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

September 2018

Prepared for

United States Congress

Prepared by

U.S. Department of the Interior
Bureau of Reclamation

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.

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Eligible Projects

This periodic 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, completed, and not previously transmitted to Congress 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. The following list of completed feasibility studies is provided:

- City of Palo Alto (California), Advanced Water Purification System
- City of Pismo Beach (California), Central Coast Blue
- City of Wichita (Kansas), Aquifer Storage and Recovery Phase III Improvements
- Inland Empire Utilities Agency (California), Joint IEUA-City of Pomona-Monte Vista Water District Recycled Water Interconnections Project
- Inland Empire Utilities Agency (California), Joint IEUA-Jurupa Community Services District Recycled Water Intertie Project
- Soquel Creek Water District (California), Regional Recycled Water Project

This list of projects eligible to compete for funding will be added to the list transmitted previously and 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.

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

City of Palo Alto

Project Sponsor: City of Palo Alto
Location: Palo Alto, California
Project: Advanced Water Purification System
Total Estimated Project Cost: $29,900,000
Review Completed: June 18, 2018

Project Description: The City of Palo Alto, in partnership with Mountain View and Santa Clara Valley Water District, considered the feasibility of constructing an advanced water purification system. The purification system will operate at the City's wastewater treatment plant to produce enhanced recycled water, which will be delivered to customers in Mountain View and Palo Alto. The project will result in improved recycled water quality with reduced levels of total dissolved solids, which will encourage increased recycled water use and attract new recycled water users.

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 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 Palo Alto's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.
- 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 Reclamation Manual Directives and Standards WTR-11-02.

Note: The City of Palo Alto is contemplating both local and regional scale projects. At this time only the information related to the local project has been found to meet requirements. The City of Palo Alto will need to submit more information regarding the regional project before it can be found to meet requirements.

City of Pismo Beach

Project Sponsor: City of Pismo Beach
Location: Pismo Beach, California
Project: Central Coast Blue
Total Estimated Project Cost: $66,500,000
Review Completed: July 26, 2018

Project Description: This study investigated the economic feasibility and best technical approach for the City of Pismo Beach to develop a regional recycled water project. The proposed project will recover water currently discharged into the ocean and protect against seawater intrusion by injecting up to 3,530 acre-feet per year of recycled water into the Santa Maria Groundwater Basin. The project will include construction of an advanced treatment facility that utilizes a full advanced treatment process train consisting of microfiltration/ultrafiltration, reverse osmosis, and ultraviolet advanced oxidation process to treat the water to the required level of quality for groundwater injection.

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 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 Pismo Beach's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.

- 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 Reclamation Manual Directives and Standards WTR-11-02.

City of Wichita

Project Sponsor: City of Wichita
Location: Wichita, Kansas
Project: Aquifer Storage and Recovery Phase III Improvements
Total Estimated Project Cost: $48,500,000
Review Completed: July 13, 2018

Project Description: The City of Wichita (City) evaluated the feasibility of its Aquifer Storage and Recovery (ASR) program Phase III, which provides enhancements to the City's existing ASR facilities. Enhancements include: improved capability to capture source water from the Little Arkansas River via construction of bank storage wells, and increased capacity for recharge and future recovery of captured water via construction of recharge basins and recharge recovery wells. The ASR project contributes to restoring water levels in the Equus Beds Aquifer and providing a supplemental source of supply for the City.

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 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 Wichita's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.
- 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 Reclamation Manual Directives and Standards WTR-11-02.

Inland Empire Utilities Agency

Project Sponsor: Inland Empire Utilities Agency
Location: Chino, California
Project: Joint IEUA-City of Pomona-Monte Vista Water District Recycled Water Interconnections Project
Total Estimated Project Cost: $77,600,000
Review Completed: July 24, 2018

Project Description: The purpose of this feasibility study was to evaluate options for a joint regional project between the Inland Empire Utilities Agency (IEUA), City of Pomona (Pomona), and Monte Vista Water District (MVWD). Under the recommended alternative, the City of Pomona will provide recycled water and groundwater supplies, and the project will expand existing Pomona, MVWD and IEUA infrastructure to recharge advance treated recycled water into the Chino Basin. The project will address subsidence concerns and secure a drought-resilient water supply by increasing groundwater storage and reliability within the basin.

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 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 Inland Empire Utilities Agency's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.

- 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 Reclamation Manual Directives and Standards WTR-11-02.

Inland Empire Utilities Agency

Project Sponsor: Inland Empire Utilities Agency
Location: Chino, California
Project: Joint IEUA-Jurupa Community Services District Recycled Water Intertie Project
Total Estimated Project Cost: $52,460,000
Review Completed: May 17, 2018

Project Description: Inland Empire Utilities Agency and Jurupa Community Services District evaluated collaborative approaches to maximize water reuse and strengthen local water supplies. The proposed regional recycled water storage and distribution system is expected to initially yield approximately 3,000 acre-fee per year (AFY) of water supply and increase to 4,800 AFY after the initial years. The project will include a pump station, landscape irrigation systems, and interagency connections to support the increasing need for a reliable and resilient local 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 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 Inland Empire Utilities Agency's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.

- 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 Reclamation Manual Directives and Standards WTR-11-02.

Soquel Creek Water District

Project Sponsor: Soquel Creek Water District
Location: Soquel, California
Project: Regional Recycled Water Project
Total Estimated Project Cost: $66,700,000 - $70,200,000
Review Completed: May 9, 2018

Project Description: Soquel Creek Water District provides potable drinking water and groundwater resource management to mid-Santa Cruz County. The district considered the feasibility of developing an indirect potable reuse project. The proposed groundwater replenishment project will treat and recharge 1,500 acre-feet of water annually through the construction of an advanced water purification facility to treat wastewater, conveyance facilities, and recharge wells. The project will replenish an overdrafted groundwater basin and protect it against the immediate threat of seawater intrusion.

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 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 Soquel Creek Water District's project on a publicly available list of projects that have a completed feasibility study that has been determined to meet program requirements. The list will be available on the Reclamation website.
- 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 Reclamation Manual Directives and Standards WTR-11-02.