

# RECLAMATION

*Managing Water in the West*

## **Water Infrastructure Improvements for the Nation Act of 2016 (Pub. L. 114-322), Title I Water Resources Development Section 4009(c):**

### **Feasibility Study Review Findings**

**July 2017**

*Prepared for*

**United States Congress**

*Prepared by*

**U.S. Department of the Interior  
Bureau of Reclamation**



**U.S. Department of the Interior  
Bureau of Reclamation**

**July 2017**



## **Mission Statements**

The U.S. Department of the Interior protects America's natural resources and heritage, honors our cultures and tribal communities, and supplies the energy to power our future.

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.



## Table of Contents

Eligible Projects .....	1
Summary of Results .....	2
Albuquerque Bernalillo County Water Utility Authority.....	3
Central Oklahoma Master Conservancy District .....	4
City of Austin Water Utility.....	5
City of Clovis .....	6
City of Dallas .....	7
City of Fresno .....	8
City of Hayward.....	9
City of Lubbock, Texas.....	10
City of McAllen .....	11
City of Oceanside.....	12
City of Palo Alto .....	13
City of Santa Fe.....	14
City of Ventura.....	15
City of Waco .....	16
County of Los Angeles .....	17
Del Puerto Water District.....	18
Delta Diablo .....	19
Dublin San Ramon Services District .....	20
Eastern Municipal Water District .....	21
El Paso Water Utilities Board.....	22
Ironhouse Sanitary District .....	23
Kern-Tulare Water District.....	24
Laguna Madre Water District.....	25
Magna Water Company .....	26
Marina Coast Water District .....	27
Monterey Regional Water Pollution Control Agency .....	28
North Bay Water Reuse Authority .....	29
North San Diego County Water Reuse Coalition.....	30
Orange County Sanitation District.....	31
Palmdale Water District .....	32
Rancho Murieta Community Services District.....	33
Redwood City .....	34
Sacramento Regional County Sanitation District.....	35
Sacramento Regional County Sanitation District.....	36
San Antonio Water System .....	37
Upper San Gabriel Valley Municipal Water District.....	38
Water Replenishment District of Southern California.....	39
West Bay Sanitary District .....	40

## Eligible Projects

This report is provided in accordance with Water Infrastructure Improvements for the Nation (WIIN) Act of 2016 (Pub. L. 114-322), Title I Water Resources Development Section 4009(c). The purpose of this report is to provide a summary of each of the review findings for Title XVI feasibility studies reviewed and completed prior to May 8, 2017 that meet the established requirements as defined in the Bureau of Reclamation (Reclamation) Manual Directives and Standards WTR-11-01 and under section 1604 of Pub. L. 102-575, as amended.

In March, 2017, letters were sent to entities with Title XVI feasibility studies that have been found to meet the requirements of the Reclamation Manual Directives and Standards WTR-11-01. Following the status letter responses, Reclamation contacted entities with active projects to confirm that their project should be included in this transmission. Based on communication with the project sponsors the following list of completed feasibility studies is provided:

- Albuquerque Bernalillo County (New Mexico), Bosque and Tijeras Reuse Projects
- Central Oklahoma Master Conservancy District, Lake Thunderbird Water Reuse Project
- City of Austin (Texas) Water Utility, Effective Water Resource Management Project
- City of Clovis (New Mexico), City of Clovis Water Reuse Project
- City of Dallas (Texas), Dallas Reclaimed Water Delivery System
- City of Fresno (California), Airport Satellite Water Reclamation Plant
- City of Hayward (California), Recycled Water Project
- City of Lubbock (Texas), Potable Water Reuse Implementation Project
- City of McAllen (Texas), Brackish Groundwater Desalination Project
- City of Oceanside (California), Mission Basin Groundwater Purification Facility Demonstration Project
- City of Palo Alto (California), Recycled Water Pipeline Project
- City of Santa Fe (New Mexico), Project to Optimize the use of Regional Reclaimed Wastewater
- City of Ventura (California), Expanding Recycled Water Delivery Project
- City of Waco (Texas), Flat Creek Interceptor and Reuse Project
- County of Los Angeles (California), North Los Angeles County Regional Recycled Water Project
- Del Puerto Water District (California), North Valley Regional Recycled Water Program
- Delta Diablo (California), Recycled Water Master Plan Project
- Dublin San Ramon Services District (California), Dublin Recycled Water Expansion Project
- Eastern Municipal Water District (California), Indirect Potable Reuse Project
- El Paso Water Utilities Board (Texas), Advanced Water Purification Facility
- Ironhouse Sanitary District (California), Recycled Water Project
- Kern-Tulare Water District (California), Oil Field Water Reuse Project
- Laguna Madre Water District (Texas), Port Isabel Wastewater Treatment Facility Water Reclamation and Reuse Facility Master Plan Project
- Magna Water Company (Utah), Water Reclamation and Reuse Project
- Marina Coast Water District (California), Regional Urban Water Augmentation Project
- Monterey Regional Water Pollution Control Agency (California), Pure Water Monterey Groundwater Replenishment Project
- North Bay Water Reuse Authority (California), North Bay Water Reuse Program Phase 2

**Bureau of Reclamation Manual Directives and Standards WTR-11-01  
Feasibility Study Review Findings and Funding Conditions**

- North San Diego County Water Reuse Coalition (California), Regional Recycled Water Program 2020 Project
- Orange County Sanitation District (California), Effluent Reuse Project
- Palmdale Water District (California), Regional Groundwater Recharge and Recovery Project
- Rancho Murieta Community Services District (California), Rancho Murieta Recycled Water Project
- Redwood City (California), Central Redwood City Recycled Water Project
- Sacramento Power Authority (California), City of Sacramento Recycled Water Project
- Sacramento Regional County Sanitation District (California), South Sacramento County Agriculture and Habitat Lands Project
- San Antonio Water System (Texas), Brackish Groundwater Desalination Program
- Upper San Gabriel Valley Municipal Water District (California), Indirect Reuse Replenishment Project
- Water Replenishment District of Southern California, Groundwater Reliability Improvement Program Recycled Water Project
- West Bay Sanitary District (California), Recycled Water Project

This list of projects eligible to compete for funding will be amended as subsequent reports are provided to Congress as additional feasibility studies are completed and reviewed.

## Summary of Results

This report includes a brief one page summary of the results of each feasibility study review under WTR 11-01, including the following determinations:

- The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended.
- The feasibility study, and the process under which the study was developed, each comply 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 the reclamation laws.

The WIIN Act identifies that within 180 days of receipt of a feasibility study a letter will be provided to Congress summarizing the results of the review. Per the requirements under the WIIN Act, all reviews that have taken place since the passage of the Act are included in this transmission to meet that 180 calendar day requirement. All future reviews shall take no longer than 180 calendar days, excluding the periods when Reclamation is waiting for additional information from the study lead.

Project specific reports are provided to summarize the results of each feasibility study review, provide a brief project description, and identify conditions.

## Albuquerque Bernalillo County Water Utility Authority

**Project Sponsor:** Albuquerque Bernalillo County Water Utility Authority

**Location:** Albuquerque, New Mexico

**Project:** Bosque and Tijeras Reuse Projects

**Total Estimated Project Cost:** \$213,000,000

**Date Completed:** August 30, 2012

**Short Project Description:** The objective of this study was to evaluate water supply alternatives for the Albuquerque Bernalillo County Water Utility Authority. Two proposed projects were identified the Bosque and Tijeras Reuse Projects. The Bosque Reuse Project will provide up to 15 million gallons per day (MGD) or 16,800 acre-feet per year (AFY) of recycled water for urban irrigation uses, aquifer storage and recovery, and surface water augmentation for ecological benefits on the Westside of the Water Utility Authority service area. The Tijeras Reuse Project would provide recycled water for irrigational and industrial uses in the southeastern portion of the Water Utility Authority service area.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Albuquerque Bernalillo County Water Utility Authority, Bosque and Tijeras Reuse Projects on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.



## Central Oklahoma Master Conservancy District

**Project Sponsor:** Central Oklahoma Master Conservancy District

**Location:** Lake Thunderbird, Oklahoma

**Project:** Lake Thunderbird Water Reuse Project

**Total Estimated Project Cost:** \$43,800,000

**Date Completed:** October 19, 2012

**Short Project Description:** The objective of this study was to evaluate water supply alternatives for Central Oklahoma Master Conservancy District, which operates Lake Thunderbird, located southeast of Oklahoma City. The proposed project is divided into three phases. Phase I will supply 5,600 AFY (5 MGD) of reclaimed water to Lake Thunderbird from the Moore wastewater treatment plant. Phase II will augment the lake with an additional 5,600 AFY (5 MGD) of reclaimed water from the Norman wastewater treatment plant. Phase III will expand the Norman booster pump station to convey a total of 11,200 AFY (10 MGD) of reclaimed water to the Dave Blue Creek tributary of Lake Thunderbird. The project will produce 16,800 AFY (15 MDG) of additional water supply.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Central Oklahoma Master Conservancy District, Lake Thunderbird Water Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** At this time, the Oklahoma Department of Environmental Quality does not have rules regulating indirect potable reuse. The District is awaiting the finalization of the reuse regulations and the approval of the regulations from the State of Oklahoma Legislature.

## City of Austin Water Utility

**Project Sponsor:** City of Austin Water Utility

**Location:** Austin, Texas

**Project:** Effective Water Resource Management Project

**Total Estimated Project Cost:** \$157,600,000

**Date Completed:** March 12, 2010

**Short Project Description:** The objective of this study was to identify a water supply alternative to provide at least 21,096 AFY of water for the City of Austin. The proposed project is a recycled water transmission main alternative. The City of Austin has existing transmission main in the southern and central part of its service area as well as pump stations and storage tanks at the Walnut Creek and South Austin Regional Wastewater Treatment Plant. This existing infrastructure serves as the backbone of the transmission main alternative and an extensive distribution system with transmission mains, tanks, and pump stations will be built to convert existing large potable water customers to reclaimed water use.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions under the Competitive Grant Program:**

- Reclamation will include the City of Austin Water Utility, Effective Water Resource Management Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** The feasibility study completed in 2009 features a 26-year construction program. At this time, approximately 65% of the infrastructure identified in the feasibility study remains to be designed and built. As noted in the funding conditions, planning, design, and construction activities completed prior to the transmission of this list of eligible projects are not eligible for funding, but the remaining activities are eligible if all funding conditions are met.

## City of Clovis

**Project Sponsor:** City of Clovis

**Location:** Clovis, New Mexico

**Project:** Wastewater Reuse Project

**Total Estimated Project Cost:** \$11,973,251

**Date Completed:** September 30, 2011

**Short Project Description:** This study investigated the economic feasibility and best technical approach for the City of Clovis to develop a comprehensive reclaimed wastewater system for irrigation purposes, potential future industrial use, and other non-potable water uses. The proposed project involves the development of an urban non-potable reuse system that will supply and distribute approximately 1,450 AFY (1.3 MGD) of reclaimed water from the Clovis Wastewater Treatment Plant to users within the City of Clovis. The complete reuse system is broken into two distinct phases for construction. The first phase of the project involves necessary treatment, transmission and storage and provides water to the majority of the anticipated users. The second phase of the project allows for additional users to be added to the system.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Clovis, Wastewater Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** The Phase 1 design and construction for this project was divided into four components. The first and second components are complete. The two remaining Phase 1 components and Phase 2 are planned to be constructed.

## City of Dallas

**Project Sponsor:** City of Dallas

**Location:** Dallas, Texas

**Project:** Dallas Reclaimed Water Delivery System

**Total Estimated Project Cost:** \$110,648,168

**Date Completed:** July 21, 2014

**Short Project Description:** Due to projected future shortcomings in water supply, water reclamation is a key resource to augment the City of Dallas' potable water supply. The Dallas Reclaimed Water Delivery System Feasibility Study evaluated potential projects to supply reclaimed and impaired water to customers in three service areas, which included the Bachman Service Area, Central Business District Service Area, and White Rock Service Area. Within the three service areas, four reclaimed or impaired water distribution systems were developed and evaluated. The systems include White Rock Alternative 1, White Rock Alternative 2, White Rock Alternative 3, and Bachman. The White Rock Alternatives deliver reclaimed water from Central Wastewater Treatment Plant or from White Rock Lake to the Central Business District and the White Rock Service Areas. The Bachman system delivers impaired water from Bachman Lake to service the Bachman Service Area.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Dallas Reclaimed Water Delivery System on a publicly available list of entities on the WaterSMART Title XVI Program website who have completed a feasibility study that has been determined by Reclamation to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** There are no immediate plans to design or construct the project, but it is included in the Dallas Water Utilities – Long Range Water Supply Plan as a potential future water management strategy.

## City of Fresno

**Project Sponsor:** City of Fresno

**Location:** Fresno, California

**Project:** Fresno Airport Satellite Water Reclamation Plant

**Total Estimated Project Cost:** \$112,000,000

**Date Completed:** June 12, 2017

**Short Project Description:** The City of Fresno is pursuing the Fresno Airport Satellite Water Reclamation Plant to improve water availability for current and future uses. Currently the City of Fresno relies on a seasonal surface water supply that is highly dependent on snow fall in the Sierra Nevada Mountains and limited groundwater supplies. The Fresno Airport Satellite Water Reclamation Plant will divert water from the sanitary and industrial sewer and treat these supplies and treat the water to Title 22 disinfected standards. The project is expected to produce 6,726 AFY (6.0 MGD) to offset potable water uses in the City of Fresno.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Fresno Airport Satellite Water Reclamation Plant on a publicly available list of entities on the WaterSMART Title XVI Program website who have completed a feasibility study that has been determined by Reclamation to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Hayward

**Project Sponsor:** City of Hayward

**Location:** Hayward, California

**Project:** Recycled Water Project

**Total Estimated Project Cost:** \$20,555,000

**Date Completed:** June 14, 2017

**Short Project Description:** The primary objective for implementing a recycled water project in the City of Hayward is to maximize recycled water as a supplemental non-potable water source. This project will assist the City of Hayward in addressing water supply and wastewater discharge challenges that include increases in water charges, decreases in available supplies, meeting discharge requirements to the San Francisco Bay, and interest to develop a more sustainable water supply alternative. The project includes construction of a tank, pump station, and pipelines to distribute 290 AFY (0.3 MGD) of tertiary treated recycled water to irrigation customers.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Hayward Recycled Water Project on a publicly available list of entities on the WaterSMART Title XVI Program website who have completed a feasibility study that has been determined by Reclamation to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Lubbock, Texas

**Project Sponsor:** City of Lubbock, Texas

**Location:** Lubbock, Texas

**Project:** Potable Water Reuse Implementation Project

**Total Estimated Project Cost:** \$86,239,000 (Phase 1)

**Date Completed:** February 27, 2017

**Short Project Description:** The objective of this study was to evaluate alternative water supply options for the City of Lubbock with a focus on potential direct and indirect potable reuse opportunities. The City of Lubbock recommended multiple projects that will be implemented in two phases. The Phase 1 potable reuse project will augment existing raw water supplies at the North Water Treatment Plant with advanced treated water from the Northwest Water Reclamation Plant resulting in approximately 5,376 AY (4.8 MGD) of additional drinking water. Two potable reuse project options are under consideration for Phase 2. Both Phase 2 options will increase the total project capacity to more than 15,000 AFY.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Lubbock, Texas Potable Water Reuse Implementation Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** Two potable reuse project options are under consideration for Phase 2. After Phase 1 is implemented, the City of Lubbock will reevaluate which of the Phase 2 projects is most appropriate. Phase 2 will require a separate or amended feasibility study be submitted to Reclamation for review.

## City of McAllen

**Project Sponsor:** City of McAllen

**Location:** McAllen, Texas

**Project:** Brackish Groundwater Desalination Project

**Total Estimated Project Cost:** \$62,339,000

**Date Completed:** May 2, 2017

**Short Project Description:** The objective of this study was to evaluate alternative water supply options for McAllen Public Utility with a focus on potential direct potable reuse, indirect potable reuse, and brackish groundwater reclamation opportunities. The proposed project includes two phases. Phase 1 implements 5,600 AFY (5 MGD) of brackish groundwater blending with treated surface water to produce a useable local supply. Phase 2 includes an additional 5,600 AFY (5 MGD) of brackish groundwater desalination at a desalination plant, which will be built at the North Water Treatment Plant. The McAllen brackish groundwater desalination plant is included as a recommended water supply project for Region M in the 2017 Texas State Water Plan.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of McAllen, Brackish Groundwater Desalination Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.



## City of Oceanside

**Project Sponsor:** City of Oceanside

**Location:** Oceanside, California

**Project:** Mission Basin Groundwater Purification Facility Demonstration Project

**Total Estimated Project Cost:** \$42,736,000

**Date Completed:** February 27, 2017

**Short Project Description:** The purpose of this study was to investigate strategies to enhance water supply reliability restoring capacity at the 3 MGD Mission Basin Groundwater Purification Facility Demonstration Project Facility. The proposed project will install advanced water treatment facilities that will allow the City of Oceanside to utilize the full 3.0 MGD expansion capacity of the Mission Basin Groundwater Purification Facility Demonstration Project through treatment and injection of highly purified wastewater to recharge the groundwater basin. The facilities identified in the proposed project include an advanced water treatment plant, injection wells, a pump station and a piping system to serve the injection wells, as well as multiple downgradient monitoring wells. The completion of this expansion will allow the City to provide 3,360 AFY of local, sustainable, drought proof potable water supplies.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Oceanside, Mission Basin Groundwater Purification Facility Demonstration Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Palo Alto

**Project Sponsor:** City of Palo Alto

**Location:** Palo Alto, California

**Project:** Palo Alto Recycled Water Pipeline Project

**Total Estimated Project Cost:** \$33,500,000

**Date Completed:** November 22, 2013

**Short Project Description:** The primary goal of this study was to identify alternatives that maximize recycled water as a supplemental water source to existing potable supplies, improve water supply reliability, and provide a local drought resistant water source for the City of Palo Alto. The proposed project is composed of a transmission pipeline, booster pump station, laterals and site retrofits necessary to serve recycled water from the Palo Alto Regional Water Quality Control Plant to large high tech customers in the primary business area of the City of Palo Alto, with capability to serve other communities within the region in the future. The majority of the projected use will be for landscape irrigation with the remainder for Industrial & Commercial cooling purposes. Though not a primary focus of the project, it is feasible the project could be used for future stream flow augmentation projects or groundwater recharge.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Palo Alto Recycled Water Pipeline Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Santa Fe

**Project Sponsor:** City of Santa Fe

**Location:** Santa Fe, New Mexico

**Project:** Santa Fe Water Reuse Project

**Total Estimated Project Cost:** \$17,800,000

**Date Completed:** May 2, 2017

**Short Project Description:** The primary objective of this feasibility study is to identify the highest value use of the reclaimed water currently available from the City's Paseo Real Water Reclamation Facility and potential future flows from the County's Quill Water Reclamation Facility, while respecting downstream flow maintenance for cultural and ecological purposes on the lower Santa Fe River. The proposed project includes constructing a new pipeline to convey reclaimed water from the Paseo Real Water Reclamation Facility to a point of discharge to the Rio Grande just downstream of the Buckman Direct Diversion site to obtain return flow credits for exchange, using return flows generated from diversions of Santa Fe's San Juan-Chama Project contract water.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Santa Fe Water Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Ventura

**Project Sponsor:** City of Ventura

**Location:** Ventura, California

**Project:** Expanding Recycled Water Delivery Project

**Total Estimated Project Cost:** \$94,000,000

**Date Completed:** May 29, 2014

**Short Project Description:** The purpose of the Recycled Water Study was to better define projects for expanding recycled water for the purpose of offsetting potable uses, recharging groundwater basins, offsetting agricultural use and to create wetlands that would serve as a public amenity and environmental enhancement to the community. This project is unique in the sense that the primary driver is the need to provide reuse opportunities to reduce the discharge flow to the Santa Clara River Estuary. The recommended project includes indirect potable reuse and direct reuse project alternatives in conjunction with treatment wetlands. The feasibility study recommended implementing the project in a phased approach, where common components of the indirect potable reuse and direct reuse project alternatives would be implemented first. The proposed project provides approximately 4,030 AFY (3.6 MGD) of recycled water under all alternative configurations.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Ventura, Expanding Recycled Water Delivery Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## City of Waco

**Project Sponsor:** City of Waco-

**Location:** Waco, Texas

**Project:** Flat Creek Reuse Project

**Total Estimated Project Cost:** \$6,650,285

**Date Completed:** October 13, 2009

**Short Project Description:** The objectives of the study is to evaluate alternatives to provide 5 MGD to 10 MGD of water supply, with a quality satisfactory for irrigation and/or cooling water purposes, on a dependable basis. Additional considerations include ensuring the unit cost of the alternative water supply is equivalent to or less than the current retail cost of water supply and the quality must equal or exceed the parameters established by the Texas Commission on Environmental Quality for Type 1 Reuse water supply. The project consists of three components, which include (i) reuse transmission pipeline from the wastewater treatment plant to the area of use, (ii) ground storage and pumping facilities at the wastewater treatment plant, and (iii) reuse delivery pipeline to the municipal golf course and industrial district.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the City of Waco, Flat Creek Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** The first component of the project, reuse transmission pipeline from the wastewater treatment plant to the area of use, has been completed. The City of Waco plans to construct the second two components.

## County of Los Angeles

**Project Sponsor:** County of Los Angeles

**Location:** Alhambra, California

**Project:** North Los Angeles County Regional Recycled Water Project

**Total Estimated Project Cost:** \$119,184,000

**Date Completed:** August 15, 2011

**Short Project Description:** The objective of this study was to evaluate alternative water supply options for North Los Angeles County. The proposed project includes the phased construction of about 38 miles of pipelines, pump stations, and storage tanks which will allow the distribution of approximately 13,000 AFY of recycled water for non-potable uses.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the North Los Angeles County Regional Recycled Water Project on a publicly available list of entities on the WaterSMART Title XVI Program website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Del Puerto Water District

**Project Sponsor:** Del Puerto Water District

**Location:** Patterson, California

**Project:** North Valley Regional Recycled Water Program

**Total Estimated Project Cost:** \$96,000,000

**Date Completed:** June 12, 2017

**Short Project Description:** Del Puerto Water District is located along the west side of the San Joaquin Valley and extends from Vernalis to Santa Nella, California. The District provides agricultural irrigation water to approximately 45,000 acres of productive farmland in Stanislaus, San Joaquin, and Merced Counties. The District is located in close proximity to the City of Modesto's and the City of Turlock's wastewater treatment facilities. Both Modesto and Turlock have recycled water available that could be delivered to the District and its customers. The proposed project alternatives include two recycled water production rates of 30,600 AFY (27 MGD) available at the onset of the project and 59,000 AFY (53 MGD) available at buildout. This project will supply recycled water from Modesto and Turlock and provide a long-term, reliable water supply for the District and its customers that will augment the currently used Central Valley Project supply.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Del Puerto Water District North Valley Regional Recycled Water Program on a publicly available list of entities on the WaterSMART Title XVI Program website who have completed a feasibility study that has been determined by Reclamation to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Delta Diablo

**Project Sponsor:** Delta Diablo

**Location:** Antioch, California

**Project:** Recycled Water Master Plan Project

**Total Estimated Project Cost:** \$84,300,000

**Date Completed:** March 4, 2014

### **Short Project Description:**

The study objective was to evaluate alternatives for expanding and optimizing the Delta Diablo recycled water system. This study evaluated identified two overarching projects, which included the Recycled Water System Expansion Project and the High Purity Water Treatment Facility. The proposed program will consist of two distinct projects that will be implemented separately. The projects include an expanded tertiary treatment process at the Recycled Water System Expansion Project, an expanded distribution system and pump station for additional distribution, and the High Purity Water Treatment Facility which will have a capacity of 5 MGD.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Delta Diablo, Recycled Water Master Plan Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.



## Dublin San Ramon Services District

**Project Sponsor:** Dublin San Ramon Services District

**Location:** Dublin, California

**Project:** Dublin Recycled Water Expansion Project

**Total Estimated Project Cost:** \$22,700,000

**Date Completed:** March 12, 2015

**Short Project Description:** The objective of the study was to evaluate alternatives to increase capacity of recycled water production facilities that provide a regional recycled water supply for the cities of Dublin, San Ramon, and Pleasanton. The proposed project includes installation of a distribution pipeline and a tertiary treatment plant expansion. Approximately 5 miles of pipeline will be installed in the City of Dublin, California to extend the District's existing recycled water distribution system to deliver 456 AFY of recycled water to customers in western and central Dublin for landscape irrigation. The tertiary treatment expansion will increase capacity from 9.7 MGD to 16.5 MGD, providing an additional 6.8 MGD of capacity to serve planned future development within the service area and to provide recycled water to the City of Pleasanton for its new recycled water program.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Dublin San Ramon Services District, Dublin Recycled Water Expansion Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Eastern Municipal Water District

**Project Sponsor:** Eastern Municipal Water District

**Location:** Perris, California

**Project:** Indirect Potable Reuse Project

**Total Estimated Project Cost:** \$319,200,000

**Date Completed:** April 10, 2017

**Short Project Description:** This objective of this study was to evaluate water supply alternatives for the Eastern Municipal Water District. The proposed project is an indirect potable reuse project. Indirect potable reuse was identified as a critical component of Eastern Municipal Water District's water supply plan to fully utilize recycled water within its service area (zero discharge of recycled water), maximize potable water offset, create new local water potable water supplies, minimize cost, and manage groundwater basin salt balance. The project will recharge groundwater with about 20,000 AFY of advanced treated wastewater and about 6,000 AFY of additional recycled water for landscape irrigation.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Eastern Municipal Water District, Indirect Potable Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## El Paso Water Utilities Board

**Project Sponsor:** El Paso Water Utilities Board

**Location:** El Paso, Texas

**Project:** Advanced Water Purification Facility

**Total Estimated Project Cost:** \$118,593,000

**Date Completed:** September 28, 2015

**Short Project Description:** The purpose of this feasibility study was to document an analysis of alternatives for increasing and diversifying the inventory of reliable water sources that can serve the community during periods of drought, including a repeat of the drought-of-record. The proposed project is to construct and utilize an Advanced Water Purification Facility for the treatment of wastewater for potable use, along with excess surface water, all to increase the available potable water supply by approximately 1,000 acre feet per year. This volume of additional annual water supply equates to approximately 9% of the average annual public water demand. The project will reduce the need for an equivalent amount of raw water supply from the Bureau of Reclamation Rio Grande Project and the Hueco and Mesilla Bolsons.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the El Paso Water Utilities Board, Advanced Water Purification Facility on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Ironhouse Sanitary District

**Project Sponsor:** Ironhouse Sanitary District

**Location:** Contra Costa County, California

**Project:** Ironhouse Sanitary District Recycled Water Project

**Total Estimated Project Cost:** \$29,814,000

**Date Completed:** September 28, 2015

**Short Project Description:** The primary purpose of this feasibility study was to refine alternatives developed in the Recycled Water Master Plan to determine the most feasible alternatives to serve irrigation needs at parks, schools, medians, vineyards, and future industrial needs within the Ironhouse Sanitary District service area. The recommended program combines immediate, near-term, and long-term projects. The recommended immediate-term projects include the construction of a fill station to expand the portfolio of beneficial reuse and supporting higher-value farming to generate greater revenue on a portion of the farmed lands which currently produce hay. Recommended near-term projects include continuing provide recycled water for industrial reuse along the Wilbur corridor and expanding industrial reuse to the Northern Waterfront area. The recommended long-term project is full advanced treatment to be serve water directly to potable customers. The long-term Contra Costa Water District Supply Project was selected because it will provide a new, drought proof water supply to the region.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Ironhouse Sanitary District Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Kern-Tulare Water District

**Project Sponsor:** Kern-Tulare Water District

**Location:** Bakersfield, California

**Project:** Oil Field Water Reuse Project

**Total Estimated Project Cost:** \$14,000,000

**Date Completed:** October 13, 2016

**Short Project Description:** In this study the Kern-Tulare Water District partnered with local ranchers, farmers, and oil producers to manage produced water for delivery within the study area. The region is experience severe water shortages and groundwater overdraft, while oil producers are facing increasing regulation for produced water disposal. In the proposed project, the Kern-Tulare Water District is initially partnering with Hathaway LCC a local oil producer and Jasmin Ranchos Mutual Water Company to manage up to 2,640 AFY of produced water for delivery to existing irrigated agriculture within the Kern-Tulare Water District.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Kern-Tulare Water District, Oil Field Water Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Laguna Madre Water District

**Project Sponsor:** Laguna Madre Water District

**Location:** Port Isabel, Texas

**Project:** Port Isabel Wastewater Treatment Facility Water Reclamation and Reuse Facility Master Plan Project

**Total Estimated Project Cost:** \$6,858,000

**Date Completed:** January 6, 2016

**Short Project Description:** The main objective of this study is to determine the highest and best use of the reclaimed water available from the Port Isabel Wastewater Treatment Facility. The proposed project is a potable reuse alternative that consists of using treated effluent from Port Isabel Wastewater Treatment Facility, purifying it with an advanced treatment process, and augmenting the raw water in a local reservoir with purified water. The advanced treatment process will be implemented through a Water Reclamation and Reuse Facility to produce water suitable for surface water augmentation.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Laguna Madre Water District, Port Isabel Wastewater Treatment Facility Water Reclamation and Reuse Facility Master Plan Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** Phase 1 of the proposed Port Isabel Wastewater Treatment Facility is currently under construction. The Water Reclamation and Reuse Facility has not yet started.

## Magna Water Company

**Project Sponsor:** Magna Water Company

**Location:** Provo, Utah

**Project:** Magna Water Company Water Reclamation and Reuse Project

**Total Estimated Project Cost:** \$51,000,000

**Date Completed:** July 13, 2009

**Short Project Description:** The Magna Water Company feasibility study was completed to evaluate water supply alternatives for the Provo area. The report identified a project that will recover wastewater currently discharged to the Great Salt Lake and treat it to reuse standards for use in the District's secondary water system. The overall benefits of the project include replacing culinary water with reuse water for irrigation, reducing dependence on unreliable surface water sources, preserving an 8 cubic foot per second water right at the wastewater outfall, and promoting water conservation.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Magna Water Company Water Reclamation and Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Marina Coast Water District

**Project Sponsor:** Marina Coast Water District  
**Location:** Marina, California  
**Project:** Regional Urban Water Augmentation Project  
**Total Estimated Project Cost:** \$31,530,000  
**Date Completed:** May 4, 2010

**Short Project Description:** Coastal Northern Monterey County is facing water supply challenges including problems with seawater intrusion and excessive surface water diversions. This study identified a Regional Urban Water Augmentation Project to provide recycled water to the area. The project was developed by Marina Coast Water District working jointly with the Monterey Regional Water Pollution Control Agency. This project will deliver 3,000 AFY of tertiary treated disinfected recycled water from the Monterey Regional Water Pollution Control Agency Salinas Valley Reclamation Plant to urban users in the Marina Coast Water District service area and the former Fort Ord. The Regional Urban Water Augmentation Project is a key component in developing necessary supplemental water supply to meet demands.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Marina Coast Water District, Regional Urban Water Augmentation Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.



## Monterey Regional Water Pollution Control Agency

**Project Sponsor:** Monterey Regional Water Pollution Control Agency

**Location:** Monterey, California

**Project:** Pure Water Monterey Groundwater Replenishment Project

**Total Estimated Project Cost:** \$113,082,900

**Date Completed:** April 13, 2016

**Short Project Description:** The purpose of the feasibility study was to identify a project to provide replacement water to the adjudicated Seaside Groundwater Basin for future extraction in order to reduce diversions from the Carmel River system, mandated by the State; and to provide agricultural irrigation with additional recycled water in Monterey County which will assist in combatting local seawater intrusion. The recommended Pure Water Monterey Groundwater Replenishment Project was selected based on its ability to meet program objectives, cost effectiveness, and its contribution to meeting both the immediate and long-term water supply demands of the Monterey region. The Advanced Water Treatment Plant will treat secondary effluent from the Monterey Regional Water Pollution Control Agency Regional Treatment Plant in combination with municipal urban runoff, stormwater and agricultural wash water. The project also includes collection and conveyance facilities.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Monterey Regional Water Pollution Control Agency, Pure Water Monterey Groundwater Replenishment Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## North Bay Water Reuse Authority

**Project Sponsor:** North Bay Water Reuse Authority

**Location:** Marin, Sonoma and Napa Counties, California

**Project:** North Bay Water Reuse Program Phase 2

**Total Estimated Project Cost:** \$75,600,000

**Date Completed:** July 3, 2017

**Short Project Description:** The North Bay Water Reuse Authority is comprised of eleven public agencies in the portions of California's Marin, Sonoma and Napa counties that drain into San Pablo Bay the northern part of the greater San Francisco Bay. The member agencies are working together as a region to develop, capture and beneficially use highly treated recycled water. Phase 1 of the North Bay Water Reuse Program will be completed in 2018. Phase 2 of the Program builds upon the Phase 1 technology and infrastructure investments to further develop recycled water as part of the region's water supply portfolio. The Phase 2 Program is made up of a suite of sixteen projects. These projects will capture a substantial increment of the available recycled water and deliver an additional yield of 5,039 AFY (4.5 MGD) through expanded treatment, new pipelines and storage projects each contributing toward building resiliency into the region's long-term water supply.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Monterey Regional Water Pollution Control Agency, Pure Water Monterey Groundwater Replenishment Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## North San Diego County Water Reuse Coalition

**Project Sponsor:** North San Diego County Water Reuse Coalition

**Location:** Encinitas, California

**Project:** Regional Recycled Water Program 2020 Project

**Total Estimated Project Cost:** \$88,178,000

**Date Completed:** May 8, 2017

**Short Project Description:** This feasibility study was prepared by a coalition of ten northern San Diego County water and wastewater agencies to evaluate the use of recycled water to provide a reliable, drought-proof approach for augmenting local and imported supplies. The proposed project includes replacing potable water uses with recycled water components, converting facilities to recycled water service, connecting discrete recycled water systems to one another, increasing recycled water storage capacity, and distributing recycled water to effectively meet recycled water demands. The proposed project includes three subregions. Subregion 1 includes project components involving systems owned/operated by the City of Carlsbad, City of Oceanside, and Vallecitos Water District. Subregion 2 includes project components involving systems owned/operated by the City of Escondido and Rincon del Diablo Municipal Water District. Subregion 3 includes project components involving systems owned/operated by Olivenhain Municipal Water District, San Elijo Joint Powers Authority, Santa Fe Irrigation District and Leucadia Wastewater District.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the North San Diego County Water Reuse Coalition, Regional Recycled Water Program 2020 Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Orange County Sanitation District

**Project Sponsor:** Orange County Sanitation District

**Location:** Fountain Valley, California

**Project:** Project No. SP-173, Effluent Reuse Project

**Total Estimated Project Cost:** \$138,400,000

**Date Completed:** March 1, 2017

**Short Project Description:** The Orange County Sanitation District prepared the Effluent Reuse Study to provide a comprehensive assessment of the feasibility of recycling treated wastewater from Orange County Sanitation District Plant No. 2 and the conveyance system requirements to support the Groundwater Replenishment System Final Expansion. This study evaluated future water recycling opportunities to achieve Orange County Sanitation District's vision of recycling 100% of the reclaimable flow. The recommended project includes four components, which include three modifications at Plant No. 2 (headworks split, flow equalization tank, and effluent pump station) and the effluent pipeline upgrade to convey the treated wastewater from Plant No. 2 to Plant No. 1 for the Groundwater Replenishment System Final Expansion.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Orange County Sanitation District, Project No. SP-173 Effluent Reuse Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Palmdale Water District

**Project Sponsor:** Palmdale Water District

**Location:** Palmdale, California

**Project:** Palmdale Regional Groundwater Recharge and Recovery Project

**Total Estimated Project Cost:** \$103,730,000

**Date Completed:** May 8, 2017

**Short Project Description:** The objective of this feasibility study was to evaluate a groundwater banking program with surface recharge of imported water and recycled water, as well as recovery facilities to help meet future water demands and improve water supply reliability for the Palmdale Water District. The Palmdale Regional Groundwater Recharge and Recovery Project will deliver water from the Palmdale Water Reclamation Plant, blend it with State Water Project entitlements, and recharge it into the Antelope Valley groundwater aquifer through recharge basins. The project will be developed in three Phases. Phase 1a will include construction of conveyance pipelines, four recovery wells and a well collection pipeline that connects to the potable water distribution system. Phase 1b will expand facilities and includes construction of a third recharge basin, up to four additional recovery wells, a water storage tank, and a potable water pump station. Phase 2 will build-out all remaining facilities including the fourth recharge basin, up to eight additional recovery wells, and a potential return water pump station. The total recharge capacity of the project is estimated to be approximately 52,000 AFY.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Palmdale Regional Groundwater Recharge and Recovery Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Rancho Murieta Community Services District

**Project Sponsor:** Rancho Murieta Community Services District

**Location:** Rancho Murieta, California

**Project:** Recycled Water Project

**Total Estimated Project Cost:** \$22,780,000

**Date Completed:** February 5, 2015

**Short Project Description:** The purpose of this study was to determine which future residential developments were the most cost-effective for recycled water service and determine whether expansion of the existing recycled water program is cost-effective. The proposed project is the expansion of the existing recycled water program to serve select future residential developments, such as Murieta Gardens, Retreats, Residences of Murieta Hills, Esquela, Terrace, Highlands, and River Canyon, and existing parks and commercial landscaping. Service to these residential developments would be provided by expanding the existing North Golf Course Conveyance System through the addition of recycled water transmission mains and service pipelines, storage tanks, and booster pumping stations. Improvements under the recommended project are phased to correspond to development.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Rancho Murieta Community Services District, Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Redwood City

**Project Sponsor:** Redwood City

**Location:** Redwood City, California

**Project:** Central Redwood City Recycled Water Expansion Project

**Total Estimated Project Cost:** \$8,500,000

**Date Completed:** January 6, 2016

**Short Project Description:** The objective of this study was to evaluate alternatives for Redwood City to extend its existing recycled water distribution system to serve Central Redwood City. The proposed Central Redwood City Recycled Water Project aims to increase the City's locally controlled water supply, improve the City's water supply reliability, and reduce its demand on imported water. The proposed project consists of three project components that will expand the existing recycled water system to serve primarily planned new development and some existing irrigation sites. The project will extend the existing recycled water distribution system from the Bayfront area of Redwood City into Central Redwood City. The project includes the construction of 2.5 miles of pipelines and will deliver 274 AFY of recycled water offsetting the region's imported water demand.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Redwood City, Central Redwood City Recycled Water Expansion Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Sacramento Regional County Sanitation District

**Project Sponsor:** Sacramento Regional County Sanitation District

**Location:** Sacramento, California

**Project:** Recycled Water Project

**Total Estimated Project Cost:** \$39,600,000

**Date Completed:** April 3, 2015

**Short Project Description:** As the Sacramento region continues to grow, water demands within the region continues to increase. Increasing recycled water use will improve the supply portfolio, and better equip the region to address future water demands and the water needs of the Delta and its ecosystem. The object of this study was to evaluate alternatives to maximize water served while minimizing total construction costs, provide recycled water to customers to offset existing potable water usage, and reduce groundwater pumping of any potential customers in the service areas. The recommended project includes storage tanks, distribution systems and a pump station to deliver recycled water to the study areas. The project expands region's water supply portfolio by 2,723 AFY, helps improve overall reliability for recycled water customers, and potentially improves groundwater basin conditions.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Sacramento Regional County Sanitation District, Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.



## Sacramento Regional County Sanitation District

**Project Sponsor:** Sacramento Regional County Sanitation District

**Location:** Sacramento, California

**Project:** South Sacramento County Agriculture and Habitat Lands Recycled Water Project

**Total Estimated Project Cost:** \$178,500,000

**Date Completed:** January 6, 2016

**Short Project Description:** The Sacramento Regional County Sanitation District evaluated the feasibility of replacing surface and groundwater with recycled water to irrigate agriculture, habitat, and conservation lands. The purpose of this study was to explore the feasibility of alternatives to implement a South Sacramento County Agriculture and Habitat Lands Recycled Water Program. The recommended program provides a total quantity of 34,137 AFY of recycled water, reduces groundwater pumping by supplying recycled water to agricultural customers in south Sacramento County, minimizes conveyance costs while maximizing demand to be served, and, where cost effective, provides recycled water service to wetlands.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Sacramento Regional County Sanitation District, South Sacramento County Agriculture and Habitat Lands Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## San Antonio Water System

**Project Sponsor:** San Antonio Water System

**Location:** San Antonio, Texas

**Project:** Brackish Groundwater Desalination Program

**Total Estimated Project Cost:** \$247,815,000

**Date Completed:** June 20, 2011

**Short Project Description:** The objective of this study was to evaluate alternative water supply options for the San Antonio Water System service population with a focus on long-term water supply opportunities. The recommended alternative is the Brackish Groundwater Desalination Program. The program will be implemented in three phases. Phase 1 includes constructing a brackish groundwater desalination treatment plant, production well field, injection well field, and pipeline conveyance system. Phases 2 and 3 include expanding the brackish groundwater desalination treatment plant, adding additional production and injections wells, and extending the pipeline conveyance system. Upon completion the project will produce approximately 26,000 AFY of water supply. The San Antonio Water System brackish groundwater desalination program is included as a recommended water supply project for Region L in the 2017 Texas State Water Plan.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the San Antonio Water System, Brackish Groundwater Desalination Program on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

**Note:** Phase 1 of the program has been completed and operation began in November 2016. San Antonio Water System has plans to construct Phases 2 and 3.

## Upper San Gabriel Valley Municipal Water District

**Project Sponsor:** Upper San Gabriel Valley Municipal Water District

**Location:** Monrovia, California

**Project:** Indirect Reuse Replenishment Project

**Total Estimated Project Cost:** \$55,070,000

**Date Completed:** March 17, 2015

**Short Project Description:** The objective of this study was to investigate solutions to reverse diminishing groundwater supplies in the Main San Gabriel Basin. The recommended project uses tertiary treated recycled water from the San Jose Creek Water Reclamation Plant for development into the Indirect Reuse Replenishment Project. The ultimate goal of the project is to develop a local, alternative source of replenishment water for groundwater recharge within the Main San Gabriel Basin, supplying up to 10,000 AFY of recycled water to offset purchased imported water supplies.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Upper San Gabriel Valley Municipal Water District, Indirect Reuse Replenishment Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## Water Replenishment District of Southern California

**Project Sponsor:** Water Replenishment District of Southern California

**Location:** Lakewood, California

**Project:** Groundwater Reliability Improvement Program Recycled Water Project

**Total Estimated Project Cost:** \$150,654,000

**Date Completed:** January 30, 2013

**Short Project Description:** The Water Replenishment District of Southern California conducted this feasibility study to evaluate alternatives to reduce the use of imported water supplies to replenish the Central Coast Groundwater Basin. The recommended Groundwater Reliability Improvement Program Recycled Water Project is proposed to be constructed in two phases. The recommended project includes new facilities for the Groundwater Reliability Improvement Program Advanced Water Treatment Facility, flow equalization and pumping facility, supplemental recharge wells and groundwater monitoring wells. In Phase 1, the Advanced Water Treatment Facility will be designed to produce up to 13,000 AFY of fully advanced treated recycled water. In Phase 2 the project includes provisions to expand to an ultimate capacity of 26,000 AFY.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the Water Replenishment District of Southern California, Groundwater Reliability Improvement Program Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.

## West Bay Sanitary District

**Project Sponsor:** West Bay Sanitary District

**Location:** Menlo Park, California

**Project:** West Bay Sanitary District Recycled Water Project

**Total Estimated Project Cost:** \$17,126,000

**Date Completed:** March 21, 2017

**Short Project Description:** The primary objective of this feasibility study is to evaluate alternatives to implement a recycled water project in West Bay Sanitary District's service area to utilize its wastewater resource now and into the future. The proposed recycled water project involves the construction of a satellite treatment facility, a wastewater pump station and forcemain to divert flow to the treatment facility, a solids discharge pipeline to convey waste sludge to an existing West Bay Sanitary District sewer, and distribution facilities to bring recycled water to customers. The proposed project would deliver an estimated minimum of 152 AFY of recycled water to the Sharon Heights Golf and Country Club with an additional 84 AFY to the Stanford Linear Accelerator.

**Feasibility Study Review Finding:** The feasibility study report meets the requirements of a feasibility study as defined under section 1604 of Pub. L. 102-575, as amended. The feasibility study, and the process under which the study was developed, each comply with Federal laws and regulations applicable to feasibility studies of desalination and water recycling projects. The project is technically and financially feasible and provides a Federal benefit in accordance with the reclamation laws.

### **Funding Conditions:**

- Reclamation will include the West Bay Sanitary District Recycled Water Project on a publicly available list of entities on the Bureau of Reclamation website who have completed a feasibility study that has been determined to meet program requirements.
- The project sponsor is eligible to apply for funding through an annual competitive funding opportunity announcement, but the total Federal funding received towards the planning, design, and construction of this project may not exceed 25 percent of the total cost of the project or \$20 million, whichever is less.
- Planning, design, and construction activities completed prior to the transmission of this list of eligible projects or outside of the scope of the project described in the completed feasibility study are not eligible for funding.
- 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.).
- Prior to receiving Federal funding the project sponsor must demonstrate that it is financially capable of funding the non-Federal portion of project construction costs and all necessary project operation, maintenance, and replacement costs, pursuant to Bureau of Reclamation Manual Directives and Standards WTR-11-02.