

**Final Project Completion Report**

**Project Name and Number:** JWTP Filter Washwater Pre-Design Upgrade, #4072

**Description:** As summer peak production at the JWTP has increased in recent years, carry-over of solids from the JWTP wash-water management system have been an increasing problem. The objective of this project was to complete a pre-design study to identify ways to optimize the handling of solids from filter backwash water and settled water.

**District Project Manager:** David McLean, PE

<b>Engineer:</b>	<b>Carollo Engineers</b>	<b>Design Status: 100%</b>
Original Engineering Contract Amount:		\$44,557
Final Engineering Contract Amount:		\$44,557
	Contract Date:	November 14, 2017
	Final Completion	July 25, 2018

**Primary Recommendations from study:**

1. Re-commission the filter washwater equalization basin to accepted filter backwash water.
2. "Scalp" initial high-solids washwater from the filters to the recommissioned equalization basin.
3. Install new sludge pumps in the existing reclaim pump station and deliver solids to the existing JWTP Sludge Basins.
4. Increase the capacity of the decant line from the sludge ponds to the head of the plant.
5. Provide concrete liner for the washwater lagoons for improved lagoon cleaning.
6. Estimated Project Cost: \$2,430,000.