



**THREE RIVERS LEVEE IMPROVEMENT AUTHORITY**  
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**THREE RIVERS LEVEE IMPROVEMENT AUTHORITY**

Project Status Report dated April 12, 2011

(Submitted to The Central Valley Flood Protection Board for the April 22, 2011 meeting)

A progress report of the various phases of the Three Rivers Levee Improvement Authority (TRLIA) project is provided in the followings sections of this document. *Updates are indicated with italics and underline.*

**1. Levee Design and Construction Work:**

**a. Phase 4 – Yuba River Levee between Simpson Lane and the Goldfields:**

- 1) **Environmental:** The TRLIA Board adopted a Mitigated Negative Declaration on April 20, 2010 and a Notice of Determination was filed on April 23, 2010. The Corps signed the NEPA Finding of No Significant Impact (FONSI) on December 29, 2010.

The CVFPB Anderson Elderberry Mitigation Site encroachment permit was signed and issued to TRLIA on February 7, 2011. Elderberry shrub transplants started on February 8, 2011 and utilizing additional crew and equipment completed all but three transplants by February 15, 2011. One landowner has refused access to his land for the purpose of transplanting 3 shrubs and condemnation proceedings still do not allow access. These three shrubs will be transplanted prior to construction reaching them in late June 2011.

- 2) **Design:** The UYLIP consists of 15,150 linear feet (LF) of cutoff wall ranging from 47 to 70 feet deep, 1,559 LF of seepage berm 80 feet to 150 feet wide at the end of the project, 3,159 LF of waterside slope rock erosion protection at the end of the project, and geometry corrections throughout the project reach.

Listed below are several key design actions:

- a) The CVFPB approved issuing an Encroachment Permit at their July 22, 2010 meeting for the UYLIP. This permit is to be issued after the Corps provides a Section 408 Approval letter to the CVFPB, see below.
- b) Corps HQ approved Section 408 on December 22, 2010. The 408 approval letter stated that the Safety Assurance Review (SAR) Plan previously approved by the South Pacific Division included a requirement to have the Board of Senior Consultants (BOSC) specifically address redundancy, resiliency and robustness. TRLIA's BOSC met on January 20, 2011 to accomplish this task. The BOSC found that no changes were needed for the project. *The Corps District Office signed the Section 408 Letter of Permission on March 24, 2011, which will allow*

the encroachment permit to be issued. It is anticipated that the permit will be issued by April 15.

- c) Yuba County Water Agency (YCWA) submitted a Section 104 request to the CVFPB on February 23, 2010. The CVFPB 104 credit request letter to the Corps was sent on March 18, 2010. The Section 104 approval package remains under consideration by the Corps ASACW.

- 3) **Construction:** Original bids were opened for the UYLIP on August 26, 2010. TRLIA received three bids. The low bid was \$7,541,470 and the high bid was \$9,127,446. The engineer's estimate was \$13,944,126. These bids were only good until March 31, 2011. The CVFPB 104 credit request letter to the Corps was sent on March 18, 2010. In December 2010 the HQs USACE approved the 408 Authorization for the UYLIP project. Unfortunately, the Section 104 credit request was not approved by the Corps by March 31, 2011 and the project will now be rebid. Hopefully, the rebid will not result in significant project cost increases that will be cost shared by the State and locals. The new bids will be opened on May 4, 2011. All of the construction work for the UYLIP is still planned to be accomplished during the 2011 construction season.

**b. Phase 4 – Feather River Levee between Bear and Yuba Rivers:**

**1) Segment 2:**

- a) **Vegetated Wave Buffer:** The Vegetated Wave Buffer encroachment permit was approved as a consent item at the February 25, 2011 Meeting. Planting will most likely begin at the end of April as conditions dry.
- b) **Feather River Elderberry Transplant Mitigation Area:** An encroachment permit for the Feather River Elderberry Transplant Mitigation Area was approved as a consent item at the March 25, 2011 Meeting. The remaining associate plantings will occur as soon as weather conditions allow. TRLIA has asked the Corps to reinitiate consultation with the FWS to determine final elderberry mitigation requirements for the Feather River Setback levee. Any additional associate plantings which result from this additional consultation will require the approved permit to be modified by the CVFPB. No additional plantings above those currently approved will occur without additional Board approval.

**2. Goldfields:**

- a. The Corps of Engineers presented their hydraulic analysis and findings for the Goldfields area at the March 2010 CVFPB meeting. TRLIA continues to work on the hydraulic study to better define the risk of flooding from the Goldfields. TRLIA is accomplishing final items of the 2-D model development and is initiating model runs. Complications in the modeling has delayed final production runs. The TRLIA analysis is anticipated to be available this summer (July/August).
- b. TRLIA remains committed to achieving 200 year flood protection for South Yuba County, and will keep the CVFPB and others up to date on our progress.

### 3. WPIC Crack Investigation

TRLIA learned of a longitudinal crack in the WPIC west levee in early January 2011. Field observation of the crack was made on January 4, 2011. The crack is approximately 1,100 feet long located at Unit 4 LM 4.2 to 4.4 (Approximate WPIC Design Station 221+00 to 232+00); is erratic in alignment; and located approximately 2 feet from the landside hinge. Maximum crack width is 2.5 inches. TRLIA repairs in this reach, completed in October 2006, consisted of a 1 foot crown raise with crown reshaping and a waterside fill to flatten waterside slopes. A field visit with representatives from the CVFPB, DWR and the Corps and with a geotechnical consultant hired by TRLIA was made on January 6, 2011.

On January 11, 2011, field investigations were accomplished to further investigate the crack. CVFPB Staff, DWR Staff, and the Corps were present. This investigation determined that the crack became hairline within a foot of the levee embankment surface. This hairline crack appeared to go as deep as 3.5 feet and remained vertical. This indicates a tension crack that developed during summer heat and the surface did not completely close once the rains began due to road aggregate in the crack. **All parties present during the January 11<sup>th</sup> field visit concluded this crack was not a significant threat to levee integrity.**

On February 9<sup>th</sup> TRLIA sealed the crack in a manner coordinated with CVFPB Staff to prevent additional rainfall from entering the crack and is monitoring the crack through the winter season to check for additional movement. No additional significant increase in the crack width has occurred nor has any significant settlement in the west side of the crack occurred. In June the crack will be further repaired through coordination and agreement on a repair plan with CVFPB and Corps Staff. TRLIA and RD 784 consider this work to be routine maintenance and the work is being paid for by RD 784.

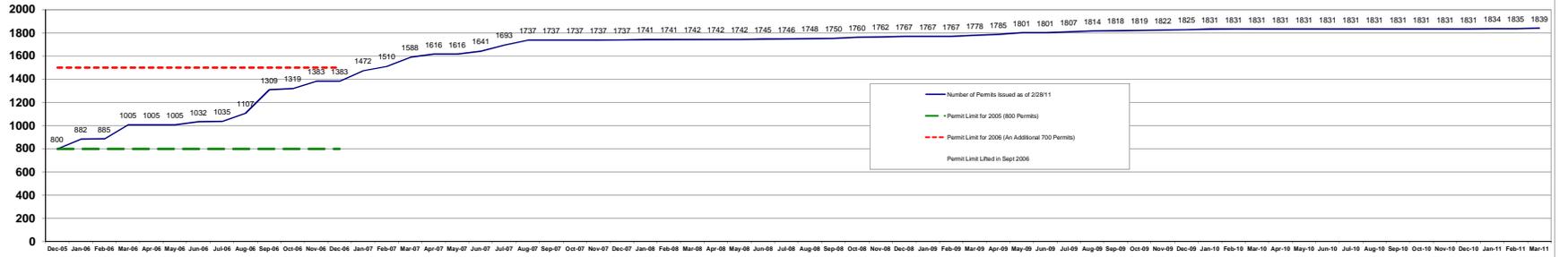
### 4. Building Permits Issued in Plumas Lake Specific Plan Area and North Arboga Study Area

- a. The attached graph and table provides information related to residential building permits issued for the Plumas Lake Plan Area (PLSPA) and the North Arboga Study Area (NASA) within Yuba County in 2011.
- b. As shown in the table, a total of 8 building permits have been issued in 2011 so far. 4 permits were issued in March of 2011.

Attachments:

1. Building permit graphic
2. Building permit table

### Building Permits Issued in TRLIA Project Area



**Plumas Lake Specific Plan Area and North Arboga Study Area - Building Permits Issued in 2011**

Developer/Builder	Monthly Building Permits Issued for Plumas Lake and North Arboga Study Area						Total (By Builder)
	Jan-11		Feb-11		Mar-11		
	Plumas	NASA	Plumas	NASA	Plumas	NASA	
KB Homes North Bay	3		1		4		8
Cresleigh Homes							0
Forecast Homes/K Hovnanian							0
Homes by Towne/HBT Constr.							0
Beazer Homes							0
California Homes/Home Builders							0
Cassano Kamilos Homes							0
D.R. Horton/Western Pacific							0
Other							0
<b>Monthly Totals</b>	<b>3</b>		<b>1</b>		<b>4</b>		<b>8</b>

As of March 31, 2011

**Total Permits for 2011      8**

As of March 31, 2011