

Final Project Completion Report

Project Name and Number: JWTP Plant Reclaim Water and Solids Handling Improvements, #4072

Description: The treatment process at the Jordan Valley Water Treatment Plant removes solid material from the raw water through filtration. Filter backwash water is settled to concentrate the solids. Reclaimed water is circulated back to the beginning of the treatment process. This project upgrades the backwash solid handling system routing “first water” via a “scalping” vault for storage in the sludge lagoons. The project also adds concrete liners to the backwash basins.

District Project Manager: David McLean, PE

Engineer: Carollo Engineers	Design Status: 100%
Original Engineering Contract Amount:	\$503,533
Final Engineering Contract Amount:	\$575,355

Contractor: Nelson Brothers Construction	Construction Status: 100%
Original construction contract amount:	\$2,864,643
Total Change Order amount:	\$277,246
Final construction contract amount:	\$3,141,889
Total change orders as a percentage of original contract:	9.7%
Completion Schedule:	
Notice to Proceed:	10/20/2020
Final Completion:	6/1/2022

Summary of Change Orders:		Amount
Description		
1 Repair east reclaim pump and other items.		\$22,733
2 Additional sludge removal (west basin)		\$48,046
3 Electrical conduits, pipe excavation, pump repair.		\$47,727
4 Piping modifications and additional fill material.		\$35,096
5 Additional sludge removal (east basin)		\$33,618
6 Additional concrete in basins.		\$30,530
7 Adjust asphalt quantities		\$42,048
8 Flowable fill, manhole, and concrete.		\$24,436
9 Asphalt credit and other minor items.		-\$6,988
	Total Change Order Amount:	\$277,246

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Cleaning of un-lined backwash basins.



Lining of east backwash basin.



Installing new sludge piping.



"Scalping" vault placement



Successful start-up of new process.



Construction overview