

August  
2011

# WSAFCA The Rivers Project

Status Report, Start – thru 8/27/11

Construction Management by:

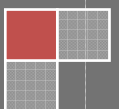
**M·H·M**

ENGINEERS & SURVEYORS SINCE 1892

Engineering by:  
HDR

Construction by:  
Raito Inc.

Prepared for:  
The City of West Sacramento



This report summarizes the levee construction activities on the Rivers Project from the beginning of construction through the week ending the 27th of August, 2011.

Construction began with the installation of a silt fence and perimeter controls. Also required because of the location of the project within a residential neighborhood, chain link fencing was installed completely around the project perimeter. During this initial work, a nesting bird was discovered in a tree at the west end of the project adjacent to the DWR yard. For the protection of the bird, a perimeter was established and monitoring was conducted on a daily basis. On the 18th of August ICF declared that the nest was a "success" and that all birds were no longer present. This allowed the perimeter to be taken down and access to the entire staging area was made available to the contractor. Additionally, due to the possible presence of an endangered bat species within the jobsite, it was required that all necessary tree removal along the levee be accomplished at dusk under ICF supervision.

Raito began drilling for soil samples through the levee crown while the environmental controls were being placed. The material removed from these drillings was used in the formulation of the mix design for the Soil Bentonite cutoff wall. Also still in progress is the sampling of the soil every hundred feet along the in situ mixed wall centerline in order to confirm the location and presence of the key material.

Upon completion of the initial environmental control installation Teichert began the stripping of the levee slopes and the staging area adjacent to the waterside of the levee along the length of the project minus the area mentioned above.

Beginning the 9th of August, Teichert started the degrade of the levee at the east end of the project. This part of the project only required a degrade of 1'-3' and was able to be accomplished with scrapers and dozers. On the 12th of August the degrade of the west, approximate two-thirds of the project requiring a degrade of more than 10' began. Teichert began at the east end heading west and the degrade was accomplished by loading haul trucks directly from an excavator and taken off site.



Simultaneous with the degrade of the levee, the inspection trench was cut. After the inspection trench was cut, it was moisture conditioned and compacted. Teichert deemed, at their own risk, they would use material from one of their offsite borrow locations for the backfill of the inspection trench. The material was mixed with a tractor and disc in the trench, moisture conditioned and compacted. This same material source was also used to widen a 700' section of levee approximately 18' waterward for the realignment of the levee to allow the inspection trench to be cut and to facilitate slurry wall work.



Raito began mobilizing equipment for the in situ mixed wall on the 4th of August with the main drill rig units arriving on the 6th of August. By the 11th of August the bulk of the drill rigs had been assembled and a crane arrived onsite to stand up the boom. Drilling of the in situ mixed wall began on the 22nd of August working 24 hours a day, six days a week on the 100' test section which is located from station 81+00 to 80+00. This section of the wall is at a depth of 133' from the working pad. On the 27th/28th of August the night crew completed the test section and drilled the first segment to the west of the test section.

