provides access to the East Rosebud Canyon area south of Roscoe. The MDT considered the bridge an urgent and serious safety problem because it violated state bridge standards and is used by 200 vehicles per day during summer months. *The project was completed and consisted of the construction of a new bridge complete with abutments and approaches.*

NAME OF RECIPIENT	Circle, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 370,000	TSEP Grant
	\$ 300,000	CDBG Grant
	\$ 872,600	RD Loan
	<u>\$1,300,000</u>	RD Grant
TOTAL	\$2,842,600	

PROJECT SUMMARY: The city had received a noncompliance order from DEQ because of health risks posed by excessive fluorides and sodium in water supply, in violation of federal and state water quality standards. *The project was completed and consisted of constructing a new reverse osmosis water treatment plant and water distribution lines.*

NAME OF RECIPIENT	Dutton, Town of	
PROJECT TYPE	Water System Improvements	

FUNDING	\$ 50,000	TSEP Grant
	\$ <u>66,319</u>	RRGL Grant
TOTAL	\$116,319	

PROJECT SUMMARY: The town needed to provide adequate capacity for fire fighting. *The project was completed and consisted of installation of a reliable transmission line, installation of a gas chlorination system, and improvements to the pumping station's valve work and piping.*

NAME OF RECIPIENT	Ennis, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 100,000	TSEP Grant
	\$1,100,000	RRGL Loan
	\$ 400,000	CDBG Grant
	\$ <u>5,000</u>	Local Funds
TOTAL	\$1,605,000	

PROJECT SUMMARY: The town needed to provide adequate capacity for fire fighting. *The project was completed and consisted of construction of a new 500,000-gallon storage tank and the associated transmission main, a booster pump station, various distribution system improvements, and the replacement of inoperable fire hydrants.*

NAME OF RECIPIENT	Froid, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 117,000	TSEP Grant
	\$ 25,000	Local Funds
	\$ 938,500	RD Grant
	\$ <u>220,000</u>	RD Loan
TOTAL	\$1,300,500	

PROJECT SUMMARY: The town needed to provide adequate capacity for fire fighting and the drinking water was substandard due to high sodium, manganese, nitrate and sulfate water contaminants. *The project was completed and consisted of construction of a reverse osmosis water treatment system, and a new storage tank with an improved water chlorination system.*

NAME OF RECIPIENT	Gallatin Co. / Rae Subdivision	
PROJECT TYPE	Water System Improvements	
FUNDING	\$33,245	TSEP Grant
	\$ <u>33,245</u>	Local Funds
TOTAL	\$66,490	

PROJECT SUMMARY: The project was to consist of installing water meters on all service lines. *The grant was terminated at the request of the county when the local funds could not be committed to the project.*

NAME OF RECIPIENT	Harlem, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$217,300	TSEP Grant
	\$170,795	CDBG Grant
	\$186,905	EDA
	\$122,000	Bank Loan
	\$ <u>43,825</u>	Local Funds
TOTAL	\$740,825	

PROJECT SUMMARY: The city needed to provide adequate capacity for fire fighting. *The project was completed and consisted of the construction of a new 400,000-gallon tank with an improved water chlorination system.*

NAME OF RECIPIENT	Helena, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 275,068	TSEP Grant
	\$ <u>825,203</u>	Local Funds
TOTAL	\$1,100,271	

PROJECT SUMMARY: The city needed to provide adequate capacity for fire because of deficiencies in water storage and main capacity in a portion of the city. *The project was completed and consisted of construction of a new 200,000-gallon reservoir, new or replaced water mains, six fire hydrants, and a pumping station.*

NAME OF RECIPIENT	Lewistown, City of	
PROJECT TYPE	Storm Drainage	
FUNDING	\$ 60,000	TSEP Grant
	\$ <u>168,625</u>	Local Funds
TOTAL	\$228,625	

PROJECT SUMMARY: The city had poor drainage in a 12-block area of the north central portion of the city caused standing water that deteriorated streets, created traffic hazards, and impacted neighboring residential and business properties. *The project was completed and consisted of the installation of a subsurface conduit for the collection and conveyance of storm water.*

NAME OF RECIPIENT	Livingston, City of	
PROJECT TYPE	Storm Drainage	
FUNDING	\$100,000	TSEP Grant
	<u>\$100,000</u>	Local Funds
TOTAL	\$200,000	

PROJECT SUMMARY: A storm drainage system in a 27-block area on the east side of Livingston had deteriorated to the point that much of the system had collapsed. As a result, there was inadequate drainage of storm runoff and subsequent damage to private and public properties. *The project was completed and consisted of construction of collection drain inlets, storm drain pipes, and the outfall structure. In addition, the entire system is now located in the public right-of-way.*

NAME OF RECIPIENT	Missoula County-Sunset West Subdivision	
PROJECT TYPE	Water System Improvements	
FUNDING	\$154,107	TSEP Grant
	<u>\$221,228</u>	SRF Loan/Rural Improvement District
TOTAL	\$375,335	

PROJECT SUMMARY: Residents of the subdivision had little or no drinking water due to contamination and failure of existing wells. An administrative compliance order was issued to the subdivision by DEQ to provide an adequate water supply. *The project was completed and consisted of a new off-site well and 10,000 feet of water main to connect the well to the existing storage tank.*

NAME OF RECIPIENT	Neihart, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$544,673	TSEP Grant
	\$150,000	RRGL Loan
	<u>\$ 14,196</u>	Local Funds
TOTAL	\$708,860	

PROJECT SUMMARY: The town was under state district court order to improve its water system to comply with state and federal water quality standards, and was under a DEQ boil order since 1982. *The project was completed and consisted of the construction of a new water treatment plant.*

NAME OF RECIPIENT	Richland County	
PROJECT TYPE	Solid Waste	
FUNDING	\$ 285,000	TSEP Grant
	\$ 785,140	Bank Loan
	\$ 109,860	County Solid Waste District
	<u>\$ 102,500</u>	Local Funds
TOTAL	\$1,180,000	

PROJECT SUMMARY: The county landfill polluted groundwater and domestic wells located within a one-mile radius of the landfill. *The project was completed and consisted of closing the existing landfill and purchasing a site for and construction of a new landfill.*

NAME OF RECIPIENT	Ronan, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$100,000	TSEP Grant
	\$ 90,000	Local Funds
	\$400,000	CDBG Grant
	\$405,832	SRF Loan
	<u>\$114,500</u>	DEQ Grant
TOTAL	\$879,662	

PROJECT SUMMARY: The city's sewage collection and treatment system was in violation of federal and state water quality standards. *The project was completed and consisted of the rehabilitation of the wastewater treatment facility including retrofitting the aeration system in three cells and constructing a wetlands in the fourth, rehabilitation of the a lift station, improvements to the collection system to remove sedimentation, replacement of concrete and wood lines with PVC pipe to limit ground water infiltration, increasing slope and pipe diameters to boost flow capacity, upgrading the lift/ejector station, and constructing a second highway crossing and new interceptor sewer to re-route east and southeast flows to the rehabilitated lift station.*

NAME OF RECIPIENT	Shelby, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 366,000	TSEP Grant
	\$ 200,000	CDBG Grant
	<u>\$ 481,000</u>	SRF Loan
TOTAL	\$1,047,000	

PROJECT SUMMARY: Deteriorating sewage lines caused sewage to back up into numerous homes. *The project was completed and consisted of the replacement of sewer lines and associated manholes accessing the lines.*

NAME OF RECIPIENT	Stillwater County-Reedpoint	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 200,000	TSEP Grant
	\$ 718,785	RD Grant
	\$ 137,600	RD Loan
	<u>\$ 400,000</u>	CDBG Grant
TOTAL	\$1,456,385	

PROJECT SUMMARY: The community did not have a public sewer system, and groundwater and wells were contaminated by failing cesspools and septic tanks. *The project was completed and consisted of construction of a new community sewage collection and treatment system.*

NAME OF RECIPIENT	Yellowstone County	
PROJECT TYPE	Bridge	
FUNDING	\$ 95,500	TSEP Grant
	\$ 51,079	Local Funds
	<u>\$ 48,969</u>	United Industry (private development contribution)
TOTAL	\$195,548	

PROJECT SUMMARY: The MDT considered the King Avenue Bridge a serious public safety issue, creating a traffic bottleneck and accidents. *The project was completed and consisted of replacing the bridge with a new wider, four-lane, bulb tee bridge.*

Projects Approved through the 1995 Legislative process

Twenty-one applications requesting \$7,263,879 in TSEP funds were submitted for the 1997 biennium. The 1995 Legislative process approved \$4,991,029 in TSEP grant funds for 15 projects. **All of the projects have been completed.**

NAME OF RECIPIENT	Beaverhead County	
PROJECT TYPE	Bridge	
FUNDING	\$23,000	TSEP Grant
	<u>\$23,000</u>	Local Funds
TOTAL	\$46,000	

PROJECT SUMMARY: Two bridges that linked the east and west portions of Lima, Montana, were deteriorated to the point where they must be closed or replaced. The Lima Town Council elected to close the smaller bridge and to replace the larger, Bailey Street Bridge. *The project was completed and consisted of improving the approaches, and constructing a new three-sided concrete box bridge with guardrails.*

NAME OF RECIPIENT	Butte-Silver Bow County	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$5,360,200	SRF Loan
	<u>\$1,000,000</u>	Local Funds
TOTAL	\$6,860,200	

PROJECT SUMMARY: As a result of federal regulations that went into effect in 1992, Butte-Silver Bow was required to discontinue the use of the sludge injection disposal facilities. *The project was completed and consisted of constructing facilities, and purchasing equipment to treat and dispose of sludge. After treatment, sludge is now transported to, and disposed of at, a new solid waste landfill.*

NAME OF RECIPIENT	Conrad, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$180,000	TSEP Grant
	\$434,065	Local Funds
	<u>\$ 50,000</u>	RRGL Grant
TOTAL	\$664,065	

PROJECT SUMMARY: The city obtains its water supply from Lake Francis. Due to the potential for dam failure, the operation permit required that the water supply be obtained from a diversion facility instead of an outlet conduit with pressure pipes within the earth-filled Lake Francis East Dam. *The project was completed and consisted of demolishing the existing pump structure, relocating existing pumps, and removing the existing control gates, excavating the channel, installing gabions, water intake screens and piping, and constructing a new pump station.*

NAME OF RECIPIENT	East Glacier Park Water and Sewage District (Glacier County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant/Blackfeet Tribe
	\$ 500,000	TSEP Grant/Browning
	\$ 306,555	TSEP Grant/E. Glacier
	\$ 500,000	CDBG Grant/Browning
	\$ 800,000	Indian CDBG Grant
	\$ 720,000	EPA Grant
	\$ 1,500,000	Tribal Housing
	\$ 800,000	Indian Health Services
	\$ 100,000	RD Grant
	<u>\$ 6,279,234</u>	RD Loan
TOTAL	\$12,005,789	

PROJECT SUMMARY: The district provides drinking water to approximately 400 people in Glacier County from an unfiltered surface water source. The district is under a DEQ boil order and is required to install water treatment facilities by 1996. The project, as originally proposed, was to include the construction of a surface water treatment plant. The scope of the project has been modified, whereby the district and the Town of Browning would receive water from a new water treatment plant being constructed by the Blackfeet Tribe. The funding for this treatment plant and transmission mains include the funds provided to East Glacier. *The project was completed and the transmission mains and new storage tank are served by the Blackfoot Tribe treatment plant.*

NAME OF RECIPIENT	Fairview, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 72,180	Local Funds
	\$ 100,000	RRGL Grant
	\$ 470,000	RD Loan
	<u>\$ 700,000</u>	RD Grant

TOTAL \$1,842,180

PROJECT SUMMARY: The town's water source was very high in iron manganese and coal, which fouled the town's domestic water meters. Through an earlier project the water quality was improved. *The project was completed and consisted of installing new water meters, replacing cast iron water mains with PVC pipe, and constructing a 300,000-gallon storage tank.*

NAME OF RECIPIENT	Gardiner/Park County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 300,000	TSEP Grant
	\$ 175,000	Local Funds
	<u>\$ 610,000</u>	RD Loan
TOTAL	\$1,085,000	

PROJECT SUMMARY: There were several serious deficiencies with the district's water system. *The project was completed and consisted of constructing 1,200 feet of new water mains, miscellaneous work at the spring to eliminate contamination of the spring and to correct the chlorination system, installing a heated pipe suspended from the bridge, developing a new well, installing a new booster pump and expanding the booster station.*

NAME OF RECIPIENT	Hamilton, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$137,632	TSEP Grant
	\$180,000	Local Funds
	<u>\$350,000</u>	CDBG Grant
TOTAL	\$667,632	

PROJECT SUMMARY: The city had chronic infiltration and inflow conditions in the sewage system, unsafe and inefficient lift stations, unsafe and inefficient manholes, and the inability to handle growth occurring in the city and the surrounding area. *The project was completed and consisted of replacing an existing interceptor line, installing a new sewer main and lift station, and the replacing sewer manholes on Tenth Street.*

NAME OF RECIPIENT	Hill County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 250,000	Local Funds
	<u>\$ 400,000</u>	RRGL Loan
TOTAL	\$1,150,000	

PROJECT SUMMARY: The district provides water service to 717 households located within an area stretching from just west of Havre to Joplin. Under EPA rules, the district must treat all water drawn from its Fresno reservoir surface water supply. The DEQ had originally given the district until the Fall of 1995, to comply with this requirement. That deadline was moved back by DEQ since it appeared that the district would be able to obtain its water from the Rock Boy Reservation/North Central Montana Regional Water System. *Major elements of the project, as originally proposed, would have included property acquisition, construction of a water treatment facility, and construction of new water lines. The district did not move forward with the project and funding for the project was terminated by the 2003 Legislature.*

NAME OF RECIPIENT	Hysham, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$127,500	TSEP Grant
	\$ 27,500	Local Funds
	<u>\$250,000</u>	RRGL Grant
TOTAL	\$405,000	

PROJECT SUMMARY: The town was facing severe deterioration of its sewer system, with the potential for the lagoon, septic systems and sewer main to pollute surface and ground water. *The project was completed and consisted of replacing sewer manholes, and creating a management plan for manhole replacement.*

NAME OF RECIPIENT	Lewistown, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$5,875,000	Revenue Bonds
	<u>\$ 100,000</u>	RRGL Grant
TOTAL	\$6,475,000	

PROJECT SUMMARY: The city's two major transmission mains were installed in 1914 and 1938. Both mains were leaking badly, resulting in a loss of about 50% of the water entering the mains. *The project was completed and consisted of constructing a new transmission main, installing distribution mains in the upper pressure zone, constructing a new 1.5 million-gallon storage tank, and securing the water source site with a dome.*

NAME OF RECIPIENT	Powell County	
PROJECT TYPE	Bridge	
FUNDING	\$ 51,334	TSEP Grant
	\$ 48,616	Local Funds

	<u>\$ 30,000</u>	U.S. Forest Service
TOTAL	\$129,950	

PROJECT SUMMARY: The Snowshoe Creek Bridge crossing the Little Blackfoot River was a narrow, 24-year old, one-lane bridge that was inadequate and unsafe. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Seeley Lake Water District (Missoula County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 464,364	TSEP Grant
	\$1,440,000	SRF Loan
	<u>\$ 17,100</u>	Local Funds
TOTAL	\$1,921,464	

PROJECT SUMMARY: The district was required under federal regulations and by a DEQ administrative order, to install water treatment facilities by 1996. *The project was completed and consisted of constructing a new water treatment plant, modifying the water pump station, installing new water lines, and connecting the pump station to the water treatment plant.*

NAME OF RECIPIENT	Thompson Falls, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 400,644	TSEP Grant
	\$ 251,800	RD Loan
	<u>\$ 824,700</u>	RD Grant
TOTAL	\$1,477,144	

PROJECT SUMMARY: The city had serious deficiencies in its sewer system resulting primarily from deteriorating sewer lines and excessive infiltration that was over-working the lift station and the treatment facility. In addition, many of the households throughout the city used septic tanks with dry wells or leach fields that threatened contamination of the aquifer and the Clark Fork River. *The project was completed and consisted of installing new sewer lines, constructing a new pump station and improving the sewage lagoon.*

NAME OF RECIPIENT	Troy, City of	
PROJECT TYPE	Wastewater System improvements	
FUNDING	\$ 500,000	TSEP Grant
OTHER FUNDS	\$1,436,600	RD Grant
	\$1,824,400	RD Loan
	\$ 528	Local Funds
	<u>\$ 400,000</u>	CDBG Grant
TOTAL	\$4,161,528	

PROJECT SUMMARY: Sewage treatment for the city consisted of substandard on-site septic systems that posed a public health threat due to surfacing effluent and groundwater contamination. *The project was completed and consisted of constructing a new centralized wastewater system.*

NAME OF RECIPIENT	Whitehall, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 325,000	CDBG Grant
	<u>\$ 509,000</u>	RD Loan
TOTAL	\$1,334,000	

PROJECT SUMMARY: The town's water system had various deficiencies. *The project was completed and consisted of constructing a 500,000-gallon reservoir to replace two 100,000-gallon reservoirs, installing new distribution mains, piping and valves, improving one of the system's wells, and installing water meters on residential and commercial services.*

Projects Approved through the 1997 Legislative process

Forty applications requesting \$17,079,532 in TSEP funds were submitted for the 1999 biennium (\$15,524,536 in grant funds and \$1,554,996 in loan funds). The 1997 Legislative process approved \$13,719,979 in TSEP grant funds for 35 projects and \$1,855,472 in TSEP loan funds for four projects. However, based on the actual amount of TSEP funds that became available during the 1999 biennium, only 22 projects actually received TSEP grant funds totaling \$9,052,735. None of the TSEP loans were utilized. **All rojects have been completed.**

NAME OF RECIPIENT	Cascade, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$1,323,725	SRF Loan
	<u>\$ 6,500</u>	Local Funds
TOTAL	\$2,330,225	

PROJECT SUMMARY: The city's wastewater treatment system consisted of two lagoons that leaked so badly that they did not hold water, contaminating both groundwater and the Missouri River. In addition, storm sewer drains overloaded the sewer collection system during storm events and an antiquated lift station needed replacement. *The project was completed and consisted of relocating and replacing the existing lagoons with facultative lagoons and spray irrigation for disposal, and constructing a new lift station, storm drain lines and inlets.*

NAME OF RECIPIENT	Chinook, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$313,555	TSEP Grant
	\$550,400	RD Loan
	\$ 71,000	RD Grant
	<u>\$ 17,479</u>	Local Funds
TOTAL	\$934,955	

PROJECT SUMMARY: There was inadequate disinfection contact time in the clear well and a boil order had been issued by DEQ. The chemical feed system was worn and needed replacement, and the raw water intake malfunctioned. *The project was completed and consisted of improving the intake structure, rehabilitating the existing disinfectant basins to provide additional disinfectant time, extending the intake pipe and screen into the river; and modifying the chemical feed system.*

NAME OF RECIPIENT	Coram Water and Sewer District (Flathead County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 206,000	RD Grant
	<u>\$ 484,300</u>	RD Loan
TOTAL	\$1,590,300	

PROJECT SUMMARY: The district's water supply (Blue Lake Spring) was subject to surface contamination and did not meet state and federal standards. Distribution mains and individual service lines experienced significant leakage of over 20 million gallons a year. The system provided inadequate volumes of water and flows for fire protection. *The project was completed and consisted of developing a new groundwater source, replacing water mains with six-inch and eight-inch PVC mains, constructing new gate valves, fire hydrants and appurtenances, and installing water service meters.*

NAME OF RECIPIENT	East Missoula Sewer District (Missoula County)	
PROJECT NAME	Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 400,000	CDBG Grants
	\$ 241,835	EPA Grant
	\$ 100,000	Missoula Water Quality District
	\$ 940,000	RD Grant
	\$2,053,200	RD Loan
	\$ 80,000	Missoula County
	\$ 101,950	City of Missoula
	<u>\$ 16,067</u>	Local Funds
TOTAL	\$4,533,052	

PROJECT SUMMARY: A high density of substandard individual cesspools and drainage pits were contaminating local drinking water wells resulting in health advisories and a permanent boil order issued by DEQ. The existing on-site wastewater systems also had the potential to adversely impact the Missoula Valley Aquifer and the Clark Fork River. *The project, as originally proposed, was to include construction of a wastewater treatment system with a gravity collection service, and land disposal using spray irrigation. The scope of the project was modified to allow the district to connect its new collection lines to the City of Missoula's wastewater system, rather than constructing its own treatment system. The project was completed.*

NAME OF RECIPIENT	Fort Benton, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$478,324	TSEP Grant
	\$447,322	RRGL Loan
	<u>\$ 31,042</u>	Local Funds
TOTAL	\$956,689	

PROJECT SUMMARY: The city's water system had deteriorated water distribution lines, broken valves, undersized distribution lines, and no water meters, all of which contributed to low water pressure and a fire flow problems. *The project was completed and consisted of replacing several undersized distribution lines, installing additional distribution lines, and installing 546 water service meters.*

NAME OF RECIPIENT	Fort Peck Rural Water/Sewer District (Valley County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$5,800,000	Federal Appropriation
	<u>\$1,519,880</u>	SRF Loan
TOTAL	\$7,819,800	

PROJECT SUMMARY: Residents of the district did not have a central public water system. They became ill from untreated drinking water; no ongoing monitoring or disinfection of drinking water in private water tanks, cisterns, or home storage facilities; water being contaminated because of storage in individual and unsanitary cisterns. *The project, as originally proposed, was to include the construction of a new water treatment plant, water reservoir, intake, booster station, water mains, water service lines, installation of 54 hydrants, and installation of water meters for each residential or commercial hook-up. The project was completed and the town's water treatment plant was upgraded in the process to increase the plant's capacity to treat water. The system provides water service to Park Grove, Wheeler, Duck Creek, and Cabin neighborhoods; and rural residences within the district's boundaries.*

NAME OF RECIPIENT	Glasgow, City of	
PROJECT TYPE	Wastewater/Storm Drain Separation	
FUNDING	\$ 500,000	TSEP Grant
	\$ 56,804	Local Funds
	\$ 400,000	CDBG Grant
	\$ 41,443	RRGL Grant
	<u>\$1,048,000</u>	SRF Loan
TOTAL	\$2,046,247	

PROJECT SUMMARY: The city's wastewater collection system had broken pipes and sinkholes in the ground above the breaks, and raw sewage was being pumped directly into the Milk River because the lift station could not handle the volume. There was also raw sewage overflowing from manholes and backing up into basements. The city had been told to correct the problem or an administrative order would be issued by DEQ. *The project was completed and consisted of constructing a separate storm drain system by installing approximately 16,700 feet of various sized storm drain pipes and 70 new manholes.*

NAME OF RECIPIENT	Glendive, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$ 864,000</u>	SRF Loan
TOTAL	\$1,364,000	

PROJECT SUMMARY: There was inadequate disinfection contact time at the water treatment plant. DEQ had issued a violation notice and mandated improvements to the clear well. *The project was completed and consisted of replacing the water supply intake structure, improving the existing clear well with baffling, and constructing a new clear well for additional storage.*

NAME OF RECIPIENT	Hamilton, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 478,000	Local Funds
	<u>\$ 400,000</u>	CDBG Grant
TOTAL	\$ 1,378,000	

PROJECT SUMMARY: There was inadequate capacity in the existing sludge drying and composting operation to accommodate the increased loading of new connections, and the secondary clarifiers, chlorine contact basin, grit removal chamber and lift pumps had a modest amount of capacity remaining, and did not meet fire code and safety requirements. *The project was completed and consisted of expanding the solids storage, drying and biosolids composting, and improving various components of the system including chlorination and dechlorination, secondary clarifier, sludge control, and ventilation.*

NAME OF RECIPIENT	Helena, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 1,437,958	City Reserves

	\$ 641,571	City Cash
	<u>\$ 9,320,000</u>	SRF Loan
TOTAL	\$11,899,529	

PROJECT SUMMARY: The city was not able to meet chronic toxicity requirements, which had been determined to be correlated to effluent ammonia concentration. The activated biofilter (AFB) tower did not provide adequate treatment as designed. Existing secondary treatment limitations and problems identified during plant inspections included instrumentation and hydraulic deficiencies, and sludge disposal. *The project was completed and consisted of replacing the AFB tower with a nitrification process to allow the city to adequately treat ammonia toxicity and other toxicants.*

NAME OF RECIPIENT	Hill County/Box Elder Water District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 462,000	TSEP Grant
	\$ 322,105	CDBG Grant
	\$ 300,000	EPA Grant
	<u>\$ 26,000</u>	Local Funds
TOTAL	\$1,110,105	

PROJECT SUMMARY: According to DEQ, raw sewage was entering the existing cell and seeping into the ground or ponding without adequate treatment. Wastewater seepage entered the ground water just three to four feet below the bottom of the lagoon pond. The area was not fenced to prevent public access. *The project was completed and consisted of constructing a wastewater treatment facility using facultative lagoons and wetlands treatment.*

NAME OF RECIPIENT	Judith Gap, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$130,000	TSEP Grant
	\$522,000	RD Grant
	<u>\$239,300</u>	RD Loan
TOTAL	\$891,300	

PROJECT SUMMARY: The town discharged raw sewage from two community septic tanks into Stevens Gulch, which is considered state water. The wastewater was receiving little or no treatment before it was discharged, and DEQ cited the town for an illegal sewer discharge and issued a compliance schedule. *The project was completed and consisted of constructing a lined, total retention lagoon.*

NAME OF RECIPIENT	Lakeside County Water and Sewer District (Flathead County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 200,000	RRGL Loan
	\$ 400,000	SRF Loan
	<u>\$ 162,786</u>	Local Funds
TOTAL	\$1,262,786	

PROJECT SUMMARY: The district's water system had deficiencies that resulted in low water pressure causing a fire flow problem. These deficiencies included undersized distribution lines, dead-end distribution lines, limited well production, and no water meters. *The project was completed and consisted of replacing approximately 6,000 feet of existing distribution lines with eight inch lines, constructing a new high volume well, installing a meter on the original well, and installing approximately 173 service meters for all users.*

NAME OF RECIPIENT	Lewis and Clark County	
PROJECT TYPE	Bridge	
FUNDING	\$ 64,125	TSEP Grant
	<u>\$192,375</u>	Local Funds
TOTAL	\$256,500	

PROJECT SUMMARY: A timber bridge on Sierra Road where it crosses Prickly Pear Creek had a variety of deficiencies. *The project was completed and consisted of replacing the timber bridge with a concrete bulb tee bridge.*

NAME OF RECIPIENT	Miles City, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$136,000	TSEP Grant
	<u>\$225,987</u>	INTERCAP Loan
TOTAL	\$394,987	

PROJECT SUMMARY: The City's water distribution system had a 14-inch water transmission main that was broken under the Tongue River. *The project was completed and consisted of replacing the broken section with a 20-inch water main crossing under the river, along with a section of water line that ran under the BNSF railroad crossing.*

NAME OF RECIPIENT	Missoula, City of	
PROJECT TYPE	Wastewater System Improvements for the Reserve Street Neighborhood	
FUNDING	\$ 500,000	TSEP Grant

	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$2,647,000	Missoula SID
	<u>\$ 200,000</u>	Local Funds
TOTAL	\$3,847,000	

PROJECT SUMMARY: The Reserve Street Neighborhood had a high number of substandard, antiquated cesspools and seepage pits that provided little or no treatment to protect groundwater quality. The Missoula Aquifer is extremely vulnerable to contamination by the high density and use of septic systems in the area, and is designated as a sole-source aquifer for the Missoula Valley. *The project was completed and consisted of installing approximately 40,640 feet of conventional collection mains, laterals and service lines, 204 service stubs, and 133 manholes, and replacing 11,313 feet of asphalt.*

NAME OF RECIPIENT	Neihart, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$261,028	TSEP Grant
	\$100,000	RRGL Grant
	<u>\$ 6,338</u>	Local Funds
TOTAL	\$367,366	

PROJECT SUMMARY: The town's leaking water distribution system was subject to contamination from groundwater when negative water pressures occur or when the system shut down for repairs. Distribution system repairs were required by a court order. The town's water mains were installed at shallow depth and were subject to freezing. *The project was completed and consisted of replacing approximately 6,150 feet of water main.*

NAME OF RECIPIENT	Richey, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$264,340	TSEP Grant
	\$ 10,000	Local Funds
	<u>\$262,760</u>	CDBG Grant
TOTAL	\$537,100	

PROJECT SUMMARY: The town had very high levels of fluoride in the drinking water that can cause dental fluorosis (mottling of the permanent teeth) and skeletal fluorosis (a serious bone disorder). The drinking water also had a high sodium content. *The project was completed and consisted of constructing a reverse osmosis water treatment plant, rehabilitating the existing water storage tank, and performing a pilot study to fine tune treatment plant design requirements.*

NAME OF RECIPIENT	Roundup, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	<u>\$1,089,000</u>	RD Loan
TOTAL	\$1,989,000	

PROJECT SUMMARY: The city's lagoons were no longer large enough to dispose of the effluent by evaporation. Ponding of wastewater occurred at the surface outside of the lagoon dikes. A dike failure would have caused lagoon contents to enter the adjacent Musselshell River, which would have affected adjacent landowners, and communities downstream. The high sodium content in the wastewater could have harmed the farmland and made it useless for disposal. *The project was completed and consisted of constructing a new aerated wastewater treatment facility, replacing the current deteriorated line, and installing a new line that meets state slope requirements for proper operation.*

NAME OF RECIPIENT	Terry, Town of	
PROJECT TYPE	Wastewater/Storm Drain Separation	
FUNDING	\$ 500,000	TSEP Grant
	\$ 572,700	RD Grant
	\$ 476,900	RD Loan
	<u>\$ 30,240</u>	Local Funds
TOTAL	\$1,579,840	

PROJECT SUMMARY: The town's wastewater system had deficiencies that resulted in backups of sewage in basements, overflow of sewage from manholes, and potentially contaminated shallow wells. The deficiencies included: vitrified clay pipe that was cracked, broken and collapsed; wide or offset joints obstructing flow and causing plugging; a combined sanitary and storm sewer that caused the system to overload during storm events. *The project was completed and consisted of replacing approximately 16,350 feet of sanitary sewer, constructing approximately 3,250 feet of storm drain, and installing approximately 66 manholes.*

NAME OF RECIPIENT	Twin Bridges, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 300,000	SRF Loan
	<u>\$ 68,500</u>	Local Funds

TOTAL \$1,368,500

PROJECT SUMMARY: The town's 50,000-gallon water storage tank and water line pressures were not sufficient to provide adequate capacity to suppress a major fire event. The distribution lines were not looped, so there was the potential for contamination due to stagnant water in dead end lines. The distribution lines were too undersized to carry the required fire flow. Water flows and pressures did not meet minimum standards for daily usage and fire protection. *The project was completed and consisted of constructing a 300,000-gallon reservoir and a 12-inch transmission main to connect the new reservoir to the existing distribution system, replacing portions of the existing distribution system, and improving various parts of the system including the addition of pressure release valves, pump control valves on the water supply wells, flow meters, and miscellaneous piping.*

NAME OF RECIPIENT	Valier, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	<u>\$ 200,000</u>	SRF Loan
TOTAL	\$1,200,000	

PROJECT SUMMARY: The town's wastewater treatment facility had serious deficiencies including: accumulation of sludge in the treatment lagoon, porous soils in the bed of the treatment lagoon that allowed wastewater to percolate too rapidly, failing lagoon embankments, a single cell treatment lagoon system that did not allow continued wastewater treatment when the lagoon was dewatered for maintenance, and storm water infiltration that increased the volume of wastewater requiring treatment. *The project was completed and consisted of removing sludge from the lagoon, constructing three cells within the existing single cell, adding aeration to the lagoons, and lining the three new aerated cells with an impermeable liner.*

Projects Approved through the 1999 Legislative process

Forty-one applications requesting \$15,852,526 million in TSEP funds were submitted for the 2001 biennium. The 1999 Legislative process approved \$12,595,643 million in TSEP grant funds for 32 projects. Ten projects were conditionally awarded if funds became available. Four of these projects were not completed due to short falls in funding. One of these awards was eventually terminated in the 2003 Legislative process. **All projects have been completed for which funding was available.**

NAME OF RECIPIENT	Arlee Water and Sewer District (Lake County)	
PROJECT TYPE	Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 12,745	DEQ Grant
	\$ 320,000	Salish and Kootenai Tribal Grant
	\$ 11,388	Local Funds
	\$ 742,100	RD Loan
	<u>\$1,517,800</u>	RD Grant
TOTAL	\$3,603,983	

PROJECT SUMMARY: Lack of a sewage disposal and/or a public water supply system for the district's lots that are located in close proximity to each other had created the following deficiencies: increasing nitrate contamination in district wells, moratorium on new sewer installation near and in the community by the county, potential for contamination of area wells during time of drought when there was a high demand on the aquifer, and 64 Safe Drinking Water violations in eight public service establishments. *The project was completed and consisted of constructing a wastewater collection and treatment system.*

NAME OF RECIPIENT	Augusta Water and Sewer District (Lewis and Clark County)	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 506,000	SRF Loan
	<u>\$ 37,484</u>	Local Funds
TOTAL	\$1,543,484	

PROJECT SUMMARY: The district's wastewater system was operating under a DEQ recommended moratorium on new hookups since it had several deficiencies including: inadequate in size, lagoon leaks excessively, no discharge permit even though there is a discharge line, had accumulated 1.5 feet of sludge, no room for expansion, substandard sewer line extensions, and sewer mains with less than desirable slopes. *The project was completed and consisted of replacing the existing single cell lagoon with a new total retention treatment facility, and replacing substandard sewer main extensions and connections.*

NAME OF RECIPIENT	Big Timber, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 92,400	Local Funds
	\$ 389,000	SRF Loan
	\$ 503,206	Mine Impact
	<u>\$ 435,406</u>	STAG Grant
TOTAL	\$2,320,012	

PROJECT SUMMARY: The city's wastewater system had several deficiencies including: the sewage lagoon was severely leaking (70% leakage), high nitrates in an observation well, the lagoon's aeration systems were inadequate and could not properly treat the wastewater, deteriorated sewage collection pipes, and three BOD and TSS violations of the discharge permit prior to 1995, and 10 additional violations since 1995. *The project was completed and consisted of constructing a new three cell aerated lagoon, with new hydraulic structures, and a new synthetic lagoon liner. The project also included constructing lift stations to state standards and setting priorities for replacement of sewer lines.*

NAME OF RECIPIENT	Boulder, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$1,294,000	SRF Loan
	<u>\$ 10,000</u>	Local Funds
TOTAL	\$2,304,000	

PROJECT SUMMARY: The city's water system had the following deficiencies: drinking water exceeded the standards of the EPA Lead and Copper Rule, deteriorated steel distribution mains lost 40% of the pumped water due to leakage resulting in summer water shortages, undersized distribution mains resulted in inadequate fire flows, the system could not accurately measure total water usage, and dead end distribution mains. *The project was completed and consisted of replacing approximately 30,000 feet of distribution main and gate valves, hydrants, fittings, and service lines, and installing water meters at each well so the town can accurately measure*

the system's total usage. The project, as originally proposed, was also supposed to include the installation of corrosion control treatment equipment at each well, but the town refused to complete that portion of the project.

NAME OF RECIPIENT	Chester, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 220,150	TSEP Grant
	\$ 34,500	Local Funds
	<u>\$ 348,000</u>	EDA Grant
TOTAL	\$ 602,650	

PROJECT SUMMARY: The town's water system had several deficiencies including: no control system for the water treatment plan, inadequate water pressure (less than 20 psi) and inadequate fire protection, dead end and undersized mains, health hazards from possible reverse flows, portions of the distribution system were prone to freeze-ups, and water service connections made of lead. *The project was completed and consisted of replacing inadequate water mains and service connections, constructing water hydrants, and installing a control system at the water treatment plant.*

NAME OF RECIPIENT	Columbia Falls, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 430,500	Local Funds
	<u>\$2,650,000</u>	SRF Loan
TOTAL	\$3,680,500	

PROJECT SUMMARY: The city's wastewater treatment plant had several deficiencies including: sludge storage basin leaking significantly (333 gpd) and, if repaired, the basin would not have had sufficient capacity; sludge storage basin that was difficult to empty; treatment process degraded by foaming caused by microthrix bacteria; aeration basin chlorination system could not be used in cold weather; digester could not be aerated due to foaming, which prevented the sludge from being properly stabilized; feed system for phosphorous removal was not flow paced, occasionally failed, and did not have a backup; return activated sludge pumps were oversized, which limited efficient sludge management; and city was running out of access to land in order to continue sub-surface sludge injection. *The project was completed and consisted of adding sludge dewatering facilities, a new sludge storage pad, a new digester, improving the chlorine facility, adding flow capacity for the alum feed pumps, replacing the controls for lift station four, and replacing lift station five.*

NAME OF RECIPIENT	Corvallis Sewer District (Ravalli County)	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 410,760	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 351,000	SRF Loan
	\$ 400,000	CDBG Grant
	\$ 70,000	Local Funds
	<u>\$ 10,000</u>	EPA Grant
TOTAL	\$1,341,760	

PROJECT SUMMARY: The district's wastewater treatment facility had several deficiencies including: facility was experiencing hydraulic and organic loading significantly beyond its design potential, accumulated solids in both treatment cells, problems with aeration equipment, facility was causing nitrate contamination in the groundwater, and DEQ had warned Corvallis that continued exceedences in nitrate contamination could result in state enforcement. *The project was completed and consisted of replacing the existing aeration system with static tube diffusers, increasing the power of two blowers, removing accumulated sludge, constructing an additional lagoon cell for treatment and storage, constructing a wetlands for nitrogen removal, and expanding the I/P beds.*

NAME OF RECIPIENT	Cut Bank, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$2,304,000	RD Grant/Loan
	<u>\$ 22,500</u>	Local Funds
TOTAL	\$2,926,500	

PROJECT SUMMARY: The city's water system deficiencies included: at least one intake pipe was plugged and one was broken leaving only one pipe to collect water for the city; no raw water storage to provide uninterrupted clean water when agricultural waste upstream from Cut Bank was washed into the creek, contaminating the city's source of water; one part of the distribution system had undersized water lines resulting in very low water pressure and nearly non-existent fire flows during irrigation season; a one million gallon reinforced concrete water storage tank was deteriorating and was in danger of the roof collapsing; a one million gallon steel standpipe had features that caused extremely low water pressure in the "booster district;" and a severely deteriorated distribution system. *The project was completed and consisted of constructing a 63 million-gallon raw water reservoir, rehabilitating the intake structure, replacing the existing treatment plant clarifier, providing standby power, updating plant controls, constructing upper loop distribution main, constructing a new concrete tank and rehabilitating the existing one, rehabilitating the booster station and repairing the standpipe.*

NAME OF RECIPIENT	Denton, Town of
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PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 343,058	TSEP Grant (\$71,942 was authorized but was not spent and returned to the TSEP fund)
	\$ 100,000	RRGL Grant
	\$ 194,130	SRF Loan
	\$ 12,000	EPA Grant
	\$ 7,500	CDBG Grant
	<u>\$ 31,097</u>	Local funds
TOTAL	\$ 687,785	

PROJECT SUMMARY: The town's wastewater treatment system had the following deficiencies: inadequate treatment lagoon volume, the lagoon had severe erosion along interior dikes, the lagoon performance was limited by the single cell facility, a significant volume of sludge had accumulated in the treatment lagoon, and BOD and fecal coliform discharge violations. *The project was completed and consisted of constructing a three-cell facultative lagoon system.*

NAME OF RECIPIENT	Drummond, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 292,850	TSEP Grant
	\$ 162,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 10,175	EPA Grant
	\$ 2,448	Local Funds
	<u>\$ 38,118</u>	SRF Loan
TOTAL	\$ 605,591	

PROJECT SUMMARY: The town's wastewater system had several deficiencies including: the 1.5-mile outfall line picked up to 0.3 mgd of infiltration and inflow at times during the year, the existing inlet line was leaking causing short-circuiting, and only half of the lagoon cell was effectively used. *The project was completed and consisted of replacing the 1.5-mile outfall line to the existing lift station and constructing a new inlet manhole at the northeast corner of the lagoon.*

NAME OF RECIPIENT	Ekalaka, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 87,200	TSEP Grant
	\$ 65,400	RD Grant
	\$ 21,800	RD Loan
	<u>\$ 4,000</u>	Local Funds
TOTAL	\$ 178,400	

PROJECT SUMMARY: The town's wastewater collection system had two main deficiencies including: a shallow sewer main over a culvert pipe that froze resulting in raw sewage backing up into residential basements and a section of sewer main that was very flat and had displaced joints that resulted in plugging and raw sewage backing up into residential basements. *Major elements of the project were to include replacing 1,872 feet of sewer main. However, the town requested that the original scope of the project be changed, submitted a new grant application. The 2003 Legislature terminated this grant award and awarded a new grant for a new scope of work.*

NAME OF RECIPIENT	Geraldine, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 300,000	TSEP Grant
	\$ 315,346	CDBG Grant
	\$ 50,000	RRGL Grant
	\$ 113,000	SRF Loan
	<u>\$ 5,717</u>	Local Funds
TOTAL	\$ 784,063	

PROJECT SUMMARY: The town's wastewater treatment system had the following deficiencies: inadequate lagoon volume, lagoon had severe erosion along interior dikes, discharge structure was deteriorated beyond simple repair, no primary flow measuring device, lagoon operation and performance limited by having only a single cell facility, a significant volume of sludge had accumulated in the treatment cells that was adversely affecting the treatment process, and fencing was needed to prevent access to the site by the public. *The project was completed and consisted of constructing an additional treatment cell and installing a wind-driven mixer, new piping and discharge structures, rehabilitating an existing cell including removal of sludge, restoring dike slopes and installing a synthetic liner. A video inspection program involving cleaning, video taping and a summary report was also completed to assist in the implementation of Phase II of the town's CIP to address long-term wastewater collection needs.*

NAME OF RECIPIENT	Glasgow, City of	
PROJECT TYPE	Wastewater System Improvements (Sewer/Storm Drainage Separation)	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 995,000	SRF Loan
	<u>\$ 16,500</u>	Local funds

TOTAL \$2,011,500

PROJECT SUMMARY: The city's sanitary sewage collection system also served as a storm drainage collection system for 270 acres of the city. During storm events, raw sewage backed up into basements of local residences and businesses and overflowed into the Milk River. *The project was completed and consisted of constructing approximately 11,000 feet of new storm drains and new retention basins serving the north side of Glasgow.*

NAME OF RECIPIENT	Harrison Water and Sewer District (Madison County)	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 341,200	DEQ Hardship Grant
	\$ 453,800	RD Grant
	<u>\$ 322,500</u>	RD Loan
TOTAL	\$1,717,500	

PROJECT SUMMARY: The community of Harrison is situated near Willow Creek, with a groundwater table that rises to within one to four feet of the surface. This situation caused some on-site treatment systems to fail. The Madison County sanitarian placed a moratorium on any new on-site systems. In addition, the local elementary school had been placed under a State order to improve, or replace, its wastewater treatment system (multiple septic tanks and drain fields) or connect to a municipal system. *The project was completed and consisted of constructing a conventional gravity collection system treated with facultative storage lagoons and spray irrigation.*

NAME OF RECIPIENT	Havre, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 303,747	TSEP Grant
	\$ 689,031	EDA Grant
	<u>\$ 275,041</u>	Local Funds
TOTAL	\$1,267,819	

PROJECT SUMMARY: The city's water system had one major deficiency: considerable leakage in the lead joints of the single 16-inch transmission main. *The project was completed and consisted of replacing the 16-inch water main from 6th Avenue West to Montana Avenue.*

NAME OF RECIPIENT	Helena, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,250,000	SRF Loan
	<u>\$3,074,438</u>	Local Funds
TOTAL	\$4,824,438	

PROJECT SUMMARY: The city's water system had several deficiencies including: water distribution improvements were needed on the east side of the city, inadequate water storage prevented new development and limited water use on the east side of the city, and fire flow improvements were needed. *The project was completed and consisted of constructing a new pumping and distribution network, a new reservoir on the east side of the city, and a new clear well and pumping station to address inadequate fire flows and water pressures on the east side of the city.*

NAME OF RECIPIENT	Highwood Water and Sewer District (Chouteau County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 400,000	TSEP Grant
	\$ 360,000	CDBG Grant
	\$ 34,500	SRF Loan
	<u>\$ 9,000</u>	Local Funds
TOTAL	\$ 803,560	

PROJECT SUMMARY: The district's water system had numerous deficiencies including: lead concentrations that exceeded the EPA's Lead and Copper Rule, negative system pressures, inadequate chlorine contact time, source development and treatment did not meet state standards, no fire protection, inadequate valving and looping, aged and deteriorating mains and services, and no water meters on the supply and individual services. *The project was completed and consisted of replacing much of the distribution system, looping most of the dead-ends, replacing lead service lines, adding fire hydrants, constructing an adequate water tank, and upgrading existing well controls.*

NAME OF RECIPIENT	La Casa Grande Water and Sewer District (Lewis and Clark County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 650,000</u>	SRF Loan
TOTAL	\$1,250,000	

PROJECT SUMMARY: The existing water system was owned and operated by a private company. The district had not been able to negotiate an agreement with the owner of the existing system either to improve the system or to transfer ownership of the system to the district. The private water system had the following deficiencies: fire protection was minimal. The local volunteer fire department did not recognize the current water system as a

useable source for fire suppression due to low water pressure, the four wells being utilized did not provide an inadequate water supply to satisfy water use demands, and lack of water prevented lawns from being irrigated to mitigate the lead contamination from the ASARCO lead smelter, thus creating a potential adverse health impact to children. *The project was completed and consisted of constructing a new water storage tank, fire hydrants, water mains, and water services.*

NAME OF RECIPIENT	Lewis and Clark County	
PROJECT TYPE	Bridges	
FUNDING	\$ 500,000	TSEP Grant
	\$ 665,985	Local Funds
TOTAL	\$1,165,985	

PROJECT SUMMARY: The county's six bridges (Green Meadow Drive Bridge over Silver Creek, Birdseye Road Bridge over Seven Mile Creek, Country Club Avenue Bridge over Ten Mile Creek, Green Meadow Drive Canal Bridget, Valley Drive Canal Bridge, and McHugh Drive Canal Bridge) had a variety of deficiencies. *The project was completed and consisted of replacing all six bridges.*

NAME OF RECIPIENT	Missoula, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 434,279	City Bond
	\$2,670,952	SRF Loan (City SID)
	\$ 150,000	Missoula Water Quality District Grant
TOTAL	\$4,255,231	

PROJECT SUMMARY: The Missoula Valley Aquifer is the city's only source of drinking water and the East Reserve Street area represented a significant threat to water quality and public health. *The project was completed and consisted of eliminating individual septic tanks and connecting properties to the city's central wastewater system.*

NAME OF RECIPIENT	Philipsburg, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 121,900	TSEP Grant
	\$ 407,496	CDBG Grants
	\$ 344,123	Local Funds
	\$ 241,000	SRF Loan
TOTAL	\$1,114,519	

PROJECT SUMMARY: Philipsburg's only water source, Fred Burr Lake, has highly corrosive water, which resulted in high levels of both lead and copper in the water distribution system and were in violation of the EPA Lead and Copper Rule. *The project was completed and consisted of developing a well to blend groundwater with the water from Fred Burr Lake in order to accomplish a reduction of lead and copper levels in the distribution system. The new groundwater well will also provide the town with a backup water source, in the event the Fred Burr Lake water supply is interrupted or if the town's waiver for filtration of a surface water supply is lost.*

NAME OF RECIPIENT	Rae Water and Sewer District (Gallatin County)	
PROJECT TYPE	Wastewater Treatment System	
FUNDING	\$ 485,850	TSEP Grant
	\$ 517,340	Local Funds
	\$ 372,927	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 550,000	RD Grant
	\$ 400,000	RD Loan
TOTAL	\$2,426,177	

PROJECT SUMMARY: The district had nowhere to discharge its wastewater effluent and it had excessive leakage from its lagoons. *The project was completed and consisted of constructing a sequencing batch reactor treatment system with treated water discharged directly to groundwater.*

NAME OF RECIPIENT	Red Lodge, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 125,000	Local Funds
	\$4,633,600	RD Loan
TOTAL	\$5,258,600	

PROJECT SUMMARY: The city's wastewater system had several deficiencies including: DEQ had prohibited expansion beyond the existing approved hookups without improvements to the treatment facility if it meant potential degradation of Rock Creek; lagoon ponds were at capacity and incapable of meeting new non-degradation regulations beyond current levels; lagoon cells were unlined resulting in a 30 to 50% loss of effluent to the subsurface; cells were undersized for current flows; lagoon discharged into an open drainage ditch that ran through private property; and infiltration and inflow affected efficient treatment of waste at the lagoons. *The*

project was completed and consisted of lining and adding aeration to the lagoons, installing an outfall line to Rock Creek, and installing new storm water collection laterals in the downtown area drainage east of the existing Haggin storm drain.

NAME OF RECIPIENT	Richland County	
PROJECT TYPE	Bridges	
FUNDING	\$ 181,155	TSEP Grant
	<u>\$ 191,655</u>	Local Funds
TOTAL	\$ 372,810	

PROJECT SUMMARY: Two of the county's bridges (Michelletto Bridge and Haffner Bridge) had a variety of deficiencies. *The project was completed and consisted of extracting and salvaging the existing substructures in order to preserve their historical significance, and constructing two new bridges.*

NAME OF RECIPIENT	South Hills Water and Sewer District (Yellowstone County)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$2,750,000</u>	City of Billings
TOTAL	\$3,250,000	

PROJECT SUMMARY: The South Hills water system had the following deficiencies: noncompliance with the Montana Public Water Supply Act, failure to use approved surface water treatment techniques, and inadequate water filtration. *Major elements of the project, as originally proposed, were to install a membrane filtration plant and disinfection facilities. However, the original scope of the project was modified. Instead of building its own water treatment plant, the district joined with the Cedar Park Water and Sewer District to construct a pipeline that transports water from the City of Billings water system. The revised project was strongly encouraged by DEQ and a better long-term solution. Both districts were annexed into the city 2002 and are connected to the city water system.*

NAME OF RECIPIENT	Sweetgrass Community Water and Sewer District (Toole County)	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 213,000	TSEP Grant
	\$ 260,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 80,000	SRF Loan
	<u>\$ 37,285</u>	Toole County/District
TOTAL	\$ 690,285	

PROJECT SUMMARY: The wastewater treatment system had the following deficiencies: system only had one treatment lagoon while state standards required a minimum of two, inlet design violated state standards, and the seepage rate was in violation of state standard of six inches a year. *The project was completed and consisted of expanding the lagoon system to two cells, adding a new inlet, and relining an existing lagoon cell to prevent leakage.*

NAME OF RECIPIENT	Thompson Falls, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 370,000	RD Grant
	\$1,301,300	RD Loan
	\$ 400,000	CDBG Grant
	<u>\$ 100,000</u>	RRGL Grant
TOTAL	\$2,671,300	

PROJECT SUMMARY: The city's water system had the following deficiencies: a DEQ directive to filter the surface water source, well number two had elevated levels of iron and manganese, inadequate water pressure and fire flows due to undersized water mains and lack of looping, and distribution system had excessive water loss. *The project was completed and consisted of installing an intake structure at the spring, either redeveloping well number two or constructing a new well, evaluating the distribution system for leakage, and replacing water mains to improve fire protection and reduce water loss.*

NAME OF RECIPIENT	Willow Creek Sewer District (Gallatin County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 283,000	RD Grant
	\$ 250,400	RD Loan
	<u>\$ 5,000</u>	Local Funds
TOTAL	\$1,038,000	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: the treatment system had outgrown the capacity of its treatment system and was frequently overloaded, raw or partially treated wastewater was discharged from the plant resulting in a built up of sludge in a drainage ditch that leads from the treatment plant to the Jefferson River. *The project was completed and consisted of constructing a lagoon treatment system.*

Projects Approved through the 2001 Legislative process

Thirty-eight applications requesting \$16.77 million in TSEP funds were submitted for the 2003 biennium. The 2001 Legislative process approved \$13.67 million in TSEP grant funds for 33 projects. Three projects were conditionally awarded, but funding did not become available to complete these projects. Three awarded projects, were terminated either at the request of the applicant, or by the '05 and '07 Legislative processes when the applicant chose not to move forward with the projects. **All of the projects for which funding was available have been completed.**

NAME OF RECIPIENT	Alder Water and Sewer District (Madison County)	
TYPE OF PROJECT	Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 25,000	Local Funds
	\$ 464,500	RD Grant
	<u>\$ 181,000</u>	RD Loan
TOTAL	\$1,770,500	

PROJECT SUMMARY: The district lacked a centralized wastewater system wastewater system and had the following problems: the groundwater table rises to within one to four feet of the ground surface and caused on-site treatment systems to fail, wells being contaminated, a moratorium on any proposed new on-site systems; those wishing to repair or replace existing failed systems had to receive a variance, and several local businesses had been placed under state orders to improve or replace their current wastewater treatment systems or connect to a municipal system that would accept their wastewater. *The project was completed and consisted of abandoning the existing on-site septic tank/drainfield systems and constructing a centralized wastewater system with a conventional gravity collection system, a treatment facility with two facultative storage lagoons, and spray irrigation for discharge in the summer months.*

NAME OF RECIPIENT	Ashland County Water and Sewer District (Rosebud County)	
TYPE OF PROJECT	Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 385,500	CDBG Grant
	\$ 185,000	Coal Board Grant
	\$ 115,000	EDA Grant
	\$ 116,750	SRF Loan
	<u>\$ 28,750</u>	Local Funds
TOTAL	\$1,431,000	

PROJECT SUMMARY: The district lacked a centralized wastewater system wastewater system and there were measurable impacts to water supplies occurring as a result of contamination from the septic systems. *The project was completed and consisted of constructing a centralized wastewater system utilizing a lagoon treatment system with wetlands for effluent polishing, and infiltration basins for final discharge.*

NAME OF RECIPIENT	Blackfeet Tribe and Town of Browning	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant/Blackfeet Tribe
	\$ 500,000	TSEP Grant/Browning
	\$ 306,555	TSEP Grant/E. Glacier Water District
	\$ 500,000	CDBG Grant/Browning
	\$ 800,000	Indian CDBG Grant
	\$ 720,000	EPA Grant
	\$ 1,500,000	Tribal Housing
	\$ 800,000	Indian Health Services
	\$ 100,000	RD Grant
	<u>\$ 6,279,234</u>	RD Loan
TOTAL	\$12,005,789	

PROJECT SUMMARY: The town's water system has the following deficiencies: limited ground water supply, and high iron and manganese content. The district (East Glacier) provides drinking water to approximately 400 people in Glacier County from an unfiltered surface water source, has been under a DEQ boil order, and is required to install water treatment facilities. The Blackfeet Tribe joined with these two communities to resolve their problems by providing water to them. *Major elements of the project include constructing a treatment plant on Lower Two Medicine Lake, storage, and transmission lines to East Glacier and Browning. The project was completed as outlined.*

NAME OF RECIPIENT	Charlo Sewer District (Lake County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 110,000	RRGL Grants
	\$ 198,758	RD Grant

	\$ 258,771	RD Loan
	<u>\$ 52,500</u>	Local Funds
TOTAL	\$1,520,029	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: the existing cell had inadequate volume, the single cell allowed very limited process control or flexibility, the cell banks were eroded, there were no primary measuring devices, the existing lift station could not pump the required volume at peak flows, an accumulation of 50 years of sludge had decreased the effective volume of the cell, discharges often violated the limits of the current permit, the current system could not meet the new ammonia level requirements, and effluent seeped through the cell banks. *The project was completed and consisted of constructing an aerated cell along with constructed wetlands, a new lift station, and replacing the collection main from Charlo to a new lift station.*

NAME OF RECIPIENT	Choteau, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$1,028,975</u>	SRF Loan
TOTAL	\$1,528,975	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: the collection system was generally located below the groundwater table, and the old pipe, with open joints in the old clay tile materials, allowed large quantities of clear water to infiltrate into the system, resulting in surcharging of the sewer, sewage backups, and hydraulic overloading of the treatment system. *The project was completed and consisted of replacing or rehabilitating 21,700 feet of collection lines, and rehabilitating 45 manholes.*

NAME OF RECIPIENT	Essex Water and Sewer District (Flathead County)	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 100,000	TSEP Grant
	\$ 120,000	BNSF Grant
	<u>\$ 30,000</u>	Local Funds
TOTAL	\$ 250,000	

PROJECT SUMMARY: The district's water system has the following deficiencies: inadequate screening at the intake allows forest debris and mud to enter the system during periods of high run-off, the chlorination facility is sub-standard in terms of ventilation and chlorine segregation, sustained power outages occur frequently, rendering pumping facilities associated with other area water systems inoperable, small diameter distribution mains are buried two feet or less in the ground and freeze frequently in areas where the snow cover is removed for vehicle access, large portion of the transmission main is laid on top of the ground or is covered by two feet or less of forest duff, the cast iron transmission main is deteriorating, and an elevated 40,000 gallon storage tank is aging. Major elements of the project originally included constructing a deep well in a known productive aquifer, constructing chlorination facilities, replacing the distribution system in public right of way with four-inch PVC pipe, connecting all existing services, and constructing a 30,000-gallon storage tank. However, the district did not move forward with the project and the department recommended to the 2005 Legislature that the TSEP grant for this project be terminated. However, because DEQ has major issues with the current water supply and the district agree to move forward with a smaller project, the Legislature reduced the TSEP amount to \$100,000 and reduced the scope to just constructing a new well. *The project was completed in the summer of 2010.*

NAME OF RECIPIENT	Eureka, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 369,000	TSEP Grant
	<u>\$ 469,000</u>	CDBG Grant
TOTAL	\$ 838,000	

PROJECT SUMMARY: The town's water system had the following deficiencies: the infiltration gallery was classified as Groundwater Under the Direct Influence of Surface Water, leaking distribution lines, undersized distribution lines, inadequate fire flow, and no meters. *The project was completed and consisted of improving the existing deep well, adding chlorine system, constructing a dedicated line from infiltration gallery chlorine feed point to water tank, adding baffles to water tank, adding corrosion control, replacing line from West Ave. to Pinkham Road with eight-inch PVC, and installing 475 meters.*

NAME OF RECIPIENT	Florence Water and Sewer District (Ravalli County)	
TYPE OF PROJECT	Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$2,000,000	STAG Grant
	\$1,490,500	RD Grant
	<u>\$1,864,500</u>	RD Loan
TOTAL	\$6,455,000	

PROJECT SUMMARY: The district lacks a centralized wastewater system and there are measurable impacts to water supplies occurring as a result of contamination from the septic systems currently being utilized. *The plan was to construct a centralized wastewater system for the community. The district decided not to move forward with the project and the 2005 Legislature terminated the TSEP grant for this project.*

NAME OF RECIPIENT	Froid, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 390,600	TSEP Grant
	\$ 434,400	CDBG Grants
	<u>\$ 66,000</u>	SRF Loan
TOTAL	\$ 891,000	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: sewer main plugs resulting in raw sewage backing up into buildings, increased operation and maintenance costs due to current sewer main flushing/cleaning requirements, infiltration/inflow problems, and rising electrical consumption due to lift stations frequently operating to handle the infiltration entering the collection system. *The project was completed and consisted of replacing approximately 9,000 feet of sewer mains and 31 manholes.*

NAME OF RECIPIENT	Gardiner-Park County Water and Sewer District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 398,500	TSEP Grant
	\$ 169,637	SRF Loan
	<u>\$ 230,206</u>	Local Funds
TOTAL	\$ 798,343	

PROJECT SUMMARY: The district's water system had the following deficiencies: inter-connection with a private water system, the connection box had dead rodents floating in it, water main on Scott Street had only a 3 to 4 feet of cover, chlorinated water from the Park Tank overflowed before the new spring overflow at the North Tank, and the four-inch main on Scott Street did not provide sufficient fire flow or allow hydrants to be placed on this main since the line was too small. *The project was completed and consisted of replacing water mains along Scott Street, adding new hydrants along Scott Street, abandoning the private system and connecting the hotel and bank to the district's system, and adjusting the spring overflow elevation by lowering it six-inch or making it adjustable.*

NAME OF RECIPIENT	Geraldine, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 167,460	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 67,572</u>	SRF Loan
TOTAL	\$ 335,032	

PROJECT SUMMARY: The town's water system had the following deficiencies: leakage and unaccounted water loss, no heat during inclement weather, and insufficient chlorination. *The project was completed and consisted of replacing and relocating the chlorination station and installing water meters.*

NAME OF RECIPIENT	Havre, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 271,500	SRF Loan
	<u>\$ 271,500</u>	SRF Loan (SID)
TOTAL	\$1,043,000	

PROJECT SUMMARY: The city's water system has the following deficiencies: the South End and Highland Park areas are serviced by one elevated storage tank, a major break in the storage tank main feed line will interrupt water service to 75% of the residents, the occasional use of the second water tank causes a change of flow through the water line, the reversal of flow can free oxides that have built up in the pipe, causing the water to temporarily turn black or brown (indication of excess particulate manganese) and occasionally red (indication of excess particulate iron), which is then carried into the homeowner's lines, and several dead-end lines in the area south of the high school in the Heritage Addition and the newly developed subdivisions in the county. *Major elements of the project were to include extending a 12-inch water line along the Southern edge of the city, changing the location of some of the existing valves, and looping dead-end lines. However, the contract was terminated at the request of the city, due to the city canceling the project.*

NAME OF RECIPIENT	Hinsdale Water and Sewer District (Valley County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 329,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 169,000	CDBG Grant
	\$ 55,000	SRF Loan
	<u>\$ 8,000</u>	Local Funds
TOTAL	\$ 661,000	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: treatment system was 25 years old and beyond its useful life, numerous fecal, BOD, and TSS permit violations, collection pipes were undersized, collection pipes were cracked and had root penetration, collection pipes leak, steel channels that formed the walkway around the aeration chamber were rusted through and unsafe, and the plant's grating and channel supports were corroded. *The project was completed and consisted of constructing a new treatment system adjacent to the existing system, rehabilitating the old system to provide a back-up, and replacing an unspecified amount of collection pipe.*

NAME OF RECIPIENT	Hot Springs, Town of
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TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 263,147	CDBG Grants
	\$ 800,000	RD Grant
	\$ 975,600	RD Loan
	<u>\$ 7,000</u>	Local Funds
TOTAL	\$2,645,747	

PROJECT SUMMARY: The town's water system had the following deficiencies: aging and an inadequate distribution of fire hydrants, 10,600 feet of undersized distribution mains, leaking distribution lines, old and leaking galvanized service lines, old and breaking cast iron pipe, dead-end mains, inadequate isolation valving, and negative water pressure in some parts of town when using fire hydrants. *The project was completed and consisted of replacing all the galvanized services, replacing 25,700 feet of cast iron mains with PVC pipe, installing 60 isolation valves, and replacing or adding 55 fire hydrants.*

NAME OF RECIPIENT	Kevin, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 385,000	TSEP Grant
	\$ 367,332	CDBG Grant
	\$ 8,980	RRGL Planning Grant
	\$ 6,848	MDEQ Grant
	<u>\$ 96,726</u>	SRF Loan
TOTAL	\$ 859,886	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: frequent BOD violations, the lift station and wet well had reached the end of their useful life, no backup power source, and ground water was infiltrating into the collection system. *The project was completed and consisted of constructing a new accelerated facultative lagoon facility, removing sludge from the existing lagoons utilizing liquid dredging and land application, disassembling the existing lagoon cells, replacing lift station pumps and motors, rehabilitating the existing wet well, and installing a backup power supply for the lift station.*

NAME OF RECIPIENT	Lambert County Water and Sewer District (Richland County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 242,450	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 36,000	SRF Loan
	<u>\$ 25,000</u>	Local Funds
TOTAL	\$ 770,000	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: high levels of fluoride, water source failed to meet DEQ requirements regarding source capacity and number of sources, and breakages in water service connections allowed coliform bacteria to infiltrate the water system. *The project was completed and consisted of constructing a new reverse osmosis water treatment facility, drilling a new well, installing water meters, and replacing water service connections.*

NAME OF RECIPIENT	Lavina, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 483,000	TSEP Grant
	\$ 390,000	CDBG Grant
	<u>\$ 121,000</u>	SRF Loan
TOTAL	\$ 994,000	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: substandard and unreliable lift station that caused sewage to back up into residents' crawl spaces and basements, unlined leaking lagoon that resulted in the local groundwater and the Musselshell River being polluted, the detention capacity of the single cell facultative lagoon was only 94 days for domestic flows and less than 20 days for infiltration-laden flows and did not meet the DEQ standard of a three-cell lagoon, decaying clay tile pipe that allowed severe infiltration, treatment facility discharges to the side channel of the Musselshell River, and lift station configuration caused surcharging of several blocks of sewer main each time the pump cycled. *The project was completed and consisted of replacing all gravity collection mains, manholes, and service connections within the zone of groundwater inundation, constructing a new duplex submersible lift station with a back-up gas-fired pump, constructing a lined three-cell facultative lagoon, and installing a discharge pipe to the main channel of the river.*

NAME OF RECIPIENT	Lewis and Clark County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$ 538,000</u>	Local Funds
TOTAL	\$1,038,000	

PROJECT SUMMARY: The County had four bridges (Elk Creek Road Bridge, Smith Creek Road Bridge, Lyons Creek Road Bridge, Sierra Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all four bridges.*

NAME OF RECIPIENT	Lockwood Water and Sewer District (Yellowstone County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$3,801,000	EPA Grant
	\$ 100,000	RRGL Grant
	\$4,236,453	RD Loan
	<u>\$ 51,000</u>	Local Funds
TOTAL	\$8,688,453	

PROJECT SUMMARY: The district lacks a centralized wastewater system and the following problems: there is a high percentage of drain field failures and limited or no space for replacement fields, with a high potential for groundwater contamination. *Major elements of the project include constructing a sanitary sewer collection system for the district. Wastewater would be pumped across the Yellowstone River for treatment and disposal at the City of Billings Wastewater Treatment Plant. The first phase would include construction of the trunk main from the wastewater treatment plant, boring under the Yellowstone River, and extending approximately two miles to Johnson Lane. This would also involve constructing two pumping stations. Due to the district not being able to pass a bond election and the proposed project not moving forward, the TSEP grant was terminated by the 2007 Legislature.*

NAME OF RECIPIENT	Manhattan, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Loan
	\$ 779,949	SRF Loan (Phase 1)
	\$ 843,369	SRF Loan (Phase 2)
	<u>\$ 2,750</u>	Local Funds
TOTAL	\$2,726,068	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: high groundwater, deteriorated collection lines, gaps in joints of vitrified clay pipes, severe root intrusions in the older collection lines, deteriorated manholes, abandoned flush tanks in collection lines that prevent pipe maintenance, high maintenance requirements associated with repeated line back ups and basement flooding, BOD and fecal coliform violations, excessive seasonal leakage out of treatment cells, inadequate sewage treatment due to hydraulic overloading, inadequate sewage treatment resulting from overloading of the design BOD and TSS, and elevated nitrates in the shallow aquifer in the vicinity of the lagoon. *The project was completed and consisted of constructing a new wastewater treatment plant.*

NAME OF RECIPIENT	Nashua, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 455,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 238,650	SRF Loan
	<u>\$ 45,000</u>	Local Funds
TOTAL	\$1,338,650	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: leaking lagoons that caused accelerated erosion of the bank, insufficient lagoon capacity, lift station overflowed into the storm sewer, lack of back-up power caused raw sewage to flow to the Milk River during some power outages or when the system become temporarily overloaded, and lagoon bank erosion caused by a combination of seepage from the lagoon through the bank and natural meandering of the Milk River. *The project was completed and consisted of reconstructing the treatment system to include a lined, three-celled flow through a discharging facultative lagoon, installing new lift-station pumps, and installing a generator at the lift station for back-up power.*

NAME OF RECIPIENT	Park City/County Water and Sewer District (Stillwater County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 506,000	CDBG Grants (includes a Planning Grant)
	\$ 100,000	RRGL Grant
	\$ 20,000	EPA Grant
	\$ 421,340	SRF Loan
	<u>\$ 144,850</u>	Local Funds
TOTAL	\$1,692,190	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: the lagoon was too small, detention time was insufficient, and system hydraulics were inhibiting treatment capabilities and contributing to water quality permit violations, the lagoon leaked, exceeding ammonia and fecal coliform limits, and the main lift station pump was not isolated from the wetwell, nor did it have an auxiliary power source. *The project was completed and consisted of constructing a new three-cell aerated lagoon, constructing a new lift station at the treatment site, and constructing a 1.2-mile conveyance line directly to the Yellowstone River.*

NAME OF RECIPIENT	Power/Teton County Water and Sewer District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 425,000	TSEP Grant

	\$ 400,000	SRF Loan
	<u>\$ 100,000</u>	Local Funds
TOTAL	\$ 925,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: treatment plant was outdated and sub-standard, and no back-up treatment system. *The project was completed and consisted of performing a pilot testing of conventional treatment versus membrane technology to determine the best treatment alternative, and constructing a new treatment plant.*

NAME OF RECIPIENT	Richland County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 296,500	TSEP Grant
	<u>\$ 296,500</u>	Local Funds
TOTAL	\$ 593,000	

PROJECT SUMMARY: The County had three bridges (West John Berger Bridge, Savage Spillway Bridge, South Cemetery Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Shelby, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 676,500	SRF Loan
	<u>\$ 61,500</u>	Local Funds
TOTAL	\$1,238,000	

PROJECT SUMMARY: The city's water system had the following deficiencies: deteriorating and leaking cast iron and asbestos cement water lines, small lines and line crossings (four-inch) that resulted in inadequate water volume and pressure that prevented adequate fire flows throughout the city, and fire hydrants that were old and had become faulty or inoperable. *The project was completed and consisted of replacing all four-inch and six-inch cast iron and asbestos cement lines with six-inch, eight-inch and 12-inch PVC pipe (a total of 12,225 feet), replacing 45 four-inch street water line crossings, replacing 40 faulty fire hydrants, and relocating three other fire hydrants.*

NAME OF RECIPIENT	Stanford, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 990,000	RD Loan
	<u>\$ 16,500</u>	Local Funds
TOTAL	\$1,606,500	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: single cell lagoon design configuration did not meet state design standards and detention time was only 79 days, lagoon was nearly full of sludge, BOD and TSS violations, outlet control provided inadequate control of flow rate and pond level, 70-year old clay sewer pipe was structurally inadequate, had holes and cracks, and was at risk of imminent failure. *The project was completed and consisted of replacing 2,800 feet of outfall pipe to the lagoon, replacing 5,800 feet of eight-inch and 10-inch diameter sewer trunk lines, removing sludge from the lagoon, and upgrading the lagoon to a three-cell system.*

NAME OF RECIPIENT	Virginia City, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 500,000	EDA Grant
	\$ 724,000	SRF Loan
	<u>\$ 23,460</u>	Local Funds
TOTAL	\$1,847,460	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: total detention time was only 90 days, current lagoon location did not allow for expansion, treatment ponds rarely discharged to the infiltration cells demonstrating that it was leaking into the groundwater system, BOD loading exceeded state standards, which resulted in periodic odor problems, lagoon embankments were subject to erosion at the toes of the embankments, and embankments exceeded the 3:1 slope requirement. *The project was completed and consisted of abandoning the current wastewater treatment ponds (de-water, lower embankments, cover bottoms with soil and re-vegetate entire area), constructing a collection system for Nevada City, and constructing two wastewater lagoons for treatment and winter storage, and constructing a spray irrigation system.*

NAME OF RECIPIENT	Whitefish, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 110,000	RRGL Grants
	\$ 198,530	SRF Loan
	<u>\$ 226,683</u>	Local Funds
TOTAL	\$1,035,213	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: the aeration diffusers suffered from frequent fouling, the blowers and some aeration piping were in need of replacement and up-sizing, and heavy sludge accumulations in the lagoons reduced detention times and exerted an oxygen demand that took away available oxygen for wastewater treatment. *The project was completed and consisted of installing new blowers, replacing and up-sizing aeration lines, adding control valves, installing new, fine-bubble diffuser units in all three aeration cells, and removing, de-watering and disposing of accumulated sludge from the treatment basins.*

NAME OF RECIPIENT	Whitewater Water and Sewer District (Philips County)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 236,895	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 100,000	Local Funds
	<u>\$ 120,000</u>	SRF Loan
TOTAL	\$1,056,895	

PROJECT SUMMARY: The district lacked a centralized wastewater system and had the following problems: failing septic systems, shallow drinking water wells, high groundwater table, and many of the existing septic systems violated the state requirement of 100 feet of separation between drain fields and wells. *The project was completed and consisted of abandoning existing septic systems by draining and filling the tanks with sand, installing a gravity collection system, installing gravity out-fall lines from the collection system to a new central treatment facility (if topography will not permit the use of the gravity flow, a sewer lift station and force main would be installed), and constructing a new central wastewater treatment facility consisting of a total retention lagoon.*

NAME OF RECIPIENT	Yellowstone, County of	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 300,000	TSEP Grant
	<u>\$ 320,761</u>	Local Funds
TOTAL	\$ 620,761	

PROJECT SUMMARY: The County had two bridges (Shiloh Road Bridge and South 32nd Street West Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing both bridges.*

Projects Approved through the 2003 Legislative process

Fifty-five applications requesting \$21,902,149 in TSEP funds were submitted for the 2005 biennium. The 2003 Legislative process approved \$15,653,331 in TSEP grant funds for forty projects. Three projects were conditionally awarded, but funding did not become available to complete these projects. **All projects have been completed.**

NAME OF RECIPIENT	Beaverhead County District (Wisdom)	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 74,700	RD Grant
	<u>\$ 91,300</u>	RD Loan
TOTAL	\$1,266,000	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: an undersized treatment facility, discharge of untreated wastewater, and leaking lagoon cells that could potentially contaminate the groundwater. *The project was completed and consisted of constructing a new lagoon treatment facility with spray irrigation system.*

NAME OF RECIPIENT	Black Eagle District	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 214,200	TSEP Grant
	<u>\$ 214,200</u>	Local Funds
TOTAL	\$ 428,400	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: clay tile pipe without gaskets allowing leakage, inflow infiltration and root problems, and occasional back-ups into homes, and crumbling manholes. *The project was completed and consisted of replacing 3,920 feet of sewer main and six manholes.*

NAME OF RECIPIENT	Blaine County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 322,782	TSEP Grant
	\$ 157,782	Local Funds
	<u>\$ 165,000</u>	In-Kind
TOTAL	\$ 645,564	

PROJECT SUMMARY: The County had two bridges (Snake Creek Bridge and Harlem Canal Bridge with a variety of deficiencies. *The project was completed and consisted of replacing both bridges.*

NAME OF RECIPIENT	Cascade County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 230,840	TSEP Grant
	\$ 210,515	Intercap Loan
	<u>\$ 27,325</u>	Local Funds
TOTAL	\$ 468,680	

PROJECT SUMMARY: The County's Eden Bridge was a one-lane bridge with a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Chinook, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,300,000	RD Grant
	\$1,500,000	RD Loan
	<u>\$ 23,073</u>	Local Funds
TOTAL	\$3,323,073	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: screw pumps inadequate, only one secondary clarifier, cracked drying beds; collection system had low areas, and an unreliable emergency generator. *The project was completed and consisted of replacing the screw pumps, constructing a building over the pump station, installing an influent flow meter and two new mixers, constructing a secondary clarifier, and replacing high priority mains and manholes.*

NAME OF RECIPIENT	Conrad, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,350,000	STAG Grant
	\$ 400,000	RD Grant
	\$ 672,800	RD Loan

	<u>\$1,000,000</u>	WRDA Grant
TOTAL	\$4,022,800	

PROJECT SUMMARY: The city's water system had the following deficiencies: blockage of intake screens causing loss of intake, location of intake limited and sometimes non-existent during drought years. *The project was completed and consisted of constructing a new intake on Lake Francis, a new pump station and wet well on the south side of Lake Francis, an intake backwash, and 11,000 feet of transmission main.*

NAME OF RECIPIENT	Cooke City – Park County District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 782,000</u>	RD Loan
TOTAL	\$1,382,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: a spring classified as groundwater directly under the influence of surface water, shallow mains that tended to freeze, distribution system leaks, inadequate storage, and inadequate water supply causing the use of surface water requiring boil orders for safe consumption to meet demand. *The project was completed and consisted of replacing 7,000 feet of older mains and looping dead-ends, constructing a new 223,000-gallon buried steel water tank, drilling three new wells and installing meters on all service lines.*

NAME OF RECIPIENT	Ekalaka, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 154,197	TSEP Grant
	\$ 212,697	CDBG Grant
	\$ 5,000	CDBG/TA Grant
	<u>\$ 5,000</u>	Local Funds
TOTAL	\$ 376,894	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: shallow lines that froze and caused back-ups in homes, high O&M costs for the lagoon, inadequate quality monitoring and no final effluent disinfection. *The project was completed and consisted of video inspecting of all lines, replacing the shallow lines, installing static tube aeration in the lagoon and a UV disinfection system.*

NAME OF RECIPIENT	Gallatin County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$ 515,400</u>	Local Funds
TOTAL	\$1,015,400	

PROJECT SUMMARY: The County had three bridges (Cameron Bridge, Ice Pond Road Bridge and Story Hill Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing two of the bridges. The Ice Pond Bridge was eliminated from the scope of work because of issues with adjacent land owners.*

NAME OF RECIPIENT	Gardiner/Park County District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,067,100	SRF Loan
	<u>\$ 16,700</u>	Local Funds
TOTAL	\$1,583,800	

PROJECT SUMMARY: The district's water system had the following deficiencies: arsenic contamination is excess of the EPA maximum contaminant level and the storage tank was located in Yellowstone National Park, which did not maintain sufficient water during high demand periods due to undersized transmission mains. *The project was completed and consisted of constructing an arsenic treatment plant and installing an additional 2,250 feet of eight-inch transmission main.*

NAME OF RECIPIENT	Geraldine, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 25,000	Local Funds
	<u>\$ 135,600</u>	RD Loan
TOTAL	\$1,235,660	

PROJECT SUMMARY: The town's water system had the following deficiencies: insufficient supply and storage, undersized piping and a well with objectionable taste, odor, and excessive mineral concentrations including fluoride, which violated EPA's primary and secondary drinking water regulations. *The project was completed and consisted of constructing a 200,000-gallon storage tank, replacing undersized mains, and drilling a new well.*

NAME OF RECIPIENT	Glendive, City of	
TYPE OF PROJECT	Stormwater System Improvements	

FUNDING	\$ 139,133	TSEP Grant
	\$ 133,500	BNSF Funds
	<u>\$ 32,450</u>	Local Funds
TOTAL	\$ 305,083	

PROJECT SUMMARY: The city's stormwater system had the following deficiencies: sediment from erosion of surrounding hills restricted the volume of stormwater that Rosser Ditch could handle causing flooding of adjacent areas, overloading the sanitary sewer system causing discharges. The flooding of adjacent areas was compounded by the fact BNSF rail yard would flood resulting in petro-chemicals being carried into the adjacent neighborhood. *The project was completed and consisted of constructing three basins to collect the sediment before it reached Rosser Ditch.*

NAME OF RECIPIENT	Hamilton, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 846,787	SRF Loan
	\$ 17,500	Local Funds
	<u>\$ 7,500</u>	TSEP/PER
TOTAL	\$1,971,787	

PROJECT SUMMARY: The city's water system had the following deficiencies: aged and undersized leaking pipes, undersized storage tank and outdated wells without wellhead protection. *The project was completed and consisted of constructing a new well house, drilling three new wells, installing new mains and replacing existing mains, installing five fire hydrants, constructing a one million-gallon reservoir and metering all service connections.*

NAME OF RECIPIENT	Hill County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 175,803	TSEP Grant
	\$ 100,000	Local Funds
	<u>\$ 84,881</u>	In-Kind
TOTAL	\$ 360,684	

PROJECT SUMMARY: The County had three bridges (Quarter Gulch Bridge, Big Hook Bridge and Wanke Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Jordan, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 459,883	TSEP Grant
	\$ 291,060	MDT Grant
	\$ 463,838	RD Grant
	<u>\$ 14,200</u>	Local Funds
TOTAL	\$1,228,981	

PROJECT SUMMARY: The town's water system had the following deficiencies: a single groundwater supply, petroleum hydrocarbon induced gasket failure in supply lines, undersized distribution mains, low service pressure, dead end lines, a deteriorating storage tank, and no back-up power. *The project was completed and consisted of drilling an additional well, installing chlorination equipment, replacing 7,000 feet of water mains and installing auxiliary power sources.*

NAME OF RECIPIENT	Judith Basin County/Geyser District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 330,000	TSEP Grant
	\$ 308,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 292,000	RD Grant
	<u>\$ 219,000</u>	RD Loan
TOTAL	\$1,249,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: inadequate supply and storage, no storage for emergency or fire flow conditions, only one supply well, undersized distribution mains, reduced capacity from wells, poor water quality, no auxiliary power and no water meters. *The project was completed and consisted of drilling two new wells, constructing a 67,000-gallon water tank, and installing 11 fire hydrants, 5,700 feet of distribution lines and 53 water meters.*

NAME OF RECIPIENT	Lake County Solid Waste District	
TYPE OF PROJECT	Solid Waste System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,056,818	Local Funds
	<u>\$ 640,182</u>	InterCap Loan
TOTAL	\$2,197,000	

PROJECT SUMMARY: The district's solid waste system had the following deficiencies: landfill disposal space was projected to be gone by 2005, and DEQ regulations would not allow the existing landfill to be expanded

because it was located in a geologically unstable area subject to seismic activity. *The project was completed and consisted of constructing a transfer station so the solid waste can be transported the Missoula landfill.*

NAME OF RECIPIENT	Lewis and Clark County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 170,575	TSEP Grant
	<u>\$ 170,575</u>	Local Funds
TOTAL	\$ 341,150	

PROJECT SUMMARY: The County had three bridges (Lake Helena Drive Bridge, John G. Mine Road Bridge and Stemple Pass Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing the three bridges.*

NAME OF RECIPIENT	Libby, City of	
TYPE OF PROJECT	Water and Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 241,275	Intercap Loan
	<u>\$ 380,000</u>	Local Funds
TOTAL	\$1,221,275	

PROJECT SUMMARY: The Johnson Acres neighborhood adjacent to the city had the following problems: a centralized wastewater system was not available in the area, water lines were undersized and leaking, improperly placed mains and lines, inadequate fire flows and portions of the system were located on private property without easements. *The project was completed and consisted of extending city sewer into the area, abandoning 105 existing septic tanks, extending city water service into the area, installing eight new fire hydrants, and replacing under-sized water transmission main with 1,440 feet of 12-inch pipe.*

NAME OF RECIPIENT	Madison County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 174,529	TSEP Grant
	<u>\$ 174,529</u>	Local Funds
TOTAL	\$ 349,058	

PROJECT SUMMARY: The County had three bridges (First South Boulder Road Bridge, Second South Boulder Road Bridge and South Willow Creek Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Missoula, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 70,000	RRGL Grant
	\$1,078,846	Local Funds
	\$ 482,100	STAG Grant
	<u>\$2,861,000</u>	SRF Loan
TOTAL	\$4,991,946	

PROJECT SUMMARY: A portion of Rattlesnake Valley area within the City of Missoula has the following problems: the area has a significant number of on-site wastewater treatment systems that are inadequate and/or that have failed, and are polluting the city's sole source aquifer and causing high nutrient loading of the Clark Fork River. *The project would consist of constructing collector lines that would be connected to the city's wastewater system. The project was completed in the fall of 2010.*

NAME OF RECIPIENT	Missoula County	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 499,335	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 584,320	RSID Loan
	\$ 617,670	STAG
	<u>\$ 231,170</u>	Missoula Water Quality District
TOTAL	\$2,032,495	

PROJECT SUMMARY: The County's four sub-district wastewater systems in the Mullan Road corridor had the following deficiencies: inadequate aeration, leakage of treatment and storage facilities, inadequate treatment of effluent, some aging septic tanks, and drainfield failure. *The project was completed and consisted of inspecting and repairing existing mains and lines, and installing gravity mains and collection lines to connect the sub-districts to the sewer trunk line.*

NAME OF RECIPIENT Pablo – Lake County Water and Sewer District

TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 477,900	STAG Grant
	\$1,193,300	RD Grant
	<u>\$ 887,200</u>	RD Loan
TOTAL	\$3,658,400	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: an undersized treatment system, and a directive from the Confederated Salish and Kootenai Tribes to eliminate the use of rapid infiltration cells if the system was expanded. *The project was completed and consisted of abandoning the rapid infiltration cells, constructing three new storage cells and a spray irrigation pumping facility, and expanding the spray irrigation system.*

NAME OF RECIPIENT Phillips County Green Meadows District

TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 112,500	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 42,900</u>	SRF Loan
TOTAL	\$ 255,400	

PROJECT SUMMARY: The district's water system had the following deficiencies: untreated, insufficient water supply, undersized mains, dead-end lines, and undersized storage tank. *The project was completed and consisted of abandoning the present system, connecting to the City of Malta's water system with a new eight-inch looped distribution system and the installation of meters on all services.*

NAME OF RECIPIENT Polson, City of

TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 589,418	SRF Loan
	<u>\$ 147,500</u>	Local Funds
TOTAL	\$1,236,918	

PROJECT SUMMARY: The city's water system had the following deficiencies: could not meet peak demands, low pressures due to storage drop during peak flows, and limited firefighting capacity. *The project was completed and consisted of constructing a water main that crosses the Flathead River in order to connect an existing well and storage facility.*

NAME OF RECIPIENT Pondera County

TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 137,500	TSEP Grant
	<u>\$ 137,000</u>	Local Funds
TOTAL	\$ 275,000	

PROJECT SUMMARY: The County's Theatre #1 Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT Power-Teton County District

TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 339,900</u>	SRF Loan
TOTAL	\$ 939,900	

PROJECT SUMMARY: The district's water system had the following deficiencies: high-organic concentrations resulting in by-product violations, no storage for emergency or fire flow, lack of storage capacity, undersized distribution lines, no auxiliary power, and dead-end lines. *The project was completed and consisted of constructing a pre-sedimentation basin, a 250,000-gallon storage tank with transmission lines and high priority distribution lines.*

NAME OF RECIPIENT Ramsay County District

TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 255,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 175,000</u>	RD Loan
TOTAL	\$ 530,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: wells with no wellhead protection and located in close proximity to potential source of pollution, low water pressure, lack of continuous disinfection, inadequate storage and inoperable valves and hydrants. *The project was completed and consisted of replacing undersized mains, installing five new hydrants and valves, drilling two new wells away from contamination, and installing meters.*

NAME OF RECIPIENT	Richland County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 351,625	TSEP Grant
	<u>\$ 351,625</u>	Local Funds
TOTAL	\$ 703,250	

PROJECT SUMMARY: The County had four bridges (West Finnicum Bridge, East Palmer Bridge, Vournas Bridge and East Carlson Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all four bridges.*

NAME OF RECIPIENT	Ryegate, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 478,700	TSEP Grant
	\$ 121,495	BOR Grant
	\$ 100,000	RRGL Grant
	\$ 278,749	RD Loan
	<u>\$ 16,135</u>	Local Funds
TOTAL	\$ 995,079	

PROJECT SUMMARY: The town's water system had the following deficiencies: the water source was designated GWUDISW, fecal coliform bacteria had been detected, the infiltration gallery capacity had decreased, and there was inadequate storage to meet fire protection requirements. The original project was to include: drilling two to three new wells, replacing cast iron pipe with PVC pipe, installing 10 new fire hydrants, conducting a structural inspection of the storage tank and metering service connections. The scope of the project was modified due to the inability of finding water. *The project was completed and consisted of constructing an infiltration gallery, installing meters, installing 3,900 feet of six-inch main and installing hydrants.*

NAME OF RECIPIENT	Scobey, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 130,000	Local Funds
	<u>\$1,206,000</u>	SRF Loan
TOTAL	\$1,936,000	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: an undersized single cell lagoon had leaks, inoperable control structures, valves and outlet/inlet piping, clay tile pipe collection lines had many problems. *The project was completed and consisted of reconfiguring the treatment facility to a two-cell lined storage and spray irrigation, replacing seven manholes, replacing a portion of the mains, and constructing an equipment building.*

NAME OF RECIPIENT	Sheaver's Creek District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 276,000	RD Loan
	\$ 585,400	RD Grant
	<u>\$ 500,000</u>	RD Grant
TOTAL	\$1,961,400	

PROJECT SUMMARY: The district's water system had the following deficiencies: fluoride levels exceeding EPA maximum contaminant level, possible spring under the influence of surface water, unburied transmission line, storage tank with no cover, undersized distribution mains, leaking distribution lines, inadequate storage, no fire service or hydrants, pressures below 20 psi, and no easements for repair. *The project was completed and consisted of drilling three new wells, installing approximately 19,000 feet of mains, installing approximately 118 new services and meters, constructing a 140,000-gallon storage tank, and installing approximately 30 fire hydrants.*

NAME OF RECIPIENT	Sheridan County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 210,775	TSEP Grant
	<u>\$ 210,775</u>	Local Funds
TOTAL	\$ 421,550	

PROJECT SUMMARY: The County had eight bridges (Rovig Bridge, East Twin Bridge, Dale Drawbond Bridge, Eagle Creek Bridge, Don Johnson Bridge, East and West Orvis Nelson Bridges, and North Dagmar Bridge) with a variety of deficiencies. *The original project consisted of replacing all eight bridges, but was ultimately reduced to five bridges. The project was completed and consisted of replacing the East & West Orvis Nelson Bridges, North Dagmar Bridge, Don Johnson Bridge and Eagle Creek Bridge.*

NAME OF RECIPIENT	Stanford, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 192,000	RD Grant
	<u>\$1,144,900</u>	RD Loan
TOTAL	\$1,764,100	

PROJECT SUMMARY: The town's water system had the following deficiencies: supply could not meet average daily demand, water quality was poor, inadequate pressure, and 29 fire hydrants were 74 years old with inadequate size, leakage and some were inoperable. *The project was completed and consisted of drilling two new wells, rehabilitating existing wells, constructing a 316,000-gallon storage tank and 3,200 feet of distribution lines, and replacing 29 fire hydrants.*

NAME OF RECIPIENT	Stillwater County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 450,000	Local Funds
	<u>\$ 19,134</u>	In-Kind
TOTAL	\$ 919,134	

PROJECT SUMMARY: The County had five bridges (West Rosebud Creek Bridge, Grove Creek Bridge, Limestone Creek Bridge Pope Road Bridge and Youngs Point Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all five bridges.*

NAME OF RECIPIENT	Sweet Grass County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 235,954	TSEP Grant
	\$ 184,254	Local Funds
	<u>\$ 51,700</u>	In-Kind
TOTAL	\$ 471,908	

PROJECT SUMMARY: The County had three bridges (Big Timber Creek Bridge, Bridger Creek Road Bridge Stock Pass Crossing and Bridger Creek Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Troy, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 400,000	CDBG Grant
	\$ 100,000	RRGL Grant
	<u>\$2,350,000</u>	RD Loan
TOTAL	\$3,350,000	

PROJECT SUMMARY: The city's water system had the following deficiencies: leakage causing loss of nearly half of the supply, inadequate storage, lack of metering, and contamination from a shallow well. *The project was completed and consisted of drilling a new well, adding a disinfection system replacing 2,000 feet of main and 18,000 feet of service line, constructing a 180,000-gallon storage tank, and installing meters on all service connections.*

NAME OF RECIPIENT	Upper-Lower River Road District	
TYPE OF PROJECT	Water and Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	State CDBG Grant
	\$ 332,000	City CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 867,300	STAG Grant
	<u>\$ 585,768</u>	SRF Loan
TOTAL	\$2,885,068	

PROJECT SUMMARY: The district's on-site wastewater systems caused high levels of nitrate and ammonia in drinking water wells. *The scope of the project was modified to allow the district to phase the project, and in the first phase, connected only a part of the district. The project was completed and consisted of constructing water and sewer mains that are connected to the City of Great Falls water and sewer systems, constructing distribution and collection lines, and installing water meters.*

NAME OF RECIPIENT	Wolf Point, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,180,000	RD Loan
	\$ 246,500	Local Funds
	<u>\$ 40,000</u>	Tribal Funds
TOTAL	\$1,966,500	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: an offensive odor, sludge build-up, and discharged at a marginally acceptable rate. *The project was completed and consisted of removing sludge, splitting the existing second cell to form a three-cell system, with two aerated cells and a polishing pond.*

NAME OF RECIPIENT	Worden – Ballantine District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 24,222	Local Funds
	<u>\$ 850,300</u>	SRF Loan
TOTAL	\$1,474,522	

PROJECT SUMMARY: The district's water system had the following deficiencies: potential for backflow of raw water from the nearby creek, undersized pipelines, inadequate fire protections, aged pumps, undersized storage tank and no back-up water source. *The project was completed and consisted of videoing the source drain, drilling a well, constructing a chlorination facility, installing a new pump, adding a back-up generator, constructing a 200,000-gallon storage tank, and adding 8,000 feet of line, 21 valves and four hydrants.*

Projects Approved through the 2005 Legislative process

Forty-seven applications requesting \$18,551,674 in TSEP funds were submitted for the 2007 biennium. The 2005 Legislative process approved \$15,968,253 in TSEP grant funds for forty projects. Three projects were conditionally awarded, but funding did not become available to complete these projects. One project awarded was terminated due to not meeting grant conditions. **All projects have been completed.**

NAME OF RECIPIENT	Beaverhead County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 84,886	TSEP Grant
	<u>\$ 84,886</u>	Local Funds
TOTAL	\$ 169,772	

PROJECT SUMMARY: The County's 3rd Avenue Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Big Fork County Water and Sewer District	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 460,000	TSEP Grant
	<u>\$ 460,000</u>	SRF Loan
TOTAL	\$ 920,000	

PROJECT SUMMARY: Mayport Harbor is located between the Flathead River and the district, and had the following problems: individual septic tank systems, phosphorous breakthrough was potentially occurring in certain locations, the area is subject to high groundwater and poorly treated sewage was potentially degrading state waters, lot sizes are less than the minimum required for onsite sewer, setbacks from surface water are less than the minimum distance required, and the systems are in flood prone areas. *The project was completed and consisted of installing approximately 4,500 feet of four-inch PVC service lines; 3,350 feet of eight-inch PVC gravity main; and 1,000 feet of four-inch PVC force main connecting the Mayport Harbor area to the district's wastewater system, and constructing a lift station.*

NAME OF RECIPIENT	Big Horn County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 142,500	TSEP Grant
	\$ 90,450	Local Funds
	<u>\$ 52,050</u>	In-kind
TOTAL	\$ 285,000	

PROJECT SUMMARY: The County's Tullock Creek Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Carbon County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 97,100	TSEP Grant
	\$ 112,100	Local Funds
	<u>\$ 15,000</u>	TSEP PER Grant
TOTAL	\$ 194,200	

PROJECT SUMMARY: The County's Fox Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Carter Chouteau County Water and Sewer District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 344,600	RD Loan
	<u>\$ 350,000</u>	RD Grant
TOTAL	\$1,294,600	

PROJECT SUMMARY: The district's water system had the following deficiencies: the infiltration gallery that served as the source of supply had been designated as "groundwater under the direct influence of surface water", arsenic level is 33 ug/L, which was over three times the maximum allowed by the Safe Water Drinking Act, manganese level is 0.36 mg/L, which was over seven times the maximum allowed by the Safe Water Drinking Act, cracking of the PVC distribution pipe, with over 50 leaks in the past two years, total loss of water to users over extended periods when repairing leaks, pump house #2 was constructed on clay material with a poor foundation footprint, access to the pump house could be difficult during the winter due to drifting snow, and the chlorine contact time prior to the first service connection was insufficient to guarantee drinking water safe from waterborne pathogens. *The project was completed and consisted of: installing point-of-use devices on each service connection (to remove arsenic), installing sample pump and sample line, chlorine residual monitor, turbidity monitor, flow meter, and an in-line ultraviolet disinfection unit in the infiltration gallery pump house, installing approximately 80 feet of 24-inch pipe prior to the first service connection, installing water meters on all service lines, relocating pump house #2, replacing approximately 4,000 feet of six-inch main line between pump house #2 and pump house #3, and replacing approximately 32,000 feet of three-inch and four-inch main line between pump house #3 and pump house #4.*

NAME OF RECIPIENT	Cascade, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	DNRC Grant
	<u>\$ 154,000</u>	Local Funds
TOTAL	\$1,254,000	

PROJECT SUMMARY: The town's water system had the following deficiencies: over half of the water distribution system was comprised of leaky and undersized steel and cast iron water mains, a computer model of the system indicated negative pressures could be experienced in the system during high water demand periods, which increased the likelihood of contaminants being introduced into the system, 19 fire hydrants were 1913 vintage with 2.5-inch nozzles that were inoperable or leak excessively, and many could not be connected to the town's fire fighting equipment, storage was inadequate for emergency demand and fire protection, no auxiliary power was available, and the distribution system was experiencing problems with tuberculation on the interior of the pipes, resulting in constriction of flow. *The project was completed and consisted of: replacing 19 fire hydrants with six-inch hydrants, installing approximately 4,000 feet of core transmission line to the school, commercial and downtown areas using 10-inch main, constructing a new 273,000 gallon buried concrete storage reservoir, installing new telemetry controls for the wells and water storage reservoir, and installing a portable generator for emergency operation of the existing wells.*

NAME OF RECIPIENT	Choteau, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 140,000	RD Grant
	\$1,160,000	RD Loan
	<u>\$ 20,000</u>	Local Funds
TOTAL	\$1,920,000	

PROJECT SUMMARY: The city's water system had the following deficiencies: the four water sources were susceptible to contamination, the four water sources combined in the Water Works pump house before distribution, therefore contamination of any one of the sources could have resulted in the potential contamination of the entire water supply, the Water Works wet well was deteriorating, and could not be repaired until an alternative water supply was established, the system experienced excessive water loss due to leaking distribution lines, access to the water supply storage tanks was relatively unrestricted, resulting in a potential security risk, and vents and improperly constructed access ways to the tanks provided a potential for contamination from outside sources. *The project was completed and consisted of constructing a new independent pump house and chlorination treatment system at the Richem pump house, renovating the Water Works pump house and wet well, replacing approximately 10,000 feet of old cast iron mains with eight-inch and 10-inch PVC distribution lines, installing a six-foot chain link fence with three strand barbed wire around perimeter of the storage tanks, and upgrading instrumentation and controls.*

NAME OF RECIPIENT	Conrad, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$2,942,400	RD Loan
	\$ 477,000	STAG Grant
	\$ 245,000	WRDA Grant
	<u>\$ 28,553</u>	Local Funds
TOTAL	\$4,192,953	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: treatment facility was in excess of its 20-year life expectancy, with some mechanical portions as old as 35 years, frequent and reoccurring effluent permit violations for biochemical oxygen demand (BOD) and total suspended solids (TSS), despite an active flow management program that attempted to minimize spring turnover effects, sludge level accumulation in the primary cell exceeds six feet in depth and had recently created a visible sludge "beach" near the cell inlet, and sludge depth in the two facultative cells exceeded three feet. *Major elements of the project include: construct a partially-mixed aerated lagoon system, install ultraviolet disinfection facilities, and dewater, remove, and land apply the accumulated sludge. Along with the original scope of work the City is also addressing Stream Reclassifications, incorporating grit removal, sludge thickening, and ammonia removal. The project was completed in the summer of 2010.*

NAME OF RECIPIENT	Crow Tribe	
TYPE OF PROJECT	Wastewater System Improvements in Crow Agency	
FUNDING	\$ 500,000	TSEP Grant
	\$1,248,785	RD Grant/Loan
	\$ 357,000	IHS Grant
	\$ 100,000	Coal Board Grant
	<u>\$ 267,000</u>	EPA Grant
TOTAL	\$2,472,785	

PROJECT SUMMARY: The wastewater system in Crow Agency had the following deficiencies: system was not sized to accommodate the design peak flow without surcharging, approximately 5,750 feet of mains were four-

inch or six-inch diameter (minimum of eight-inch is required), approximately 17,250 feet of the mains had been installed at less than the required slope, deteriorated mains and manholes as evidenced by cracked pipes, root penetration, sagging lines, offset joints, crumbling manhole barrels, missing steps and settling, master lift stations, which lifts wastewater to the treatment lagoons, had inadequate capacity, and the dry pit side of one of the two lift stations was totally filled with water when recently observed (these were combined into a single lift station). *The project was completed and consisted of constructing a new sewer interceptor through Crow Agency.*

NAME OF RECIPIENT	Custer Area – Yellowstone County Water and Sewer District	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 500,000	CDBG Grant
	\$ 117,894	SRF Loan
	\$ 75,000	Coal Board Grant
	\$ 100,000	DNRC Grant
	\$ 14,343	TSEP PER Grant
	<u>\$ 14,053</u>	Local Funds
TOTAL	\$1,307,237	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: undersized, leaking, and deteriorating lift station, lift station lacked flow meter, straining mechanism or grinding mechanism, lagoons were leaking approximately 84% of the wastewater that enters, less than five days detention time in the lagoons caused untreated wastewater to directly enter the groundwater, there was a major inflow and infiltration problem in the wastewater collection system, and the amount of flow in the wastewater system varied with the water table resulting in untreated wastewater seeping into the ground water from the collection system. *The project was completed and consisted of: constructing a new lift station, video inspecting the collection lines and cleaning as needed, replacing clay tile pipe with approximately 4,000 feet of eight-inch PVC pipe, installing approximately 2,650 feet of force main to the lagoons, and reconfiguring the current lagoon cells into two lined facultative lagoons and infiltration/percolation ponds.*

NAME OF RECIPIENT	Dodson, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 427,500	TSEP Grant
	\$ 443,150	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 88,000	SRF Loan
	<u>\$ 1,220</u>	Local Funds
TOTAL	\$1,059,870	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: existing single-cell lagoon did not meet the DEQ requirements for a minimum of three treatment cells, inlet pipe to the lagoon was located too near the discharge, sludge had accumulated to a depth of 1.6 feet in the lagoon, existing treatment pond detention time for current flows was 120 days, resulting in insufficient treatment prior to discharge, over a dozen biochemical oxygen demand (BOD) and total suspended solids violations had occurred since 1994, the treatment system did not meet the proposed fecal or ammonia limits proposed for the upcoming 2006 permit, and the lift station was substandard. *The project was completed and consisted of installing a new lift station and replacing the existing lagoon with a two-cell total retention lagoon.*

NAME OF RECIPIENT	Ennis, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 204,894	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 159,031</u>	SRF Loan
TOTAL	\$ 463,925	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: no disinfection, discharge was not possible during periods of river gorging in the spring, and sludge volume of 4,000,000 gallons, which had an estimated 17% solids content. *The project was completed and consisted of installing an ultraviolet treatment facility, constructing approximately 285 feet of four-inch outfall pipe, and land applying the dried sludge.*

NAME OF RECIPIENT	Glacier County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	<u>\$2,575,755</u>	SAFTU Grant
TOTAL	\$3,075,755	

PROJECT SUMMARY: The County's St. Mary's Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the existing bridge. The new bridge is for vehicles only and no longer is used by the St. Mary Canal to support the pipes.*

NAME OF RECIPIENT	Glasgow, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$2,195,000	SRF Loan
	\$ 245,000	WRDA Grant
	\$ 15,000	RRGL PER Grant

	<u>\$ 45,000</u>	Local Funds
TOTAL	\$3,000,000	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: the treatment facility has reached the end of its useful life, the DEQ has issued two violation letters for failure to meet permitting requirements, ammonia discharge permit limits cannot be met in July and August, the aeration system and baffles within the treatment cells are in poor condition, numerous diffusers are inoperable, current treatment facility would not be able to meet future disinfection standards, lift station pumps are over 30 years old and have reached the end of their useful life, and no back-up source of power for the lift station, which has experienced 18 power outages. *Major elements of the project include: upgrade the existing treatment plant to a four-cell advanced aerated lagoon facility, replace the lift station pumps, rehabilitate the lift station's wet well, and install a new back-up power supply at the lift station. The project was completed.*

NAME OF RECIPIENT	Havre, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 125,000	MDT Grant
	<u>\$1,456,000</u>	SRF Loan
TOTAL	\$2,081,000	

PROJECT SUMMARY: The city's water system in the project area had the following deficiencies: water mains were old and at the end of their service life, a six-inch cast iron water main was undersized and incapable of delivering adequate fire flows, and porous, non-metallic gaskets used during the installation of the water mains increased the potential for contamination of the drinking water system from carcinogenic compounds in the soil and/or groundwater. *The project was completed and consisted of replacing approximately 3,900 feet of water main with 10-inch ductile iron pipe and installing 20 additional fire hydrants.*

NAME OF RECIPIENT	Hill County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 450,750	TSEP Grants
	\$ 129,832	Local Funds
	<u>\$ 318,016</u>	In-kind
TOTAL	\$ 898,598	

PROJECT SUMMARY: The County has three bridges (Big Sage Bridge, Lineweaver Bridge and Henry's Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Hysham, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 462,359	TSEP Grant
	\$ 15,000	Local Funds
	<u>\$ 453,799</u>	RD Loan
TOTAL	\$ 931,158	

PROJECT SUMMARY: The town's water system had the following deficiencies: a decline in the Yellowstone River water level had reduced the head available to drive water through the sand and gravel and into the infiltration gallery, the edge of the surface water had moved laterally away from the infiltration gallery line causing an increase in the groundwater flow path from the river to the infiltration gallery, clarification and filtration basins were showing severe signs of rust and deterioration, no check valve and foot valve in the pump station resulted in back flushing of filter media into the low service pump caisson, loss of filter media in the Yellowstone River, control system was antiquated and worn out, and deteriorated and undersized water mains in parts of the distribution system. *The project was completed and consisted of extending the infiltration gallery further out into the river, rehabilitating the clarification and filtration basins, installing check valves, and restoring the supply of filter media, and replacing the control system with a new supervisory control and data acquisition system.*

NAME OF RECIPIENT	Laurel, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 433,000</u>	SRF Loan
TOTAL	\$1,033,000	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: increasing amounts of infiltration and inflow were impacting the capacity of sewer mains, undersized mains and root intrusion within the collection system, failure or back-up of sewer mains led to the release of raw sewage in basements and homes, the two sewage lift stations were nearing the end of their useful life, during peak flow events the plant was not able to treat to permitted effluent limits, and several areas of the treatment plant had been identified as needing upgrades in the near future to ensure continued permit compliance. *The project was completed and consisted of replacing about 6,500 feet of trunk mains with new 24-inch, 36-inch and 48-inch diameter mains.*

NAME OF RECIPIENT	Lewis & Clark County	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 288,757	TSEP Grant
	\$ 141,191	SRF Loan
	\$ 703,269	STAG Grant

	<u>\$ 149,721</u>	Local Funds
TOTAL	\$1,282,938	

PROJECT SUMMARY: The project area had the following deficiencies: the fairgrounds lift station had served its useful life and required extensive maintenance, alternative power sources were not available in case of power outages at the fairgrounds lift station, one of two on-site wastewater systems at the AGC Laborer's Training Facility had failed and replacement had not been possible because of high groundwater elevations and the Woodlawn Park Addition had failing septic systems, lack of drainfield replacement areas, and unacceptable nitrate levels in the domestic water supply (groundwater). The project was the first of a two-phase project to connect the areas to the area to the City of Helena's water and wastewater system. *The project was completed and consisted of connecting the Fairgrounds/Dunbar area to the City of Helena's wastewater system.*

NAME OF RECIPIENT	Libby, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,400,000	STAG Grant
	\$ 500,000	WRDA Grant
	\$ 79,000	SRF Loan
	<u>\$ 12,000</u>	Local Funds
TOTAL	\$2,591,000	

PROJECT SUMMARY: the Cabinet Heights area has the following problems: drainfield failures and seepage pits instead of drainfields due to small lots. *Major elements of the project include: extend a gravity collection system from the City of Libby to the Cabinet Heights area, by installing approximately 12,400 feet of eight-inch PVC pipe, construct one lift system, and abandon the existing on-site wastewater treatment and disposal system. The project was completed during the summer of 2010.*

NAME OF RECIPIENT	Madison County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 179,911	TSEP Grant
	\$ 29,540	Local Funds
	<u>\$ 150,371</u>	In-kind
TOTAL	\$ 359,822	

PROJECT SUMMARY: The County had three bridges (Noble Fork Bridge, Lower North Meadow Creek Bridge, Carey Lane Bridge, Upper North meadow Creek Bridge, Lower South Willow Bridge and Old Stage Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all six bridges.*

NAME OF RECIPIENT	Malta, City of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 685,000	RD Grant
	<u>\$3,606,000</u>	RD Loan
TOTAL	\$4,791,000	

PROJECT SUMMARY: The city's wastewater system had the following deficiencies: Trafton lift station piping and valves were corroded, deteriorated and/or inoperable, Trafton lift station pumps were corroded and had reached the end of their useful life, Robinson lift station air lift pumps were outdated technology and difficult to maintain, Robinson lift station valves and piping did not have a separate dry well, the Trafton and Robinson lift stations did not have safe access for repair or maintenance, no backup power at the other four lift stations, City had fifteen discharge permit violations of biochemical oxygen demand (BOD), total suspended solids (TSS), and fecal coliform since May 1998, system could not meet anticipated ammonia limits in the next permit, two-cell configuration limits the operational flexibility of the system and did not meet the DEQ standards of a three-cell lagoon system, significant accumulation of sludge and the sludge did not meet the Environmental Protection Agency (EPA) land application standards, no riprap was present on the majority of the dike banks, resulting in advanced erosion, existing outfall line to the Milk River had repeatedly failed due to collapsing pipe and manholes, and no service meters on the water system that could determine actual usage. *The project was completed and consisted of constructing a single partial-mix aerated lagoon, with storage cells, an ultraviolet disinfection system and spray irrigation, lining the lagoons with a synthetic PVC liner, replacing the Robinson lift station, and constructing a new staircase at the Trafton lift station.*

NAME OF RECIPIENT	Miles City, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,967,000	SRF Loan
	<u>\$ 50,000</u>	Local Funds
TOTAL	\$2,517,000	

PROJECT SUMMARY: The city's water system in the project area had the following deficiencies: lack of redundancy, low pressures (below 35 psi) at peak demand times, due to the limited capacity (number, size and location) of existing transmission and distribution lines to and within this area, inadequate fire flows, poor water quality (stagnant water; low chlorine residual; taste, odor and appearance problems; and higher than desirable disinfection byproducts), inability to properly flush the lines to maintain water quality, corroded lines harbor bacteria, potential cross connections, periodic water outages due to repairs, and heavy turbidation in the small,

unlined, cast iron four-inch lines, which tended to allow biofilms to exist. *The project was completed and consisted of extending the 10-inch Bender Park water main into the project area, connecting the 14-inch main on North Haynes Avenue and the 10-inch Bender Park main with a new 12-inch main (approximately 5,800 feet), replacing approximately 19,500 feet of four-inch and six-inch cast iron distribution lines with eight-inch lines, and installing new valves, 35 fire hydrants, and service line connections between the main and the property line.*

NAME OF RECIPIENT	Mineral County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 80,090	TSEP Grant
	\$ 61,946	Local Funds
	<u>\$ 18,144</u>	In-kind
TOTAL	\$ 160,180	

PROJECT SUMMARY: The County's Cedar Creek Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF RECIPIENT	Missoula County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 275,172	TSEP Grant
	<u>\$ 275,172</u>	County Local
TOTAL	\$ 550,334	

PROJECT SUMMARY: The County had two bridges (La Valle Creek Bridge and Finley Creek Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing both bridges.*

NAME OF RECIPIENT	Powell County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 158,348	TSEP Grant
	\$ 91,379	County Local
	<u>\$ 66,969</u>	County In-kind
TOTAL	\$ 316,696	

PROJECT SUMMARY: The County had three bridges (West River Road Bridge, Freeze Out Lane Bridge, and Cutoff Road Bridge) with a variety of deficiencies: *The project was completed and consisted of replacing all three bridges*

NAME OF RECIPIENT	Ranch County Water District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant.
	\$ 10,000	County Funds
	\$ 120,500	CDBG Grant
	\$ 9,000	Ranch
	\$ 100,000	RRGL Grant
	<u>\$ 650,000</u>	RD Loan
TOTAL	\$1,389,500	

PROJECT SUMMARY: The district's water system had the following deficiencies: wells did not meet design flows with the largest well out of service, substandard well construction, inadequate chlorine contact time and chlorination system housing, deterioration of wooden portion of storage tank, inadequate water pressure, distribution lines were not sized for fire flows, distribution lines were not looped, and no water meters. *The project was completed and consisted of: drilling a new well, constructing a 150,000 gallon storage tank, constructing a new pump house/chlorination facility, and constructing a new distribution network consisting of about 7,000 feet of eight-inch pipe, 12 fire hydrants, and 30 service meters.*

NAME OF RECIPIENT	Richland County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 453,841	TSEP Grant
	\$ 122,479	Local Funds
	<u>\$ 331,362</u>	In-kind
TOTAL	\$ 907,682	

PROJECT SUMMARY: The County had four bridges (4th Street Bridge, Miller Bridge, Fox Creek Road Bridge and Vaira Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all four bridges.*

NAME OF RECIPIENT	Rudyard County Water and Sewer District	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 524,503	TSEP Grant
	\$ 344,400	CDBG Grant
	<u>\$ 15,000</u>	Local Funds
TOTAL	\$ 883,903	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: undersized six-inch clay tile mains were clogged with roots, many of the mains were installed at slopes below the minimum, cracked and broken pipe, 25 to 30 backups into private residences per year over the last five years, lift station was outdated and lacked an alarm system, backup power or pumping ability, force main did not discharge to an inlet control

structure, no perimeter fencing or warning signs existed around the lagoon site, and minor erosion of embankments. *The project was completed and consisted of replacing approximately 6,725 feet of existing six-inch clay tile lines with eight-inch PVC lines, installing approximately 23 new manholes, replacing the existing lift station with a new submersible package station, purchasing a portable pump for emergency use, and installing a new four-inch ductile iron force main between the lift station and treatment cells #1 and #2.*

NAME OF RECIPIENT	Seeley Lake Sewer District	
TYPE OF PROJECT	Wastewater System Improvement	
FUNDING	\$ 500,000	TSEP Grant-District
	\$ 750,000	TSEP Grant-County
	\$ 100,000	RRGL Grant
	\$ 305,000	CDBG Grant
	\$1,750,000	STAG Grant
	\$1,443,000	WRDA Grant
	<u>\$ 262,000</u>	RD Loan
TOTAL	\$5,110,000	

PROJECT SUMMARY: The lack of a centralized wastewater system in Seeley Lake has resulted in the following problems: elevated nitrate levels in the groundwater in the areas of high density, increased algae concentrations and turbidity in Seeley Lake, elevated nitrates, phosphorus and fecal coliforms in the groundwater downgradient of the community, and increased nutrient loads facilitate eutrophication of the lake and increases water quality degradation. *Major elements of the project include: construct a new centralized wastewater collection and treatment system that would serve that portion of the district with the highest density. The proposed treatment system is an aerated lagoon with a storage cell and discharge using spray irrigation in the summer months in the adjacent forest. The district did not meet start-up conditions, funds ran out, and the grant was terminated.*

NAME OF RECIPIENT	Sheridan, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 500,000	CDBG Grant
	\$ 485,000	STAG Grant
	\$ 245,000	WRDA Grant
	\$ 423,000	SRF Loan
	<u>\$ 7,500</u>	Local Funds
TOTAL	\$2,260,500	

PROJECT SUMMARY: The town's water system had the following deficiencies: inadequate water supply, water mains were old and undersized, and were not capable of providing minimum recommended fire flows, some of the hydrants were inoperable, leak excessively, or were undersized, distribution lines leaked, with 44 repairs over a two year period, concrete storage tank roof was deteriorated, concrete storage tank leaked, coating on steel storage tank was worn and deteriorated, and the well field was rated a "high hazard" by the DEQ for agricultural contaminants and hazardous materials. *The project was completed and consisted of installing approximately 4,600 feet of eight-inch PVC and 8,000 feet of six-inch PVC mains, installing approximately 19 new fire hydrants, draining, inspecting, cleaning, grouting as necessary, and re-coating surfaces of both storage tanks, replacing roof structure of the concrete tank, installing service meters on nine high volume users, and drilling a test well to determine the feasibility of developing another water source.*

NAME OF RECIPIENT	Spring Meadows County Water District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 487,500	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 309,000	SRF Loan
	<u>\$ 117,149</u>	Local Funds
TOTAL	\$1,013,649	

PROJECT SUMMARY: The district's water system had the following deficiencies: peak demand could not be met with the two wells, there was no storage to provide fire protection or adequate water quantity to maintain water pressures during the irrigation season, well #2 pumped an excessive amount of sand into the distribution system, preventing the use of water meters, stagnant conditions existed and sand accumulated at two dead-end mains, very low pressures were regularly experienced during the irrigation season and the potential for negative pressures was high, and some individuals used booster pumps, which are illegal and create a high potential for backflow. *The project was completed and consisted of installing approximately 65 service meters for all users, constructing a 150,000 gallon concrete storage tank and a booster pump station, replacing well #2 with a new well, adding four fire hydrants, eliminating two dead ends, and constructing an administrative building.*

NAME OF RECIPIENT	St. Ignatius, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$1,513,000	RD Loan
	\$1,682,595	RD Grant
	\$ 500,000	CDBG Grant
	\$ 100,000	RRGL Grant
	<u>\$ 716,800</u>	STAG Grant
TOTAL	\$5,012,395	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: eleven BOD and TSS violations since 1998, the lagoon leaked over four times the state design standard resulting in degradation to groundwater and nearby surface water and wells, the single-cell facultative lagoon did not meet current state design standards requiring a minimum of two equally sized primary treatment cells and one secondary cell, the single-cell operation encouraged short-circuiting across the cell resulting in poor treatment efficiency, the existing system did not meet the design standard for detention time for facultative lagoons resulting in reduced treatment efficiency, BOD loading to the existing facultative ponds exceeded the state design standard resulting in poor treatment efficiency and possibly odor problems, the system failed to meet the discharge limit for fecal coliform colonies in the discharged effluent, the discharge was resulting in ammonia toxicity in the receiving water, and there was inflow from manholes and roof drains at the school during runoff or storm events. *The project was completed and consisted of constructing an aerated lagoon system, constructing a storage lagoon inside the existing facultative lagoon footprint, installing a liner in each of the lagoon cells, installing an ultraviolet light disinfection system, constructing about 15,000 feet of eight-inch gravity main to transmit treated effluent to the irrigation site, installing three effluent irrigation pivots, and installing sealed manhole covers.*

NAME OF RECIPIENT	Stillwater County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 399,853	TSEP Grant
	\$ 285,000	Local Funds
	<u>\$ 114,853</u>	In-kind
TOTAL	\$ 799,706	

PROJECT SUMMARY: The County had seven bridges (Orser Bridge, Fireman's Point Bridge, Lover's Lane Bridge, Jackstone Bridge, Centennial Bridge, Svenson Bridge and Weppler Bridge) with a variety of deficiencies. *The Jackstone Bridge was removed from the project. The project was completed and consisted of replacing the remaining bridges.*

NAME OF RECIPIENT	Sweet Grass County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 144,989	TSEP Grant
	\$ 65,736	Local Funds
	<u>\$ 79,253</u>	In-kind
TOTAL	\$ 289,978	

PROJECT SUMMARY: The county had three bridges (Yellowstone Trail Bridges: YT391 and YT536, and Wheeler Creek Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Upper-Lower River Road Water and Sewer District	
TYPE OF PROJECT	Water/Wastewater System	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 332,000	City CDBG Grant
	\$ 450,000	County CDBG Grant
	<u>\$ 543,160</u>	SRF Loan
TOTAL	\$1,925,160	

PROJECT SUMMARY: The lack of a centralized water and wastewater system in the project area was creating the following problems: on-site wastewater systems in the area were causing high levels of nitrate and ammonia in the drinking water wells, and area wells were naturally high in iron, sodium, sulfate and total dissolved solids. This is the second phase of a multi-phased project. *The project was completed and consisted of: installing approximately 9,300 feet of eight-inch PVC sewer main and 4,950 feet of four-inch and six-inch service line, installing approximately 8,400 feet of eight-inch PVC water main and 5,380 feet of ¾-inch service line, installing approximately 115 service meters, and installing 21 fire hydrants.*

NAME OF RECIPIENT	Valier, Town of	
TYPE OF PROJECT	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 600,000</u>	SRF Loan
TOTAL	\$1,200,000	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: aging and deteriorating collection system, continual plugging problems caused by roots and mineral deposits, joints not intact and susceptible to infiltration or exfiltration, and raw sewage could potentially leak into the groundwater. *The project was completed and consisted of: replacing and rehabilitating approximately 6,000 feet of clay piping by sliplining as much as possible or replacing clay tile with PVC, replacing and rehabilitating 17 manholes.*

NAME OF RECIPIENT	Whitefish, City of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 457,500	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,000,000	SRF Loan
	<u>\$ 616,300</u>	Local Funds

TOTAL \$2,173,800

PROJECT SUMMARY: The city's water system had the following deficiencies: two old and undersized water mains that layed under the railroad yard, one of which was unlined, that served the south portion of the city, causing severe access restrictions for maintenance, frequent leakage problems with the Texas Avenue pipe, diesel contamination of soils and groundwater in the vicinity of the Texas Avenue water main could potentially result in contamination of the city's drinking water, and if the Texas Avenue main were to fail, water modeling indicated that negative or very low pressures would have occurred in the southern portion of the system during fire flow events. This could have caused contamination of the water system from backflow. *The project was completed and consisted of replacing the old 12-inch Texas Avenue water main with approximately 650 feet of 18-inch main.*

NAME OF RECIPIENT	Woods Bay Homesites Lake County Water and Sewer District	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 443,100	RD Loan
	\$ 225,000	RD Grant
	<u>\$ 100,000</u>	RRGL Grant
TOTAL	\$1,268,100	

PROJECT SUMMARY: The district's water system has the following deficiencies: booster station and well pumphouse do not have backup pumps in violation of the DEQ 1 standards, well pumphouse's access, fire protection, and above ground construction do not meet the DEQ 1 standards, undersized and leaking distribution lines, which result in low water supply and pressure, dead-end distribution mains, inadequate storage facility capacity for fire flows, portions of the system operate at less than the DEQ minimum working pressure of 35 psi, lack of storage facility security, lack of service meters, and lack of fire hydrants. *Major elements of the project include: install approximately 2,400 feet of six-inch PVC and 10,500 feet of eight-inch PVC water main, install approximately 99 service connections and meters, install approximately 14 fire hydrants, upgrade pumphouses, and connect to the adjacent water district's (Sheaver's Creek) water system at two points with eight-inch PVC main, which would allow access to the 140,000 gallon storage tank that is to be constructed in the adjacent district. The project was completed in 2010.*

NAME OF RECIPIENT	Yellowstone County	
TYPE OF PROJECT	Bridge System Improvements	
FUNDING	\$ 187,800	TSEP Grant
	<u>\$ 187,800</u>	County Local
TOTAL	\$ 375,600	

PROJECT SUMMARY: The County's Five-Mile Creek Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

Projects Approved through the 2007 Legislative process

Fifty-seven applications requesting \$33,892,345 in TSEP funds were submitted for the 2009 biennium. The 2007 Legislative process approved 56 projects totaling \$32,631,715 in TSEP funds. Four projects were terminated as the grantee did not meet grant conditions. Three projects were declined by the grantee and recaptured by the program. **All projects have been completed.**

NAME OF RECIPIENT	Bainville, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 715,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 15,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 89,696	SRF Loan
	<u>\$ 80,000</u>	Local Funds
TOTAL	\$1,434,696	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: the lagoon leaked a considerable amount of wastewater to groundwater – about 85% of the wastewater entering the lagoons was lost through leakage, the lagoon dikes were severely eroded and in danger of failing, the clay tile collection pipes leaked excessively, and there was excessive infiltration and inflow into the system. *The project was completed and consisted of cleaning and videotaping all the sewer lines, replacing about 2,400 feet of sewer lines, constructing a three-cell facultative lagoon and providing a liner for all cells, disposing of the sludge, and providing for the final wastewater disposal through irrigation.*

NAME OF RECIPIENT	Big Sandy, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 662,000	RD Grant
	\$ 468,000	RD Loan
	<u>\$ 5,000</u>	Local Funds
TOTAL	\$2,335,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: infiltration of ground water into the system, resulting in extra pumping and treatments; the lift station is aging and unsafe; much of the collection system piping has inadequate slopes that do not meet current standards leading to accumulations of sludge, grit and dirt; there have been documented events of sewage backing up into basements; inadequate number of manholes that makes maintenance difficult; portions of the collection system piping are constructed of inadequate materials that do not meet current standards and are likely contributing to the infiltration problem; lift station backup generator must be turned on manually; several areas in Town are lacking access to sewer service; no provisions for addressing future nutrient permit limits such as nitrogen and phosphorous; the large storage cell does not contain a synthetic liner and may be leaking and contaminating groundwater; possible high ground water at the treatment site, which could complicate draining of cells for maintenance; pontoon aerators tend to freeze up during the winter; chlorine gas used for disinfection poses a safety risk to the operators; no provisions for measuring flow rate or for disinfecting effluent from the existing large storage cell; no provisions for influent flow measurement; the facility will not likely be able to meet total suspended solids (TSS) requirements in its new permit; and the facility has had four biological oxygen demand (BOD) permit violations since 1999. *The project replaced the lift station, replace the generator, replace or install approximately 17,000 feet of six, eight, 10, and 12-inch new sewer main, and replace or install approximately 48 manholes. The project was completed in early 2011.*

NAME OF RECIPIENT	Bigfork County Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$2,025,000	SRF Loan
	<u>\$ 396,965</u>	SRF Loan
TOTAL	\$3,171,965	

PROJECT SUMMARY: The district's wastewater system had the following deficiencies: the lift station components had exceeded their design life at three of the lift stations; infiltration of sewer lines; some of the lift stations and collection system interceptors had limited capacity for growth; the control system at the treatment plant, the headworks facility equipment and many mechanical components including blowers, pumps and motors were approaching the end of their typical 20-year design life; the cleaning mechanism motor for the bar screen at the treatment plant had burned out and the bar screen spacing was too large; corrosion was appearing on framing members of the headworks building at the treatment plant and the roof mounted exhaust fan was not operational; the lift station at the treatment plant had inadequate capacity to meet future wastewater flows; the existing trickling filters were not designed for nitrification, which raised concerns regarding compliance with a new discharge permit with strict ammonia, total nitrogen and phosphorus limits; and there were capacity and expansion concerns with the treatment plant. *The project was completed and consisted of replacing the headworks facility, upgrading the treatment plant lift station, upgrading treatment plant controls, and upgrading miscellaneous equipment in order to keep the existing treatment plant operational including pumps, blowers, motors and sludge collection mechanisms.*

NAME OF RECIPIENT	Black Eagle Cascade County Water & Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 365,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 270,000</u>	Local Funds
TOTAL	\$ 735,000	

PROJECT SUMMARY: The district's water distribution system had the following deficiencies: frequent water main breaks; failing mains due to age and pipe material; below standard valves, bury depth and looping; undersized mains; and galvanized steel and possibly lead service lines. *The project was completed and consisted of replacing approximately 225 feet of six-inch main, approximately 5,047 feet of eight-inch main, approximately 50 service lines, and installing 15 fire hydrants.*

NAME OF RECIPIENT	Blaine County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 617,017	TSEP Grant
	\$ 371,568	Local Funds
	<u>\$ 392,354</u>	Local Funds
TOTAL	\$1,235,321	

PROJECT SUMMARY: The County had three bridges (Battle Creek Bridge, Bagan Road Bridge, and Cherry Ridge Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges.*

NAME OF RECIPIENT	Brady County Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 322,070	CDBG Grant
	\$ 115,000	RRGL Grant
	\$1,106,936	RD Grant
	<u>\$ 460,000</u>	RD Loan
TOTAL	\$2,754,006	

PROJECT SUMMARY: The district's wastewater system has the following deficiencies: the lagoon was installed without a liner and is leaking; the discharge structure is leaking untreated effluent to land that is open to the public and is in violation of the DEQ permit; the influent pipe to cell #1 is very near the discharge structure causing short and inadequate treatment prior to discharge; sludge has never been removed from the lagoons, thereby reducing detention time; numerous aspects of the lagoon do not meet DEQ standards including lack of piping for flexibility, lack of controlled discharge structure, lack of low measurement device, and lack of adequate detention time; plugs have caused raw sewage to back up into residences; leaking joints in collection system allow the discharge of raw sewage to the groundwater; and leaking joints in collection system also allow for excessive infiltration during heavy precipitation events. *The proposed project would remove the existing sludge from the lagoons, reconfigure the existing lagoon system into two primary ponds and one secondary/storage pond, install spray irrigation for disposal of the treated effluent, and replace the entire collection system with new pipe. The project was completed in summer of 2010.*

NAME OF RECIPIENT	Butte-Silver Bow County	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$3,693,323	Natural Resource Damage Program Grant
	<u>\$ 481,108</u>	Local Funds
TOTAL	\$4,924,431	

PROJECT SUMMARY: The Butte-Silver Bow water system had the following deficiencies: water mains had reached the end of their useful life; water mains were undersized including two-inch diameter and smaller mains which could not convey the volume of water needed for the daily needs of the community or for fire flows; and leaking water mains. *The project was completed and consisted of replacing approximately 34,000 feet of water main.*

NAME OF RECIPIENT	Circle, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG Grant
	<u>\$ 404,400</u>	RD Loan
TOTAL	\$1,604,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: the existing wastewater treatment system is marginally functional and has eroded dikes, inoperable transfer piping, broken inlet piping, excessive leakage and no measurement device on the discharge line or means to determine a change in depth; and the new discharge permit will probably contain stricter limits on fecal coliform discharges that will require disinfection and monitoring requirements for ammonia; abilities that the existing facility does not currently have. *The proposed project would purchase land for the containment facility and reconfigure the existing lagoon system into a two-cell total containment (non-discharging) facility. The project was completed in summer of 2010.*

NAME OF RECIPIENT	Columbia Falls, City of
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PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,000,000	STAG Grant
	\$1,106,000	SRF Loan
	<u>\$ 954,000</u>	Local Funds
TOTAL	\$3,910,000	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: key components of the treatment plant have reached the end of their useful life; bar screen is at the end of the useful life; the grit removal system is at the end of its useful life and ventilation is not adequate; the aeration basin is at the end of its useful life and has experienced leaks; changing regulations will require year-round disinfection with no chlorine residual; inadequate storage capacity for biosolids; and lack of a backup power source. *The proposed project would install a new bar screen, install a new grit removal system and improve ventilation, construct a new biological treatment removal process, replace the existing chlorine system with an ultraviolet disinfection system, expand the biosolids storage and develop alternate means of disposal, and a standby generator. The project was completed in fall of 2010.*

NAME OF PROJECT	Crow Tribe for Crow Agency	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 769,646	RD Loan
	\$ 715,000	RD Grant
	\$ 1,100,000	ICDBG Grant
	\$ 450,000	CDBG Grant (Big Horn Co.)
	\$ 245,000	WRDA Grant
	\$ 292,000	Seabees (earthwork)
	<u>\$ 477,000</u>	STAG Grant
TOTAL	\$4,798,646	

PROJECT SUMMARY: Crow Agency's wastewater system has the following deficiencies: the existing lagoon does not provide adequate detention time to be a facultative lagoon, nor does it provide adequate aeration (mixing) to be an aerated lagoon; the existing wastewater treatment system is undersized for the current population and not capable of meeting current or future needs of the community; and the existing embankments need repair and additional rip rap. *The proposed project would construct a new aerated lagoon at an 80-acre site north of the existing lagoon. The project was completed in 2012 as outlined.*

NAME OF PROJECT	Custer County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 63,750	TSEP Grant
	\$ 38,119	Local Funds
	<u>\$ 25,631</u>	Local In-Kind
TOTAL	\$ 127,500	

PROJECT SUMMARY: The County's Trail Creek Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge with a culvert.*

NAME OF PROJECT	Cut Bank, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 550,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 250,000	WRDA Grant
	<u>\$ 210,000</u>	Local Funds
TOTAL	\$1,110,000	

PROJECT SUMMARY: The city's water system has the following deficiencies: Cut Bank Creek experiences rapid changes in turbidity and color and very low stream flows; during low flows of the Creek the city is forced to place restrictions on water use; existing off stream storage may not have sufficient capacity to meet demands during low flow events of long duration and there is a serious risk of running out of water; the treatment plant has no redundant backwash pump, no redundant flocculator, and the sedimentation basin is undersized; the distribution system has pipes that are undersized and corroded; much of the system has pipes that are undersized and corroded; much of the system has deficient fire flow capabilities; leakage in the distribution system and the frequency of repairs are very high; heavily corroded pipelines encourage the growth of biofilms, which harbor bacteria and makes it difficult to maintain a good chlorine residual; heavily corroded pipelines also inhibit flushing velocities; and low pressure could result in backflow and associated contamination. *The proposed project would expand existing off stream raw water storage by adding a new pond adjacent to the existing pond to double the pond volume and add a backwash pump. Because the city decided to join the regional water system, and this project as proposed was no longer necessary, the city was approved for a modified scope of work that had also been presented in the preliminary engineering report as the next phase. The modification included the installation of approximately 6,500 feet of 10-inch main, installation of approximately 700 feet of eight-inch main, and replacement of approximately 20 fire hydrants. The project was completed in summer of 2010.*

NAME OF PROJECT	Darby, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant

	\$ 100,000	RRGL Grant
	\$ 878,761	RD Grant
	\$1,871,465	RD Loan
	<u>\$ 93,000</u>	Local Funds
TOTAL	\$3,693,226	

PROJECT SUMMARY: The town's water system had the following deficiencies: the distribution system was leaking almost 70% of the water being pumped; the storage tank was grossly undersized; fire protection was inadequate; and dead-end lines were allowing water to become stagnant. *The project was completed and consisted of constructing a new 900,000-gallon water storage tank, installing approximately 20,000 feet of water main, drilling a new well, and installing chlorination disinfection system at the wells.*

NAME OF PROJECT	Dayton/Lake County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$2,066,100	WRDA Grant
	\$1,879,500	STAG Grant
	\$ 533,400	RD Loan
	<u>\$ 5,000</u>	District In-Kind
TOTAL	\$5,334,000	

PROJECT SUMMARY: The lack of centralized wastewater system in Dayton has resulted in the following problems; local flooding, which often occurs over existing septic drain fields, causes sewage to mix with flood waters and spread throughout the community, before draining into the Lake; subsurface septic tanks are often not working properly due to site conditions; groundwater used for drinking water supply has been contaminated, or will become contaminated in the future; and the potential exists for contaminating Flathead Lake. *The proposed project was to construct a collection system consisting of about 15,000 feet of pipe and two lift stations and construct a facultative lagoon system with disinfection and disposal by spray irrigation. However, the district did not meet start up conditions and the grant was terminated.*

NAME OF PROJECT	Ekalaka, Town of	
PROJECT TYPE	Water and Wastewater System Improvements	
FUNDING	\$ 706,369	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 100,000	RRGL Grant
	<u>\$ 156,369</u>	RD or SRF Loan
TOTAL	\$1,412,738	

PROJECT SUMMARY: The town's water and wastewater systems had the following deficiencies: the control panel of the main lift station had malfunctioned and caused sewage backups into some homes in the area; the single-pump lift station had electrical and float system problems and caused sewage to back up and flow into Russell Creek; the sewer along the Main Street corridor was installed at less than the minimum grade, which required an additional manhole, and the sewer pipe walls were peeling; and the water main along Main Street corridor and out to the reservoirs had a number of water breaks due to aging cast iron lines. *The project was completed and consisted of replacing approximately 3,650 feet of water main, replacing approximately 1,800 feet of sewer line, replacing the single pump lift station, and updating the controls at the main lift station.*

NAME OF PROJECT	Elk Meadows Ranchettes County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 410,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 475,000</u>	SRF Loan
TOTAL	\$ 985,000	

PROJECT SUMMARY: The district's water system has the following deficiencies: an inadequate supply of water for domestic and fire protection needs; an inability to provide adequate water during high demand periods and no redundancy provided by the wells; water shortages can occur if one well is out during periods of high demand; adequate water rights to meet existing and anticipated maximum demands are lacking; the water supply is corrosive and has violated regulatory standards for copper; part of the distribution system is undersized; there are no meters on service connections; modeling indicates that the undersized lines cannot provide adequate flow volume for fire protection; the upper pressure zone water storage tank lacks adequate volume for fire suppression design storage needs; the primary storage tank has been drained during high demand periods; and the existing system does not have provisions for auxiliary power. *The proposed project would drill one and, if necessary, two new wells, install second booster pump in upper pump station, install aeration equipment for corrosion control, loop mains and replace a portion of the existing undersized mains, install service meters, expand the middle storage tank, and upgrade the foundation for the upper storage tank. The project was completed.*

NAME OF PROJECT	Fairfield, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$1,000,000	STAG Grant
	<u>\$ 641,200</u>	SRF Loan
TOTAL	\$2,391,200	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: sewer backups occur on a regular basis; infiltration and inflow into the collection system and outfall piping create hydraulic overloading of the sewer mains and treatment facility; partially treated wastewater is apparently entering the shallow aquifer; seepage is occurring into the lagoon; the existing treatment system does not satisfy current DEQ design standards for detention time, leakage limits and biological oxygen demand (BOD) removal; the treatment facility has reported a number of permit violations over the previous 10 years; it does not appear that the existing system can adequately treat BOD or total suspended solids (TSS) to meet the impending DEQ discharge permit; and effluent disinfection may be required in the next DEQ permit. *The originally proposed project would have re-constructed the existing single-cell facultative lagoon with a three-cell aerated lagoon and ultraviolet disinfection, rehabilitated the remaining 66% of the outfall piping using cured-in-place pipe (CIPP) techniques, and performed televised inspections of the collection system and rehabilitated or replaced sewer mains, if funds were available. Due to funding shortfalls a reduced scope of work was approved, eliminating the lagoon and ultraviolet disinfection from the project. The project was completed in summer of 2010.*

NAME OF PROJECT	Fergus County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 238,362	TSEP Grant
	\$ 115,362	Local Funds
	<u>\$ 123,000</u>	Local In-Kind
TOTAL	\$ 476,724	

PROJECT SUMMARY: The County's Cottonwood Creek Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the existing bridge with a new precast, prestressed, bulb-tee superstructure on a steel pile foundation.*

NAME OF PROJECT	Fort Benton, City of	
PROJECT TYPE	Storm Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 778,000	SRF Loan
	<u>\$ 36,679</u>	Local Funds
TOTAL	\$1,564,679	

PROJECT SUMMARY: The city's storm water system had the following deficiencies: drainage grates at several intersections were too low causing potential safety and nuisance problems; surface runoff was ponding in the streets resulting in failure of adjacent street sections; there were 10 locations with 16 inlets where storm water was diverted directly into the sanitary sewer system, which is a violation of the DEQ standards; the added flow into the sanitary sewer system reduced the capacity of the existing lagoon and increases lift station pumping costs; the storm water inflow overloaded the sanitary sewer system and caused flooding of basements; the storm water inflow reduced the capacity of the sanitary sewer collection and treatment facilities; flooding conditions existed at surface drainage ditches during spring runoff; and inadequate drainage facilities resulted in standing water or icy streets, which created the possibility of drowning, breeding grounds for mosquitoes, or slips and falls. *The project was completed and consisted of installing new storm drain piping in the 10 areas that had storm drain inlets connected to the sanitary sewer system, installing new storm drains on 21st Street to eliminate the open ditch currently being utilized, and correcting other associated runoff problems in the area.*

NAME OF PROJECT	Goodan-Keil County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 532,250	TSEP Grants
	\$ 100,000	RRGL Grants
	\$ 38,150	Local Funds
	<u>\$ 475,000</u>	SRF Loan
TOTAL	\$1,145,400	

PROJECT SUMMARY: The district's water system had the following deficiencies: the existing 40,000-gallon concrete storage tank was grossly undersized for operational and fire needs; the district's existing booster station was unreliable and inefficient due to its dependency on a rotary phase converter; pipe failures and repairs were increasing in frequency and the ability to isolate individual wells is limited by the district's well field piping gallery; the original pipe installation from the well field to the booster station was undersized, of poor quality, the routing introduces significant frictional losses, and a series of ruptures had occurred which resulted in out-of-water situations; the casing on one of the district's supply wells protruded only six inches above surrounding grade; the spacing between fire hydrants on the existing distribution system made it difficult for the local fire department to get water quickly to all residences within the district; and the individual water meters on the system were suspected of becoming increasingly inaccurate and were manually read, which introduced error and consumes significant time during reading and billing. *The project was completed and consisted of replacing the existing 40,000-gallon tank with a new 150,000-gallon concrete storage tank, installing approximately 2,000 feet of three-phase conductor wire and converting the existing booster station to three-phase power, replacing well field piping and install proper valves and fittings, replacing approximately 2,000 feet of existing supply piping from the well field to the booster station with properly sized pipe utilizing an existing carrier pipe beneath Interstate 90 to reduce frictional losses, elevating the casing for well #3 to at least 18 inches above surrounding grade, installing seven new hydrants and isolation valves throughout the distribution system, and installing new meters with remote-read capabilities and automated billing software.*

NAME OF PROJECT	Hamilton, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant

	\$ 450,000	CDBG Grant (?)
	\$1,000,000	STAG Grant (?)
	\$1,742,000	SRF Loan
	\$ 100,000	RRGL Grant
	<u>\$ 625,000</u>	Local Funds
TOTAL	\$3,182,000	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: the mechanical bar screen at the treatment plant is worn and in disrepair; there is insufficient thickening capacity at the plant; the biosolids dewatering facilities have reached their capacity; electrical service entrance equipment and standby generator are worn and undersized; use of potable city water for treatment processed is a waste of resources and energy; and wastewater pumping stations are not incorporated into the radio telemetry alarm system. *The proposed project would install a new mechanical bar screen, install a second dissolved air flotation thickener unit, install additional vacuum biosolids dewatering, replace the existing engine generator and electrical service entrance equipment, install a non-potable water pumping station, and install radio based telemetry stations at each wastewater pumping station. The project was completed during the summer of 2010.*

NAME OF PROJECT	Gallatin County on Behalf of Hebgen Lake Estates	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 850,000	STAG Grant
	<u>\$1,069,000</u>	SRF Loan
TOTAL	\$2,769,000	

PROJECT SUMMARY: The Hebgen Lake Estates wastewater system has the following deficiencies: the lift station pumps are old and the electrical controls are outdated; the lagoon liner is leaking at a rate of 2.4 million gallons per year; nitrate levels in monitoring well #3 consistently exceed the water quality standard; the blowers and aeration piping have failed; the aeration building is in poor condition; the single-cell lagoon does not meet current design standards; and the perimeter fence is in disrepair. *The proposed project was to construct a new lift station, raise 20 collection system manholes to grade and replace lids, and construct a new wastewater treatment facility consisting of a facultative pond, a storage pond and disposal by crop irrigation. The district that was formed did not meet start up conditions and the grant was terminated.*

NAME OF PROJECT	Jefferson County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 295,800	TSEP Grant
	\$ 15,000	Local Funds
	<u>\$ 280,800</u>	Local Funds
TOTAL	\$ 591,600	

PROJECT SUMMARY: The County had six bridges (Lump Gulch Bridge, Sloan's Lane Bridge, High Valley Road Bridge, Forcella Road Bridge, Parrot Castle Road Bridge, and KG Ranch Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all six bridges.*

NAME OF PROJECT	Jordan, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 700,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 142,953	SRF Loan
	<u>\$ 15,000</u>	Local Funds
TOTAL	\$1,407,953	

PROJECT SUMMARY: The town's wastewater system had the following deficiencies: the wastewater facility was unable to comply with permitted discharge limits from DEQ by their April 1,2009 deadline; the lagoon embankments had extensive erosion from wind and ice formations; the control structures for routing wastewater between the lagoon cells were either significantly deteriorated or altogether inoperable and the original construction materials for the control structure were not compliant with current standards; an overflow in the wet well of the lift station discharged raw sewage to Big Dry Creek during power outages in direct violation of the Montana Water Quality Act; the wet well/dry well design of the lift station presented a health and safety hazard to Town personnel by creating a confined space in the dry well; the lift station itself was aged and nearing the end of its useful life; large sections of the collection system were originally constructed with slopes and pipe diameters that are less than the minimums required by current standards; and four damaged areas of the collection system had been documented. *The project was completed and consisted of reconfiguring and reconstructing the existing lagoon system into a three-cell facultative lagoon, constructing a new lift station with submersible pumps and an aboveground control building, and replacing four damaged sections of the collection system.*

NAME OF PROJECT	Judith Basin County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 190,215	TSEP Grant
	\$ 91,232	Local Funds
	<u>\$ 100,983</u>	Local In-Kind
TOTAL	\$ 384,430	

PROJECT SUMMARY: The County's Judith River Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

NAME OF PROJECT	Laurel, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	<u>\$3,882,500</u>	SRF Loan
TOTAL	\$4,632,500	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: the Main/Elm Street lift station is about 40 years old and in need of some updating and repair; the Village Sub lift station is about 20 years old and in need of some updating and repair; the treatment plant grit removal and headworks are aging, have some safety issues, and better technology is currently available; primary clarifier piping is inadequate during hydraulic surges and causes some operational problems; plant water supply system is inadequate for plant use and building fire protection; the secondary rotating biological contactor treatment system does not have adequate redundancy to allow for year round maintenance and may not have adequate treatment capacity to meet future flows; and the disinfection system at the treatment plant is not adequate to meet anticipated future discharge permit requirements. *The proposed project would replace the Main/Elm Street lift station, rehabilitate the Village Sub lift station, rehabilitate the grit removal and headworks facilities, improve the hydraulics of the primary clarifiers, improve the plant water systems to allow for process water and fire protection, and expand the existing rotating biological contactor system. The project was completed as proposed and closed out June 2016*

NAME OF PROJECT	Lewis and Clark County for the Woodlawn Park Addition	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 596,420	TSEP Grant
	\$ 254,097	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 355,372	SRF Loan
	<u>\$ 369,467</u>	Local Funds
TOTAL	\$1,675,356	

PROJECT SUMMARY: The Lewis and Clark County Fairgrounds/Dunbar area water systems had the following deficiencies: the water supply did not provide adequate fire flows; wells sampled at the fairgrounds and the Woodlawn Park Addition show elevated nitrate levels; a convenience store with a public water supply well had repeated high nitrate levels and was required by DEQ to use a filtration system to lower levels; and fire protection for both the Woodlawn area and the AGC facility were not adequate because of the lack of hydrants. *The project was completed and consisted of constructing approximately 2,700 feet of water line and valves to connect the existing water system on the eastside of the fairgrounds to the Northgate meadows development water main, constructing approximately 4,300 feet of water main with valves and hydrants to service the fairgrounds campground area, north barn area and rodeo grounds, constructing approximately 100 feet of water main and valving for Woodlawn Park's portion of the Green Meadow Loop connection, constructing approximately 6,900 feet of water mains with valves and hydrants within the Woodlawn Park Addition and connecting those mains to the city mains, and constructing a water service line, valve and hydrant to the AGC facility and connecting to the existing city water main.*

NAME OF PROJECT	Madison County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 370,100	TSEP Grant
	\$ 353,314	Local Funds
	<u>\$ 16,786</u>	Local In-Kind
TOTAL	\$ 740,200	

PROJECT SUMMARY: The County had four bridges (Coy Brown Bridge, the Cherry Creek Bridge, the South Boulder Bridge, and the Bear Creek Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all four bridges.*

NAME OF PROJECT	Manhattan, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 600,000	TSEP Grant
	\$ 115,000	RRGL Grant
	\$ 395,000	SRF Loan
	<u>\$ 117,000</u>	Local Funds
TOTAL	\$1,227,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: undersized distribution lines, no storage facilities, potential for backflow, insufficient fire flow, insufficient security at the chlorination house, no automated backup power at three of the wells, and no water meters at individual services. *The proposed project would install telemetry and backup power at each source, fence the chlorination house, and install approximately 700 service meters with backflow prevention devices for all users. The project was completed in the summer of 2010.*

NAME OF PROJECT	Mineral County/Saltse Water and Sewer District	
PROJECT TYPE	Wastewater System	
FUNDING	\$ 390,000	TSEP Grant

	\$ 100,000	RRGL Grant
	\$ 424,000	CDBG Grant
	<u>\$ 45,800</u>	SRF Loan
TOTAL	\$ 959,800	

PROJECT SUMMARY: The lack of a centralized wastewater system in Saltese has resulted in the following deficiencies: it is difficult or impossible to find sufficient space to locate replacement drainfields and maintain the proper separation between property boundaries and individual drinking wells; groundwater is very shallow and could be susceptible to contamination; the existing septic tanks and drainfields, in some cases, are submerged in groundwater or at the water table elevation; many of the older septic tanks are suspected to be leaking; and the county will not allow development utilizing on-site septic systems on vacant lots less than 0.5 acre. *The proposed project was to construct a standard gravity collection system consisting of about 5,300 feet of eight-inch PVC sewer main and service lines, and manholes, bore under Interstate 90 with one gravity sewer pipe, construct a raw sewage lift station, install a common septic tank with discharge of effluent to groundwater via a dosed drainfield at the treatment and disposal site, and abandon all existing septic tanks. However, the district did not meet start up conditions and the grant was terminated.*

NAME OF PROJECT	Neihart, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 223,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 100,000	CDBG Grant
	<u>\$ 25,000</u>	Local Funds
TOTAL	\$ 448,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: the O'Brien Creek main, which consists of 113 year-old cast iron pipe with caulked lead joints and is buried only two to four feet deep, has had frequent breaks; the O'Brien Creek main is fully exposed where it crosses Belt Creek and is susceptible to freezing and flood damage; and the treatment plant has often been in violation of turbidity limits because of sudden changes in raw water quality. *The proposed project would replace 4,200 feet of the O'Brien Creek main and modify the controls and chemical feet at the treatment plant by purchasing and installing an ion sensor and paced chemical metering pump. The project was completed in the spring of 2011.*

NAME OF PROJECT	North Valley County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$1,609,000</u>	RD Loan
TOTAL	\$2,459,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: frequent water main and service line breaks; several hydrant and valve repairs; increased flows to the wastewater treatment pond due to basement flooding; water meters difficult to access; and no supervisory control and data acquisition system to monitor the elevation in the reservoirs. *The project was completed and consisted of replacing mains, hydrants and valves in two of the more highly populated areas of St. Marie.*

NAME OF PROJECT	Panoramic Heights and Mountain River Heights County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 191,500	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 120,000</u>	SRF Loan
TOTAL	\$ 411,500	

PROJECT SUMMARY: The district's water system had the following deficiencies: the water supply did not satisfy peak hour demand and did not have storage capacity; the inadequate supply resulted in water rationing during the summer months and low pressures during peak flow conditions; the system did not comply with the DEQ design standards to meet maximum day demand with the largest pump out of service; pressures dropped below 20 psi during peak low demands creating a possible backflow situation; the distribution system included dead-end and small diameter lines that did not allow adequate flushing and cleaning of the system; the small diameter lines did not meet DEQ design standards for minimum size of pipe or for pressure rating; there were no individual water meters, which lead to increased usage during irrigation periods; and the distribution system leaked. *The project was completed and consisted of drilling a new well and installing a pump, controls and piping to the control building, replacing the existing water main with about 2,200 feet of six-inch PVC pipe, installing three flushing hydrants, and installing water meters on each service.*

NAME OF PROJECT	Pinesdale, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 251,918	RD Grant
	<u>\$1,082,620</u>	RD Loan
TOTAL	\$2,634,538	

PROJECT SUMMARY: The town's water system had the following deficiencies: inadequate fire protection; inadequate water storage; lack of fire hydrants; undersized mains to supply water to fire hydrants; lack of water meters leading to high usage; dead-end water mains; and the distribution system experienced pressure extremes. *The project was completed and consisted of removing the existing southwest tank, installing a new tank adjacent to the existing water treatment plant, installing pressure-reducing valves throughout the distribution system, installing a water line from the new tank to the location of the existing southwest tank, installing meters, and adding three new hydrants to the system.*

NAME OF PROJECT	Polson, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$1,072,750</u>	SRF Loan
TOTAL	\$1,922,750	

PROJECT SUMMARY: The city's water system has the following deficiencies: an insufficient water supply to meet future growth; deteriorated and undersized mains in the downtown area; insufficient storage in the upper and middle pressure zones; low pressures have occurred near existing storage tanks where adequate pressure head is not available; two of the existing water storage tanks have severe concrete deterioration including spalling concrete, exposure of rebar, and exhibit the potential for complete failure; insufficient water supply for fire protection in the area around the high school; and insufficient pressures, quantities and hydraulic restrictions that inhibit the ability to supply fire protection to businesses. *The proposed project would construct a new 500,000-gallon concrete tank to replace the existing deteriorated tanks, upgrade existing mains and construct a booster station within the Mission View area, construct a main connecting a new hydrant to an existing 12-inch main to immediately supplement the available fire flows of existing hydrants in the area of the high school. The project was completed in the fall of 2011.*

NAME OF PROJECT	Powell County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 263,074	TSEP Grant
	\$ 162,698	Local Funds
	\$ 18,903	Local In-Kind
	<u>\$ 81,473</u>	Private Funds
TOTAL	\$ 526,148	

PROJECT SUMMARY: The county had four bridges (Old Stage Road Bridge, the West River Road Bridge, the Yellowstone Trail Bridge [over Racetrack Creek], and the Yellowstone Trail Bridge [over the Branch Irrigation Ditch]) with a variety of deficiencies. *The project consists of replacing all four bridges. The bridges were completed in the summer of 2010.*

NAME OF PROJECT	Power-Teton County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 604,286	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 245,000</u>	WRDA Grant
TOTAL	\$ 949,286	

PROJECT SUMMARY: the district's water system has the following deficiencies: dead end distribution lines that cannot be adequately flushed and cleaned; large areas of the distribution system have to be shut down during repair operations; deteriorated pavement due to construction of the first two phases of the project; undersized mains that are at the end of their service life and do not provide adequate fire flows; and elevated total organic carbon in raw water with taste and odor problems and the potential for the formation of trihalomethanes and haloacetic acids. *The proposed project would install approximately 2,500 feet of six-inch water main and approximately seven new fire hydrants to complete system looping, install approximately 5,300 feet of pipe in the Hill Avenue Area and eliminate all dead end lines along Central Avenue and 1st Street, install fencing and the re-sedimentation basin, rehabilitate pavement from earlier distribution improvements, install approximately 9,200 feet of transmission main, and add a granular activated carbon filter. The project was completed in summer of 2010.*

NAME OF PROJECT	RAE Subdivision County Water and Sewer District No. 313	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 140,301	SRF Grant
	<u>\$ 167,750</u>	Local Funds
TOTAL	\$1,608,051	

PROJECT SUMMARY: The district's water system has the following deficiencies: lack of water storage; lack of centralized control system for the individual wells; inability to provide flows sufficient for fire protection; the distribution system within a portion of the system is undersized and leaks; and insufficient supply to meet peak hour demand when the largest well is out of service. *The proposed project would construct a new 380,000-gallon water storage tank, add a supervisory control and data acquisition system, install a new eight-inch water main throughout the undersized portion of the system, and install new water lines from the two main wells to the storage tank. The project was completed in spring of 2011.*

NAME OF PROJECT	Red Lodge, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$4,304,715	RD Loan
	\$ 337,500	STAG Grant
	<u>\$ 92,000</u>	Local Funds
TOTAL	\$5,584,215	

PROJECT SUMMARY: The city's water system had the following deficiencies: undersized and aged distribution lines; insufficient storage; potential water shortage during peak flow or fire flow conditions; insufficient number of hydrants; significant leakage in the distribution system and in the transmission lines; and the potential for contamination because a loss of system feed pressure at the plant could create negative pressures in the transmission lines. *The project was completed and consisted of replacing about 9,100 feet of undersized mains, installing a 300,000-gallon concrete storage tank at the water treatment plant, installing nine new fire hydrants and upgrade four hydrants, and replacing about 9,800 feet of transmission line.*

NAME OF PROJECT	Seeley Lake-Missoula County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 240,000	WRDA Grant
	\$ 3,000	Local
	<u>\$2,721,000</u>	SRF Loan
TOTAL	\$3,814,000	

PROJECT SUMMARY: The district's water system has the following deficiencies: the current peak water demands exceed the capacity of the existing water distribution system to maintain the minimum system pressures; available fire flows are inadequate through out the system as a result of undersized transmission main from the treatment facility to the main part of the community; the system storage is inadequate to meet the minimum fire requirements; and the system experiences excessive levels of disinfection by-products. *The proposed project would construct a new 500,000-gallon water storage tank, construct a new high-service pump station to deliver water to the new tank, replace the 12,000-foot water transmission line between the treatment facility to the main part of the community, install about 3,000 feet of distribution mains, install three additional hydrants, and modify the disinfection process by installing a chloramine system to reduce the levels of disinfection by-products. The project was completed in summer of 2011.*

NAME OF PROJECT	Shelby, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 650,000</u>	SRF Loan
TOTAL	\$1,500,000	

PROJECT SUMMARY: The city's water system had the following deficiencies: original water lines are deteriorating, resulting in leaks and major breaks; undersized and dead-end distribution lines; a well field is in the floodplain of the Marias River; and shallow wells that are susceptible to contamination. *The project was completed and consisted of replacing approximately 2,900 feet of aged and undersized water main with larger pipe in the 4th Avenue North connector, replacing approximately 3,500 feet of aged and undersized water main with larger pipe in the core area of town, installing approximately 3,000 feet of new water main to loop dead-end lines, and constructing a 100-foot radius impervious surface around wells and seal casings. The project was completed in the spring of 2011.*

NAME OF PROJECT	Sheridan, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 560,000	RD Grant
	<u>\$1,140,000</u>	RD Loan
TOTAL	\$2,550,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: the wastewater discharge exceeds the permitted biochemical oxygen demand (BOD) concentrations; solids are forming in the discharge channel; wastewater leaks through the north embankment of the lagoon; wastewater appears to leak through the pond bottom in excess of DEQ standards; the lagoon is severely biologically and hydraulically overloaded; the outlet weir structure is deteriorated resulting in inaccurate flow measurements; the existing lagoon is severely undersized for the town's expansion; the existing lagoon property lacks room for replacement or expansion; and the collection system experiences a significant increase in groundwater infiltration during the summer months, which exacerbates the treatment overloading problem. *The proposed project was to rehabilitate about 7,000 feet of sewer main by relining the pipe and acquire additional land and construct a new three-cell, aerated lagoon. The town did not meet start up conditions and the grant was terminated.*

NAME OF PROJECT	Stillwater County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 407,500	TSEP Grant

	<u>\$ 407,500</u>	Local Funds
TOTAL	\$ 815,000	

PROJECT SUMMARY: The County had two bridges (Red Bridge and Phelps Bridge) with a variety of deficiencies. *The project consists of replacing both bridges. The project was completed in fall of 2011.*

NAME OF PROJECT	Sunny Meadows – Missoula County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 325,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 64,500	Local Funds
	<u>\$ 178,000</u>	SRF Loan
TOTAL	\$ 667,500	

PROJECT SUMMARY: The district’s water system had the following deficiencies: wells did not provide enough capacity and the district ran out of water in the summer; storage quantity was insufficient for operational and fire flow demand; booster station was substandard resulting in the potential for backflow contamination; a portion of the storage tank was not useable due to the booster station piping configuration; joints at top of concrete walls of tank were allowing contamination into tank; a portion of the water meters (22 out of 53) were old and not compatible with newer meters; inadequate fire flows in the distribution system; miscellaneous pump, valve and alarm problems; and the combination of storage and booster deficiencies that increased the likelihood of backflow contamination. *The project was completed and consisted of constructing a new 125,000-gallon storage tank, installing a new booster station, replacing approximately 22 water meters, installing new pumps in water wells, installing new water system control and alarms, and replacing miscellaneous valve house components.*

NAME OF PROJECT	Superior, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 600,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 297,532	SRF Loan
	<u>\$ 238,500</u>	Local Funds
TOTAL	\$1,236,032	

PROJECT SUMMARY: The town’s water system has the following deficiencies: widespread use of old and undersized water mains, not capable of carrying adequate flows for fire protection and limited service for domestic needs; a portion of the town has not fire protection; inadequate storage for fighting large fires; and unaccounted water losses in the system with much of the leakage suspected to originate from the old mains and services. *The proposed project would replace approximately 6,000 feet of older undersized mains in five locations throughout the community and install new hydrants, valves and other appurtenances. The project was completed in the summer of 2010.*

NAME OF PROJECT	Sweet Grass County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 141,193	TSEP Grant
	\$ 109,425	Local Funds
	<u>\$ 42,068</u>	Local In-Kind
TOTAL	\$ 302,986	

PROJECT SUMMARY: The County had six bridges (Dry Creek Bridge, Glaston Lake Road Bridge, Otter Creek Bridge, Stephens Hill Bridge, Tony Creek Bridge, and Wheeler Creek Bridge) with a variety of deficiencies. *The project consists of replacing all six bridges. After investigating and evaluating road ownership at Glaston Lake Road Bridge, the County chose not to move forward with its replacement. The replacements of the other five bridges were completed in 2012.*

NAME OF PROJECT	Thompson Falls, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 363,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 137,250	SRF Loan
	<u>\$ 135,000</u>	Local Funds
TOTAL	\$ 735,250	

PROJECT SUMMARY: The city’s water system had the following deficiencies: leaky, undersized water mains in portions of the city; inadequate fire protection and low pressures during fire events; potential for backflow events and cross connections; and dead-end water mains. *The project was completed and consisted of: installing approximately 2,800 feet of water mains to replace undersized mains and loop zones in the northwest portion of the city, installing approximately 2,000 feet of water mains to replace undersized mains in the northeast portion of the city, installing new service lines to the property lines and water service meter pits in conjunction with main line replacements, installing 11 new fire hydrants, and upgrading the disinfection system.*

NAME OF PROJECT	Three Forks, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,350,000	STAG Grant

	<u>\$1,338,738</u>	SRF Loan
TOTAL	\$3,538,738	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: the treatment facility does not meet minimum detention times required by the DEQ standards; the storage cell leaks about 15 times the current DEQ standard; marginally treated wastewater is not likely reaching the groundwater, which may impact the swimming/fishing ponds that are located only 500 feet down gradient of the lagoons; the effluent discharge lift station at the treatment facility, which was designed to pump the treated water to the Madison River located one mile away, is no longer operational; the level control structure at the treatment facility is no longer operational; disinfection will be required to meet the fecal coliform limit in the next discharge permit; the lagoon discharge outfall at the river is poorly configured and results in odors; the collection system experiences excessive flow due to infiltration and inflow; and pumps in the main lift station are nearing the end of their useful life. *The proposed project was to construct a three-cell aerated lagoon system and a two-cell constructed wetland with continuous discharge to the Madison River, install an ultraviolet disinfection system, install new pumps at the effluent discharge station and reconfigure the discharge outfall, and replace pumps in the main lift station. The city decided to not move forward with the project and the grant was terminated.*

NAME OF PROJECT	Tri-County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 313,500	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 213,500</u>	Local Funds
TOTAL	\$ 627,000	

PROJECT SUMMARY: The district's water system had the following deficiencies: the system did not meet DEQ standards for groundwater systems, requiring a minimum of two water sources be available to provide redundancy in case of the loss of a source; the system did not meet DEQ standards requiring that the total developed groundwater source capacity be equal to or exceed the design maximum day demand with the largest producing well out of service; water levels in the well dropped to just a few feet above the collector laterals during drought periods and in the early spring; the existing system was undersized for peak demands and operating pressures did not meet minimum DEQ required pressures for all portions of the distribution system; and portions of the system ran out of water completely during peak demand periods. *The project was completed and consisted of constructing an additional infiltration gallery, wet well and pump house to provide additional supply capacity and redundant water supply, replacing approximately 20,000 feet of undersized distribution system piping, and installing a new booster station to provide sufficient pressures at a high point in the system.*

NAME OF PROJECT	Twin Bridges, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$2,013,750	RD Grant
	\$ 671,250	RD Loan
	<u>\$ 70,000</u>	Local Funds
TOTAL	\$4,055,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: marginally treated wastewater is being discharged to surface waters because of inadequate detention time at existing flows; disinfection is not presently provided, but is anticipated to be required with any discharging facility in future permit requirements; the existing discharge does not meet the water quality standards for ammonia; the town will exceed the non-degradation limits with any more growth or improved treatment; and about two blocks of collection main have inadequate slopes that result in standing water in the main. *The proposed project would add a lined storage lagoon to the existing facultative lagoon, install a spray irrigation system, and replace approximately 1,200 feet of sewer main, four manholes, two sewer cleanouts on Ninth Avenue and add auto-dialers to the satellite lift stations. The bids for the project came in under bid and TSEP did not pay for any construction. The funds were returned to TSEP in the fall of 2012.*

NAME OF PROJECT	Whitefish, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$2,211,000	SRF Loan
	<u>\$ 687,000</u>	Local Funds
TOTAL	\$3,748,000	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: an inefficient and dangerous pretreatment process consisting of a manually-cleaned bar screen in a confined space; the inability to bypass the main lift station for necessary wetwell cleaning and maintenance; lack of redundancy in the phosphorous removal process; and various deficiencies including the main lift station capacity, the condition of the existing flocculating clarifier and the effluent diffuser, biosolids disposal, and eroded dikes. *The proposed project would construct a new building adjacent to the main lift station that will house an automated rotary screen pretreatment process, install a new basin downstream of the new screening system that will be plumbed for use in bypassing the main lift station to allow for inspection, cleaning and maintenance of the wetwell, and construct another flocculating clarifier. Project was completed in fall of 2010.*

NAME OF PROJECT	Whitehall, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 820,500	STAG Grant
	\$1,161,600	SRF Loan
	\$ 100,000	RRGL Grant
	<u>\$ 180,000</u>	Local Funds
TOTAL	\$3,462,100	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: the existing facultative lagoon system is severely undersized and does not meet DEQ standards for discharging facultative lagoons; the lagoons leak approximately 10 to 12 times the DEQ standard resulting in a discharge of inadequately treated wastewater into the groundwater aquifer; the existing discharge does not meet existing water quality standards for ammonia, resulting in ammonia toxicity in the receiving water at low flow conditions; the existing discharge cannot meet the anticipated total maximum daily load (TMDL) allocation for Big Pipestone Creek; four storm water inlets connected to the sanitary sewer collection system have been identified resulting in inflow sources to the sewer system; the wastewater treatment system is under capacity for the existing flows, and therefore, cannot accommodate new residential development; excess sludge has accumulated in the lagoons, which reduces the treatment capacity of the lagoons and results in discharge of inadequately treated wastewater; and old clay tile mains and a transmission main are deteriorated allowing groundwater to enter the system. *The proposed project would replace the existing treatment system with a facultative lagoon, storage lagoon, and slow rate land application system, install liners in the new lagoons, install storm sewer improvements to move the four storm water inlets from the gravity sewer collection system to the storm sewer collection system, rehabilitate four sections of collection main, and video inspect and clean approximately 15,000 feet of the original clay tile main system and renovate the mains through a combination of lining and spot repairs.* The project was completed in Fall 2015.

NAME OF PROJECT	Yellowstone County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 97,079	TSEP Grant
	<u>\$ 97,079</u>	Local Funds
TOTAL	\$ 194,158	

PROJECT SUMMARY: The County's 11th Street Bridge had a variety of deficiencies. *The project was completed and consisted of replacing the bridge.*

Projects Approved through the 2009 Legislative process

Sixty-five applications requesting \$33,757,542 in TSEP funds were submitted for the 2011 biennium. The 2009 Legislative process approved 66 projects totaling \$32,623,541 in TSEP funds. **All projects have been completed.**

NAME OF RECIPIENT	Beaverhead County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 290,668	TSEP Grant
	\$ 15,000	County (cash)
	\$ 251,509	County (cash)
	<u>\$ 24,159</u>	County (in-kind)
TOTAL	\$ 581,336	

PROJECT SUMMARY: The County had three bridges (Nissen Lane Bridge, Carrigan Lane Bridge, and Frying Pan Road Bridge) with a variety of deficiencies. *The project was completed and consisted of replacing all three bridges with three-sided concrete box culverts.*

NAME OF RECIPIENT	Big Sandy, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 450,000	CDBG Grant
	\$ 100,000	RRGL Grant
	\$ 22,000	Town (cash)
	\$1,218,157	RD Grant
	<u>\$ 416,858</u>	RD Loan
TOTAL	\$2,707,015	

PROJECT SUMMARY: The town's wastewater system has deficiencies that include significant infiltration to old clay collection pipes; several areas of town are lacking access to sewer service; insufficient number of manholes; no provisions for addressing future permit limits for nutrients; the existing large storage cell does not contain a synthetic liner and may be leaking and contaminating groundwater; likely high ground water at the treatment site, which could complicate draining of cells for maintenance and also increases the potential for groundwater contamination; the existing pontoon aerators tend to freeze up during the winter; the facility has had four permit violations since 1999; the chlorine gas used for disinfection poses a risk to the safety of maintenance personnel; no provisions for measuring flow rate or for disinfecting effluent from the existing large storage cell; and no provisions for influent flow measurement. *The proposed project would construct a new storage cell, and install a new spray irrigation system and remove sludge. The project was completed as proposed in fall of 2015.*

NAME OF RECIPIENT	Bigfork County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 10,000	RRGL Grant
	\$4,770,000	SRF Loan
	<u>\$ 14,000</u>	District (cash)
TOTAL	\$5,634,000	

PROJECT SUMMARY: The district's wastewater system deficiencies include plant capacity that is not large enough for the community (especially during the summer months), the existing treatment facility was not designed for nitrification, which raises concerns regarding compliance with a new discharge permit with strict ammonia, total nitrogen and phosphorus limits, some of the lift stations and collection system interceptors have limited capacity for growth, and excessive infiltration of sewer lines. *The proposed project constructed an advanced membrane bioreactor treatment system. The project was completed as proposed in the summer of 2012.*

NAME OF RECIPIENT	Blaine County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 384,160	TSEP Grant
	\$ 194,092	County (cash)
	<u>\$ 202,300</u>	County (in-kind)
TOTAL	\$ 780,552	

PROJECT SUMMARY: The County had three bridges (Yantic Road Bridge, Thirty-Mile Road Bridge, and Forgey Road Bridge) with a variety of deficiencies. *The proposed project would replace the Yantic and Thirty-Mile Road Bridges with aluminum box culverts and remove the Forgey Road Bridge and close the route. All three bridges were completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Bozeman, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$19,073,000	SRF Loan
	\$ 5,000,000	STAG Grant
	<u>\$33,392,000</u>	City (cash)
TOTAL	\$57,965,000	

PROJECT SUMMARY: The wastewater treatment facility in Bozeman was originally constructed in 1970. The treatment facility, which utilizes an activated sludge process, has been expanded or modified five times. The proposed project is the first of three phases; the next phase would address even more stringent permit limits and additional growth. The city's wastewater system has the following deficiencies: treatment facility has severe capacity limitations; inadequate land area for sludge disposal; aging equipment within the facility, and stringent ammonia, nitrogen and phosphorous limits that were recently imposed on the facility. *The proposed project would construct a new headworks building; construct a new primary effluent lift station; construct a new biological nutrient reactor (BNR) bioreactor basins with advanced nutrient removal capacity; modify the existing aeration basins and add aeration system capacity including modifications to the blower building; construct two new 85-foot diameter clarifiers and a new sludge pump station; install a new ultraviolet light (UV) disinfection and standby power system; install a new chlorine feed system; install a new 42-inch outfall pipeline; construct new anaerobic digester and digester control building; construct new dewatering and solids storage facility, and construct a new fermentation unit. The project was completed and closed out Winter 2016. Project was completed as proposed and closed out in March 2016.*

NAME OF RECIPIENT	Bridger Pines County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 400,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 8,500	Local (cash)
	<u>\$1,235,000</u>	SRF Loan
TOTAL	\$1,743,500	

PROJECT SUMMARY: The district's wastewater system has deficiencies including safety risk at the lift station due to inadequate electrical system; lack of backup power at the lift station; sludge build-up at the primary cell; no method for managing the sludge; the liners at the primary and aerated cells are leaking, and the aerated cell periodically overflows onto the ground. *The proposed project constructed new sewer lines that would connect to a new treatment system, and contribute to the construction of a membrane bioreactor system with disposal of effluent in rapid infiltration basins. The project was completed as proposed.*

NAME OF RECIPIENT	Broadview, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 67,000	RD Grant
	<u>\$ 107,000</u>	RD Loan
TOTAL	\$1,224,000	

PROJECT SUMMARY: The town's water system has inadequate source quantity; source water quality is aesthetically displeasing and cannot be used for irrigation because of high sodium levels; source water is reportedly corrosive and causes damage to the steel components of the wells; on-grade water storage facility results in low system pressures that can allow back-pressure/back-siphonage; storage facility is of low volume resulting in little or no fire protection for the town; no auxiliary power to either of the existing wells, and present water rights are insufficient for current diversions and annual produced volume. *The proposed project would construct three new wells approximately eight miles west of town, install approximately 42,000 feet of transmission main to tie the wells into the existing distribution network, and install water meters. The project was closed out in June 2014.*

NAME OF RECIPIENT	Brockton, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	UNKNOWN	
TOTAL	UNKNOWN	

PROJECT SUMMARY: This project was added by the Legislature. No preliminary engineering study had yet been started, and therefore, the deficiencies of the existing lagoon system are unknown. *The proposed project would construct a new wastewater treatment facility. Project did not meet start up conditions by 6/30/2011. Project terminated.*

NAME OF RECIPIENT	Bynum/Teton County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 567,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 195,000	CDBG Grant
	\$ 500,000	RD Grant
	\$ 18,000	RD Loan
	<u>\$ 70,000</u>	BOR Grant
TOTAL	\$1,450,000	

PROJECT SUMMARY: The lack of a drinking water system in the district has resulted in the following problems: no central water source, distribution system, storage or provision for fire protection; two shallow wells have a documented history of maximum contaminant level violations for nitrate and total coliform, and reported decreasing well water-levels associated with diminished ground-water recharge because of drought and/or

changes in irrigation practices. *The proposed project would install two wells and approximately 23,650 feet of transmission main to the storage tank; install point-of-use reverse osmosis (RO) cartridge filters at 26 service connections to remove fluoride; install individual water meters; install a 20,000-gallon fiberglass buried storage tank, and install approximately 10,500 feet of PVC distribution system. The project was completed and closed out in March 2014.*

NAME OF RECIPIENT	Carbon County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 492,915	TSEP Grant
	\$ 15,000	County (cash)
	\$ 439,833	County (cash)
	<u>\$ 38,082</u>	County (in-kind)
TOTAL	\$ 985,830	

PROJECT SUMMARY: The County had five bridges (East Rosebud Creek Bridge, Tuttle Lane Bridge, South River Road Bridge, Fourth Street Bridge, and Clear Creek Road Bridge) with a variety of deficiencies. *The proposed project would replace the five existing bridges with the following types of structures: the East Rosebud and Tuttle Lane Bridges with a single-span, precast concrete superstructures, founded on piles; the South River Road Bridge with a single-span, precast concrete superstructure, founded on a grade beam; the Fourth Street Bridge with a precast reinforced concrete box culvert and the Clear Creek Road Bridge with a corrugated steel pipe culvert. The bridges were replaced as proposed in the summer of 2012.*

NAME OF RECIPIENT	Carter/Chouteau County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	<u>\$ 850,000</u>	WRDA Grant
TOTAL	\$1,600,000	

PROJECT SUMMARY: The district's water system has the following deficiencies: leaks have had to be repaired at an increasing rate in areas in Carter and Floweree along with areas in the north portion of the system; each time a leak repair is made, the entire distribution system has been shut down for several days to facilitate the repairs and pipeline replacement; leakage results in unnecessarily high energy and operation and maintenance cost, and the continual repair of the leaks in the system increases the possibility of contamination being introduced into the system. *The proposed project would replace an additional 95,000 feet of pipe ranging from one to three inches in diameter, and install new booster pump control valves to address pressure surges within the distribution lines. Project completed as proposed in spring 2011.*

NAME OF RECIPIENT	Cascade, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 168,000	SRF Loan
	\$ 50,000	Town (cash)
	<u>\$ 10,000</u>	DNRC Grant
TOTAL	\$1,403,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: leakage problems with an average of 45% unaccounted-for water; over 50% of the water distribution system is comprised of four-inch steel and cast iron water mains that are 93 years old and electrolysis of steel pipes has caused corrosion that subsequently allows entry of contaminants and increases the amount of unaccounted-for water; undetected leaks, the leak repair process, and possible low or negative pressures, especially during periods of high demand, increase the potential for backflow/back-siphonage and contamination of the public water supply from outside sources; iron deposits from tuberculation decrease the effective pipe diameter and create additional pressure losses in the system; some water mains are not looped, which results in stagnant water; no auxiliary power is available to provide well pump operation and supply water in case of an extended power outage or failure, and old and undersized water mains flow as much as 10 times less than the recommended fire flow requirements. *The proposed project would replace approximately 8,000 feet of distribution main, and install a generator to provide auxiliary power to existing well pumps. Project was completed as proposed in spring 2011.*

NAME OF RECIPIENT	Choteau, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 640,000</u>	SRF Loan
TOTAL	\$1,240,200	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: inflows to the treatment facility are two to three times what should be normally expected; lack of disinfection capability at the lagoon; violation of discharge permit for biochemical oxygen demand and total suspended solids, and the existing lagoon is unable to achieve the treatment required to meet future discharge permit conditions. *The proposed project would replace approximately 2,800 feet of sewer mains, and install an ultraviolet light disinfection system at the discharge of the facultative lagoon. Project was completed as proposed in fall 2010.*

NAME OF RECIPIENT	Crow Tribe
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PROJECT TYPE	Water and Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 200,000	Coal Board Grant
	\$1,100,000	ICDBG Grant
	\$ 300,000	STAG/WRDA Grant
	\$1,523,000	RD
	\$ 10,000	RRGL Grant
	\$ 60,000	Coal Board Grant
TOTAL	\$4,043,000	

PROJECT SUMMARY: Crow Agency's wastewater system has the following deficiencies: clay collection pipes that are near or beyond their useful life; cracked pipes, root penetration, sagging lines, offset joints and settling, and sewer back-ups in basements and manholes. *The proposed project would construct approximately 5,500 feet of new sewer laterals; replace or rehabilitate approximately 150 manholes, and install approximately 1,800 feet of water line. The project was completed fall 2015.*

NAME OF RECIPIENT	Cut Bank, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 150,000	City (cash)
	\$ 350,000	SRF Loan
TOTAL	\$1,100,000	

PROJECT SUMMARY: The city's water system has the following deficiencies: the treatment plant has no redundant backwash pump, no redundant flocculator, and the sedimentation basin is undersized; the distribution system has pipes that are undersized and corroded; much of the system has deficient fire flow capabilities; leakage in the distribution system and the frequency of repairs are very high; heavily corroded pipelines encourage the growth of biofilm; heavily corroded pipelines inhibit flushing velocities, and low pressures could result in backflow and contamination of the drinking water system. *The proposed project would replace approximately 6,000 feet of pipe; replace eight fire hydrants, and replace 22 gate valves. Project was completed as proposed in summer of 2011.*

NAME OF RECIPIENT	Dutton, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 159,000	RD Grant
	\$ 573,000	RD Loan
TOTAL	\$1,782,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: aging lift station; the back-up generator for the lift station requires constant monitoring to keep it running and the dry well is a safety risk to the operator because of confined-space issues; the force main terminates in the bottom of the lagoon cells near the center of the lagoons resulting in treatment short circuiting; insufficient detention time in the lagoons; flooded inlet control structure housing the force main piping and control valves for the treatment cells; no accurate means of effluent flow measurement; some erosion and sloughing on lagoon embankments; sludge accumulation in lagoons; evidence of seepage at the toe of the dike indicating that the liner integrity may be compromised, and one BOD₅ violation in the past five years. *The project would: construct a new lift station and treatment facility that would spray-irrigate treated effluent on to adjacent cropland; install a new back-up generator; rehabilitate the existing primary treatment lagoon to meet current standards, and remove and land-apply accumulated sludge in the existing lagoons. Project was completed as proposed in summer 2010.*

NAME OF RECIPIENT	Em-Kayan County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 290,619	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 190,619	SRF Loan
TOTAL	\$ 581,238	

PROJECT SUMMARY: The district's water system has the following deficiencies: 21 total coliform positive samples and one *E.coli* positive follow-up sample since 2005; three springs are located in an ephemeral gulch, which be inundated by surface water runoff during precipitation events or snowmelt; steel water mains have a history of leakage, although the leak detection reports appear to cite that most of the leaks have occurred at hydrants and service connections; four-inch hydrants do not meet Montana Department of Environmental Quality (DEQ) requirements; fire flow requirements of 1,000 gpm cannot be met at all hydrants; control system is maintenance-intensive and expensive to repair; no service meters; no security fencing with locks around the springs and storage tank; storage tanks are not vented. *The proposed project would replace approximately 2,340 feet of steel mains with eight-inch PVC mains, including gate valves and fire hydrants; install 61 water meters; install five sampling stations, and install control system improvements including a new pressure transducer on storage tanks. Project was completed as proposed in summer 2011.*

NAME OF RECIPIENT	Eureka, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG
	<u>\$ 610,000</u>	RD
TOTAL	\$1,785,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: undersized water mains in some areas do not allow for the maintenance of the minimum pressures under all conditions of flow, including fire flows; the primary commercial and business area located along U.S. Highway 93 north of the town limits lacks water service and fire protection; the public water supply for the Mountain View Trailer Court, which is also north of the town limits, has experienced 24 coliform positive samples since 2001; five health advisories have been issued by the Montana Department of Environmental Quality (DEQ) as a result. *The proposed project would extend the town's distribution system approximately 5,100 feet along the Highway 93 corridor to Mountain View Drive and install safety improvements in the chlorination room. The project was completed as proposed in the spring of 2012.*

NAME OF RECIPIENT	Fallon County/North Baker Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 120,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 50,000	RD Grant
	\$ 226,760	RD Loan
	<u>\$ 908,825</u>	County (cash)
TOTAL	\$1,405,585	

PROJECT SUMMARY: The district's water and wastewater systems have the following deficiencies: stagnant water conditions in the dead-end mains; lack of adequate fire flows in the planning area; no sanitary sewer system; failures of septic tanks and drainfields resulting in sewage surfacing on the ground surface, and existing soils have severe limitations for septic systems with drain fields resulting in the sanitarian for Fallon County condemning the installation of future septic systems. *The proposed project would install approximately 10,000 feet of sewer lines throughout the district and connect those lines to the city's wastewater treatment system. Project completed as proposed in fall 2011.*

NAME OF RECIPIENT	Fergus County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 167,200	TSEP Grant
	<u>\$ 167,809</u>	County (cash)
TOTAL	\$ 335,009	

PROJECT SUMMARY: The County's Warm Spring Creek Bridge has a variety of deficiencies. *The proposed project would replace the bridge. Bridge completed as proposed in summer 2011.*

NAME OF RECIPIENT	Flathead County Water District #8 (Happy Valley)	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 694,000	RD Grant
	<u>\$ 18,000</u>	District (cash)
TOTAL	\$1,212,000	

PROJECT SUMMARY: The district's water system has the following deficiencies: water supply is inadequate to meet maximum day demand or average day demand with the largest producing well out of service; inadequate flows for fire protection; booster pump station does not currently meet peak demand; lack of emergency power for booster station; including undersized mains for fire flow, dead end mains, and lack of auxiliary valves for fire hydrants; un-metered system; lack of a splash pad on the overflow for one of the storage tanks. *The proposed project would: construct one new well with a minimum design pumping capacity of 140 gpm and abandon three of the existing wells; provide two new variable frequency drive booster pumps with totalizer and flow meter following booster pumps, install manual auxiliary diesel generator, install approximately 1,700 feet of six-inch water main, replace fire-hydrants including auxiliary valves, install individual service water meters (and curb stops where necessary), install splash pad on overflow at storage tank. Project completed as proposed in summer 2011.*

NAME OF RECIPIENT	Flathead County for Bigfork	
PROJECT TYPE	Stormwater System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 14,000	County (cash/in-kind)
	<u>\$ 776,000</u>	SRF Loan
TOTAL	\$1,515,000	

PROJECT SUMMARY: The community's stormwater system has the following deficiencies: the Grand Drive and Bridge Street stormwater conveyance facilities do not have the pipe capacity to meet Montana Department of Environmental Quality's (DEQ) minimum design standards; flooding has occurred along Grand Drive as a result of inadequate inlet and storm sewer capacity, and Flathead Lake has been identified as impaired by the Federal Clean Water Act (CWA) section 303(d) and stormwater is not being treated properly before discharging into the

Lake. *The proposed project would replace and upgrade of the storm pipe system along Grand Drive, and install hydrodynamic devices for providing treatment of stormwater. Project completed as proposed in fall of 2011.*

NAME OF RECIPIENT	Fort Smith Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	<u>\$ 532,757</u>	SRF Loan
TOTAL	\$1,582,757	

PROJECT SUMMARY: The district's water system has the following deficiencies: insufficient supply to meet maximum day demands if the largest producing well were to be out of service; lack of emergency power at the wells; lack of storage for the Yellowtail system and insufficient storage for fire protection for the Fort Smith system if fire protection were to be provided; distribution system constructed of two-inch and four-inch mains that cannot provide fire flows; numerous dead-end lines; lack of valves for isolating sections of the system for repairs, and no service water meters. *The proposed project would drill a new well and construct a wellhouse with a generator; connect the two water systems with an eight-inch highway crossing and booster station supplied with a backup generator; provide distribution system improvements including valves and hydrants, and install curb boxes and meters on services adjacent to new mainlines. The project was completed as proposed in the fall of 2012.*

NAME OF RECIPIENT	Gardiner Park County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 358,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 15,000	TSEP Grant
	\$ 15,000	District (cash)
	<u>\$ 248,145</u>	SRF Loan
TOTAL	\$ 736,145	

PROJECT SUMMARY: The district's wastewater system has the following deficiencies: multiple spills of raw sewage into the Yellowstone River; pump failures at the main lift station; unsafe working environment for the operator due to a confined space in the main lift station, and inadequate disinfection of wastewater effluent. *The project would construct a new lift station, provide ultraviolet light disinfection, install an influent meter and an effluent meter at the lagoon, and install life-line ropes. Project completed as proposed in fall of 2011.*

NAME OF RECIPIENT	Gildford County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 538,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 439,900	SRF Loan
	<u>\$ 20,000</u>	District (cash)
TOTAL	\$1,097,800	

PROJECT SUMMARY: The district's wastewater system deficiencies include raw sewage backup into one of the homes connected to the grinder station, and wastewater is leaking through the retention ponds into the shallow aquifer. *The proposed project would construct two new grinder stations; install 400 feet of force main; install a synthetic liner at the lagoon, and remove and dispose of existing sludge. Project was completed as proposed in spring of 2011.*

NAME OF RECIPIENT	Gore Hill County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 250,300	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 545,600</u>	SRF Loan
TOTAL	\$ 895,900	

PROJECT SUMMARY: The district's water system has the following deficiencies: detections of arsenic above the state and federal primary maximum contaminant level (MCL) for arsenic in drinking water; water system does not provide for fire protection; iron levels exceed EPA secondary drinking water standards, and dead-end mains. *The proposed project would install central treatment for arsenic removal, and install approximately 1,700 feet of water main to remove loop mains. Project was completed as proposed in fall of 2010.*

NAME OF RECIPIENT	Granite County	
PROJECT TYPE	Solid Waste System Improvements	
FUNDING	\$ 197,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 106,700</u>	INTERCAP Loan
TOTAL	\$ 403,700	

PROJECT SUMMARY: The County's solid waste management system has the following deficiencies: safety concerns for the operators; an inequitable means of assessment; a hand written ledger system; inconsistent practices between the two sites, and insufficient waste diversion. *The proposed project would: install new fencing, with bear-proof wiring, and repair existing fencing; install single-phase power to the Philipsburg site; demolish a container wall at the Drummond site; initiate a computerized recording and accounting system, and*

transition from a volume based to a weight based disposal system by installing scales at each site. Project completed as proposed in summer 2011.

NAME OF RECIPIENT	Greater Woods Bay Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 488,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 14,000	District (cash)
	<u>\$ 130,000</u>	RD Loan
TOTAL	\$ 732,000	

PROJECT SUMMARY: The lack of a centralized wastewater system in the Greater Woods Bay Sewer District has resulted in the following deficiencies: some drainfields with inadequate vertical separation from ground water may be hydraulically connected to surface water; poor soil conditions for effluent treatment and insufficient replacement drainfield set-aside areas. *The proposed project would: construct 7,190 feet of eight-inch PVC gravity sewer; construct 805 feet of ten-inch PVC gravity sewer, and install 25 manholes. Project did not meet start up conditions by 6/30/2011. Project terminated.*

NAME OF RECIPIENT	Hardin, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$3,697,712	SRF Loan
	<u>\$ 765,000</u>	City (cash)
TOTAL	\$5,062,712	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: significant infiltration and inflow within the collection system; poor structural condition of sewer mains and pipe slopes less than minimum, violation of discharge permit due to fecal coliforms; chlorine residuals near maximum permit limits, and several problems specific to the Watson Drive Subdivision including groundwater contamination through failing septic tanks, and fecal coliform and bacteria in wells. *The proposed project would replace or rehabilitate approximately 31,000 feet of sewer main, install an ultraviolet light disinfection system, and install approximately 1,200 feet of new sewer main and a new lift station to serve the Watson Drive Subdivision. The project was completed in three phases as proposed in summer of 2012.*

NAME OF RECIPIENT	Harlowton, Town of	
TYPE OF PROJECT	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 9,000	CDBG Grant
	\$ 18,500	City (cash)
	<u>\$ 331,278</u>	SRF Loan
TOTAL	\$1,408,778	

PROJECT SUMMARY: The city's water system has the following deficiencies: deteriorating storage tank with inadequate elevation; well casing is corroded; water metering system has not been fully implemented; inadequate fire flow and fire protection; poor distribution system pressures; deteriorating, undersized, and aging water mains. *The proposed project would construct a 575,000-gallon steel standpipe storage tank with booster pumps for a new pressure zone at the existing storage tank site. Project completed as proposed in spring 2012.*

NAME OF RECIPIENT	Homestead Acres Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 573,325	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 473,325</u>	RD Grant
TOTAL	\$1,146,650	

PROJECT SUMMARY: The district's water system has the following deficiencies: two wells currently in use do not meet maximum day demand with largest producing well out of service; construction problems in well #1 have resulted in problems with maintenance and should be abandoned; yard hydrants are unmetered, some meters are located in homes and difficult to access for repair; continuous manual operation of system gate valves to regulate flows to north and east tanks to minimize risk of overtopping because the south tank is 69 feet higher in elevation; dead-end mains, and only one distribution main crossing the Bootlegger Trail. *The proposed project would drill two additional wells, construct a 50,000-gallon on-grade concrete storage tank, relocate 140 service meters, and install approximately 4,400 feet of six-inch main to eliminate dead ends and provide a redundant feeder line across Bootlegger Trail. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Jefferson County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 160,690	TSEP Grant
	\$ 15,000	County (cash)
	\$ 126,544	County (cash)
	<u>\$ 19,146</u>	County (in-kind)
TOTAL	\$ 321,380	

PROJECT SUMMARY: The County had three bridges (Quaintance Lane Bridge and two bridges on Hanson Lane) with a variety of deficiencies. *The proposed project would replace the bridges with three-sided box culverts and structural plate steel arch culverts. Project completed as proposed in fall 2010.*

NAME OF RECIPIENT	Jette Meadows Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 308,490	CDBG Grant
	\$ 300,000	RD Grant
	<u>\$1,075,000</u>	RD Loan
TOTAL	\$2,533,490	

PROJECT SUMMARY: The district's water system has the following deficiencies: three violations of the total coliform maximum contaminant level rule since 2003; source does not meet DEQ 1 maximum day demand (600 gpcd) with largest producing well out of service; dead end mains; undersized mains; storage tanks reportedly cracking and seeping, leaking overflow valve, sediment buildup, improper vent screen, and confined space entry and egress problems in pressure reducing stations; booster stations and pressure reducing stations in disrepair; system not designed for fire protection; some meters are inaccessible, and inadequate number of valves, air relief valves, and blow off hydrants. *The proposed project would de-commission the old storage tanks; construct a new 250,000-gallon storage tank connected by 750 feet of 12-inch transmission main; install 9,300 feet of eight-inch distribution main, a new booster station, pressure reducing station; and install 10 fire hydrants and a tanker recharge unit. Project completed as proposed in fall 2010.*

NAME OF RECIPIENT	Judith Gap, Town of	
PROJECT TYPE	Water/Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 242,965	CDBG Grant
	\$ 207,035	CDBG Grant
	\$ 258,000	MDT (in-kind)
	\$ 50,000	RD Grant
	<u>\$ 60,000</u>	RD Loan
TOTAL	\$1,668,000	

PROJECT SUMMARY: The town's water and wastewater systems have the following deficiencies: structural damage, plugging, sewage backup, and evidence of clay tile debris in the sewer system mains; access into manholes is inadequate and unsafe; exfiltration of raw sewage into the ground is likely; degraded cast iron water mains; existing four-inch cast iron pipe and many other small diameter water mains are incapable of supplying required domestic and fire flows; leaks in the distribution system, coupled with petroleum contamination within the highway corridor, create the potential for petroleum hydrocarbons to seep into the water system; water storage tank is in need of upgrades to address holes in the final (vent) at the top of the tank along with tank ladder, rail and access safety issues; and six services are not metered. *The proposed project would replace approximately 4,300 feet of cast iron water main, 1,500 feet of copper service line, 11 hydrants, 47 service connections, 10 water main connections; install six water meters; install a new riser pipe, frost jacket, expansion joints, over flow pipe, drain pipe, access ladders, anti-climb/vandal gate, safety climb device with harness, raised railings, ladder pass-through and frost proof vent at the water tower, and replace approximately 3,500 feet of sewer main, 13 manholes and 19 service connections. Project completed as proposed in fall 2011.*

NAME OF RECIPIENT	Kevin, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 181,000	SRF Loan
	\$ 15,000	RRGL Grant
	<u>\$ 15,000</u>	CDBG Grant
TOTAL	\$1,261,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: spring structures and well houses in poor condition; inadequate chlorination system; leaks in the upper portion of the transmission main; confined space at the booster pump station; undersized water mains; limited fire flows; lack of water meters; failed coating of storage tank; and ice accumulation and overflows at the tank. *The proposed project would repair spring boxes; replace well pump houses; install system telemetry; install flow-paced chlorination; repair sections of the upper transmission main; repair steel storage tank; replace booster pump station; replace approximately 1,500 feet of cast iron distribution mains, and install individual service water meters. Project completed as proposed in January 2014.*

NAME OF RECIPIENT	Laurel, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,942,710	SRF Loan
	<u>\$ 500,000</u>	City (cash)

TOTAL \$3,167,710

PROJECT SUMMARY: The city's water system has the following deficiencies: cannot meet maximum day demand if one of two low-lift pumps were to fail; cannot meet maximum day demand if one of two filters were to fail; unsafe chlorine cylinder handling conditions; lack of proper chemical mixing; lack of storage; lack of back-up power at a booster station; surge events require extensive manual throttling of pump discharge valves; water mains leak; and insufficient fire flow. *The proposed project would replace approximately 1,880 feet of distribution main as prioritized through current ongoing leak detection survey; rehabilitate the dual media filters and underdrains; install a third low-lift pump with necessary piping; install permanent generator at the booster station; replace two of the older high service pumps with new 2,000 gpm pumps; provide variable frequency drives for the high service pumps (four drives total); install a flash mixer for chemical mixing; rehabilitate the pipe between the sedimentation basins and the filters; and install a dual-speed hoist and provide safety improvements in the chlorination room. Project completed as proposed in fall 2010.*

NAME OF RECIPIENT	Lewis and Clark County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 456,628	TSEP Grant
	\$ 15,000	County (cash)
	\$ 408,688	County (cash)
	<u>\$ 32,940</u>	County (in-kind)
TOTAL	\$ 913,256	

PROJECT SUMMARY: The County had six bridges (Elk Creek Road Bridge, Little Wolf Creek Bridge, Sieben Canyon Road Bridge, Flat Creek Road Bridge, Little Prickly Pear Creek Road Bridge, and Spring Creek Road Bridge) with a variety of deficiencies. *The proposed project would replace the six existing bridges with the following types of structures: the Elk Creek Road Bridge with a precast concrete trideck superstructure founded on a grade beam foundation; the Little Wolf Creek and Sieben Canyon Road Bridges with precast concrete trideck superstructures founded on a driven pile foundations; the Flat Creek Road Bridge with a structural plate steel arch culvert; the Little Prickly Pear Road Bridge with a concrete box culvert; the Spring Creek Road Bridge with a steel modular bridge superstructure on a grade beam foundation. All six bridges were completed as proposed in the fall of 2012.*

NAME OF RECIPIENT	Livingston, City of	
PROJECT TYPE	Solid Waste System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 868,250</u>	SRF Loan
TOTAL	\$1,468,250	

PROJECT SUMMARY: The city's composting and sludge disposal system has the following deficiencies: the current sludge land application program may not comply with future Montana Department of Environmental Quality (DEQ) permitting requirements; odor and vector problems are reported as part of the current yard waste-only composting system, and the anaerobic digesters at the wastewater treatment plant have been in service for nearly 50 years and are in need of some rehabilitation. *The proposed project would construct an in-vessel co-composting facility, install a gravity filter dewatering container, and rehabilitate the primary anaerobic digester. Project completed as proposed in spring 2011.*

NAME OF RECIPIENT	Lockwood Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 750,000	ARRA
	\$4,091,000	SRF Loan
	<u>\$3,412,534</u>	STAG
TOTAL	\$8,753,534	

PROJECT SUMMARY: *The proposed project would construct a new wastewater collection main system throughout portions of the unincorporated community of Lockwood and connect the collection system to the City of Billings wastewater treatment facility. Project completed as proposed in spring 2011.*

NAME OF RECIPIENT	Loma County Water and Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 100,000	RRGL Grant
	\$1,006,110	RD Grant
	\$ 276,690	RD Loan
	<u>\$ 3,000</u>	Local (cash)
TOTAL	\$2,235,800	

PROJECT SUMMARY: The district's water system has the following deficiencies: the small diameter, glued-joint PVC piping in the system is failing at the rate of 50 to 100 leaks per year; the storage tank is over 25 years old and has never been re-coated; the district does not have water meters and average per capita usage is over 400 gallons per day; lack of a pre-sedimentation basin at the treatment plant to reduce turbidity levels in the raw water; the clarifier and filter and the filter at the treatment plant are in poor condition, the plant does not provide adequate backwashing velocities to the filter, and there are numerous deficiencies with plant valve, piping and control

components, and the plant's finished water marginally meets the requirements of the stage one disinfection byproducts rule, the plant will need to comply with the stage two microbial/disinfection byproducts rule by 2014, and will eventually need to comply with the Long-Term 2 Enhanced Surface Water Treatment Rule. *The proposed project would install approximately 240,000 feet of plowed-in high density polyethylene piping; re-coat the storage tank, and install service connection meters. Project completed as proposed in fall of 2011.*

NAME OF RECIPIENT	Madison County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 413,203	TSEP Grant
	\$ 15,000	County (cash)
	\$ 380,989	County (cash)
	<u>\$ 17,214</u>	County (in-kind)
TOTAL	\$ 826,406	

PROJECT SUMMARY: The County had four bridges (Duncan District Road Bridge, Waterloo Road Bridge, and two bridges on Jack Creek Road) with a variety of deficiencies. *The proposed project would replace the Duncan District Road Bridge with a single-span precast, pre-stressed concrete trideck beam superstructure founded on driven piles, replace the Waterloo Road Bridge with a concrete box culvert and replace each of the two bridges on Jack Creek Road with three-sided concrete box culverts. Project completed as proposed in fall of 2011.*

NAME OF RECIPIENT	Melstone, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 377,876	CDBG Grant
	\$ 272,864	RD Grant
	\$ 545,000	RD Grant
	<u>\$ 285,634</u>	RD Grant
TOTAL	\$2,307,372	

PROJECT SUMMARY: The town's water system has the following deficiencies: lack of adequate water supply to meet average day demand if the largest source runs dry; undesirable aesthetic water quality; failing water treatment plant components; violation of filter backwash recycle rule; lack of redundancy in critical treatment plant components, and failed automated controls in treatment plant. *The proposed project would install two new wells, with new wellhouse for chlorination facility and well controls; construct 12-mile pipeline to connect wells to existing distribution system, and connect well # 2 to the five-mile pipeline, modify well control vault for monitoring and ventilation of carbon dioxide, and install new air relief valves along the five-mile pipeline. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Nashua, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 421,300	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 25,200	Town (cash)
	\$ 160,280	MDT (in-kind)
	<u>\$ 149,040</u>	SRF Loan
TOTAL	\$ 855,820	

PROJECT SUMMARY: The town's water system has the following deficiencies: water is high in manganese, hardness, and sulfate; service connections are not metered, and; water main leakage on Front Street. *The proposed project would install approximately 180 water meters and replace approximately 3,345 feet of distribution main along Front Street and Sargent Street. The Town returned the funds due to inability to secure non-TSEP funding and coordinate timelines with MDT.*

NAME OF RECIPIENT	Philipsburg, Town of	
PROJECT TYPE	Wastewater System Improvement	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,223,943	RD Grant
	\$3,882,951	RD Loan
	<u>\$ 96,928</u>	Town (cash)
TOTAL	\$6,053,822	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: excessive leakage of wastewater to groundwater at lagoons; accumulated sludge at lagoons; inadequate lagoon capacity; multiple violations of permit limits for biochemical oxygen demand; lack of disinfection resulting in excessive fecal coliform discharges; groundwater infiltration into the outfall sewer line; undersized sewer mains throughout the collection system, and inability to meet future, proposed, stringent nutrient standards. *The proposed project would: construct a new wastewater treatment facility using a "Bio Lac" system; remove accumulated sludge; install ultraviolet light disinfection system, and rehabilitate approximately 1,600 feet of outfall line. The Town lost its RD funding and was unable to obtain matching funds to complete the project. The project was terminated in the winter of 2013.*

NAME OF RECIPIENT	Powell County	
PROJECT TYPE	Bridge System Improvements	

FUNDING	\$ 304,248	TSEP Grant
	\$ 15,000	County (cash)
	\$ 243,325	County (cash)
	\$ 13,790	County (in-kind)
	<u>\$ 32,133</u>	City of Deer Lodge (cash)
TOTAL	\$ 608,496	

PROJECT SUMMARY: The County had three bridges (Racetrack Creek Road Bridge, Dempsey Lake Road Bridge, and Second Street Bridge) with a variety of deficiencies. *The proposed project would replace the Racetrack Creek Bridge with an aluminum box culvert and replace the Dempsey Lake Road Bridge with an aluminum box culvert and replace the Second Street Bridge with a precast trideck superstructure founded on driven piles. Project completed and closed in February 2014.*

NAME OF RECIPIENT	Ravalli County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 137,193	TSEP Grant
	\$ 106,209	County (cash)
	<u>\$ 30,984</u>	County (in-kind)
TOTAL	\$ 274,386	

PROJECT SUMMARY: The County had one stream crossing Sweathouse Creek consisting of multiple culverts with a variety of deficiencies. *The project was completed and consisted of replacing the culverts with a bridge.*

NAME OF RECIPIENT	Ronan, City of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 300,000	RD Grant
	<u>\$4,195,000</u>	RD Loan
TOTAL	\$5,795,000	

PROJECT SUMMARY: The city's water system has the following deficiencies: supply cannot meet maximum day demand with the largest producing source out of service; inadequate storage capacity; surface water supply cannot meet requirements of Long-Term 2 Enhanced Surface Water Treatment Rule (LT2) for design flow; undersized mains; dead end mains, and cannot provide the fire flows recommended by the Insurance Services Office at many locations under all flow conditions. *The proposed project would construct a 750,000-gallon elevated storage tank and associated piping, pressure reducing station, booster station with auxiliary power and pump control system; install a new 600 gpm well with auxiliary power and test well and 240 feet of six-inch distribution main, 700 feet of eight-inch distribution main, and 2,600 feet of 16-inch distribution main, and chlorine disinfection; replace four-inch distribution main by installing 450 feet of six-inch and 4,400 of eight-inch main. The project was completed in the spring of 2013 as proposed.*

NAME OF RECIPIENT	Rudyard County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 319,000	TSEP Grant
	\$ 255,200	CDBG Grant
	\$ 63,800	District (cash)
	<u>\$ 10,000</u>	District (cash)
TOTAL	\$ 648,000	

PROJECT SUMMARY: The district's wastewater system has the following deficiencies: sewage backing up into homes; clay sewer lines have numerous plugging problems caused by heavy root intrusion, cracks, offset joints, sags and minimal slopes; and sludge accumulation in the total retention ponds. *The proposed project would install approximately 3,900 feet of sewer pipe; install nine new manholes; reconnect 41 existing sewer services to the new sewer main, and install lift station auto dialer. Project completed as proposed in summer 2010.*

NAME OF RECIPIENT	Seeley Lake Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant (district)
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$1,750,000	STAG Grant
	\$4,250,000	WRDA Grant
	<u>\$ 810,000</u>	SRF Loan
TOTAL	\$8,110,000	

PROJECT SUMMARY: The lack of a centralized wastewater system has resulted in the following problems: documented contamination of the area's groundwater aquifer including elevated nitrate levels in the groundwater downgradient of the community; increased nutrient loads to Seeley Lake, which facilitate eutrophication of the lake and increased water quality degradation; existing drainfields are old and in need of replacement and it is difficult or impossible to find new replacement areas; and seepage pits, which do not provide adequate treatment, and metal septic tanks, which have a significant potential for leakage, are used for disposal in many areas because sufficient space is not available for a properly designed drainfield. *The proposed project would abandon existing on-site septic tank/drainfield systems; install approximately 12,000 feet of gravity sewer mains and 14,000*

feet of force main; connect approximately 200 services; construct two lift stations, and construct an advanced mechanical treatment plant using a sequencing batch reactor with disposal through a groundwater infiltration gallery. Project did not meet start up conditions by June 30, 2011. Project terminated.

NAME OF RECIPIENT	Sheaver's Creek Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 600,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 84,500	RD Loan
	<u>\$ 14,000</u>	District (cash/in-kind)
TOTAL	\$ 798,500	

PROJECT SUMMARY: The lack of a centralized wastewater system in the Sheaver's Creek Water and Sewer District has resulted in the following deficiencies: some drainfields with inadequate vertical separation from ground water may be hydraulically connected to surface water; poor soil conditions for effluent treatment and insufficient replacement drainfield set-aside areas. *The proposed project would construct 6,765 feet of eight-inch PVC gravity sewer, and install 21 manholes. Project did not meet start up conditions by June 30, 2011. Project terminated.*

NAME OF RECIPIENT	Shelby, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 650,000</u>	SRF Loan
TOTAL	\$1,375,000	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: aging sewer lines are developing fractures and joint separations; excessive quantities of infiltration and inflow into the trunk main and sewer lines, and treatment lagoons do not meet current Montana Department of Environmental Quality (DEQ) standards for retention time. *The proposed project would: replace approximately 7,500 feet of trunk and sewer main with 18 to 24-inch PVC sewer lines; rehabilitate approximately 2,500 feet of 18-inch clay pipe; bore underneath railroad tracks, and install approximately 16 new manholes and rehabilitate approximately nine existing manholes. Project completed as proposed in spring 2011.*

NAME OF RECIPIENT	South Chester County Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 131,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 7,000	District (cash)
	<u>\$ 6,072</u>	District (cash)
TOTAL	\$ 244,072	

PROJECT SUMMARY: The district's water system has the following deficiencies: insufficient chlorine contact time for the first two users during winter months; no filtration; no flow meter at the Marias River pump house as required by Montana Department of Environmental Quality (DEQ); the existing erosion-type chlorinator at the Marias River pump house does not maintain a consistent chlorine residual and the system does not meet the required values for chlorine concentration and contact time; storage tank is undersized; no service meters, and the 2.3-mile Osterman/Anderson service line is undersized (this service line was designed to deliver water to no more than one resident). *The proposed project would relocate the intake and install in-bank filtration; replace the chlorinator and install a flow meter at the Marias River pumphouse; install ultraviolet (UV) disinfection; replace a section of pipe in two service lines with 12-inch PVC pipe to provide needed chlorine contact time; install water meters, and replace the Osterman/Anderson service line. Project completed as proposed in spring 2012.*

NAME OF RECIPIENT	St. Ignatius, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 253,000	TSEP Grant
	\$ 100,000	RRGL Grant
	<u>\$ 153,000</u>	RD Loan
TOTAL	\$ 506,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: current water supply does not meet maximum day demand with largest producing well out of service; current storage capacity does not provide average day demand plus fire flow storage; undersized distribution mains do not provide sufficient fire flow and leakage in the distribution system or service lines. *The proposed project would install a new well including pumphouse, emergency generator, and connection to distribution system; distribution system improvements to include a second water main crossing on Mission Creek, a new water main for Mountain View Drive and replace a four-inch main on Home Addition, and complete a leak detection survey. The project was completed as proposed and closed out in June 2015.*

NAME OF RECIPIENT	Stevensville, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 700,000	WRDA Grant

	\$ 700,000	STAG Grant
	\$1,015,000	SRF Loan
	<u>\$ 255,000</u>	Town (cash)
TOTAL	\$3,970,000	

PROJECT SUMMARY: The town's water system has the following deficiencies: distribution system water losses estimated at over 300,000 gpd; 40% of the services are un-metered; no backup power; distribution system is inadequate to meet fire flows and maximum day demands, and potential difficulties in meeting surface water treatment regulatory requirements. *The proposed project would install a well field up to 1,500 gpm with booster station and backup power; construct a one million-gallon ground-level storage tank; replace or install 8,144 feet of distribution main, and de-commission the infiltration gallery and treatment plant. The project was completed as proposed and closed out in January 2015.*

NAME OF RECIPIENT	Stillwater County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 292,979	TSEP Grant
	\$ 15,000	County (cash)
	\$ 264,888	County (cash)
	<u>\$ 13,091</u>	County (in-kind)
TOTAL	\$ 585,958	

PROJECT SUMMARY: The County had two bridges (Bob Story Bridge and Young's Point Bridge) with a variety of deficiencies. *The proposed project would replace the Bob Story Bridge with a precast concrete bulb tee bridge founded on piles and replace the Young's Point Bridge with a with a concrete box culvert, utilizing county crews. Project completed as proposed in spring 2011.*

NAME OF RECIPIENT	Sweet Grass Community County Water and Sewer District	
PROJECT TYPE	Water System Improvement	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 461,230	RD Grant
	\$ 228,510	RD Loan
	\$ 6,000	District (cash)
	<u>\$ 10,000</u>	Toole County (cash)
TOTAL	\$1,424,740	

PROJECT SUMMARY: The district's water system has the following deficiencies: inadequate pressure and volume to meet fire flow requirements; inadequate storage to meet fire flow requirements; dead-end distribution mains; existing booster station is no longer operating correctly. *The proposed project would install a new 195,000-gallon steel storage tank; install approximately 6,900 feet of 10-inch transmission main to new storage tank; install a new two-pump booster station with controls; install approximately 2,100 feet of six-inch PVC distribution pipe to loop dead-end mains and four pressure relief valves. Project completed as proposed in spring 2012.*

NAME OF RECIPIENT	Sweet Grass County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 93,360	TSEP Grant
	\$ 15,000	County (cash)
	\$ 54,411	County (cash)
	<u>\$ 23,949</u>	County (in-kind)
TOTAL	\$ 186,720	

PROJECT SUMMARY: The County's Lower Sweet Grass Road Bridge had various deficiencies. *The proposed project would replace the bridge with a concrete box culvert. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Troy, City of	
PROJECT TYPE:	Water System Improvements	
FUNDING	\$ 715,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 236,000	STAG/WRDA Grant
	<u>\$ 450,000</u>	CDBG Grant
TOTAL	\$1,501,000	

PROJECT SUMMARY: The city's water system has the following deficiencies: source does not meet the Montana Department of Environmental Quality (DEQ) design standards; dead end mains; excessive leakage in mains; undersized mains; inadequate storage capacity; recurrence of bacteria in the water system; lack of main redundancy; storage does not meet DEQ design standards; leaking fire hydrants, and minimal fire flow capabilities. *The proposed project would: replace approximately 2,650 feet of eight-inch main and 850 feet of 10-inch main along Kootenai Avenue, Yaak Avenue, Third Street, and Fourth Street; install approximately 3,700 feet of eight-inch pipe to loop water mains from well # 2 to Spokane/Kalispell alley, the elementary school and across Callahan Creek; install hypochlorination disinfection systems at each of the two water supply wells, and install approximately 23 hydrants. Project completed as proposed in fall 2010.*

NAME OF RECIPIENT	Upper and Lower River Road Water and Sewer District	
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PROJECT TYPE	Water/Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 332,000	City CDBG
	\$ 450,000	State CDBG
	<u>\$ 285,600</u>	SRF
TOTAL	\$1,667,600	

PROJECT SUMMARY: The lack of a water and/or wastewater system in the proposed project area is creating the following problems: on-site wastewater systems in the area are suspected of causing elevated levels of nitrate and ammonia in the drinking water wells in the district as a whole, but only elevated nitrate is showing up in the proposed project area; small lot sizes in the proposed project area are generally insufficient to allow for required 100-foot separation between well and septic drainfield and few lots have replacement drainfield areas, and some project-area wells have elevated levels of naturally occurring iron. *The proposed project would extend approximately 3,910 feet of eight-inch and 630 feet of 12-inch PVC water main from the city's trunk main; install approximately 11 fire hydrants; extend approximately 1,985 feet of eight-inch and 700 feet of 10-inch PVC sewer main from the city's trunk main; install approximately nine manholes; install approximately 50 water and sewer service connections, and install approximately 50 water meters. Project completed as proposed in summer 2010.*

NAME OF RECIPIENT	Valier, Town of	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 36,622	Town (cash)
	\$ 100,000	RRGL Grant
	\$ 858,897	RD Loan
	<u>\$ 545,173</u>	RD Grant
TOTAL	\$2,165,692	

PROJECT SUMMARY: The town's water system has the following deficiencies: maximum contaminant level (MCL) violations for total coliform bacteria in the town's water system in 1991, 1993 and 2003; old clay sewer main within the 100- ft control zones of wells 1 and 2 has settled and may be leaking; the nearly 100-year old 60,000-gallon storage tank is of insufficient volume to provide fire protection, and needs a ladder and screened vent; existing source production volume is insufficient to meet maximum day demand with the largest producing well out of service as required of Montana Department of Environmental Quality (DEQ) standards; lack of residential water meters causes system inability to meet peak day demands without watering restrictions during the summer irrigation season; the existing generator is very old and replacement parts are hard to obtain; significant casing corrosion is noted in well videos of all four wells; the existing control system causes interruptions in well operation because of transient pressure surges in the distribution system; portions of the distribution system are very old or severely undersized. *The proposed project would construct a new 210,000-gallon elevated water storage tank with 10-inch water main to connect new tank to existing eight-inch main on Montana St; install water meters at all service connections; replace 1,450 feet of eight-inch cast iron water main on Montana St; install a ladder and screened vent, and seal gaps at existing storage tank, and replace 550 feet leaking sewer main on Illinois Avenue near wells 1 and 2. Project completed as proposed in fall 2011.*

NAME OF RECIPIENT	Whitefish, City of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 900,650	SRF Loan
	<u>\$ 99,000</u>	City (cash)
TOTAL	\$1,599,650	

PROJECT SUMMARY: The city's wastewater system has the following deficiencies: excessive water infiltration and inflow into sewer system; surcharging lift stations due to infiltration and inflow; reduced treatment efficiency due to infiltration and inflow, and inability to meet future permit limits for *E.coli*. *The proposed project would replace or rehabilitate approximately 10,200 feet of sewer mains, rehabilitate up to 44 manholes, and construct a new ultraviolet light disinfection facility at the wastewater treatment plant. Project completed as proposed in fall 2011.*

NAME OF RECIPIENT	Wibaux, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 14,000	Town (cash)
	<u>\$ 418,000</u>	SRF Loan
TOTAL	\$1,032,000	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: the facility has broken aeration piping, outdated aerators, and only one working aeration pump; frequent permit violations for exceeding biochemical oxygen demand, total suspended solids and fecal coli form limits, and the existing facility will not be able to comply with the new discharge permit for ammonia limits. *The proposed project would: construct a new 0.5-acre aeration cell and a 3.5-acre holding cell near the existing plant; construct a 6,400-foot force main; construct a 12.5-acre evaporation pond, and purchase additional land for future expansion. Project completed as proposed in fall 2011.*

NAME OF RECIPIENT	Winifred, Town of	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	<u>\$ 302,500</u>	SRF Loan
TOTAL	\$1,352,500	

PROJECT SUMMARY: The town's wastewater system has the following deficiencies: infiltration into the collection system and outfall pipe feeding the lagoon creates a hydraulic overload; many of the manholes are buried, inaccessible and do not provide safe access; collection system has minimum grade and structural deficiencies resulting in the need for sewer flushing to remove debris and eliminate plugging; lagoon is leaking inadequately treated effluent to the ground water and surface water; lagoon has serious odor issues (during summer months); lagoon consistently discharges inadequately treated effluent through an outfall pipe to an adjacent slough, which then percolates into ground water or flows into Dog Creek (an area that allows unrestricted public access); DEQ inspection reports have noted a likelihood of excessive sludge buildup in the lagoon, probable leakage due to the age and condition of the facility and inadequate treatment capacity or detention time for a discharging system; system does not satisfy a number of current DEQ design standards, and existing system cannot adequately treat BOD₅, TSS, fecal coliform, ammonia or nutrients (TP and TN) to meet current and impending discharge permit limits. *The proposed project would rehabilitate approximately 11,920 feet of eight-inch sewer main with cured-in-place methods, replace approximately 2,400 feet of eight-inch sewer main with open cut methods, and rehabilitate 40 sewer manholes. Project completed as proposed in summer 2010.*

NAME OF RECIPIENT	Wolf Creek County Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 606,774	RD Grant
	\$ 778,046	RD Loan
	<u>\$ 20,000</u>	District (cash)
TOTAL	\$2,254,820	

PROJECT SUMMARY: The lack of a centralized wastewater system in Wolf Creek has resulted in the following deficiencies: elevated levels of nitrates in groundwater; close proximity of septic systems to local wells; failure of septic systems, and unavailability of drainfield replacement areas. *The proposed project would install conventional gravity sewers, construct a central lift station, and construct a moving bed bioreactor treatment process. The project was completed as proposed and closed in summer 2015.*

NAME OF RECIPIENT	Woods Bay Homesites Water and Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 730,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 130,000	RD Loan
	<u>\$ 14,000</u>	District (cash)
TOTAL	\$ 974,000	

PROJECT SUMMARY: The lack of a centralized wastewater system in the Woods Bay Homesites Water and Sewer District has resulted in the following deficiencies: some drainfields with inadequate vertical separation from ground water may be hydraulically connected to surface water; poor soil conditions for effluent treatment and insufficient replacement drainfield set-aside areas. *The proposed project would construct 2,594 feet of eight-inch PVC gravity sewer; construct 2,400 feet of six-inch PVC force main; install one lift station; install eight manholes, and provide one emergency generator. Project did not meet start up conditions by June 30, 2011. Project terminated.*

NAME OF RECIPIENT	Yellowstone County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 228,753	TSEP Grant
	<u>\$ 228,754</u>	County (cash)
TOTAL	\$ 457,507	

PROJECT SUMMARY: The County had two bridges (Yeoman Road Bridge and Davis Creek Bridge) with a variety of deficiencies. *The proposed project would replace the Yeoman Road Bridge with precast tri-deck superstructure on steel piles, and replace the Davis Creek Road Bridge with a concrete box culvert. Project completed as proposed summer 2010.*

Projects Approved through the 2011 Legislative process

Fifty-nine applications requesting \$30,635,122 in TSEP funds were submitted for the 2013 biennium. The 2011 Legislative process approved 30 projects totaling \$13,753,578 in TSEP funds. In addition, six projects were conditionally awarded to completed if funding was available. Five of the conditional awards were completed. The Governor line item vetoed eight projects during the Legislative session. Five of these vetoed projects were given letters of awards at a later date, when it was determined through a lawsuit that vetoes were unlawful. **All projects have been completed.**

NAME OF RECIPIENT	Augusta Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$295,000	TSEP Grant
	\$100,000	RRGL
	<u>\$195,000</u>	RD Loan
TOTAL	\$590,000	

PROJECT SUMMARY: The wastewater system has sewers mains with collapsed sections, cracked and broken pipes, inadequate slopes, and sags, and backups of sewage into residences and businesses. *The proposed project would replace or install approximately 3,600 feet of sewer mains, install approximately 12 new manholes, and re-connect approximately 50 service lines. The project was completed as proposed summer of 2014.*

NAME OF RECIPIENT	Beaverhead County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$426,941	TSEP Grant
	\$396,885	County Cash
	<u>\$ 30,056</u>	County – In Kind
TOTAL	\$853,882	

PROJECT SUMMARY: Beaverhead County has identified three (Anderson Lane, Steel Creek Road, Bannack Bench Road) bridges that are in critical condition and in need of replacement. *The proposed project would replace the Anderson Lane Bridge with a three-sided precast concrete box culvert, and replace the Steel Creek Road and Bannack Bench Road Bridges with single-span, precast pre-stressed, concrete tri-deck beam superstructures. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Bigfork Water & Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$1,790,000	SRF
	<u>\$ 14,000</u>	District - Cash
TOTAL	\$2,654,000	

PROJECT SUMMARY: The water system no backup supply well in the event that one of the two existing wells fail, a second transmission main is needed as a backup to the other transmission main from the well to the distribution system, because the current transmission main would not be hydraulically capable of providing the flow from an additional well, and no backup power source at the well house. *The proposed project would install a new water supply well, install a second transmission main from the Ramsfield wells to the Chapman Hill Road, and install backup power at the well house. The project was completed as proposed in the spring of 2015.*

NAME OF RECIPIENT	Blaine County	
PROJECT TYPE	Bridge County Improvements	
FUNDING	\$434,309	TSEP Grant
	\$264,086	County - Cash
	<u>\$187,950</u>	County – In Kind
TOTAL	\$886,345	

PROJECT SUMMARY: Blaine County has identified three (Corral Coulee, People's Creek, Battle Creek) bridges that are in critical condition and in need of replacement. *The proposed project would replace the Corral Coulee Bridge and the People's Creek Bridge with three-sided concrete box bridges, utilizing county crews, and rehabilitating the Battle Creek Bridge by using an already-owned steel truss structure, increasing the width of the bridge, and use a gravel deck with a steel pile foundation. The project was completed as proposed and closed out in summer of 2015.*

NAME OF RECIPIENT	Brady County Water & Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDBG
	\$ 257,750	RD Grant
	<u>\$ 89,250</u>	RD Loan
TOTAL	\$1,657,000	

PROJECT SUMMARY: The district is under an administrative order on consent for exceeding the maximum contaminant levels (MCL) related to disinfectant by-products. The district has been required to send notices to its

users describing the problems and encouraging users to refrain from drinking the water. *The proposed project is to do system equipment improvements and membrane filtration system. A change in scope was approved to build a storage tank, replace distribution lines as identified by leak study, and water will be supplied by the North Central Water Authority. The project was completed as modified and closed in summer of 2015.*

NAME OF RECIPIENT	Carbon County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$406,695	TSEP Grant
	<u>\$406,695</u>	County - Cash
TOTAL	\$813,391	

PROJECT SUMMARY: Carbon County has identified two (19th Street, Cooney Dam Road) bridges that are in critical condition and in need of replacement. *The proposed project would replace the 19th Street Bridge with a 75-foot, single-span precast, pre-stressed concrete bulb tee beam structure and replace the Cooney Dam Road Bridge with a 80-foot, single-span precast, pre-stressed concrete bulb tee beam structure. The project was completed as proposed in the fall of 2012.*

NAME OF RECIPIENT	Carter Chouteau County Water & Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 195,425	CDBG
	\$ 400,000	WRDA
	\$ 424,000	RD Grant
	<u>\$ 228,575</u>	RD Loan
TOTAL	\$1,998,000	

PROJECT SUMMARY: The district installed point-of-use (POU) filters to treat for arsenic; however, the U.S. Environmental Protection Agency (EPA) issued an administrative order in November 2009 that requires filtration. *The proposed project would construct a water treatment plant. The district has requested a reduction in scope of work and a hardship consideration in funding. TSEP has approved the reduction in scope. The project consisted of a new treatment facility consisting of a treatment cartridge filter system, booster pumps, chlorination equipment, control systems, and vertical turbine pumps. The project was completed as amended in the spring of 2013.*

NAME OF RECIPIENT	Crow Tribe for Crow Agency	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 400,000	STAG/WRDA
	\$ 650,000	EPA Tribal Set-Aside
	\$ 199,500	MT Coal Board
	\$1,100,000	HUD ICDBG
	<u>\$ 5,500</u>	Tribe - Cash
TOTAL	\$3,205,000	

PROJECT SUMMARY: The proposed project would be the fourth phase. The water system is in noncompliance with the long term two enhanced surface water treatment rule for cryptosporidium treatment, there are undersized and leaking distribution lines. *The proposed project would install an ultraviolet (UV) disinfection system, and replace approximately 8,000 feet of distribution lines with six-inch lines. The project was completed as proposed in the fall of 2016.*

NAME OF RECIPIENT	Custer County	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 450,000	CDBG
	\$ 70,000	RD Grant
	\$ 275,000	RD Loan
	<u>\$ 100,000</u>	County - Cash
TOTAL	\$1,645,000	

PROJECT SUMMARY: The wastewater collection system has collection lines that were not installed with adequate grades, laterals that connect to the old Pine Hills outfall line are inadequate, outfall line is 110 years old, which is made of clay, has numerous areas of broken pipe, no pipe at crown, holes in the pipe, low areas, tree roots, and service tap problems, and manholes are in generally poor condition. *The proposed project would construct a new collection system. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT	City of Deer Lodge	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 200,000	STAG/WRDA
	\$3,885,349	SRF Loan
	<u>\$ 59,963</u>	City
TOTAL	\$4,745,312	

PROJECT SUMMARY: The Grant Kohrs Ranch has informed the city that the land application system will no

longer be allowed to be used after the 2010 season, and there are no alternate land application sites available at or adjacent to the treatment plant, UV disinfection system is at the end of its service life, with only one of two units currently operating, cell four is unlined and most likely a source of some infiltration into the plant. *The proposed project would install a new transmission main, larger land application pumps at the treatment plant, and install new UV disinfection equipment at the treatment plant. The project was completed as proposed and closed in winter of 2015.*

NAME OF RECIPIENT	City of East Helena
PROJECT TYPE	Wastewater System Improvements
FUNDING	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL
	\$1,845,608 RD Grant
	<u>\$2,385,444 City</u>
TOTAL	\$5,081,052

PROJECT SUMMARY: Treated effluent is currently being discharged into Prickly Pear Creek with toxic levels of lead and copper, and new permitting requirements require a significant reduction in the lead, copper and zinc levels. The facility was also not designed to provide removal of nitrogen or phosphorus, which has become a significant nutrient related problem in the Helena valley. The Montana Department of Transportation installed storm water inlets that connect to the sanitary sewer system, which causes the treatment facility to become overwhelmed and discharging untreated effluent onto the ground in the grit chamber. *The proposed project would replace approximately 1,760 feet of main, install approximately 4,242 feet of storm water pipe of various sizes and separate from the sanitary sewer system, and install filtration at the treatment facility to remove metals. The project was completed as proposed and closed in winter of 2014.*

NAME OF RECIPIENT	Town of Eureka
PROJECT TYPE	Wastewater System Improvements
FUNDING	\$ 625,000 TSEP Grant
	\$ 277,000 WRDA Grant
	<u>\$ 662,000 SRF Loan</u>
TOTAL	\$1,564,000

PROJECT SUMMARY: The lack of a centralized wastewater system in the proposed project area has resulted in (DEQ) has classifying the area as medium and high hazard for risk of groundwater contamination due to the density of septic tank/drain field systems, and groundwater quality samples show conditions corresponding with an appreciable density of septic tank/drain field systems in that nitrate levels are elevated (three-four times higher) compared to immediately adjacent areas and there have been numerous and repetitive instances of bacteriological contamination of water supply systems in the area. *The proposed project would construct approximately 23,000 feet of gravity collection lines (a small portion will be served by grinder pumps and small diameter, low-pressure sewer lines due to the lower terrain), replace approximately 1,000 feet of piping in the town, and replace the existing pumps in the town's primary pumping station. The project requested a change of scope to remove the Midvale area from the scope and rather continue lines north along the Hwy 93 corridor. This was due to a lawsuit filed over the annexation of the Midvale area. The change of scope was approved and new funding sources found to complete the project. The project was completed as proposed and closed in December of 2015.*

NAME OF RECIPIENT	Town of Fairfield
PROJECT TYPE	Water System Improvements
FUNDING	\$ 500,000 TSEP Grant
	\$ 100,000 RRGL
	\$ 350,250 SRF
	<u>\$ 49,750 Town - Cash</u>
TOTAL	\$1,000,000

PROJECT SUMMARY: Most of the water system is not metered and is in need of updated water mains. *The proposed project is to install to all unmetered areas and water mains to provided redundant capability between the two sides of the distribution system. The project was completed as proposed and closed in winter of 2015.*

NAME OF RECIPIENT	Fergus County
PROJECT TYPE	Bridge System Improvements
FUNDING	\$276,157 TSEP Grant
	\$ 82,902 County Cash
	<u>\$193,255 County In Kind</u>
TOTAL	\$552,314

PROJECT SUMMARY: Fergus County has identified three (Ployhar Road, Paradise Road, Kendall Road) bridges that are in critical condition and in need of replacement. *The proposed project would replace all three bridges with aluminum box culvert. Project was line-itemed vetoed by Governor, lawsuit filed, judge ruled in favor of County 2/6/12. The County requested a change in scope to only replace Kendall Road Bridge. The change in scope was approved. The project was completed as proposed and closed out in winter of 2014.*

NAME OF RECIPIENT	Gallatin Gateway County Water & Sewer District
PROJECT TYPE	Wastewater System Improvements

FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDBG
	\$ 232,000	STAG/WRDA
	\$1,815,000	RD Grant
	<u>\$1,650,000</u>	<u>RD Loan</u>
TOTAL	\$4,997,000	

PROJECT SUMMARY: The majority of the septic systems, cesspools, and seepage pits located in the project area were installed before 1966, prior to the creation of health department regulations, and therefore, do not comply with current regulations. The county board of health will not approve the construction of new homes or businesses because the district cannot meet all regulations because the lot sizes are too small. *The proposed project would construct a gravity collection system, construct a centralized lift station, and construct a septic tank with Level 2 treatment and pressure dosed drainfield.*

PROJECT STATUS: The project is in the construction phase. The project requested to change the scope of work in January 2016. The change was approved and the approved solution is a connection to the Four Corners County Water and Sewer District. The anticipated completion date is summer of 2018.

NAME OF RECIPIENT	Granite County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$276,408	TSEP Grant
	\$ 65,000	RAC
	\$197,600	County - Cash
	<u>\$ 13,808</u>	<u>County – In Kind</u>
TOTAL	\$552,816	

PROJECT SUMMARY: Granite County has identified three (Boulder Creek, Road 1, Boulder Creek Road 2, and Cow Creek Road) bridges that are in critical condition and in need of replacement. *The proposed project would replace both of the Boulder Creek Road Bridges (BC1 and BC2) with single-span precast, prestressed, concrete tri-deck beam superstructures, and replace the Cow Creek Bridge with a reinforced concrete box culvert, utilizing county road crew to widen the roadway. The project was completed as proposed in the summer of 2012.*

NAME OF RECIPIENT	City of Hardin	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 200,000	Coal Board Grant
	\$1,080,780	SRF Loan
	<u>\$ 250,000</u>	<u>City Cash</u>
TOTAL	\$2,130,780	

PROJECT SUMMARY: The plant has not been automated to protect the public from a potential breakthrough of filters, and many components are outdated, undersized and/or failing. *The proposed project is to automate controls for effluent, filter-to waste rinse capability, automate sludge removal from sedimentation basins, and other miscellaneous items. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Hebgen Lake Estates County Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 720,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 255,000	STAG/WRDA
	<u>\$ 445,200</u>	<u>SRF LOAN</u>
TOTAL	\$1,520,200	

PROJECT SUMMARY: The Montana Department of Environmental Quality (DEQ) issued the county two violation letters, one in 2003 and one in 2005 informing the county that nearby monitoring wells exceeded water quality standards for nitrates and that the lagoon appeared to be leaking. The county signed a consent order with DEQ in 2005; the compliance schedule required the county to complete the construction of new wastewater treatment facility by October 2008. The district has negotiated a new compliance order with DEQ for a completion date of October 2012. *The proposed project would construct a new submersible lift station and, construct a Level 2 treatment system consisting of re-circulating packed filter beds. The project is being completed in two phases. The project has been completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT	Hill County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$174,082	TSEP Grant
	\$132,924	County - Cash
	<u>\$ 41,158</u>	<u>County – In Kind</u>
TOTAL	\$348,164	

PROJECT SUMMARY: Hill County has identified two (Fresno Dam and Herman) bridges that are in critical condition and in need of replacement. *The proposed project would replace the bridge decking on the Fresno Dam Bridge with corrugated metal decking, and replace the Herman Bridge with two, nine-foot corrugated steel culverts, utilizing county crews. The project has been completed as proposed and closed in fall of 2013.*

NAME OF RECIPIENT	Jefferson County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$218,634	TSEP Grant
	\$206,943	County - Cash
	\$ 11,691	County – In Kind
TOTAL	<u>\$437,268</u>	

PROJECT SUMMARY: Jefferson County has identified two (Basin Creek Road & Cottonwood Canyon) bridges that are in critical condition and in need of replacement. *The proposed project would replace the Basin Creek Road Bridge with a precast, pre-stressed concrete tri-deck superstructure, and replace the Cottonwood Canyon Bridge with a concrete box culvert. County has notified TSEP Basin Creek Road bridge has been replaced with other funds. Requested to reduce the scope to only include Cottonwood Canyon Bridge. The project was completed as amended in the fall of 2013.*

NAME OF RECIPIENT	Lincoln County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$287,827	TSEP Grant
	\$287,828	County - cash
TOTAL	<u>\$575,655</u>	

PROJECT SUMMARY: Lincoln County has identified two (Homestead Drive, Bethel Drive bridges that are in critical condition and in need of replacement. *The proposed project would replace the bridges with single-span precast, pre-stressed, concrete tri-deck beam structures. The County submitted a letter in the spring of 2013 declining the grant.*

NAME OF RECIPIENT	Lockwood Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 156,620	Yellowstone County
	\$ 3,003,000	SRF
	\$ 1,890,380	RD GRANT
	\$ 3,000,000	RD LOAN
TOTAL	<u>\$ 8,902,000</u>	

PROJECT SUMMARY: The District lacks a centralized wastewater system. The proposed project would be the second phase and would expand the collection system to serve an additional 1,207 households. *The original proposed project was to install approximately 150,000 feet of gravity sewer line to serve 1,207 additional properties. The project was reduced to approximately 43,000 feet of gravity sewer line to service 645 households. The project has been completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT	Madison County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 699,931	TSEP Grant
	\$ 699,931	County - Cash
TOTAL	<u>\$1,399,862</u>	

PROJECT SUMMARY: Madison County has identified one (Blaine Spring) bridge that is in critical condition and in need of replacement. *The proposed project would replace the bridge with a new steel truss superstructure. The project requested an extension to the contract end date due to timing of MDT funding and months available that work can be performed in the stream bed. The extension was granted until December 2015. The project was completed as proposed and closed in the winter of 2017.*

NAME OF RECIPIENT	Melrose Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$162,000	TSEP Grant
	\$ 47,400	SRF Forgiveness
	\$101,000	SRG Loan
	\$ 15,000	District
TOTAL	<u>\$325,400</u>	

PROJECT SUMMARY: The wastewater system pump seals leaking and wastewater is entering the lubricating oil causing pump failures, the return line for the drywell pumps plug with debris causing the pumps to cavitate and over heat, wet well pumps appear to cavitate upon startup, causing stress on the bearings and seals, lift station is not pumping to design standards, gate valves, check valves, air relief valve, etc. are at the end of their useful life, and inter-pond diversion structures are corroded and non-functional. *The proposed project would replace existing lift station pumping system, and replace the lagoon inlet and interpond structures. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	North Havre County Water District	
PROJECT TYPE	Water System Improvements	

FUNDING	\$ 590,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 379,000	RD Grant
	\$ 783,000	RD Loan
	<u>\$ 101,000</u>	District - Cash
TOTAL	\$1,945,000	

PROJECT SUMMARY: In 2008, the Montana Department of Environmental Quality (DEQ) issued an administrative order against the district citing that the system was in violation various requirements. The district was placed under a boil order and began providing bottled water to customers. One of the stipulations of the administrative order is that the district must disconnect from its surface water supply. In order to comply, an interim service plan has been created whereby the district will receive treated water from the City of Havre, which is scheduled for completion in 2010. The system has various deficiencies at the treatment plant, both storage tanks are deteriorating and are sited on land that is not owned by the District. *The proposed project would renovate the existing facility construct an above-ground concrete storage tank, install approximately 15,480 feet of distribution pipeline, along with associated valves and appurtenances, and replace the existing meters with a drive-by, radio read metering system. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT	Park County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$ 555,626	TSEP Grant
	<u>\$ 608,750</u>	FHWA
TOTAL	\$1,164,376	

PROJECT SUMMARY: The Ninth Street Bridge is in critical condition and in need of replacement. *Replace bridge with a 200-foot, single-lane two-span, pre-stressed superstructure. Park County declined grant in fall of 2011.*

NAME OF RECIPIENT	City of Polson	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL
	<u>\$1,689,500</u>	SRF Loan
TOTAL	\$2,414,500	

PROJECT SUMMARY: A city ordinance, while repealing the water moratorium, places limits on annexation and new water hookups to allow for controlled growth. The water system has inadequate water supply to meet maximum demand and drought, severe corrosion occurring in a critical water storage tank, potential for negative pressures and cross connections in distribution system, and inadequate fire flows for protection of key downtown business and critical community institutions. *The proposed project would install a new east side well, clean and restore the Skyline storage tank, upgrade the downtown water mains by installing approximately 5,630 feet mains; and install approximately 5,150 feet of transfer main along Skyline Drive. Project was #36 in ranking. There was insufficient funding to issue a Letter of Award because of line-item vetoes by the governor in the top 30 which were designated for funding. The City reapplied in 2012 and was awarded funding during the 2013 legislative session. No funding will be used from the 2011 legislative session.*

NAME OF RECIPIENT	Ravalli County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$142,616	TSEP Grant
	\$118,408	County - Cash
	<u>\$ 24,208</u>	County - In Kind
TOTAL	\$285,232	

PROJECT SUMMARY: One bridge (Black Lane) is in critical condition and in need of replacement. The proposed project would replace the bridge with a 27-foot, precast, pre-stressed concrete, solid deck superstructure. *The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Roberts Carbon County Water & Sewer District	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDBG
	\$ 5,000	MCF
	\$ 119,632	SRF
	<u>\$ 15,000</u>	District - Cash
TOTAL	\$1,189,632	

PROJECT SUMMARY: The Montana Department of Environmental Quality (MDEQ) issued a request in 2008, for additional information to demonstrate compliance with the sanitation regulations, as deficiencies were identified during a subdivision review. The wastewater system has high inflow and infiltration causing the lagoon level to rise quickly, the lift station cannot keep up (the lagoon level has been within inches of breaching the dikes, causing the last two manholes to overflow, and releasing raw sewage into the streets and drainage ditches), and there is insufficient detention times in the primary treatment lagoon resulting in inadequately treated wastewater. *The proposed project would replace approximately 1,295 feet of collection mains with open cut pipe, rehabilitate approximately 6,458 feet of collection mains with cured in place pipe, and replace or rehabilitate manholes and lift*

station. The project is complete as proposed and closed in fall of 2013.

NAME OF RECIPIENT	City of Roundup	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDBG
	<u>\$ 210,000</u>	City - Cash
TOTAL	\$1,260,000	

PROJECT SUMMARY: The water system has high levels of iron and manganese, the condition of transmission line from wells to clearwell questionable, clearwell leaking in excess of 84,000 gallons of chlorinated water per day to groundwater, aged and deteriorated cast iron pipe results in two to three leaks each month, and over 36% of existing distribution system unable to deliver recommended fire flows due to undersized mains and one-inch plus of rust and scaling. *The proposed project would install new pumps in the supply wells and by-passing the clearwell to pump directly from the supply wells to the distribution system, install a new chlorination system at the supply well, replace the transmission line crossing the Musselshell River, and replace approximately 4,380 feet of cast iron water mains with PVC mains. The project was completed as proposed in the fall of 2012.*

NAME OF RECIPIENT	Sand Coulee Water District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 282,966	TSEP Grant
	<u>\$ 300,000</u>	RDG
TOTAL	\$ 582,966	

PROJECT SUMMARY: The water source does not meet requirements for the present or design year populations. *The proposed would drill three new wells, and construct a new pump house and controls. The District declined the grant and the grant was terminated.*

NAME OF RECIPIENT	Town of Sheridan	
PROJECT TYPE	Wastewater System Improvements	
FUNDING	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDBG
	\$ 394,000	STAG/WRDA
	\$2,710,000	RD Grant
	<u>\$7,710,400</u>	RD Loan
TOTAL	\$7,114,000	

PROJECT SUMMARY: The Montana DEQ issued an administrative order on consent in 2009 that imposes a moratorium on new sewer hook-ups and requires the town to construct a new treatment facility by the end of 2012. *Proposed project is to gravity sewer main from the existing lagoon discharge point to a new lift station, construction of an aerated treatment lagoon, two lift stations, replace force main, storage lagoons, an irrigation pumping station, and expansion of an existing agricultural pivot. The project was completed as proposed and closed in summer of 2014.*

NAME OF RECIPIENT	Sun Prairie Village County Water & Sewer District	
PROJECT TYPE	Water System Improvements	
FUNDING	\$ 625,000	TSEP Grant
	\$ 100,000	RRGL
	\$ 450,000	CDGB
	\$ 23,000	Local
	\$1,179,000	RD Grant
	<u>\$1,719,000</u>	RD Loan
TOTAL	\$4,096,000	

: The water supply for the district's water system is a well field located on property that is leased from a private landowner set to expire in 2021. The District will need to find a new water supply. There is a high frequency of locatable leaks due to incorrectly installed and no meters. There is a high concentration of sulfate, sodium, iron, and manganese exceed either the recommended standards or the secondary standards set by the U.S. Environmental Protection Agency. *The proposed project includes install four new wells, construct an RO water treatment system, and install about 480 water meters. The well has been completed and the equipment procured for the treatment of the water. The project was completed as proposed and closed in the summer of 2016.*

NAME OF RECIPIENT	Sweet Grass County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$156,678	TSEP Grant
	<u>\$156,678</u>	County - Cash
TOTAL	\$313,357	

PROJECT SUMMARY: Sweet Grass County has identified one (Otter Creek Road) bridge that is in critical condition and in need of replacement. *The proposed project would replace the bridge with a pre-stressed concrete tri-deck beam superstructure. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	West Yellowstone-Hebgen Basin Refuse Disposal District	
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PROJECT TYPE	Solid Waste System Improvements	
FUNDING	\$246,563	TSEP Grant
	<u>\$246,563</u>	<u>District - Cash</u>
TOTAL	\$493,126	

PROJECT SUMMARY: The existing transfer station has inadequate safety devices to protect the public or employees from the hopper, lack of sufficient tipping floor area, no separation of private versus commercial haulers, and insufficient capacity to handle peak daily volumes. *The proposed project would construct approximately 2,400 square feet of new covered area, expand width of tipping area by approximately 60 feet, install push walls to help funnel material flow into the hopper, and provide increased storage of municipal solid waste. The project was completed as proposed in the spring of 2013.*

NAME OF RECIPIENT	Yellowstone County	
PROJECT TYPE	Bridge System Improvements	
FUNDING	\$157,227	TSEP Grant
	<u>\$157,227</u>	<u>County - Cash</u>
TOTAL	\$314,454	

PROJECT SUMMARY: The County had three bridges (12 Mile, South 24th Road, South 44th Road) in critical condition and in need of replacement. *The proposed project would replace all three bridges with concrete box culverts. The project was completed as proposed in the spring of 2013.*

Projects Approved through the 2013 Legislative process

Sixty-six applications requesting \$36,540,484 in TSEP funds were submitted for the 2015 biennium. The 2013 Legislative process approved 64 projects totaling \$33,983,538 in TSEP funds. Two projects withdrew their applications during the legislative session. **If no project status line is shown, the project has been completed. Projects remaining open reflect the status.**

Water, Wastewater, Storm Projects

NAME OF RECIPIENT:	Town of Alberton
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$292,000 TSEP Grant
	\$100,000 RRGL Grant
	\$ 11,800 Local Funds
	<u>\$219,000 SRF Loan</u>
TOTAL	\$622,800

PROJECT SUMMARY: The current system has trouble meeting permit limits during the spring and summer months, has an inability to meet E.coli limits and has excessive sludge build up. The system has a lack of remote monitoring capacity for lift stations #1 and #2 or any type of electrical hook-up point for a backup generator on lift station #2. *The proposed solution is to construct a UV disinfection facility, divide cell 3 into 2 cells, one aerated and quiescent. A floating cover will be installed on quiescent cell and additional aeration in the aerate cell; install SCADA systems for both lift stations and a standby generator connection point for lift station #2; and install variable speed drivers for aeration blowers. The accumulated sludge will be removed and disposed of. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT:	Amsterdam/Churchill Sewer District
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 181,947 Local Funds
	<u>\$2,200,000 RD Loan</u>
TOTAL	\$3,231,947

PROJECT SUMMARY: The existing lagoons are leaking nearly all wastewater inflow into the groundwater, due to leakage, the system has never operated the intended land application effluent disposal. The lagoons are undersized to receive current wastewater flows and one of the lift stations does not have backup power. *The proposed project would abandon the existing treatment facility and construct a lift station and pipeline to convey wastewater to the City of Manhattan wastewater system. Backup power will be provided to lift station #2. The project was completed as proposed and closed in fall of 2016.*

NAME OF RECIPIENT:	Town of Belt
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 250,000 WRDA
	\$ 500,000 RD Grant
	<u>\$ 830,205 RD Loan</u>
TOTAL	\$2,305,205

PROJECT SUMMARY: The treatment facility has had numerous permit limit exceedances and does not provide effluent disinfection. The facility does not have the capability to meet future permit limits. Lift station #1 is in generally poor condition, lift station #2 has numerous deficiencies, and lift station #3 has leaking and corrosion issues. There is insufficient auxiliary power for two of the three lift stations and portions of the collection system are believe to be in poor condition. *The proposed solution is to replace lift station #1 and rehabilitate lift stations #2 and #3. A new spray irrigation system will be constructed, expand the existing treatment cell to accommodate winter storage of treated wastewater and abandon the existing outfall for stream discharge.*

PROJECT STATUS: Project construction awarded in fall 2017 and construction started in spring 2018, with anticipated completion in fall of 2018.

NAME OF RECIPIENT:	City of Boulder
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$1,982,000 RD Grant
	\$3,800,000 RD Loan
	<u>\$ 253,000 Applicant – Cash</u>
TOTAL	\$6,760,000

PROJECT SUMMARY: The existing lagoons are leaking an excessive quantity of wastewater. The lagoons are located within the Boulder River floodplain and are at risk of a washout during a major flood event and have a significant amount of settled sludge which reduces the treatment capacity of each cell. The treatment performance has consistently not met DEQ discharge permit limits and the latest discharge permit contains new limits that consistently cannot be met. The collection system has had persistent root infestation which has caused

back up into a basement. *The proposed solution is to construct a mechanical plant to replace the lagoon system, install an ultraviolet disinfection facility and construct a sludge processing, thickening, and removal facility. The solution will also provide about 1,600 feet of collection system improvements and implement dewatering and removal of existing sludge. The project was completed as proposed and closed in winter of 2016.*

NAME OF RECIPIENT:	Town of Cascade
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL
	\$ 450,000 CDBG
	\$ 10,951 Local
	\$ 385,000 SRF Loan
	<u>\$ 385,000 SRF Loan Forgiveness</u>
TOTAL	\$2,080,951

PROJECT SUMMARY: Over a quarter of the existing distribution system is comprised of 97 year old steel or cast iron pipe. Tuberculation forms iron and manganese deposits on the interior of the old pipe decreasing water flow, limiting distribution and fire flow capacity. Old pipe is subject to electrolysis, which corrodes and forms holes in the pipe creating a potential entry point for contaminants. *The proposed solution is to replace about 10,800 lineal feet and complete necessary looing in the system to install new six inch and eight inch diameter PCV pipe. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT:	City of Chinook
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 17,000 Applicant - Cash
	\$3,610,000 RD Grant
	<u>\$2,237,000 RD Loan</u>
TOTAL	\$6,714,000

PROJECT SUMMARY: The City has recent MCL violations of the Stage 1 Disinfection and Disinfection Byproducts Rules. A lack of optimization of alum coagulation results in elevated filter TOC concentrations. There is an inability to monitor and control backwash flow rates; excessive chlorine contact time; leaking valves on the backwash pump; and the flocculation basin paddle speed control is not functioning. *The proposed solution is to add enhanced coagulation; an ultraviolet disinfection system; chloramine system; upgrade electrical and plant control systems; package plant upgrades; modification of the chlorine contact basin, and upgrade the high service pumps. The project was completed as proposed and closed in spring of 2016*

NAME OF RECIPIENT:	City of Choteau
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 148,000 Local
	\$2,503,000 SRF Loan 1
	\$ 400,000 SRF Loan 2
	\$1,850,000 RD Grant
	<u>\$3,860,000 RD Loan</u>
TOTAL	\$9,511,000

PROJECT SUMMARY: There are sections of the sewer main subject to high infiltration and permit violations due to sludge accumulation, short circuiting, insufficient detention time and an inability to meet proposed ammonia limits. *The proposed solution is to replace or rehabilitate about 5,300 feet of sewer main and construct a new treatment system and biosolids storage ponds and sand drying beds. The project was completed as proposed and closed in fall of 2017.*

NAME OF RECIPIENT:	City of Conrad
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	<u>\$ 793,000 SRF Loan</u>
TOTAL	\$1,418,000

PROJECT SUMMARY: Excess leakage has been identified in the trailer park due to corroded steel service saddles and deterioration of poor quality, off-size plastic pipe. The system also has dead end mains that allow stagnant water, decreased water quality and fire flow. *The proposed solution is to replace the Trailer Park service lines and loop the dead end mains and install about seven new hydrants. The project was completed as proposed and closed in fall of 2015.*

NAME OF RECIPIENT:	Craig County W & S District
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 998,000 RD Grant
	\$1,300,000 RD Loan
	<u>\$ 79,356 District – Cash</u>
TOTAL	\$3,227,356

PROJECT SUMMARY: The District has individual septic systems that do not meet well separation requirements for well and septic siting; groundwater levels and many wells in the area are shallow, which increases vulnerability to septic contamination. The County Health Department indicates that variances for drainfield replacements will not be granted in the absence of the required separations. Nitrate levels in 15 of the 28 tested wells were above ambient background concentrations; two of the three active public water systems have, or have had, nitrate and/or coliform problems. *The proposed project would construct a conventional gravity sewer system, mechanical wastewater treatment package plant and provide for effluent discharge into a constructed wetlands. The project was completed as proposed and closed in spring of 2018*

NAME OF RECIPIENT:	City of Cut Bank
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP
	\$ 125,000 RRGL
	\$ 7,516,200 RD Loan
	<u>\$ 3,563,500 RD Grant</u>
TOTAL	\$11,829,000

PROJECT SUMMARY: The recent MPDES permit includes an ammonia limit that the existing lagoon cannot meet. Sanitary sewer overflows in basements have resulted from deficient collection pipes. Sanitary sewer service has been lost because of freezing in a shallow main resulting in back-ups. *The proposed solution is to construct a new lined facultative treatment lagoon, additional transmission main and lift station; a lined storage lagoon. The City will also construct an irrigation system for slow rate land application. They will also replace the shallow main with a sufficient depth to protect the line from freezing and about 1,100 lineal feet of main.*

PROJECT STATUS: The project is in construction with completion of project activities anticipated by winter of 2018.

NAME OF RECIPIENT:	Dawson County – West Glendive
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	<u>\$2,995,000 SRF Loan</u>
TOTAL	\$3,845,000

PROJECT SUMMARY: The pumps in Lift Station #1 have a total pumping capacity of 1,200 gpm, which exceeds the full flow capacity. During storm events or high flow, raw wastewater either backups into homes and businesses, or the operator has to pump raw wastewater from Lift Station #1 into an adjacent storm drainage ditch. I&I ranges from 120 gpm during the low groundwater periods to the high of 200 gpm during high groundwater periods. A side channel of the Yellowstone River is the current receiving stream for discharge of treated effluent. It is anticipated that the County's next permit will include significantly more stringent ammonia toxicity and Whole Effluent Toxicity limits which the County will not be able to meet with the existing treatment system. The Total Suspended Solids discharge permit limit was more stringent in the last permit cycle, which has resulted in permit violations. The existing treatment system is not capable of meeting the minimum treatment limits associated with the secondary treatment standards which create a public health hazard and results in the degradation of State waters. *The proposed solution is to construct a force main between Lift Station #1 and Lift Station #2. The West Glendive collection system will connect to the City of Glendive's wastewater treatment system. The connection includes: crossing the Yellowstone River by attaching to the Town Street Bridge; install a new lift station to pump wastewater across the river to the City's forcemain; new forcemain to pump wastewater from Highland Park Subdivisions to Lift Station #2; and sludge removal and site reclamation at the old lagoon site. The project was completed as proposed in fall of 2017.*

NAME OF RECIPIENT:	Town of Drummond
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 10,000 Applicant – Cash
	\$ 445,000 RD Grant
	<u>\$1,037,000 RD Loan</u>
TOTAL	\$2,342,000

PROJECT SUMMARY: The existing lagoon leaks about 10-inches per year into the groundwater, resulting in zero-surface discharge into the river. There is accumulated sludge in the lagoon and the single-celled and lack of additional cells result in no treatment, operational and maintenance flexibility. *The proposed solution is to install two berms in the existing lagoon to separate the lagoon into two primary cells and one secondary cell, install impermeable synthetic liner to each of the cells, and dispose of accumulated sludge by land application. The Town determined they did not need the grant and the funds were recaptured by the program in January 2015.*

NAME OF RECIPIENT:	Town of Dutton
PROJECT TYPE:	Water System Improvements
FUNDING:	\$408,500 TSEP Grant
	\$100,000 RRGL Grant
	\$161,479 SRF Grant
	<u>\$162,000 SRF Loan</u>
TOTAL	\$831,979

PROJECT SUMMARY: The majority of the water valves are not operable. The entire system must be drained in order to make a repair by closing a valve on the storage transmission main, thus causing a risk of backflow. There are two inoperable fire hydrants near the school. All firefighting capabilities are eliminated during a repair because of the need to drain the entire system. The storage tank is currently leaking; tank inspection verified staining and corrosion on the interior. The tank has never been recoated. Ductile iron piping in the chlorination vault is badly corroded. There is no bypass around the chlorine vault and a pipe failure in the chlorine vault would cut off the water supply to the Town. The computer and software that control the telemetry system is outdated, if a problem were to arise the operator would be forced to manually operate the pumps while monitoring the level in the tank that is miles away. *The proposed solution is to recoat the tank, upgrade the distribution system with new water valves and hydrants. Replace chlorine piping and the telemetry computer and install 8-inch transmission main from the main well source to the distribution system. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT:	Town of Eureka
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 550,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 552,000 RD Grant
	<u>\$ 499,000 RD Loan</u>
TOTAL	\$1,701,000

PROJECT SUMMARY: The infiltration galleries are groundwater under the direct influence of surface water and violate treatment technique requirements. *The proposed solution is to construct a "backwashable" cartridge filtration facility to add on to the existing water treatment facility. The project was completed as proposed and closed in winter of 2018.*

NAME OF RECIPIENT:	Town of Fairfield
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 518,926 RD Grant
	\$1,210,827 RD Loan
	<u>\$ 50,000 Applicant - Cash</u>
TOTAL	\$2,629,753

PROJECT SUMMARY: The lagoon does not meet DEQ design standards for detention time or BOD removal and is leaking. Groundwater is seeping into the lagoon. Excessive sludge buildup has reduced the operation capacity of the lagoon and will have difficulty in meeting upcoming permit limits. *The proposed solution is to reconstruct the existing lagoon with a new three cell aerated lagoon, install UV disinfection and provide for continuous discharge.*

PROJECT STATUS: Construction is anticipated to begin in summer 2018 with closeout in fall 2018.

NAME OF RECIPIENT:	City of Forsyth
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 250,000 Coal Board
	\$2,199,700 SRF Loan
	<u>\$ 385,000 Applicant - Cash</u>
TOTAL	\$3,434,700

PROJECT SUMMARY: The system has high infiltration and inflow rates that overwhelm the treatment plant resulting in the plant being bypassed. The sewer system has severe structural problems with some collapsed segments, and inadequate slopes for many of the sewer lines resulting in plugging and back-ups into homes. *The proposed project would replace about 8,000 feet of mains and remove two storm sewer inlets that are connected to the system. Project completed as proposed and closed out winter of 2014.*

NAME OF RECIPIENT:	City of Fort Benton
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 812,000 RD Grant
	\$ 2,475,000 RD Loan
	<u>\$ 191,000 Local Funds</u>
TOTAL	\$4,308,000

PROJECT SUMMARY: The City has experienced breaks in the steel raw wastewater force main and discharge permit violations consistently do not meet the permit limits. E.coli limits have been added to the discharge permits. An AOC includes a compliance plan for upgrades to their system. Secondary treatment standards are needed to the minimum treatment limits considered to protect designates uses of the Missouri River. *The proposed solution is to rehabilitate the existing lagoons, build a third lagoon cell and install a new center pivot irrigation system and pump. Project was completed as proposed and closed out summer of 2018.*

NAME OF RECIPIENT: City of Glendive
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 1,271,900 Local
\$ 200,000 WRDA
\$17,316,000 SRF Loan
TOTAL \$19,637,900

PROJECT SUMMARY: The current treatment system has very little process control, thus causing the City to not meet current permit limits for secondary treatment standards. The current system is not disinfected. There have been three breaks in the forcemains within the last two years. Raw Wastewater has been discharged into the Glendive Creek and ultimately the Yellowstone River. The system has failed whole effluent toxicity tests because of a lack of mixing zone dilution in the Glendive Creek. The County and City have signed a MOU to connect the West Glendive system to Glendive. *The proposed solution would be to construct a mechanical wastewater treatment facility, UV disinfections and reclaim existing lagoons with sludge removal to the City landfill. Project was completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT: City of Hamilton
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 322,262 TSEP Grant
\$ 100,000 RRGL Grant
\$ 450,000 CDBG Grant
\$1,001,000 Applicant - Cash
TOTAL \$2,301,000

PROJECT SUMMARY: The current disinfection system does not have a method to dechlorinate prior to discharge to the Bitterroot River. Additional aeration is needed in the sludge storage basin to maintain aerobic digestion. *The proposed solution is to replace the disinfection system with a UV disinfection system and replace the existing aeration blowers with new rotary lobe blowers. Project was completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT: City of Harlem
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 625,000 TSEP Grant
\$ 2,986,000 RD Grant
\$ 1,205,000 RD Loan
TOTAL \$ 4,816,000

PROJECT SUMMARY: The existing system allows untreated or inadequately treated wastewater to discharge to the river several months each year which has resulted in multiple violations of its discharge permit. The sludge depths are excessive, there is a lack of emergency power for the lagoon equipment, the aeration equipment and other appurtenances are worn out, and the pumping stations are unsafe, violate electrical and OSHA codes, and are obsolete. *The proposed solution is to repair and upgrade the main wastewater pump station and convert the existing system to a facultative lagoon with spray irrigation thereby eliminating the Milk River discharge. Project was completed as proposed and closed in winter 2017.*

NAME OF RECIPIENT: City of Harlowton
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 625,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 164,000 RD Grant
\$ 711,000 RD Loan
TOTAL \$1,600,000

PROJECT SUMMARY: The current system has been plagued with groundwater infiltration and inflow. The collection system is routed through the lower areas of the city which have high groundwater and crosses several seasonal streams. Storm water can enter through roof drains, storm drain inlets, deteriorated manholes and perforated manhole covers. The city cannot meet final effluent limits in its discharge permit and the current plant will not be able to meet the E.coli and total chlorine residual limits. *The proposed solution it to rehabilltee problem sewer lines 8-inches in diameter and large and replace current 6-inch pipe with 8 inch pipe. The City will video inspect the lines and replace approximately 40-45 manholes. Project was completed as proposed and closed in fall of 2014.*

NAME OF RECIPIENT: City of Havre
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 500,000 TSEP Grant
\$ 100,000 RRGL Grant
\$11,169,550 SRF Loan
\$ 434,096 Applicant - Cash
TOTAL \$12,403,646

PROJECT SUMMARY: The current system has several areas in need of upgrades and process equipment. Some areas of the plant have a lack of redundancy that must be operated to maintain new ammonia limits. The pipeline to the sludge disposal lagoons has experience several breaks in recent years and the capacity of these

lagoons has been noted as a concern by DEQ. *The proposed solution is to rehabilitate and expand the existing treatment plant. The project will also include replacing existing chlorine gas and sulfur dioxide chlorination/dechlorination in the UV system and conduct an infiltration and inflow study. Project was completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT: Hill County – North Havre
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$211,500 TSEP Grant
 \$ 1,574 Local
 \$211,500 CDBG
TOTAL \$424,574

PROJECT SUMMARY: There are exposed sewage force mains that pose a threat to the public. The exposer is caused by riverbank erosion on the Milk River and is susceptible to failure from floating debris or ice jamming. RSID #11 lift station has an unsafe pump platform. *The proposed solution is to abandon two existing wastewater force mains and replace them with new pipes, using horizontal drilling techniques and rehabilitate the RSID #11 lift station. Project was completed as proposed and closed in spring of 2016.*

NAME OF RECIPIENT: Town of Hot Springs
PROJECT TYPE: Water System Improvements
FUNDING: \$ 592,550 TSEP Grant
 \$ 450,000 CDBG Grant
 \$ 156,805 Intercap Loan
TOTAL \$1,199,355

PROJECT SUMMARY: The current system lacks a SCADA system interconnecting the Town’s three wells has led to problems with dewatering of the storage tank in the past. In the event of a failure of well #1 automatic startup, the other two wells must be started manually. The controls in well #1 occasionally malfunction, causing the pump not to start when water levels drops to the prescribed turn-on levels. There is inadequate fire protection to the public schools and a lack of storage. *The proposed solution is to build a storage tank and transmission main north of the town limits and install 8-inch main extensions for fire protection at the school. A SCADA system will be installed and connect for wells #2 & #3, including a new central terminal unit. The project was completed as proposed and closed in spring of 2016.*

NAME OF RECIPIENT: Town of Joliet
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 154,200 TSEP Grant
 \$ 100,000 RRGL Grant
 \$ 240,000 WRDA Grant
 \$ 84,386 SRF Loan A
 \$ 720,683 SRF Loan B
TOTAL \$1,299,269

PROJECT SUMMARY: The current lagoon aerators get fouled by solids and trash that enter the system. Spring turnover degrades the water quality. The system lacks disinfection to meet permit effluent limits and has a failing backup generator. *The proposed project will rehabilitate or replace 12, 10 and 8 inch clay tile sewer main, and remove and dispose of sludge from cells 1 & 2, install a new UV disinfection system and replace the backup generator. The project was completed as proposed and closed in winter of 2016.*

NAME OF RECIPIENT: City of Libby
PROJECT TYPE: Water System Improvements
FUNDING: \$ 750,000 TSEP Grant
 \$ 100,000 RRGL Grant
 \$ 450,000 CDBG Grant
 \$4,719,000 RD Grant
 \$ 421,000 Supplemental RD Grant
 \$3,200,000 RD Loan
 \$ 490,000 Supplemental RD Grant
 \$ 800,000 DNRC Loan
 \$ 581,000 Applicant - Cash
TOTAL \$11,511,000

PROJECT SUMMARY: The Upper Flower Creek Dam is no longer believed to have adequate strength to meet the required minimum safety factor for a concrete arch dam and the strength of the concrete is likely to continue to deteriorate to a level that could result in failure of the dam. *The proposed project will replace the Upper Flower Creek Dam. The project was completed as proposed and closed out spring of 2016. The project was completed as proposed and closed out in summer 2016.*

NAME OF RECIPIENT: Town of Lodge Grass
PROJECT TYPE: Wastewater System Improvement
FUNDING: \$ 750,000 TSEP Grant
 \$ 100,000 RRGL Grant
 \$ 450,000 CDBG Grant
 \$ 200,000 Coal Board Grant
 \$ 1,282,000 IHS Grant

	\$ 2,100,000 RD Grant
	<u>\$ 208,000 RD Loan</u>
TOTAL	\$4,965,000

PROJECT SUMMARY: The current lagoon does not consistently meet discharge permit limits and design standards. The collection system is afflicted with several deficiencies and is aged. Portions of the collection system have undersized mains and flooding in 2011 and subsequent lagoon dike breaches resulted in untreated wastewater being flushed from the facility. *The proposed solution is to replace the system with an aerated lagoon and replace collection mains and selected manholes on Bryan, Taft Avenues and Hill Street.*

PROJECT STATUS: Project phase one construction was completed in summer of 2017, phase two began construction summer 2017 with completion fall 2018.

NAME OF RECIPIENT:	City of Malta
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 500,000 Local
	<u>\$4,940,000 SRF Loan</u>
TOTAL	\$6,040,000

PROJECT SUMMARY: The current system has many distribution lines that are undersized, resulting in low water supply; do not meet DEQ standards for fire flow and leak and break frequently. Three of the pump houses cannot be served by auxiliary power because they lack transfer switches and the roofs are old and deteriorating. *The proposed solution is to install eight, ten and twelve inch PVC water main, 35 fire hydrants, and renovate the well house roofs and install transfer switches. The project was completed as proposed and closed in winter of 2018.*

NAME OF RECIPIENT:	Town of Manhattan
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 175,000 WRDA Grant
	<u>\$ 752,000 SRF Loan</u>
TOTAL	\$1,777,000

PROJECT SUMMARY: The water system has inadequate fire flows, low system pressures during peak demands and fire flow conditions, lacks any storage capacity, and overall fire protection. *The proposed solution is to construct a new storage tank and 16 inch transmission line to connect to the distribution system. The project will replace the booster station on the spring line to account for increased head on the system. Project was completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT:	City of Miles City
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 100,000 RRGL Grant
	<u>\$6,276,000 SRF Loan</u>
TOTAL	\$6,876,000

PROJECT SUMMARY: The system is not capable of meeting the new disinfection limits and chlorine residual requirements included in the discharge permit. The solids handling process is very labor intensive that are not in compliance with current regulations. *The proposed solution is to construct a second aerobic digester, make improvements that would allow dewatered solids to be composted on-site, construct an UV system and a protective building around the UV channel, and construct a septage receiving station. The project will convert the existing chlorine contact basin into an aerated sludge holding tank and install a sludge thickening process. A mechanical dewatering will be implemented by digesting the sludge using a screw press. Project was completed as proposed and closed in spring of 2018.*

NAME OF RECIPIENT:	Town of Moore
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 499,000 RD Grant
	\$ 653,000 RD Loan
	<u>\$ 3,000 Applicant - Cash</u>
TOTAL	\$1,880,000

PROJECT SUMMARY: The lagoon liner has torn because of faulty installation on rocky subgrade and raw and partially treated wastewater has been leaking directly into surrounding soil and groundwater. Based on flow data, the lagoons are losing over 78% of the influent per year, which is about 7.1 MG greater than allowable. *The proposed solution is to rehabilitate the existing lagoons, build a third lagoon cell to meet DEQ regulations and install a new center pivot irrigation system and pump. The project was completed as proposed and closed out spring 2017.*

NAME OF RECIPIENT: Musselshell County W & S District
PROJECT TYPE: Water System Improvements
FUNDING: \$ 450,125 TSEP Grant
\$ 105,000 Coal Board Grant
\$ 46,000 District
\$ 551,000 RD Grant
\$ 116,000 RD Loan
TOTAL \$1,268,125

PROJECT SUMMARY: The District lacks sufficient water supply and backup supply. The pipes are obsolete; there is bacterial growth in the dean end mains. The pressure tank is a retrofitted propane tank that is corroded and presents a safety hazard. There are an inadequate number of isolation valves on the distribution system. There is a lack of insulation and heat in the wellhouse which leads to the risk of frozen pipes. There is an undersized and unreliable emergency generator that only operates one well pump. *The proposed project is to install a new well; replace all known black plastic pipe; additional valves, and radio read meters, and wellhouse improvements. Project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT: Town of Philipsburg
PROJECT TYPE: Water System Improvements
FUNDING: \$ 550,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 43,003 Local Funds
\$ 212,000 SRF Grant
\$ 212,000 SRF Loan
TOTAL \$1,117,003

PROJECT SUMMARY: The system does not have a second form of disinfection as required in order to maintain the filtration avoidance criteria for the Fred Burr Source. The existing pressure reducing valves are nearing the end of their useful life and the valves have occasionally malfunctioned leading to excessive pressures in some areas of the distribution system. *The proposed project will be to construct a new UV disinfection system to allow the town to maintain its filtration waiver. The Town will replace all four pressure reducing valve stations including replacements of the valves and buried vaults. The project was completed as proposed in fall 2016.*

NAME OF RECIPIENT: Town of Pinesdale
PROJECT TYPE: Water System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 450,000 CDBG Grant
\$ 372,582 RD Grant
\$ 869,357 RD Loan
TOTAL \$2,541,939

PROJECT SUMMARY: The system has surface water treatment technique violations for turbidity resulting in an Administrative Order from EAP. Disinfection byproducts (DBPs) are above the MCL. *The propose project is to construct a new water treatment facility using filtration with coagulation; followed by granular activated carbon filtration. The project was completed as proposed winter 2017.*

NAME OF RECIPIENT: Town of Plevna
PROJECT TYPE: Water System Improvements
FUNDING: \$ 500,000 TSEP Grant
\$ 100,000 RRGL Grant
\$1,112,132 Applicant - Cash
TOTAL \$1,712,132

PROJECT SUMMARY: The water system has a deteriorated and undersized storage reservoir and 2 – inch water distribution mains. *The proposed solution is to replace the storage tank and the existing water main with 6-inch pipe, and install four fire hydrants. The project is complete as proposed and closed in winter of 2015.*

NAME OF RECIPIENT: City of Polson
PROJECT TYPE: Water System Improvements
FUNDING: \$625,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 755,620 SRF Loan
TOTAL \$1,480,620

PROJECT SUMMARY: The City has inadequate water supply to meet future maximum and drought, and has a potential for negative pressures and cross connections in the distribution system. There are inadequate fire flows for protection of downtown businesses. *The propose solution is to install an east side well and replace about 4,500 feet of downtown water mains. The project was completed as proposed and closed in spring 2017.*

NAME OF RECIPIENT: Richland County - Savage
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 100,000 RRGL Grant
\$ 100,000 Coal Board Grant
\$ 13,000 Local

	\$ 425,276	CDBG
	\$ 266,000	RD Grant
	<u>\$ 936,000</u>	<u>RD Loan</u>
TOTAL	\$2,590,276	

PROJECT SUMMARY: The collection system is deteriorated with root intrusions, sand, silt, clay, and gravel build-ups. An ACO was issued because of numerous discharge-permit violations because of the lagoon's inability to adequately treat wastewater to the existing discharge permit. The lagoon is leaking excessively to area groundwater and to the adjacent irrigation overflow ditch. The lagoon is out of compliance with the current design criteria. The system has experience increased demands because of growth in the area. *The proposed project will be to implement video inspection of the collection system and construct a facultative lagoon system with land application. The project was completed as proposed and closed in spring of 2018.*

NAME OF RECIPIENT:	City of Roundup	
PROJECT TYPE:	Water System Improvements	
FUNDING:	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$1,392,000	SRF Loan
	<u>\$ 252,250</u>	<u>Applicant – Cash</u>
TOTAL	\$2,244,250	

PROJECT SUMMARY: The City has deteriorated cast iron pipe that allows about 20% leakage. Over 36^ of existing distribution system is unable to deliver the recommended fireflows. About 35 of the gate valves are rusted in the "open" position, making isolating portion of the system difficult. Corrosion of the mains has led to high levels of iron, manganese, sulfur, and TDS in the drinking water. Scaling from pipes necessitates special screen on firefighting equipment. *The proposed solution is to replace approximately 5,000 feet of main with PVC pipe and about 14 hydrants. Project is complete as proposed and closed in summer of 2015.*

NAME OF RECIPIENT:	Seeley Lake Sewer District	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$1,521,700	STAG Grant
	\$ 680,000	WRDA Grant
	\$1,300,000	RD Grant
	<u>\$2,105,300</u>	<u>RD Loan</u>
TOTAL	\$6,907,000	

PROJECT SUMMARY: The current system consists of onsite septic systems. Nitrate and chloride data from multiple groundwater studies suggests groundwater is being degraded by septic tank effluent; groundwater monitoring wells confirm the presence of elevated nitrates, total coliforms, and fecal coliforms in the groundwater down-gradient of the community. A significant percentage of the permitted on-site septic systems were installed without solid header pipes for uniform distribution to the drainfield laterals and many lots were developed with seepage pits rather than drainfields. *The proposed solution is to install gravity sewer mains and associated manholes; a force main; service lines; construct a lift station and a sequencing batch reactor treatment plan.*

PROJECT STATUS: Project has identified final project components and passed a rate structure acceptable to the residents. The project anticipates beginning construction in spring of 2018.

NAME OF RECIPIENT:	City of Shelby	
PROJECT TYPE:	Storm Water System Improvements	
FUNDING:	\$ 625,000	TSEP Grant
	<u>\$1,491,799</u>	<u>SRF Loan</u>
TOTAL	\$2,116,799	

PROJECT SUMMARY: Undersized pipe has caused flooding near the 7th Ave and 6th Ave N intersections with Front Street causing flooding along the BNSF mainline. There is undersize pipe on the north side of the tracks. Inadequate storm drain inlet capacity causes some street to become inundated and has caused minor property damage to businesses situated south of Main Street. Existing detention ponds are not functioning correctly and are causing stagnant water. *The proposed solution is to replace the main trunk line in Front Street, provide detention pond improvements and ditch improvements.*

PROJECT STATUS: Project is in construction with close out in December 2018.

NAME OF RECIPIENT:	South Wind W & S District	
PROJECT TYPE:	Water and Wastewater System Improvements	
FUNDING:	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 500,000	WRDA
	\$ 300,000	RD Grant
	<u>\$ 374,000</u>	<u>RD Loan</u>
	\$2,474,500	

PROJECT SUMMARY: The trailer court wastewater treatment system is in violation of the Montana Water Quality Act for degrading ground water because of elevated levels of nitrates and ammonia. Floats in the lift station malfunction, the lagoon volume is 45% of that required by current design standards. Drinking water contains high arsenic MCL and is of poor quality. The water mains are undersized, resulting in substandard pressure, and has substandard pipe materials.

PROJECT STATUS: Phase 1 of the project, which includes the water portion is in completed. The wastewater portion has gone out to bid and with anticipated construction in the spring of 2019 with completion in fall of 2019.

NAME OF RECIPIENT:	Town of Stevensville
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$2,155,000 RD Grant
	\$1,250,000 RD Loan
	<u>\$ 279,000 Applicant – Cash</u>
TOTAL	\$4,534,000

PROJECT SUMMARY: The current system required Town personnel to handle the manual bar rack multiple times posing a health risk to the employees. The system will likely not be able to meet the new nitrate effluent limits and has not grit removal capabilities resulting in common failure of the submersible pump systems. *The proposed solution is to construct a new headworks facility and convert the existing aerobic digester to conventional biological nutrient removal. The project was completed as proposed and closed in fall 2016.*

NAME OF RECIPIENT:	City of Three Forks
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 379,000 WRDA
	\$ 135,995 Local
	<u>\$4,890,344 SRF Loan</u>
TOTAL	\$6,255,339

PROJECT SUMMARY: The City has had over 40 permit discharge violations since 2009. The existing treatment facility does not meet the minimum detention time allowed by DEQ, the storage cell leaks about 15 times the current leakage standard. The level control structure and effluent discharge lift station are no longer operational. The facility cannot meet new E. coli limits and there is potential that the groundwater is being contaminated. *The proposed solution is to construct an advanced lagoon process that includes prescreening, a complete mix lagoon followed by two partial mix/settling lagoons and UV disinfection prior to pumping effluent to the Madison River for discharge. The project was completed as proposed and closed in summer 2017.*

NAME OF RECIPIENT:	Town of Valier
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 459,000 RD Grant
	<u>\$ 775,000 RD Loan</u>
TOTAL	\$2,084,000

PROJECT SUMMARY: The Town is operating under an AOC that modifies portions of the permit. There have been 39 permit violations for biochemical oxygen demand and total suspended solids. The collection system is undersized, lacks manholes, and contains cracked and broken clay pipe. There have been six sites identified that are not currently serviced by the public collection system; five of these use a septic tank and drainfield which could ultimately contaminate groundwater. *The proposed project is to upgrade the treatment facility, replace approximately 5,000 lineal feet of collection pipe and install 19 new manholes. The project will extend service to 6 new users, including 4 grinder pumps and force mains. Project was completed as proposed and closed in fall of 2015.*

NAME OF RECIPIENT:	Vaughn County W & S District
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 100,000 RRGL Grant
	<u>\$1,122,645 SRF Loan</u>
TOTAL	\$1,972,645

PROJECT SUMMARY: The treatment facility is incapable of meeting final effluent discharge limits and is under an AOC. The influent lift station and collection system is outdated and is over one-half below groundwater level and allows groundwater infiltration and inflow. *The proposed solution is to replace the existing influent lift station and to allow spray irrigate effluent between May 1 – September 30 and discharge to the Sun River the remaining part of the year.*

PROJECT STATUS: Project has been bid and awarded with construction to start spring 2018, to be completed by fall 2018.

NAME OF RECIPIENT: City of White Sulphur Springs

PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$460,500	TSEP Grant
	\$100,000	RRGL Grant
	<u>\$427,500</u>	SRF Loan
TOTAL	\$988,000	

PROJECT SUMMARY: The current system is continually receiving permit limit violations and cannot meet secondary treatment standards. The system has excessive infiltration and inflow in the collection system and has deteriorating manholes and erosion of lagoon dikes. There is measurable seepage through the lagoon liner and has an accumulated sludge in the lagoons. *The proposed would address infiltration and inflow by installing a CIPP liner in the sewer main. The City will also replace sewer mains and service lines along with rehabilitate or replace about 20 manholes and reconnect 55 sewer service lines. Project was completed as proposed in summer of 2014.*

NAME OF RECIPIENT:	Town of Winifred	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 500,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	\$ 300,000	Watersmart Grant
	\$ 122,850	RD Grant
	\$ 150,150	RD Loan
	\$ 625,000	Town will discuss with appropriate legislature
	<u>\$ 125,000</u>	Applicant – Cash
TOTAL	\$2,498,000	

PROJECT SUMMARY: The lagoon system is not lined and is losing significant flow to groundwater, does not meet certain treatment standards and separation requirements between the bottom of the lagoon and the top of the groundwater aquifer. The system is located in a creek bottom and it is anticipated that an evaluation would demonstrate the lagoon is within a floodplain. The draft permit will require standards that the current system will not be able to meet. *The proposed solution is to construct a two cell, line facultative lagoon, lift station and force main, and an effluent disposal system using spray irrigation. The project would decommission and reclaim the existing lagoon and dispose of the sludge. The grant award was declined by the Town in June 2015 and was recaptured by the program.*

NAME OF RECIPIENT:	Town of Winnett	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 750,000	TSEP Grant
	\$ 100,000	RRGL Grant
	\$ 450,000	CDBG Grant
	<u>\$1,004,000</u>	RD Loan
TOTAL	\$2,304,000	

PROJECT SUMMARY: The system was issued an AOC to address violations at the wastewater treatment facility. Discharge from the facility does not consistently meet permit limits. The system is aged. The system does not have capacity to meet current and impending discharge permit limits. The lift station has several deficiencies. *The propose solution is to construct an aerated lagoon with storage and land application and improve the lift station. The project failed to meet start up requirements and the grant award was recaptured by the program.*

Bridges

NAME OF RECIPIENT:	Anaconda-Deer Lodge County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$312,104	TSEP Grant
	<u>\$313,337</u>	County - Cash
TOTAL	\$624,209	

PROJECT SUMMARY: Anaconda-Deer Lodge County has identified two (Stumptown Road, Willow Glen Road) bridges as in need of replacement. *The proposed solution is to replace Stumptown Road Bridge with a 60 foot long concrete tri-deck beam superstructure and Willow Glen Road Bridge with a 50 foot long steer girder superstructure. The project was completed as proposed in January 2016.*

NAME OF RECIPIENT:	Big Horn County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$237,462	TSEP Grant
	<u>\$237,462</u>	County - cash
TOTAL	\$474,924	

PROJECT SUMMARY: Big Horn County has identified two (Owl Creek Road, Two Leggin's Creek) bridges as in need of replacement. *The proposed solution is to replace Owl Creek Road Bridge with a 50 foot long concrete tri-deck beam superstructure and Two Leggin's Creek Bridge with twin aluminum arch pipe culverts. The project was completed as proposed in spring of 2015.*

NAME OF RECIPIENT: **Blaine County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$254,000 TSEP Grant
\$255,347 County – Cash
TOTAL \$509,347

PROJECT SUMMARY: Blaine County has identified Stockyard Road Bridge as in need of replacement. *The proposed solution would be to replace the bridge with a 92 foot long concrete bulb tee beam superstructure. The County declined the grant in March 2015 and the program recaptured the funds.*

NAME OF RECIPIENT: **Carbon County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$455,675 TSEP Grant
\$455,675 County – Cash
TOTAL \$911,350

PROJECT SUMMARY: Carbon County has identified two (Montaqua Road, Poverty Flat Road) bridges as in need of replacement. *The proposed solution will be to Montaqua Road Bridge with a 130 foot long concrete bulb tee beam superstructure and Poverty Flat Road Bridge with a concrete box culvert. The project was completed as proposed and closed in spring of 2016.*

NAME OF RECIPIENT: **Chouteau County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$178,920 TSEP Grant
\$231,112 County - cash
TOTAL \$410,032

PROJECT SUMMARY: Chouteau County has identified Upper Highwood Creek Road Bridge as in need of replacement. *The proposed solution is to replace the bridge with a 65 foot long concrete tri-deck superstructure. The project was completed as proposed and closed in fall of 2015.*

NAME OF RECIPIENT: **Glacier County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$281,927 TSEP Grant
\$281,927 County - cash
TOTAL \$563,854

PROJECT SUMMARY: Glacier County has identified Pardue Road Bridge as in need of replacement. *The proposed solution is to replace the bridge with a 98 foot long concrete bulb tee beam superstructure. The project was completed as proposed and closed in fall of 2017.*

NAME OF RECIPIENT: **Granite County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$376,004 TSEP Grant
\$405,237 County – Cash
TOTAL \$781,241

PROJECT SUMMARY: Granite County has identified two (Henderson Creek Road, Douglas Creek Road) bridge as in need of replacement. *The proposed solution will be to replace the bridges with an 80 and 70 foot respectively concrete bulb tee superstructures. The project was completed as proposed and closed in winter of 2016.*

NAME OF RECIPIENT: **Jefferson County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$381,882 TSEP Grant
\$381,882 County - cash
TOTAL \$763,764

PROJECT SUMMARY: Jefferson County has identified two (Dunn Lane, Saturday Night) bridges as in need of replacement. *The proposed solution is to replace Dunn Lane Bridge with an 80 foot concrete bulb tee beam superstructure and Saturday Night Bridge with a 55 foot long concrete tri-deck beam superstructure. The project was completed as proposed and closed in winter of 2016.*

NAME OF RECIPIENT: **Judith Basin County**
PROJECT TYPE: Bridge System Improvements
FUNDING: \$235,211 TSEP Grant
\$235,412 County – cash
TOTAL \$470,623

PROJECT SUMMARY: Judith Basin County has identified North Hobson Bridge as in need of replacement. *The proposed solution is to replace the bridge with a 90 foot long concrete bulb tee beam superstructure. The project was completed as proposed and closed in spring of 2015.*

NAME OF RECIPIENT: **Lewis & Clark County**
PROJECT TYPE: Bridge System Improvements

FUNDING:	\$231,493	TSEP Grant
	<u>\$223,993</u>	County - Cash
TOTAL	\$447,986	

PROJECT SUMMARY: Lewis & Clark County has identified two (Sun Canyon Road, Flat Creek Road) bridges that are in need of replacement. *The proposed project will replace Sun Canyon Road Bridge with a 55 foot long concrete tri-deck beam superstructure and Flat Creek Road Bridge with a 22 foot span concrete box culvert. The project was completed as proposed and closed in spring of 2016.*

NAME OF RECIPIENT:	Missoula County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$480,372	TSEP Grant
	<u>\$480,373</u>	County - Cash
TOTAL	\$960,745	

PROJECT SUMMARY: Missoula County has identified Riverview Drive Bridge as in need of replacement. *The proposed project would replace the bridge with a 120 foot long concrete bulb tee beam superstructure. A bike and pedestrian crossing will be incorporated. Project returned grant award in March 2015. Project terminated.*

NAME OF RECIPIENT:	Park County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$109,955	TSEP Grant
	<u>\$109,955</u>	County - cash
TOTAL	\$219,990	

PROJECT SUMMARY: Park County has identified four (Rock Creek Road North, Cottonwood Bench Road, Indian Creek Road, Castle Mountain) bridges as in need of replacement and rehabilitation. *The proposed solution will be to replace the Rock Creek Bridge with a 42 foot span single lane bridge; rehabilitate the Cottonwood Bench Bridge by replacement damaged components of the existing truss, and reconstruct the south approach; rehabilitate the Indian Creek Bridge by replacing damaged components of the existing truss, removed the existing driving surface and replacing with a gravel drive surface; rehabilitate Castle Mountain Bridge by filling voids under existing wing walls, install rip rap to minimize future scour potential and strengthening the existing bridge superstructure. The project was completed as proposed and closed in summer of 2016.*

NAME OF RECIPIENT:	Powell County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$320,940	TSEP Grant
	<u>\$320,940</u>	County – Cash
TOTAL	\$641,880	

PROJECT SUMMARY: Powell County has identified two (Center Street, Willow Road) bridges as in need of replacement. *The proposed solution would replace the bridges with a 40 and 65 foot respectively concrete tri-deck superstructures. The project was completed as proposed and closed in spring 2017.*

NAME OF RECIPIENT:	Ravalli County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$212,489	TSEP Grant
	<u>\$212,489</u>	County – cash
TOTAL	\$439,978	

PROJECT SUMMARY: Ravalli County has identified Willoughby Lane Bridge as in need of replacement. *The proposed solution would replace with bridge with a 50 foot long concrete tri-deck beam superstructure. The project was completed as proposed and closed in summer of 2015.*

NAME OF RECIPIENT:	Stillwater County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$205,028	TSEP Grant
	<u>\$205,028</u>	County - cash
TOTAL	\$410,056	

PROJECT SUMMARY: Stillwater County has identified two (Rosebud Cemetery Road, Benbow Road) bridges as in need of replacement. *The proposed solution will be to replace Rosebud Cemetery Road Bridge with a 55 foot long concrete tri-deck beam superstructure and replace Benbow Road with a corrugated steel pipe culvert. The project was completed as proposed and closed in winter of 2015.*

NAME OF RECIPIENT:	Yellowstone County	
PROJECT TYPE:	Bridge System Improvements	
FUNDING:	\$218,439	TSEP Grant
	<u>\$218,439</u>	County - cash
TOTAL	\$435,878	

PROJECT SUMMARY: Yellowstone County has identified three (Central Avenue, Strauch Road, Nutting Road) bridges as in need of replacement. *The proposed solution is to replace Central Avenue Bridge with a six foot diameter corrugate metal pipe; replace Strauch Road Bridge with a 65 foot precast concrete tri-deck bridge; and replace Nutting Road Bridge with a five by ten foot concrete box culvert. Project was completed as proposed in the summer 2014.*

Projects Approved through the 2015 Legislative process

Fifty one applications requesting \$26,525,078 in TSEP funds were submitted for the 2017 biennium. The 2015 Legislative process approved funding for 24 infrastructure projects and 9 bridge projects totaling \$19,691,030 in TSEP funds. Three projects are contingently funded if funding becomes available. One project withdrew their application during the legislative session. **If no project status line is shown, the project has been completed. Projects remaining open reflect the status.**

Water, Wastewater, and Stormwater

NAME OF RECIPIENT:	Town of Bainville
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	\$ 672,747 SRF Loan
	\$ 100,000 SRF Grant
	<u>\$ 50,000 Applicant Cash</u>
TOTAL	\$2,022,747

PROJECT SUMMARY: The water system has the following deficiencies: the Town cannot meet state design criteria for the distribution system and experience problems with pressures in lines, at the higher elevations of water service, most notably the Bainville School, 35 psi cannot be obtained, and hydrants throughout Town average fire flows at approximately 500 gpm; and the water storage tank is undersized. *The proposed solution is to replace the existing storage tank with a 350,000 gallon buried tank and provide new piping from tank to distributions system. The project will replace 4,000 ft of corroded cast iron pipe and install valves and hydrants. The project was completed as proposed and closed in winter of 2018.*

NAME OF RECIPIENT:	Town of Big Sandy
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 196,750 RD Grant
	\$ 459,073 RD Loan
	<u>\$ 1,000 Applicant cash</u>
TOTAL	\$ 1,531,823

PROJECT SUMMARY: The water system has the following deficiencies: the Town's water system pipes are in poor condition and has mains that do not meet DEQ standards, undersized and deteriorated mains crease serious concerns during fire events and dead end mails allow for water to become stagnant. *The proposed solution is to replace appx. 11,000 feet of water mains and install corresponding connections valves, boxes, fittings and hydrants.*

PROJECT STATUS: Project is in final design and anticipates construction summer 2018 with closeout in fall 2018.

NAME OF RECIPIENT:	Butte Silver Bow City/County
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 406,526 TSEP Grant
	<u>\$ 406,526 Applicant Cash</u>
TOTAL	\$ 813,052

PROJECT SUMMARY: The wastewater system has the following deficiencies: the collection system exhibits pipe offsets, pipe voids, grease issues and pipe fractures and collapses. *The propose e solution is to rehabilitate approximately 2,781 of collection system piping and replace 2,087 feet of collection system piping. The project was completed as proposed and closed in summer of 2017.*

NAME OF RECIPIENT:	City of Conrad
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	<u>\$1,837,000 SRF Loan</u>
TOTAL	\$2,337,000

PROJECT SUMMARY: The water system has the following deficiencies: undersized distribution lines, undersized hydrants, air binding of the filters at water treatment plant; and exterior of storage tanks are beginning to show rust and corrosion. *The proposed solution would replace about 8,900 feet of existing distribution lines with 6" lines, replace 12 undersized hydrants, make chemical adjustments to the water treatment plant; and recoat water tanks to avoid permanent corrosion damage. The project was completed as proposed and closed in summer of 2018.*

NAME OF RECIPIENT:	Crow Tribe of Indians
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant

	\$ 200,000	Coal Board Grant
	\$ 900,000	ICDBG Grant
	<u>\$ 1,524,000</u>	<u>RD Loan</u>
TOTAL	\$ 3,949,000	

PROJECT SUMMARY: The wastewater system has the following deficiencies: clay pipes that are old, undersized and laid less than minimal slope, cracked pipes, root penetrations, sagging lines, offset joints and settling; and the East Frontage Road lift station is plagued with numerous electrical deficiencies and is located in a flood prone area. *The proposed solution is to replace about 6,700 ft. collection pipe with new PVC and construct a new East Frontage Road lift station outside of the flood prone area.*

PROJECT STATUS: Project has met start up conditions and intends to proceed with construction in 2019.

NAME OF RECIPIENT:	City of Dillon - contingent award	
PROJECT TYPE:	Water System Improvements	
FUNDING:	\$ 625,000	TSEP Grant
	\$ 125,000	RRGL Grant
	\$ 5,000	RRGL Loan
	\$ 757,754	RD Grant
	\$ 757,754	RD Loan
	<u>\$ 289,039</u>	<u>Applicant cash</u>
TOTAL	\$ 2,559,547	

PROJECT SUMMARY: The water system has the following deficiencies: the mains are old and have deteriorated from movement over the years, the pipe bridge on which the two major transmissions mains are housed is in poor condition and is in continuous danger of failing; and lead joints have separated and are in danger of breaking, which would result in the City losing a large percentage of their potable water and may also cause other distribution mains to collapse. *The proposed solution will replace the two water transmission mains with one larger 18" transmission main utilizing a separate corridor within the Ten Mile Roadway easement. Project was contingently funded and terminated as no funding is available.*

NAME OF RECIPIENT:	East Clark Street Water and Sewer District	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 536,850	TSEP Grant
	\$ 135,000	CST Loan
	<u>\$ 442,000</u>	<u>SRF Loan</u>
TOTAL	\$ 1,113,850	

PROJECT SUMMARY: The wastewater system has the following deficiencies: it lacks a centralized wastewater system, nitrate data suggests groundwater is being degraded by effluent, current wastewater management within the District consists of standard septic tanks and drain fields on very small lots; and the District has been issued one Notice of Violation (NOV). *The proposed solution is to construct conventional gravity sewers and connect to the City of East Helena wastewater system, and decommission existing septic systems.* The project was completed as proposed and closed in summer of 2018.

NAME OF RECIPIENT:	Fallon County Water and Sewer District	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 680,000	TSEP Grant
	\$ 125,000	RRGL Grant
	<u>\$ 1,000,000</u>	<u>Applicant Cash</u>
TOTAL	\$ 1,805,000	

PROJECT SUMMARY: The District experiences the following problems: individual septic system failures have commonly resulted in surfacing sewage and/or backups, drain field disposal systems would be prohibited under current standards due to soils with low to zero permeability; and the County cannot approve any new home construction unless the proposed septic system can meet state regulations, effectively creating a moratorium on new construction in an area experiencing growth due to oil and gas development. *The proposed solution is to construct a gravity sewer collection system, and connect to the City of Baker's wastewater system. Project was completed as proposed and closed in winter 2018.*

NAME OF RECIPIENT:	Town of Flaxville – contingent award	
PROJECT TYPE:	Wastewater System Improvements	
FUNDING:	\$ 625,000	TSEP Grant
	\$ 125,000	RRGL Grant
	\$ 345,000	RD Grant
	\$ 345,000	RD Loan
	<u>\$ 5,000</u>	<u>Applicant cash</u>
TOTAL	\$ 1,445,000	

PROJECT SUMMARY: The wastewater system has the following deficiencies: erosion on the banks of the second cell, excessive wetland vegetation and muskrats burrowing into the banks and compromising the clay liner, leakage in both cells of up to 31" per year, which is over 5 times the allowable limit per current DEQ standards, which is allowing untreated wastewater a direct path into area groundwater. Groundwater samples from the Town's supply wells have tested above the MCL for nitrates; and the lagoon leakage does not allow for

the wastewater to make it to the third I/P cell and rarely into the second cell. *The proposed solution would remove the sludge in the existing lagoon cells, install a new PVC liner in the primary treatment cell; and expand the second treatment cell and line it with a PVC liner to use as an evaporation basin. Project funding became available and the Town was awarded \$250,000. Project was completed as proposed and closed in fall 2018.*

NAME OF RECIPIENT:	Town of Fromberg
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	\$ 995,000 RD Grant
	\$ 995,000 RD Loan
	<u>\$ 4,000 Applicant cash</u>
TOTAL	\$ 3,319,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: localized areas of deterioration throughout the collection system, lift station pumps are only operational at half of their design flow, existing lift station does not have a backup generator or backup pumps as required in Circular DEQ-2, electrical controls that run the pumps are unreliable and periodically short out causing the pumps to shut off, lagoon system has a number of physical deficiencies; and lagoons are leaking as much as 4.1 million gallons per year above the allowable rate. *The proposed solution would clean and video inspecting the existing collection system, rehabilitate the existing lift station and installing a backup generator, construct a two-cell, partially mixed lagoon system followed by a coarse gravel bed reactor within the footprint of the existing lagoon Cell 1, add UV disinfection of the lagoon effluent; and continue the discharge of treated effluent to the Clarks Fork of the Yellowstone.*

PROJECT STATUS: Project is in construction and anticipates closeout by fall 2018.

NAME OF RECIPIENT:	City of Glasgow
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 6,645,000 RD Loan
	<u>\$ 227,000 Applicant cash</u>
TOTAL	\$ 7,372,000

PROJECT SUMMARY: The water system has the following deficiencies: treatment plant components have exceeded their design life and require frequent repairs, troughs, weirs, and gates are corroding and the high service pump control valves need repeated rebuilds, WTP and high service pumps have no backup power resulting in water shortages during power outages, treatment and filtration components are aged and lack of redundancy, the water distribution system includes undersized, aged and deteriorated piping, and the interior/exterior coating of the elevated steel tank is starting to fail. *The proposed solution would put in place upgrades to remedy the flocculation / sedimentation issues with contact adsorption clarifier equipment, construct media filter addition, upgrade plant and distribution system including: electrical and control system, chlorine disinfection system, lift and backwash pumps, bulk water station, and booster pump station; and replace 550 feet of water line.*

PROJECT STATUS: Project is in construction fall 2018 and anticipates closing in winter 2019.

NAME OF RECIPIENT:	Greater Woods Bay Sewer District
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 18,375,000 RD Grant
	<u>\$ 6,350,000 RD Loan</u>
TOTAL	\$ 25,600,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: existing on-site septic systems are in poor condition, increasing levels of nitrates are detected in drinking water supplies in the area; and near-shore septic systems are contributing to nutrient levels in Flathead Lake. *The proposed solution would construct a collection system consisting of a combination of conventional gravity lines and a low pressure system with grinder pumps and lift stations, and treat and dispose through a partnership with the Bigfork Water and Sewer District consisting of lift stations, force main/gravity sewer, and connection fees. The District returned the awarded funds in summer of 2016.*

NAME OF RECIPIENT:	City of Harlowton
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 347,500 SRF Grant
	<u>\$ 347,500 SRF Loan</u>
TOTAL	\$ 1,570,000

PROJECT SUMMARY: The water system has the following deficiencies: approximately half of the existing water distribution system is comprised of deteriorated cast iron water mains that have outlived their useful life, cast iron pipe breakage at the rate of over 30 breaks per year in the last two years, unaccounted for water is estimated at 30% to 40%; and the gas chlorine storage at the Thompson well house presents operator safety concerns and

potential corrosion problems. *The proposed solution would replace about 4,800 feet of failing cast iron pipe within the leaking underground storage trust fund site with polyethylene wrapped ductile iron pipe using nitrile gaskets, and upgrade the chlorine gas storage facilities at the Thompson well house. The project was completed as proposed and closed in summer of 2017.*

NAME OF RECIPIENT:	City of Havre
PROJECT TYPE:	Storm water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 1,039,000 SRF Loan
	<u>\$ 800,000 Local funds</u>
TOTAL	\$ 2,339,000

PROJECT SUMMARY: The storm water system has the following deficiencies: the main line system is in severe and failing condition, two segments of the system have collapsed and failure is imminent in numerous other segments, and corrosion of the metal pipes, undermined footings, exposure and corrosion of the rebar, and severe concrete deterioration were identified as major problems. *The proposed solution would install new pipe and slip lining, and flush of the system to remove sedimentation.*

PROJECT STATUS: Construction was in progress with anticipated completion by summer 2017, but contractor did not return to finish work, City did arbitration with contractor and won. City now working with Bonding company and hope to finish project by summer 2019.

NAME OF RECIPIENT:	Town of Hot Springs
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 103,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	<u>\$ 217,000 RD Loan</u>
TOTAL	\$ 895,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: infiltration and inflow into the collection system in lateral service connections, lack of accurate flow monitoring at the main lift station and WWTF to track flow, lack of a screening device prior to the WWTF and lift station, aged and poor condition of the blowers and the inter-lagoon control valves, failing condition of the air piping supports, and lack of a de-chlorination system. *The proposed solution would rehabilitate the sewer main, manholes, and service line/connections suspected of infiltration, install a flow meter at the lift station, install a vertical grinder auger in the wet well to remove rags and other debris from the lift station and WWTF, repair a broken blower motor, and replace existing effluent weir with an appropriately sized weir.*

PROJECT STATUS: Project is in construction and anticipates completion in fall 2018.

NAME OF RECIPIENT:	Town of Hysham
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 200,000 Coal Board Grant
	\$ 950,000 RD Grant
	<u>\$ 950,000 RD Loan</u>
TOTAL	\$ 2,850,000

PROJECT SUMMARY: The water system has the following deficiencies: the storage tank is undersized, corroded, and in danger of failure, over 30% of the treated water is unaccounted for in the distribution system, three cast iron mains in the system are severely corroded and are delivering brown water to users, and there is no back-up power at the water treatment plant. *The proposed solution would replace the existing tank with a 300,000 gallon elevated storage tank, install dehumidifier and back-up generator, replace the remaining cast iron mains in the distribution system, purchase radio read water meters; and conduct a leak detection survey of the distribution system. The project was completed as proposed and closed in spring 2018.*

NAME OF RECIPIENT:	City of Laurel
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 3,295,514 SRF Grant
	<u>\$ 1,500,000 Applicant cash</u>
TOTAL	\$ 5,420,514

PROJECT SUMMARY: The water treatment plant has the following deficiencies: outdated equipment and an unsecured facility, flocculation and sedimentation basins are in poor condition and provide no redundancy, basins are uncovered and are exposed to excessive freeze/thaw cycles and contamination, insufficient flow to the filters, filters are not adequately sized, backwash water and sludge pond is not lined and has no redundancy; and the backwash water storage tank has holes and is in need of replacement. *The proposed solution, is phase 3 for system improvements and would replace flocculation and sedimentation basins with covered basins and automatic sludge removal, install a settled water pumping station, and relocate the Cherry Hills booster station. Additive alternatives for the phase 3 water improvements project may be completed as funding allows: replace*

backwash/sludge ponds, replace the 250,000 gallon backwash water storage tank, and replace or install check valve and actuators, VFD's and raw water pumps, blower for filter air scour, clearwell building ventilation, fencing, door security, and cameras.

PROJECT STATUS: Project went to bid summer 2017 and received high bids. City rebid in spring 2018 with construction following. Project proposed to be completed in summer 2019.

NAME OF RECIPIENT:	City of Lewistown
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 368,800 Intercap Loan
	<u>\$ 19,500 Applicant cash</u>
TOTAL	\$ 1,013,300

PROJECT SUMMARY: The wastewater system has the following deficiencies: a high likelihood of substandard drain field performance and potential failures shallow groundwater and the proximity of Big Spring Creek pose collateral environmental risks from leaching septic effluent; and a significant threat to public health would result if septage surfaced at any of the residential sites. *The proposed solution would construct 3,366 feet of new eight-inch PVC gravity mains, construct 4,000 feet of four-inch service lines (if publicly-owned), install 10 new concrete manholes, and complete 40 gravity service connections. Project was completed as proposed and closed in fall 2018.*

NAME OF RECIPIENT:	City of Polson
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	<u>\$ 17,664,081 SRF Loan</u>
TOTAL	\$ 18,989,081

PROJECT SUMMARY: The wastewater treatment system has the following deficiencies: dikes between and around the lagoon cells are eroding, the cells are not lined, the facility is unable to consistently treat effluent in accordance with the City's discharge permits, lacks disinfection equipment to treat effluent; and anticipated changes in effluent water quality regulations for nitrogen and phosphorus will require replacement of the system in order to meet new rules. *The proposed solution would decommission the existing lagoon, and construct a membrane bioreactor wastewater treatment plant in the footprint of existing lagoon cell #1.*

PROJECT STATUS: Project began construction in spring 2017 with closeout in late winter 2018.

NAME OF RECIPIENT:	City of Roundup
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 450,000 CDBG Grant
	\$ 500,000 Coal Board
	\$ 146,285 SRF Forgiven
	\$ 239,000 SRF Loan
	<u>\$ 164,500 Applicant cash</u>
TOTAL	\$ 1,999,785

PROJECT SUMMARY: The water system has the following deficiencies: aged and deteriorated cast iron pipe results in numerous leaks each year, inability to deliver recommended fire flows due to undersized mains and one inch plus of rust and scaling, inoperable valves, high iron concentrations, water meters are at the end of their useful life and need to be replaced, rust in the mains has clogged fire hoses during fire events limiting the City's ability to adequately fight a fire, and the spacing between hydrants is much greater than DEQ and fire codes allow. *The proposed solution would replace about 3,700 feet of water main. The project was completed as proposed and closed in winter 2016.*

NAME OF RECIPIENT:	Ten Mile Creek Estates/Pleasant Valley Sewer District
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 2,919,655 SRF Loan Committed</u>
TOTAL	\$ 3,544,655

PROJECT SUMMARY: The wastewater system has the following deficiencies: The volume of raw sewage flowing into the lagoon cells is roughly equivalent to the volume of untreated sewage that is infiltrating out through the underdrain system. The average detention time is estimated to be less than 24 hours. The wastewater is only receiving minimal treatment before seeping into the groundwater and underdrain system below the lagoons. The wastewater eventually flows into Prickly Pear Creek where opportunities for public access with the discharge are present. *The proposed solution would construct a total retention treatment system with effluent disposal by evaporation, fill in the ditch located immediately north of the lagoons and replacing it with storm drainpipe, installing groundwater underdrains to prevent floating of the liners during seasonal high groundwater, and construct a new perimeter fence. The project was completed as proposed and closed in fall of 2017.*

NAME OF RECIPIENT: Town of Terry
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 1,025,000 SRF Loan
TOTAL \$ 1,900,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: the two lagoon cells have insufficient holding time and do not meet MDEQ regulations require that continuously discharging or controlled discharge facultative cell systems use at least three cells, the system lacks inflow or outflow monitors to track waste volume and/or discharge, the system drains into the Buffalo Rapids irrigation ditch, which has insufficient water to dilute effluent, the influent splitter box structure is obsolete, unsafe, violates electrical and Occupational Safety and Health Administration (OSHA) codes, the system does not meet new discharge limits for disinfection and percent removal of pollutants, and the system has insufficient capacity for current or future treatment needs. *The proposed solution would expand the lagoon system, adding flow measuring and disinfection facilities as needed, repair and upgrade the flow control structures, and construct an outfall pipeline to the Yellowstone River and stop discharging effluent to the Buffalo Rapids Drainage Ditch.*

PROJECT STATUS: Project has met start-up conditions and is completing I&I studies, anticipating construction to occur in summer 2019.

NAME OF RECIPIENT: City of Thompson Falls
PROJECT TYPE: Water System Improvements
FUNDING: \$ 499,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 374,000 Applicant cash
TOTAL \$ 998,000

PROJECT SUMMARY: The water system has the following deficiencies: the transmission main is undersized to support the necessary fire and domestic flows into the upper pressure zone, the west half of the upper pressure zone has very limited fire protection and very low operating pressures when the Jefferson Street tank is filling, Negative pressures could result in contaminants being drawn into the distribution system are occurring at the Jefferson Street pressure reducing valve when the tank is filling, the transmission main that carries water between the Ashley Creek and Jefferson Street storage tanks is comprised of 6" and 8" asbestos cement (AC) pipe that has become brittle and has a history of breaks, and investigations have suggested that there may be debris within the pipe, which has resulted in further limitations on flow. *The proposed solution would replace about 8,000 feet of the existing transmission main between the Ashley Creek and Jefferson Street reservoirs with a new ten inch diameter PVC main. The project was completed as proposed and closed in fall of 2017.*

NAME OF RECIPIENT: Upper/Lower Road Water & Sewer District
PROJECT TYPE: Water System Improvements
FUNDING: \$ 340,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 145,000 SRF Grant
\$ 145,000 SRF Loan
TOTAL \$ 755,000

PROJECT SUMMARY: The community system has the following deficiencies: a lack of central water or wastewater, on-site wastewater systems are degrading area wells and groundwater quality, many local drain fields have failed in recent years; and there is a septic moratorium in the District prohibiting any new septic drain field systems, so only replacement drain fields on failed systems are allowed. *The proposed solution would construct about 1,700 feet of eight inch water main, install six fire hydrants, construct about 2,200 feet of eight inch sewer line, install nine manholes; and annex the District into the City of Great Falls. Project was completed as proposed and closed in fall 2017.*

NAME OF RECIPIENT: Town of Westby
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 625,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 449,000 RD Grant
\$ 752,500 RD Loan
\$ 7,000 Local
TOTAL \$ 1,960,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: current lagoon liners do not properly contain wastewater and allow for direct contact of raw sewage and groundwater, lagoons are undersized to handle wastewater flows produced by the Town, basic infrastructure is aged, the sewer main leading to the north cell is clogged and cannot deliver wastewater to the cell, the interlagoon splitter box is outdated, in poor working condition and needs to be replaced, the pipeline into the southern cell has heaved out of the pond and is visible, and all piping from the last manhole throughout the treatment system is in need of repair. *The proposed solution would rehabilitate the north lagoon for primary treatment, rehabilitate the middle and south lagoons into storage cell to meet DEQ Circular 2 requirements, install a 7.5 hp pump irrigation pump and center pivot for irrigation of treated effluent to 10.5 acre alfalfa field, and complete video inspection of collection system. Project was completed as proposed and closed in fall 2017.*

NAME OF RECIPIENT: City of White Sulphur Springs
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 300,000 WRDA Grant
\$ 1,256,550 SRF Loan
TOTAL \$ 2,431,550

PROJECT SUMMARY: The wastewater system has the following deficiencies: violations of MPDES Permit limitations for BODs, TSS, pH, and pathogens, failure to meet secondary treatment standards, erosion of lagoon dikes, measurable seepage through lagoon liner in excess of current design standards; and accumulated sludge in the lagoons is reducing available detention time. *The proposed solution would abandon the existing facultative lagoons, land apply accumulated sludge, acquire long-term lease of irrigation site, construct two, 1 million gallon, aerated treatment lagoon cells, construct a 30 million gallon lined storage cell, construct spray irrigation lift station and controls; and install center pivot irrigation unit. The project was completed as proposed and closed in fall of 2017.*

NAME OF RECIPIENT: City of Whitefish
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 500,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 506,000 SRF Loan \$
TOTAL \$ 1,131,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: inflow and infiltration (I&I) rates are estimated at 78 MG of clear water per year, and an I&I mitigation study conducted in 2006 identified over 18,500 lineal feet of sewer main that exhibits extensive structural, infiltration and plugging defects. *The proposed solution would rehabilitate manholes, install seals, elevate manhole rings, seal connecting sewers; and direct surface flow away from manhole structures. The project was completed as proposed and closed out spring 2017.*

Bridges

NAME OF RECIPIENT: Carbon County
PROJECT TYPE: Bridge System Improvements
FUNDING: \$ 500,000 TSEP Grant
\$ 15,000 County Road and Bridge Fund
\$ 561,996 County Road and Bridge Fund
\$ 20,927 In – Kind
TOTAL \$ 1,097,923

PROJECT SUMMARY: Carbon County has identified three bridges in need of replacement: the East Pryor Road Bridge, the Homestead Road Bridge and the Red Lodge Creek Road Bridge. *The proposed solution would replace all three structures with new bridges.*

PROJECT STATUS: Construction of the East Pryor Road Bridge was completed in summer 2016. Construction of the Homestead Road Bridge in was completed in fall 2017. Construction of the Red Lodge Creek Road Bridge will occur in spring 2018.

NAME OF RECIPIENT: Chouteau County
PROJECT TYPE: Bridge System Improvements
FUNDING: \$ 207,184 TSEP Grant
\$ 186,841 BOI Loan
\$ 5,356 Applicant In- Kind
\$ 15,000 Applicant Cash
TOTAL \$ 414,381

PROJECT SUMMARY: Chouteau County has identified one bridge in need of replacement: The Shepherd Crossing Road Bridge. *The proposed solution would replace the existing structure with a new bridge. The project was completed as proposed and closed summer 2017.*

NAME OF RECIPIENT: Custer County
PROJECT TYPE: Bridge System Improvements
FUNDING: \$ 467,397 TSEP Grant
\$ 467,397 Applicant Cash
TOTAL \$ 934,794

PROJECT SUMMARY: Custer County has identified two bridges in need of replacement: the Trail Creek Road Bridge and the Mizpah Road Bridge. *The proposed solution would replace both structures with new bridges. The project was completed as proposed and closed in winter of 2017.*

NAME OF RECIPIENT: Fergus County

PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 337,594 TSEP Grant
	<u>\$ 337,594 Applicant Cash</u>
TOTAL	\$ 675,188

PROJECT SUMMARY: Fergus County has identified two bridges in need of replacement: the Paradise Road Bridge and the Roundhouse Road Bridge. *The proposed solution would replace both structures with new bridges. Project was completed as proposed and closed in fall 2017.*

NAME OF RECIPIENT:	Hill County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 291,997 TSEP Grant
	\$ 15,000 Applicant Grant
	\$ 233,420 Applicant Grant
	<u>\$ 43,577 Applicant Grant</u>
TOTAL	\$ 583,994

PROJECT SUMMARY: Hill County has identified one bridge in need of replacement: the Hinebauch Bridge. *The proposed solution would replace the existing structure with a new bridge. Project was completed as proposed and closed in winter of 2016.*

NAME OF RECIPIENT:	Madison County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	<u>\$ 2,565,499 Applicant Cash</u>
TOTAL	\$ 3,315,499

PROJECT SUMMARY: Madison County has identified one bridge in need of replacement: the Varney Bridge. *The proposed solution would replace the existing structure with a new bridge.*

PROJECT STATUS: Project is in final design phase and anticipates construction beginning in spring 2018.

NAME OF RECIPIENT:	Sweet Grass County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 303,898 TSEP Grant
	<u>\$ 303,898 Applicant Cash</u>
TOTAL	\$ 607,796

PROJECT SUMMARY: Sweet Grass County has identified one bridge in need of replacement: the Lower Sweet Grass Road Bridge. *The proposed solution would replace the existing structure with a new bridge. The project was completed as proposed and closed spring 2017.*

NAME OF RECIPIENT:	Valley County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 494,108 TSEP Grant
	<u>\$ 494,108 Applicant Cash</u>
TOTAL	\$ 988,216

PROJECT SUMMARY: Valley County has identified one bridge in need of replacement: the Milk River Road Bridge. *The proposed solution would replace the existing structure with a new bridge. Project completed as proposed and closed in winter 2018.*

NAME OF RECIPIENT:	Yellowstone County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 648,476 TSEP Grant
	<u>\$ 648,476 Applicant Cash</u>
TOTAL	\$ 1,296,952

PROJECT SUMMARY: Yellowstone County has identified one bridge in need of replacement: the Laurel Airport Road Bridge. *The proposed solution would replace the existing structure with a new bridge. The project was completed as proposed and closed in summer of 2017.*

Projects Approved through the 2017 Legislative process

Sixty applications requesting \$31,945,532.00 in TSEP funds were submitted for the 2019 biennium. The 2017 Legislative process approved funding for 26 infrastructure projects and 9 bridge projects totaling \$19,672,151 in TSEP funds. 3 projects are contingently funded if funding becomes available. 1 project withdrew their application during the legislative session. The 2017 Special Legislative Session reduced the TSEP funding by \$7.5 million due to revenue shortfalls. Projects ranked, and as awarded in HB11 of the regular session, 17-26 infrastructure and 7-9 bridges are currently on hold. Project 16 infrastructure and 6 bridge received a reduced award amount. If revenues become available during the biennium, TSEP may award those revenues to on hold projects in ranked order. The on hold projects may submit a continuation letter to the program to be included in the 2019 Governor's budget and *may* receive priority funding during the session. **If no project status line is shown, the project has been completed. Projects remaining open reflect the status.**

Water, Wastewater, and Solid Waste

NAME OF RECIPIENT:	Absarokee Water & Sewer District
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 3,018,000 SRF Loan</u>
TOTAL	\$ 3,643,000

PROJECT SUMMARY: The water system has the following deficiencies: significant water loss averaging 70% since 2013, attributed to deteriorating and undersized steel pipe. The distribution system is at risk of failure and lacks adequate pressure for firefighting. Storage tanks also show cracking, spalling and shrinkage as well as lacking storage capacity for fire flows. The telemetry system is aged and needs replacement to allow for continued efficient operation. *The proposed solution would replace the mains in the distribution system and provide looping of mains around the school. The proposed project is identified as phase 1.*

PROJECT STATUS: Project anticipates construction in spring 2018 with completion in winter 2018-2019.

NAME OF RECIPIENT:	Beaverhead County Jackson Water & Sewer District
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 294,000 TSEP Grant
	\$ 147,000 RD Grant
	<u>\$ 147,000 RD Loan</u>
TOTAL	\$ 588,000

PROJECT SUMMARY: The water system has the following deficiencies: naturally occurring arsenic and radium 226/228 both of which are carcinogens. The levels of each contaminant exceed the acceptable Safe Drinking Water Act. The concrete water cistern is aged and has unscreened overflow pipes, and deteriorating walls. The cistern is located at a very low elevation causing very low water pressures. *The proposed solution would drill three new wells, construct a new well house with pumps controls and pressure tanks, install a new transmission main to the distribution system and install curb stops.*

PROJECT STATUS: Project began construction fall 2018 and anticipates completion summer 2019.

NAME OF RECIPIENT:	Butte-Silver Bow City County
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 349,286 TSEP Grant
	<u>\$ 349,287 Applicant Cash</u>
TOTAL	\$ 698,573

PROJECT SUMMARY: The wastewater system has the following deficiencies: the aged system exhibits offsets, pipe voids, grease buildup issues, inadequate slopes, and pipe fractures and collapsing that are causing excessing sedimentation and sewage backups. *The proposed solution would rehabilitate about 1,636 ft. of collection pipe and replace about 1,980 ft. of collection pipe.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Town of Cascade
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 418,001 SRF Loan</u>
TOTAL	\$ 1,043,001

PROJECT SUMMARY: The wastewater system has the following deficiencies: corrosion of piping at the main lift station, lack of suitable power at two lift stations, poorly operating air release valves in the force main, excessive sludge depth in the lagoon and several plugs in the collection system which has resulted in overflows of sewage into streets and rights of ways, backups into homes and numerous emergency sewer cleaning actions. *The proposed solution would replace about 2,450 ft. of pipe and rehabilitate about 350 ft. with cured in place pipe,*

install permanent generators at both lift stations, replace air valves on the force mains, replace piping at main lift station and cap overflow piping at second lift station and removed and dewater sludge at treatment lagoon.

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Town of Circle
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	<u>\$ 50,000 Local cash</u>
TOTAL	\$ 1,250,000

PROJECT SUMMARY: The water system has the following deficiencies: water losses on average at 40% in distribution system piping, inoperable and not enough fire hydrants by number to meet DEQ requirements, inoperable valves and not enough valves to meet DEQ requirements, inability to meet fire flows and water services connections made of copper with lead soldering, which don't meet current DEQ standards. *The proposed solution would install approximately 6,600 ft. of water distribution pipe, including valves, hydrants and water meters. The applicant notes these improvements are phase 1 and anticipate additional improvements in future funding requests.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	City of Cut Bank
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 1,025,000 SRF Loan</u>
TOTAL	\$ 1,900,000

PROJECT SUMMARY: The water system has the following deficiencies: aged distribution system (1914) with many pipelines well beyond expected service life, heavy corrosion in undersized pipes, high leakage in water mains, corrosion promoting biofilm growths, which effects chlorine residuals and inhibits pipe flushing, low pressures in portions of system and lack of ability to meet fire flow demands. *The proposed solution would replace approximately 8,800 ft. of undersized and aging water mains including valves, hydrants and appurtenances.*

PROJECT STATUS: Project anticipated construction summer 2018 and anticipated completion spring 2019.

NAME OF RECIPIENT:	Town of Denton
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 446,500 RD Grant
	<u>\$ 1,339,500 RD Loan</u>
TOTAL	\$ 2,536,000

PROJECT SUMMARY: The water system has the following deficiencies: surface water (water source) is unfiltered classifying it as groundwater under the direct influence of surface water (GWUDISW), administrative order on consent has been issued due to the surface water contamination, concrete storage tank deterioration, failing seals and undersized for fire protection, transmission main inadequately sized for distribution and is severely leaking, lack of redundancy between supply/storage and distribution with only a single transmission main. *The proposed solution would install cartridge filtration on spring supply, construct a new storage tank, construct a new transmission main from new tank to distribution system, replace main from supply to distribution system and install a telemetry system to allow for automated operation of the system.*

PROJECT STATUS: Project has been awarded and anticipates bidding in spring 2019 with completion in fall of 2019.

NAME OF RECIPIENT:	Town of Dutton
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 267,500 SRF Grant
	<u>\$ 267,500 SRF Loan</u>
TOTAL	\$ 1,160,000

PROJECT SUMMARY: The water system has the following deficiencies: severe leakage in the supply transmission main from will source to chlorine vault, pump house, piping, roof and pump house HVAC are beyond useful lives and at risk of failure, water supply lacks backup power, chemical feed system used to sequester manganese and iron frequently experiences failures, water meters are in constant need of repair from frequent failures, and four fire hydrants are inoperable. *The proposed solution would replace the supply transmission main,*

install back up power at supply well and make improvements in pump house, replace chemical feed pumps, replace four hydrants and install new water meters.

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Town of Eureka
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 555,000 TSEP Grant
	\$ 100,000 RRGL Grant
	\$ 164,000 RD Grant
	<u>\$ 491,000 RD Loan</u>
TOTAL	\$ 1,310,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: 90% of septic systems in Midvale area are deteriorating and failing, soils in area allow septic effluent to seep into underlying groundwater with minimal treatment, DEQ classified area as 'high risk' for ground water contamination, growth and development call for installation of centralized wastewater system. *The proposed solution would construct a gravity wastewater collection system and connections in Midvale area, install permanent standby power at pumps station, convey collected wastewater to Eureka's existing treatment plant, install 12 grinder pumps and approximately 2,000 ft. of sewer lines.*

PROJECT STATUS: Project has been awarded and is anticipating bidding in spring 2019, with completion in fall of 2019.

NAME OF RECIPIENT:	Town of Froid
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 765,000 RD Grant
	\$ 1,393,000 RD Loan
	\$ 209,000 WRDA Grant
	<u>\$ 20,000 Applicant cash</u>
TOTAL	\$ 3,343,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: erosion and damage on walls of lagoon wells, failing of existing lagoon liner, lift station pumps at end of service life, no backup power at 2 two lift stations and infiltration of wastewater into manholes. *The proposed solution would install two cell total retention lagoon with new liners, replace pumps and install back up power at lift stations, land apply existing sludge, and replace manholes in collection system.*

PROJECT STATUS: Project has been awarded and is anticipating bidding in winter 2018, with construction beginning spring 2019 and completion in fall of 2019.

NAME OF RECIPIENT:	City of Harlowton
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 658,000 SRF Loan</u>
TOTAL	\$ 1,533,000

PROJECT SUMMARY: The water system has the following deficiencies: old deteriorated cast iron water mains are failing and breaking and don't withstand static pressures, water loss is estimated at 30-40%, some water mains are not looped, soil testing resulted in contamination levels with detection of lower explosive limits, and free an dissolved petroleum hydrocarbons threaten the Thompson Well. *The proposed solution would replace approximately 3,850 ft. of failing piping and mains, install hydrants, and valves.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	City of Helena - Westside
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 1,952,840 SRF Loan</u>
TOTAL	\$ 2,827,840

PROJECT SUMMARY: The wastewater system has the following deficiencies: individual septic system failures have resulting in untreated disposal and backups, replacement drain field systems would be prohibited under current DEQ standards due to existing development densities, the County can't approve any further construction unless proposed systems meet current septic regulations. *The proposed solution would construct a gravity sewer collection system for Westside residents, connect the system to the City of Helena wastewater collection and treatment systems and resolve issues with ongoing failing septic tank/drainfield systems.*

PROJECT STATUS: Project has been awarded and is in the process of meeting start up conditions.

NAME OF RECIPIENT:	Town of Hot Springs
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 478,632 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	<u>\$ 34,000 Applicant cash</u>
TOTAL	\$ 1,087,632

PROJECT SUMMARY: The water system has the following deficiencies: the Town currently relies on 3 wells for pumping capacity and two of these wells experience contamination from radium and low water quality, wells 2 & 3 have no backup power, the storage tank has peeling interior paint and aged safety equipment, well controls and pumps are 25-40 years old, well 2 lacks water meters and East A street lacks a mater main pipeline with fire hydrants. *The proposed solution would drill new well for higher water quality and install backup power, install water meters and flow recording devices at well 1 & 2, rehabilitate storage tank and replace roof, and install a pipeline extension with fire hydrants on East A street.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	City of Livingston
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 300,000 Applicant cash
	<u>\$ 14,946,231 SRF Loan</u>
TOTAL	\$ 15,996,231

PROJECT SUMMARY: The wastewater system has the following deficiencies: influent pollutant loads have increased substantially and existing treatment system is struggling to meet demand and maintain compliance with permits, components of existing secondary treatment system are at the end of useful life and beginning to fail, US disinfection facility is inadequate to treat current secondary effluent quality and treatment facility is incapable to meeting future permit limits for ammonia, nitrogen and phosphorus. *The proposed solution would upgrade the wastewater treatment plant to meet discharge regulations and replace deteriorated treatment equipment.*

PROJECT STATUS: Project in construction with anticipated completion winter 2018-2019.

NAME OF RECIPIENT:	Lockwood Water & Sewer District
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 1,430,000 SRF Loan
	<u>\$ 1,000,000 Applicant cash</u>
TOTAL	\$ 3,180,000

PROJECT SUMMARY: The water system has the following deficiencies: existing raw water pumps are installed at an incline and require substantial maintenance due to the incline causing excessive wear on shafts, impellers and bearings, the chlorinator lacks a standby unit which violates DEQ standards, blowers have exceeded useful life and ice buildup and damaged the tank at the Johnson Lane Reservoir. *The proposed solution would remove the inclined pipe and construct a new raw water pump station at river intake, update chlorine disinfection system and air blowers at treatment plant and add a mixer to the Johnson Lane Reservoir.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Town of Manhattan
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 611,800 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 486,821 SRF Loan</u>
TOTAL	\$ 1,223,621

PROJECT SUMMARY: The wastewater system has the following deficiencies: the recent connection of Amsterdam Churchill W&S district of 6 miles of force mail is resulting in long detention times, anaerobic conditions, and excessive hydrogen gas build up and subsequent releases, sections of wastewater pipelines have exposed gaskets, sagging and do not meet DEQ minimums for pipe slope, sizing, exfiltration and leakage, some sections of pipe are over loaded and operate at or above original system design capacity. *The proposed solution would replace approximately 5,000 ft. of wastewater mains including manholes and surface restoration.*

PROJECT STATUS: Project has been awarded and is anticipating bidding in winter 2019 with completion of fall of 2019.

NAME OF RECIPIENT: **Town of Medicine Lake**
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 625,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 485,150 RD Grant
\$ 1,455,450 RD Loan
\$ 40,000 Applicant cash
TOTAL \$ 2,730,600

PROJECT SUMMARY: The wastewater system has the following deficiencies: lagoons are severely leaking and contaminating groundwater, lagoons are experiencing erosion on banks and have reached capacity with broken piping existing, sludge accumulation is excessive, lack of ability to meet future discharge limits, aging collection system with inefficient and unreliable lift stations, and lack of flow measuring devices. *The proposed solution would rehabilitate existing lagoons and discharge treated effluent by land application, dry and land apply sludge in existing lagoons, rehabilitate lift stations and video inspect the collection system.*

PROJECT STATUS: Project is anticipated to start construction spring 2019 with completion winter 2019.

NAME OF RECIPIENT: **Nine Mile Water & Sewer District**
PROJECT TYPE: Water System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 1,000 Applicant cash
\$ 1,574,346 RD Grant
\$ 1,497,924 RD Loan
TOTAL \$ 4,823,270

PROJECT SUMMARY: The water system has the following deficiencies: residents do not have a reliable source of clean potable water in a very large service area of approximately 130 square miles, hand dug wells of natural springs being relied on have very low yield, high alkalinity and general poor water quality, many district resident haul water from Sunburst which exposes that potable water to potential contamination each time it is transferred from tanks. *The proposed solution would install about 231,000 ft of water main, 8,600 ft of high pressure mains to and install pressure reducing vaults, booster stations, valves, air reliefs and connections.*

PROJECT STATUS: Project has been awarded and is in final design, anticipating construction in spring 2019.

NAME OF RECIPIENT: **Town of Ryegate – contingent award**
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 500,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 853,685 RD Grant
\$ 443,315 RD Loan
TOTAL \$ 1,922,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: the primary lagoon of the two celled facultative lagoon system is experiencing high rates of leakage, untreated wastewater is contamination groundwater, structural integrity of lagoon dikes has been compromised and the treatment system lacks capacity to meet future discharge limits. *The proposed solution would construct a total retention lagoon system with disinfection capabilities.*

PROJECT STATUS: Project is contingently awarded.

NAME OF RECIPIENT: **Sanders County Sewer District at Paradise**
PROJECT TYPE: Wastewater System Improvements
FUNDING: \$ 750,000 TSEP Grant
\$ 125,000 RRGL Grant
\$ 450,000 CDBG Grant
\$ 1,439,000 RD Grant
\$ 1,025,000 RD Loan
TOTAL \$ 3,244,000

PROJECT SUMMARY: The wastewater system has the following deficiencies: individual wastewater systems are over 50 years old and constructed with materials such as car bodies, 55 –gallon drums, railroad crib ties functioning currently as cesspools and cannot meet DEQ standards, repairs made to the current system are non-compliant for DEQ standards, septic tanks are plugged, and failing, drain filed laterals are separated from septic tanks or lack a drain field altogether, lot sized are inadequate for new drain fields to be installed, water supply wells show elevated nitrates. *The proposed solution would construct a centralized gravity collection system with low pressure sanitary sewers, install a lift station and construct a level II treatment system with drain field disposals.*

PROJECT STATUS: Project has been awarded and is in the process of finalizing a land purchase in order to begin design, anticipating construction in summer 2019.

NAME OF RECIPIENT: **City of Scobey**

PROJECT TYPE: Water System Improvements
 FUNDING: \$ 500,000 TSEP Grant
 \$ 125,000 RRGL Grant
 \$ 10,000 Applicant cash
 \$ 772,375 RD Grant
 \$ 2,317,125 RD Loan
 TOTAL \$ 3,724,500

PROJECT SUMMARY: The water system has the following deficiencies: high levels of corrosion in existing distribution pipes resulting in high levels of iron, manganese, sulphur and TDS, iron contents exceeding the maximum allowable contaminant level by 132 times, low or zero static pressures, high leakage, and high frequency of repairs, valves rusted in the open position, over 53% of distribution pipes are undersized and 16 inoperable fire hydrants and additional 32 hydrants needed to meet current standards. *The proposed solution would replace approximately 11,800 ft of distribution pipes, install hydrants, valves, fittings, backfill, and surface restorations.*

PROJECT STATUS: Project has been awarded and bid project but came in high. City plans to rebid in winter 2019 and begin construction in summer 2019.

NAME OF RECIPIENT: City of Shelby
 PROJECT TYPE: Water System Improvements
 FUNDING: \$ 750,000 TSEP Grant
 \$ 125,000 RRGL Grant
 \$ 1,500 Applicant cash
 \$ 881,333 SRF Loan
 TOTAL \$ 1,757,833

PROJECT SUMMARY: The water system has the following deficiencies: inadequate water supply for future peak day demands, inability to operate all wells year round, inadequate booster station capacity, no auxiliary power, UV system lacks capacity and the main pipeline is aged and needs rehabilitation with new valves installed. *The proposed solution would winterize wells 9-12 and upgrade the existing UV water treatment equipment, install back-up generators at the treatment facility and Shelby Heights booster station, complete improvements to the Shelby Heights booster station, re-route the south tank main, install clear well booster station back-up generator and rehabilitate the water main including new valves.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT: Town of Sheridan
 PROJECT TYPE: Water System Improvements
 FUNDING: \$ 625,000 TSEP Grant
 \$ 125,000 RRGL Grant
 \$ 618,000 SRF Loan
 \$ 15,000 TSEP Expended on PER
 \$ 5,000 RRGL Expended on PER
 TOTAL \$ 1,388,000

PROJECT SUMMARY: The water system has the following deficiencies: disinfection facility safety deficiencies and water storage deficiency of 240,000 gallons, water supply is inadequate to meet design demands and fire flows, undersized and deteriorated mains do not meet DEQ standards, water losses exceeding 44% in distribution system and deteriorated piping increases chances of contaminants entering water supply. *The proposed solution would complete chlorine disinfection system safety improvements at the pump house, complete storage tank safety improvements and distribution system improvements and add emergency power at the Groundwater Well Field Pump House.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT: Simms County Sewer District
 PROJECT TYPE: Wastewater System Improvements
 FUNDING: \$ 750,000 TSEP Grant
 \$ 125,000 RRGL Grant
 \$ 201,975 RD Grant
 \$ 605,925 RD Loan
 TOTAL \$ 1,682,900

PROJECT SUMMARY: The wastewater system has the following deficiencies: lagoon leakage at ten times the allowable rate, erosion on lagoon dikes and leakage significantly increases potential for contamination of area drinking water wells. *The proposed solution would reconfigure the existing lagoon system with small primary ponds and a secondary pond, modify lagoon piping and replace inter-pond control structures, install liners in the reconfigured lagoons, remove and land apply sludge, and construct a new spray irrigation system for disposal of treated effluent.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	South Wind Water & Sewer District
PROJECT TYPE:	Water & Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 341,750 SRF Grant
	<u>\$ 341,750 SRF Loan</u>
TOTAL	\$ 1,558,500

PROJECT SUMMARY: The water and wastewater system has the following deficiencies: leakage wastewater collection system piping and plugging of undersized service lines, and undersized water mains and service lines, substandard water system pressure and distribution piping. *The proposed solution would install about 3,000 ft. of water distribution piping, hydrants and valves, install about 5,200 ft. water service lines with valve and connections to homes, clean and televise sewer lines, replace about 2,000 ft. of sewer collection lines and 10 manholes, replace about 5,200 ft. sewer service lines between mains and cleanouts, install gravel replacement on roads in north half of District.*

PROJECT STATUS: Project has been awarded and anticipating bidding in winter of 2019 with a completion of fall of 2020.

NAME OF RECIPIENT:	Town of Stanford
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 25,000 Applicant cash
	\$ 196,377 RD Grant
	<u>\$ 383,199 RD Loan</u>
TOTAL	\$ 1,229,576

PROJECT SUMMARY: The water system has the following deficiencies: inadequate and low yield well water supply to meet current and future demands, inability to meet DEQ requirements for water and fire flows when the highest yielding well is out of service, inability to meet secondary drinking water standards due to high iron, manganese, hardness and carbon dioxide levels, and undersized water mains, distribution lines, dead ends and unmetered services connections. *The proposed solution would drill a new well in the Madison aquifer, construct a new well building with new electrical and controls, install new pumps and power sources and transmission piping and install a disinfection system in the well control building.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project received a reduced award amount. The project may proceed with the reduced funding amount and the balance of the award is on hold until there are sufficient revenues.

NAME OF RECIPIENT:	City of Townsend
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 625,000 TSEP Grant
	\$ 125,000 RRGL Grant
	<u>\$ 4,322,725 SRF Loan</u>
TOTAL	\$ 5,072,725

PROJECT SUMMARY: The wastewater system has the following deficiencies: inability to meet current and future permit limits for *E. coli*, biological oxygen demand and total suspended solids, excess sludge depths in the lagoons, aging lift stations and pumps and safety risks to operators at lift station due to confined spaces and lack of proper ventilation. *The proposed solution would install a new submersible lift station with chopper pumps, retrofit existing dry pit to accommodate new piping and controls, abandon lower level pump gallery, like leaking mains with CIPP lining, remove and land apply excessive sludge, install new headworks and mechanical screens, construct aeration improvements and install ultraviolet disinfection.*

PROJECT STATUS: Project has been awarded and has bid project. Plans to start construction winter of 2018-2019 with completion in summer 2019.

NAME OF RECIPIENT:	City of Whitefish – contingent award
PROJECT TYPE:	Wastewater System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 500,000 SRF Grant
	<u>\$ 15,991,666 SRF Loan</u>
TOTAL	\$ 17,366,666

PROJECT SUMMARY: The wastewater system has the following deficiencies: treatment plant load limits were exceeded multiple times between 2010-2015 for nitrogen, ammonia values in effluent regularly exceed allowable limits, four significant pathogen exceedances from 2012-2016 and a pending Flathead Lake total maximum daily

load permit will affect discharges coming from the Whitefish treatment plant. *The proposed solution would construct a SBR treatment facility including installation of an ultraviolet disinfection system.*

PROJECT STATUS: Project is contingently awarded.

NAME OF RECIPIENT:	Town of Winifred – contingent award
PROJECT TYPE:	Water System Improvements
FUNDING:	\$ 500,000 TSEP Grant
	\$ 125,000 RRGL Grant
	\$ 450,000 CDBG Grant
	\$ 100,000 Applicant cash
	<u>\$ 215,500 SRF Loan</u>
TOTAL	\$ 1,390,500

PROJECT SUMMARY: The water system has the following deficiencies: the water tank is undersized and the Town experiences periods of water shortages, the storage tank does not meet average daily demands or fire flows, low static water pressures in most of and undersized system, some pressures are at zero, fire hydrants can't produce sufficient flows due to low pressures and undersized mains, water service lines don't have meters and various problems exist in the pump house. *The proposed solution would construct a 170,000 storage tank, upgrade the pump house, install water meters and install a new transmission main to connect the new tank to the distribution system.*

PROJECT STATUS: Project is contingently awarded.

Bridges

NAME OF RECIPIENT:	Carbon County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	<u>\$ 908,739 Applicant cash</u>
TOTAL	\$ 1,658,739

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Chance Road Highland Bridge. *The proposed solution would replace the structure with a new bridge.*

PROJECT STATUS: Project was awarded, however, as a result of mandated reductions in HB6 to TSEP during the 2017 special session, the project received a reduced award. The project may proceed with the reduced funding amount and the balance of the award is on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Gallatin County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 684,800 TSEP Grant
	\$ 336,241 Applicant cash
	<u>\$ 400,000 Rural Improvement District</u>
TOTAL	\$ 1,421,041

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Nixon Bridge. *The proposed solution would replace the structure with a new bridge.*

PROJECT STATUS: Project anticipates construction in spring 2019 with completion fall 2019.

NAME OF RECIPIENT:	Judith Basin County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 247,125 TSEP Grant
	<u>\$ 256,319 Applicant cash</u>
TOTAL	\$ 503,444

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Ross Fork Bridge. *The proposed solution would replace the structure with a new bridge.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Lewis & Clark County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 309,985 TSEP Grant
	\$ 217,000 Applicant cash
	<u>\$ 92,985 Applicant in-kind</u>
TOTAL	\$ 619,970

PROJECT SUMMARY: The County has identified three bridges in need of replacement: the bridges are designated as EK5, EK6 and EK7 and are all located on Elk Creek Road. *The proposed solution would replace each structure with new bridges.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Madison County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 237,284 TSEP Grant
	<u>\$ 237,284 Applicant cash</u>
TOTAL	\$ 779,476

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Laurin Bridge. *The proposed solution would replace the structure with a new bridge. Project has been completed and was closed in summer 2018.*

NAME OF RECIPIENT:	Missoula County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 237,284 TSEP Grant
	<u>\$ 237,284 Applicant cash</u>
TOTAL	\$ 779,476

PROJECT SUMMARY: The County has identified two bridges in need of replacement: the Bible Lane over Petty Creek bridge and Frenchtown- Main Street over Mill Creek bridge. *The proposed solution would replace the structures with new bridges.*

PROJECT STATUS: Project anticipates construction in spring 2019 with completion fall 2019.

NAME OF RECIPIENT:	Park County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 107,957 TSEP Grant
	<u>\$ 107,957 Applicant cash</u>
TOTAL	\$ 215,914

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Mission Creek Bridge. *The proposed solution would replace the structure with a new bridge.*

PROJECT STATUS: Project anticipates construction in spring 2019 with completion fall 2019.

NAME OF RECIPIENT:	Powell County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 750,000 TSEP Grant
	<u>\$ 844,104 Applicant cash</u>
TOTAL	\$ 1,594,104

PROJECT SUMMARY: The County has identified one bridge in need of replacement: the Conley Street Bridge. *The proposed solution would replace the structure with a new bridge.*

PROJECT STATUS: Project was awarded, however, as a result of mandated budget reductions in HB6 to TSEP during the November 2017 special session, the project has been put on hold until there are sufficient revenues.

NAME OF RECIPIENT:	Prairie County
PROJECT TYPE:	Bridge System Improvements
FUNDING:	\$ 160,000 TSEP Grant
	\$ 1,274,500 Federal Lands Access Program
	<u>\$ 37,648 Applicant in-kind</u>
TOTAL	\$ 1,472,148

PROJECT SUMMARY: The County has identified one bridge in need of rehabilitation: the Milwaukee Road Bridge. *The proposed solution would rehabilitate the existing structure.*

PROJECT STATUS: Project anticipates construction beginning in spring 2019 with completion fall 2020.