



— BUREAU OF —  
RECLAMATION

# **Water Infrastructure Improvements for the Nation Act of 2016 (Public Law 114-322), Title I Water Resources Development Section 4009(c): Feasibility Study Review Findings**

**U.S. Department of the Interior, Bureau of Reclamation's  
Title XVI Program**

Prepared for

**Committee on Energy and Natural Resources of the Senate  
Committee on Natural Resources of the House of Representatives**

## **Mission Statements**

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; honors its trust responsibilities or special commitments to American Indians, Alaska Natives, Native Hawaiians, and affiliated Island Communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

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# Introduction

This report is provided in accordance with Public Law (P.L.) 114-322, the Water Infrastructure Improvements for the Nation (WIIN) Act of 2016, Section 4009(c) and the Infrastructure Investment and Jobs Act – Title IX Western Water Infrastructure (P.L. 117-58). Authorized under P.L. 102-575 in 1992, the Bureau of Reclamation (Reclamation) established the Title XVI Program (Title XVI) that provides cost-shared grant funding for the planning, design, and construction of non-Federal water reclamation and reuse projects. Originally, Title XVI funding was limited to Congressionally authorized water reclamation and reuse projects. In 2016, the passage of the WIIN Act authorized Reclamation to provide funding for water reclamation and reuse projects without a project-specific congressional authorization.

As required under Section 4009(c) of the WIIN Act, projects are eligible to compete for funding after a project sponsor completes a feasibility study, and Reclamation determines that it meets the programmatic requirements outlined in the Reclamation Manual Directives and Standards WTR 11-01. WTR 11-01 is designed to provide structured guidance for feasibility study reviews and to meet feasibility study legislative requirements. This includes:

- The feasibility study report meets the requirements of a feasibility study as defined under Section 1604 of P.L. 102-575, as amended.
- The feasibility study, and the process under which the study was developed, complies with Federal laws and regulations applicable to feasibility studies of Title XVI projects.
- The project is technically and financially feasible and provides a Federal benefit in accordance with Reclamation law.

## Feasibility Reviews and Determinations

Section 4009(c) of the WIIN Act requires the Secretary of the Interior to submit a report to Congress that describes the results of feasibility reviews. Figure 1 below is a summary of the 10 feasibility study reviews that have occurred since the last Feasibility Study Review Findings report was transmitted to Congress. All 10 feasibility studies were determined to meet the requirements of WTR 11-01.

As a result of meeting requirements outlined in WTR 11-01, these projects, as defined by the feasibility study, are now eligible for planning, design, and construction funding through the competitive Title XVI grant program. Reclamation uses annual competitive funding opportunities to allocate funds available for the Title XVI Program. The total Federal funding received may not exceed 25 percent of the total project cost, up to the per project Federal funding cap identified in the Title XVI WIIN Act funding opportunity.

Prior to receiving Federal funding, the project must comply with all applicable environmental laws, including the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.), and before any construction begins, all project sponsors must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all operation,

maintenance, and replacement costs, pursuant to Reclamation Manual Directives and Standards WTR-11-02.

## Project Summaries

Provided below are summaries of the 10 projects that include the projects sponsors, location, project description, and total estimated project costs.

<b>Coachella Valley Water District</b>	<b>Elsinore Valley Municipal Water District</b>	<b>Hidalgo County Drainage District No. 1</b>	<b>City of Oceanside</b>	<b>Palmdale Water District</b>
<b>Project Title:</b> WRP-7 Existing Tertiary Treatment System and MP 113.2 Canal Pump Station Improvement Project	<b>Project Title:</b> Reclaimed Water Supply Enhancement Project	<b>Project Title:</b> Delta West Reclamation Facility	<b>Project Title:</b> Recycled Water Expansion	<b>Project Title:</b> Pure Water Antelope Valley
<b>Estimated Project Costs:</b> \$26,949,845	<b>Estimated Project Costs:</b> \$190,235,812	<b>Estimated Project Costs:</b> \$72,091,753	<b>Estimated Project Costs:</b> \$150,032,000	<b>Estimated Project Costs:</b> \$241,100,000
<b>City of Peoria</b>	<b>City of Phoenix</b>	<b>City of Quincy</b>	<b>San Gabriel Valley Municipal Water District</b>	<b>Timpanogos Special Service District</b>
<b>Project Title:</b> Water Resources Augmentation Program	<b>Project Title:</b> Cave Creek Water Reclamation Plant Recharge Facilities	<b>Project Title:</b> Quincy-AgIRIS Reclaimed/Reuse Water Project	<b>Project Title:</b> Recycled Water Supply Program	<b>Project Title:</b> Northern Utah County Regional Reuse Project
<b>Estimated Project Costs:</b> \$491,593,000	<b>Estimated Project Costs:</b> \$13,000,000	<b>Estimated Project Costs:</b> \$122,166,881	<b>Estimated Project Costs:</b> \$46,170,000	<b>Estimated Project Costs:</b> \$169,699,346

Figure 1.—Summary of the 10 feasibility studies reviewed by Reclamation.

## Coachella Valley Water District

**Project:** WRP-7 Existing Tertiary Treatment System and MP 113.2 Canal Pump Station Improvement Project

**Location:** Palm Desert, CA

**Review Completed:** August 27, 2024

The Coachella Valley Water District evaluated the feasibility of expanding the tertiary treatment capacity of the Water Reclamation Plant-7 (WRP-7) to meet future water demands with recycled water supplies. The project includes upgrades to major reclamation plant components, including tertiary filtration and disinfection facilities, pump replacements, the non-potable water system station, and the MP 113.2 distribution system pump station. Upon completion, the improved WRP-7 facility will produce 3,360 acre-feet annually, recycling nearly 100% of WRP-7 influent into non-potable water for irrigation customers.

**Total Estimated Project Costs:** \$26,949,845

## **Elsinore Valley Municipal Water District**

**Project:** Reclaimed Water Supply Enhancement Project

**Location:** Lake Elsinore, CA

**Review Completed:** November 22, 2024

The Elsinore Valley Municipal Water District (District) assessed ways to enhance source water flows to the regional water reclamation facility to produce additional recycled water. The preferred alternative includes the construction of a new sewer lift station and dual force mains and septic to sewer conversions in two low-income communities. Increased flows resulting from the septic-to-sewer conversions will contribute to the District's recycled water program and provide regular inflows of recycled water required for the District to maintain its commitments to Lake Elsinore without curtailing recycled water deliveries.

**Total Estimated Project Costs:** \$190,235,812

## **Hidalgo County Drainage District No. 1**

**Project:** Delta West Reclamation Facility

**Location:** Edinburg, TX

**Review Completed:** November 25, 2024

The Hidalgo County Drainage District No. 1 (District) investigated whether reclaimed water from the District's drainage outfall system would be suitable for reuse. The project will include the construction of a 5 million gallon per day microfiltration and reverse osmosis water treatment facility to reclaim and treat water in the drainage system composed of irrigation return flows, wastewater treatment plant effluent, and stormwater flows to drinking water standards. The project is expected to distribute 5,600 acre-feet per year of recycled water to the existing networks of public water systems in the area.

**Total Estimated Project Costs:** \$72,091,753

## **City of Oceanside**

**Project:** Recycled Water Expansion

**Location:** Oceanside, CA

**Review Completed:** February 20, 2024

The City of Oceanside assessed options for developing recycled water infrastructure to maximize reuse of available wastewater supplies. The project includes two recycled water systems that will

expand conveyance infrastructure to increase recycled water deliveries by 3,226 acre-feet per year. The systems will include branched conveyance networks including pipelines, storage tanks, pump stations, and pressure-reducing valves. The project will provide a long-term cost-effective local water supply by improving potable water supply reliability and reducing demand for imported water or desalinated seawater.

**Total Estimated Project Costs:** \$150,032,000

## **Palmdale Water District**

**Project:** Pure Water Antelope Valley

**Location:** Palmdale, CA

**Review Completed:** February 20, 2024

The Palmdale Water District analyzed potable reuse alternatives to help meet future water demands and improve water supply reliability. The preferred alternative will inject advanced treated purified water into the Antelope Valley Groundwater Basin for indirect potable reuse and will augment local water supplies by approximately 4,751 acre-feet per year. Project components will include a demonstration facility, conveyance infrastructure, advanced water purification facility, injection wells, and evaporation ponds.

**Total Estimated Project Costs:** \$241,100,000

## **City of Peoria**

**Project:** Water Resources Augmentation Program

**Location:** Peoria, AZ

**Review Completed:** November 25, 2024

The City of Peoria evaluated ways to augment local water supplies to provide flexibility during fluctuations in water supply availability. The project includes the construction of reclaimed water lines, expansion of two water reclamation facilities, reservoirs, groundwater recharge facilities, and recovery wells. Upon completion, the project will deliver 21,742 acre-feet of reclaimed water annually. Recycled water will be delivered for direct use by end users for landscape irrigation industrial purposes, and indirect potable reuse where water will be recharged into the ground and then pumped out to augment the potable water supply system.

**Total Estimated Project Costs:** \$491,593,100

## **City of Phoenix**

**Project:** Cave Creek Water Reclamation Plant Recharge Facilities

**Location:** Phoenix, AZ

**Review Completed:** November 25, 2024

The City of Phoenix assessed water recycling alternatives to diversify the City's water resource portfolio and reduce reliance on the Colorado River. The preferred alternative is a groundwater recharge project in which treated effluent from the Cave Creek Water Reclamation Plant (CCWRP) will be discharged to subsurface basins. This project will use the existing recycled water distribution system with an extension of piping to deliver treated effluent from the CCWRP outfall to the new recharge basins.

**Total Estimated Project Costs:** \$13,000,000

## City of Quincy

**Project:** Quincy-AgIRIS Reclaimed/Reuse Water Project

**Location:** Quincy, WA

**Review Completed:** November 25, 2024

The City of Quincy assessed options to increase the reliability of its potable water supplies through water reuse. The selected option includes the construction of an agricultural industrial process water treatment and reuse facility. The Agricultural Industrial Reuse Irrigation System project will treat and reuse process water from the City's existing Industrial Wastewater Treatment Plant (IWTP) to produce 5,204 acre-feet of additional water supply annually. The project will allow for continued operation of the IWTP and local food processing facilities while providing a new, local, and drought-resilient water supply.

**Total Estimated Project Costs:** \$122,166,881

## San Gabriel Valley Municipal Water District

**Project:** Recycled Water Supply Program

**Location:** Azusa, CA

**Review Completed:** February 20, 2024

The San Gabriel Valley Municipal Water District (District) assessed the feasibility of developing a recycled water program for its member agencies. The preferred alternative includes implementing a non-looped recycled water distribution system for users in the Cities of Monterey Park and Alhambra. Through a phased approach, the District will construct pipeline to connect to the existing Central Basin Municipal Water District recycled water system, pumping facilities, and a storage reservoir.

**Total Estimated Project Costs:** \$46,170,000



## **Timpanogos Special Service District**

**Project:** Northern Utah County Regional Reuse Project

**Location:** Midvale, UT

**Review Completed:** March 5, 2025

The Timpanogos Special Service District (TSSD) investigated ways to develop a regional reuse system across north Utah County for irrigation users to replace existing water sources with recycled water supplies. The preferred alternative includes treating wastewater at the TSSD water reclamation facility (WRF) to produce recycled water for non-potable irrigation applications. The project will consist of adding treatment processes, filtration, and ultraviolet disinfection to the WRF and constructing a storage pond with a distribution pump station. Diverting treated effluent will avoid discharges to Utah Lake, which will reduce phosphorous loading, while decreasing dependency on drought-sensitive surface water sources.

**Total Estimated Project Costs:** \$169,699,346