

Final Project Completion Report

Project Name and Number: JWTP Chlorine Dioxide Project (3485)

Description: Design and installation of a new primary disinfection system at the Jordan Valley Water Treatment Plant. The new system will reduce disinfection byproduct production within the plant itself and also within the Distribution system. The project was necessitated by the new Long-Term II Surface Water Treatment Rule recently promulgated by the EPA.

Engineer: Carollo Engineers	Design Status: 100%
Original Engineering Contract Amount:	\$748,870
Total engineering amendments amount:	\$101,209
1) Existing Chlorine scrubber demolition and replacement	\$42,401
2) Integrate fire alarms, add instrumentation, add modifications in IOB to improve total plant effluent flow measurements	\$58,808
Final Engineering Contract Amount:	\$850,079
Total engineering amendments as a percentage of original contract:	13.5%

Contractor: Nelson Brothers Construction Company	Construction Status: 100%
Original construction contract amount:	\$2,353,340
Total Change Order amount:	\$156,936
Current construction contract amount:	\$2,510,276
Total change orders as a percentage of original contract:	6.7%

Summary of Change Orders:	
Description	Amount
1 Additional jack and bore to JWTP 1st floor	\$18,573
2 Curb and pavement repairs outside of project limits	\$17,207
3 Removal of underground conflicts and flowable fill, upgrades to pull boxes	\$22,547
4 Asphalt replacement adjacent to new CLO2 building	\$30,275
5 Rerouting of natural gas line to meet current building codes	\$23,404
6 Scrubber duct modifications, injector material upgrades	\$22,117
7 Piping, valve and electrical upgrades. Addition of vapor recovery system	\$22,813

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Pre-construction photo of old alum transfer



Replacement chlorine scrubber unit



2,500 pound per day CL02 generator



CL02 solution distribution



Replacement gate in flocculation basin



Replacement chlorine scrubber and parking improvements



Finished Chlorine Dioxide Feed Building