



Town Council Agenda Report

Date: May 28, 2019 Item No. 4

To: Honorable Mayor and Town Council

Subject: APPLE VALLEY DESERT WATER REUSE PROJECT

From: Douglas Robertson, Town Manager

Submitted by: Brad Miller, Town Engineer
Engineering Department

Budgeted Item: Yes No N/A

RECOMMENDED ACTION

- A. That Town Council review and approve the bid documents for Apple Valley Desert Water Reuse – Project 2019-01.
- B. That Town Council authorize staff to solicit bids for construction of said project.

BACKGROUND

In an effort to accomplish tasks defined within the Apple Valley Parks and Recreation Master Plan dated May 2013, the Town proposes to utilize recycled water for irrigation to help with water conservation. The Apple Valley Desert Water Reuse Project involves existing and proposed recycled water transmission mains and the retrofitting of existing irrigation facilities for recycled water use of four sites within the boundaries of the Town of Apple Valley which serve as vital green sites. The proposed sites to receive recycled water through the project pipelines include the Apple Valley Golf Course, Lenny Brewster Park, Civic Center Park, and Thunderbird Park.

Each site is intended to have both domestic and recycled water supplies to separately support potable and irrigation water needs, respectively. Additionally, each recycled water system will be equipped with facilities to allow for supplemental back-up with potable water in the scenario in which recycled water is temporarily unavailable or inadequate.

Plans, Specifications and Engineer's Estimate have been prepared with the goal to construct infrastructure to deliver recycled water to these specific green areas for beneficial use as a new irrigation water resource. The Victor Valley Wastewater

Reclamation Authority's Apple Valley Subregional Water Recycling Facility has been completed and will be the source of the recycled water. Portions of the recycled water transmission main system have already been installed throughout the area, effectively connecting a majority of the sites with the Apple Valley Subregional. The work to be completed includes the pipelines to connect Civic Center and Thunderbird parks to the transmission main, Brewster Park to Apple Valley Subregional, and retrofitting the existing irrigation systems. The project also includes a water storage tank at Brewster Park and one booster pump station to supply water of sufficient pressure to operate the on-site irrigation system. A second water storage tank and booster pump station are proposed at Civic Center Park. This tank will supply recycled water to both Civic Center and Thunderbird Parks and is sized to store a volume equal to one day of peak summer irrigation demand.

ANALYSIS

Bid documents for the Apple Valley Desert Water Reuse - Project 2019-01 have been prepared and are ready for approval and advertisement. Staff has reviewed the documents and is satisfied that they meet the intent of the Town Council for this project. The documents are available to the Town Council for review, approval, and authorization to proceed with advertisement of the project. Staff recommends that Town Council review bid documents, approve them and direct staff to proceed with advertising for construction of the project.

FISCAL IMPACT

Funding for this project has been appropriated in the proposed FY 2019-2020 budget with an anticipated award date of July 9, 2019. There is no immediate fiscal impact with approval of the bid documents and authorization to advertise for bids.

ATTACHMENTS

- A. Project location aerial view.

Attachment A

Project location aerial view

