



PROJECT STATUS UPDATE

Client: City of Long Beach
Project: Water Treatment Plant
Date: February 18, 2011
Project Manager: Dave Poulson
Project Engineer: Dan Naughton
PACE job No.: 08856.00

Status:

Work Completed Past Two Weeks:

- Continue electrical rough-in.
- Metal roof installation at WTP.
- Metal roof and siding installation on the auxiliary buildings.
- Continue Pall equipment installation.

Work Scheduled Next Two Weeks:

- Complete electrical rough-in.
- Radio telemetry installation and start-up between WTP and Dohman impound.
- Install clearwell and Dohman impound VTPs.
- Complete Pall equipment installation.
- Finalize preparations for system start-up.

Information Needed from City:

- Nothing at this time.

Schedule:

- System start-up is currently scheduled to begin 3/21.
- PACE staff has been on-site a minimum of 3 days per week over the past two weeks.
- Weekly construction meetings are held every Tuesday at 10 AM in the WTP office.
- The next monthly meeting is tentatively scheduled for March 8th at 10 AM in the WTP office.

Budget:

- The following items are being tracked and will be presented in Change Order #3.
 - The WTP overhead doors were raised while in the open position to provide additional clearance within the water treatment plant for forklifts and other equipment.
 - Electrical wiring requirements and revisions were necessary for various water quality monitoring instrumentation and for sample pumps which supply water to the various water quality monitoring instrumentation and to the lab sink for sampling and testing. Pall needs to revise their submittal drawings (Process & Instrumentation Diagram, Electrical Interconnection drawing, O&M Manual, etc.) plus additions to the Pall PLC code to control the sample pumps. PALL will need to provide controls programming for the operation of the sample pumps which feed water to the various water parameter monitoring instrumentation. In an effort to offset these electrical costs, 500 aluminum wire was installed in lieu of 350 copper wire for the electrical connection from the Water Treatment Plant to the Main impoundment. All wire installed by the PUD is aluminum and aluminum wire is a common and acceptable substitution for copper wire.
 - The Water Treatment Plant clearwell includes two clearwell access hatches. Although these clearwell hatches are watertight with a head pressure of up to 25 feet of water, it is advantageous to elevate them above the finished floor elevation to prevent the accumulation of water and/or chemicals over the hatch. Therefore, the hatches were raised 1.5 inches and at no cost to the project. However, one of the package microfiltration plant skids is located in close proximity to one of the clearwell hatches. Due to the raised clearwell hatch, the microfiltration plant skids needed to be raised to an elevation of 2 inches above the finished floor to provide a level mounting platform. The additional cost is to grout the 2 inch space between the finished floor and the microfiltration plant skid base plates. In the absence of the raised clearwell hatch, the microfiltration plant skids would have been anchored directly to the floor.
 - Two of the tankless water heaters require an extra neutral conductor and larger conduit. The conduit specified is inadequate to accommodate an additional neutral conductor.
 - In order to feed sodium hypochlorite to the Pall CHN skid within the time period Pall requires, the sodium hypochlorite feed line needs to be upsized from a ¾ inch to a 1 inch line. The additional sodium hypochlorite is required as it will be generated on-site which ultimately reduces the cost of sodium hypochlorite over the life of the project. On-site generated sodium hypochlorite is a weaker strength than that purchased in bulk so more is needed.

Milestones:

Date Delivered/Due Date	Milestone Description
March 21, 2011	System Start-up
April 12, 2011	Revised Substantial Completion Date per Change Order #1