



MAKING A DIFFERENCE IN ARIZONA **Completed Projects: Q4 2018 Update**

Below is a summary of the projects that have been completed during the quarter, both loans and technical assistance projects. We hope you will enjoy reading about the successes and results of the funding that WIFA is providing to Arizona's communities.

Q4 Summary:

6 projects completed (3 loans, 3 technical assistance projects)

- \$2,420,931 total
 - \$2,359,500 in loans
 - \$61,431 in technical assistance funding
- 5 drinking water projects
 - 3 completed by small/rural communities (less than 10,000)
- 1 clean water (wastewater/stormwater) project

Completed Loans

City of Flagstaff

Population: 64,908

Red Gap Ranch Pipeline Feasibility Study

Loan Amount: \$2,100,000

Project Results:

The City of Flagstaff purchased Red Gap Ranch, located 35 miles east of Flagstaff, to secure additional groundwater supplies and to reduce the impact of pumping from its well fields. Currently, the city uses both surface water and groundwater to supply its customers. Surface water supplies have proven undependable and Flagstaff's two major well fields have experienced declining water levels. This WIFA loan funded pre-design work and engineering services to develop the conceptual design for the Red Gap Ranch water delivery pipeline, wells, raw water pipeline network, booster pump station(s) and reservoirs.

Eagletail Water Company, LLC

Population: 83

Storage Tank Replacement

Loan Amount: \$174,000

Project Results:

The Eagletail Water Company secured a WIFA loan to replace the existing 500,000 gallon storage tank, which was installed over forty-years prior and had been experiencing extended periods of leaking and rusting of the bottom. The WIFA funds provided for the design and construction of the new 250,000 gallon storage tank.



Elfrida Water Improvement District**Population: 800****Elfrida Water Critical Well Repair****Loan Amount: \$85,000****Project Results:**

Elfrida Water Improvement District completed improvements to its Jefferson Road Well in November. The well was originally drilled in 1950, but prolonged drought conditions and increased agriculture in the area drastically reduced the well's production capacity. The WIFA loan funded the design and construction of well improvements, including deepening the well from 300 feet to approximately 600 feet and a new casing to replace the corroded casing. These improvements will allow the Jefferson Road Well to serve as the full-time secondary supply well instead of as a backup.

**Completed Technical Assistance Projects****City of Flagstaff****Population: 70,320****Flagstaff Green Stormwater Infrastructure Watershed Planning and Design****TA Amount: \$35,000****Project Results:**

The City proposed to collaborate with the Watershed Management Group (WGM) to develop an initial Watershed Action Plan focused on GSI opportunities within the Rio de Flag watershed. Enhancing water quality, flood mitigation and community quality of life through GSI planning and implementation were the core focuses of the Watershed Action Plan. The water quality parameters that were of interest for the City of Flagstaff are those common to urban environments: turbidity, E. coli bacteria, Nitrogen, and Phosphorus. WIFA funds directed to this plan identified opportunities for GSI throughout the City of Flagstaff, developed a list of high priority projects and developed a complete design for one high priority project and included training and outreach for the plan to the appropriate stakeholders.

City of Nogales**Population: 21,830****Camino del Sol Water System Improvements Design****TA Amount: \$16,431****Project Results:**

WIFA's Technical Assistance funded the design of a water main replacement of 4-inch water line with 8-inch water line in the Camino Del Sol area. This area of the city has numerous deficiencies that impact system reliability, such as pipe age, substandard pipe diameters, inoperable valves, and a lack of fire hydrants. This design will allow for critical improvements to be made, including upgrading undersized pipes to accommodate fire hydrants, installing a fire hydrant, and connecting two waterlines to produce a looped system.

Rancheros Bonitos Water Company**Population: 96****Water Tank Replacement and Generator****TA Amount: \$10,000****Project Results:**

Rancheros Bonitos Water Company's 15,000-gallon storage tank has been repaired with welded patches on numerous occasions. It needs to be replaced with a larger tank, and the community needs a back-up generator. The scope of work funded by the WIFA Technical Assistance program involved conducting a site survey and preparing design drawings, including submission to Yuma County and ADEQ for permits. The Company returned to WIFA for a \$100,000 loan to fund the construction of these improvements. The loan will also include the replacement of a well pump and motor that are well beyond expected service life. The loan closed on June 1, 2018 and included \$50,000 in forgivable principal.