



# THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

1114 Yuba Street, Suite 218

Marysville, CA 95901

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August 28, 2011

Kent Zenobia, Chief  
Early Implementation Program  
Department of Water Resources  
3310 El Camino Ave., Room 180  
Sacramento, CA 95821-9000

Re: TRLIA 9<sup>th</sup> Upper Yuba River Levee EIP Quarterly Work Plan (QWP), Dated August 28, 2011 (Contract No. 4600008654)

Dear Mr. Zenobia:

Attached is the TRLIA 9<sup>th</sup> QWP (original and 2 copies) covering the time period October, November, and December 2011.

As part of this Quarterly Work Plan, TRLIA is adding Element 1A to the Overall Work Plan to cover the scope and cost of work associated with Landside Levee Improvements between Station 5+80 to 9+00 opposite the work associated with Element 1. There is sufficient funding within the current Funding Agreement to accomplish this work.

The U.S Army Corps of Engineers (USACE) performed a detailed inspection of the Reclamation District (RD) 784 Levee System in November-December 2010, which identified a significant issue along the landside of the Yuba River levee on the other side of levee where Project Element 1 work was performed. This scar appears to be approximately 320 feet long. Soil at this location is very sandy. In this reach there are also trees just off the toe of the levee which violate the USACE levee vegetation policy. At the tree line is a three foot tall vertical wall with a trailer park on the other side of the wall. USACE is concerned that the scar could jeopardize slope stability. To date, Three Rivers Levee Improvement Authority (TRLIA) levee improvement work in this reach of levee consists of installation of a cutoff wall through the center of the levee in 2004 as part of the TRLIA Phase 1 Program, and waterside slope flattening in 2009 as part of the TRLIA UYLIP EIP Project. It appears that the scar is due to erosion from foot traffic and rainfall below the contact point of the rebuilt levee on the old levee from the Phase 1 construction. Inspection of the scar identified a definite demarcation line where the rebuilt Phase 1 levee material sits on the old levee material. The old levee material is very fine sand, whereas the new rebuilt levee material has much more clay. Investigation of the scar shows it begins at the same elevation as the degrade elevation for the Phase 1 Cutoff wall work. Rainfall is running off the new levee material and then eroding the sandy material below it. The corrective solution is to rebuild the landside levee embankment slope and place a landside clay layer over the more sandy soil that comprises the levee foundation. This levee improvement work exceeds routine levee maintenance.

Please feel free to contact me, if you have questions or comments. My phone numbers are: 530 749-5679 (office), and 916-765-4981 (cell).

Sincerely,

A handwritten signature in blue ink that reads "Paul G. Brunner". The signature is fluid and cursive, with the first name "Paul" being the most prominent.

Paul G. Brunner, P.E.  
Executive Director

Attachment:

9<sup>th</sup> Quarterly Work Plan, dated August 28, 2011 (original and 2 copies)

cc: Noel Lerner/DWR  
Charles Rabamad/DWR  
Seth Wurzel/TRLIA  
Larry Dacus/Ric Reinhardt/TRLIA