



# THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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## THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

Project Status Report dated January 18, 2010

(Submitted to The Central Valley Flood Protection Board for the January 29, 2010 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 work from Simpson Lane up to the Goldfields area is planned to begin in 2010. The CVFPB provided a letter to the Corps initiating the Federal 408 environmental process. This allows the various necessary environmental actions to begin immediately, so that they can be completed in time to allow the design to be accomplished and construction to start in 2010. TRLIA is drafting environmental documents and has initiated preliminary design on the most likely project. TRLIA continues discussions with the Corps on the proper NEPA document. No decision has been made on the type of NEPA Document that will be prepared.
- 2) Potential Groundwater Impacts: TRLIA has completed an evaluation of potential groundwater impacts from a slurry wall project from Simpson Lane to the Goldfields. Evaluation results from that report were provided to the Board. Overall, there is little impact to groundwater from the proposed project. Water wells close to the proposed slurry wall will be replaced as part of the proposed project. A copy of the report was provided to the CVFPB and CVFPB Staff in December 2009.
- 3) Design: TRLIA initially proposed a project that would only include a slurry wall from Simpson Lane to approximately midway of the planned improvement, and then a seepage berm from the midway up to the Goldfields. However, additional evaluation has determined that the slurry wall alternative would provide a more reliable repair in most of the reach that was proposed to be seepage berm. The proposed project has been modified to extend the slurry wall an additional 7,200 feet almost to the end of the levee. The last 1,600 feet of the levee repair will remain seepage berm. The use of the slurry wall provides a more comprehensive solution than a seepage berm in that it effectively cuts off shallow permeable layers and defects not seen in geotechnical explorations (subsurface variability) and provides more reliable protection and creates a better “no regrets” project for any future expansion of the

flood project. As previously reported the extensive construction of a slurry wall project has no impacts to regional groundwater and minimal impacts to the few groundwater wells right next to the slurry wall. TRLIA held a meeting of its Board of Senior Consultants (BOSC) on December 16, 2009 to discuss the preliminary design and alternative selection. DWR, the Corps and CVFPB Staff were invited to the meeting. The BOSC supports the modification of the project from seepage berm to slurry wall.

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

- 1) Segments 1 & 3: A final construction completion Addendum for both Segments 1 and 3 was issued on December 15, 2009. This Addendum includes all the repair work that was performed on the repaired Segment 1 crack. FEMA levee certification documentation is now being prepared for both levee segments.
- 2) **Segment 2:** Part A of encroachment permit: The embankment is at the design elevation throughout the setback reach and embankment construction is complete. Asbuilt drawings and FEMA levee certification documentation are being prepared. The only work remaining is completion of installation of 3 of 26 relief wells, development of 13 of 26 wells, pump testing and installation of manholes on all 26 wells, and placing rock aggregate on a portion (1,600 linear feet) of the landside toe access patrol road. Other efforts include security patrols and inspection and maintenance of erosion BMP's for winter weather.
  - a) **Existing Levee Degrade:** The CVFPB approved permit No. 18430 allows degradation of the existing Feather River East Levee being replaced by the Feather River Setback levee. Approximately 62% of the levee has been degraded. The existing levee is degraded at both the south and north end so that flood elevation reduction benefits can be achieved this winter. Approximately 71% of the main borrow site in the setback area is filled. Degradation activities have ceased for the winter due to wet weather. TRLIA has taken steps to winterize the disturbed areas and to ensure the partially filled borrow site and the entire Setback Area will drain to the Feather River to prevent potential fish stranding should flows exceed the Feather River banks this winter.
  - b) TRLIA submitted a separate encroachment permit application to the CVFPB for the Vegetated Wave Buffer on September 3, 2009. This encroachment permit is anticipated to be reviewed by the CVFPB in the next few months.
  - c) TRLIA is preparing the permit application for the Feather River Elderberry Mitigation Area. TRLIA continues to work with DWR floodway maintenance staff and F&WS to develop an acceptable approach to floodway maintenance for all parties.

**2. Goldfields:**

- a. It is TRLIA's understanding that the Corps of Engineers hydraulics analysis for the General Re-evaluation Report (GRR) is nearing completion and that the Corps staff

is working with the CVFPB staff to set a time for the Corps to present their analysis and findings for the Goldfields area.

- b.** Due to the questions that have been raised by some public members and the CVFPB, TRLIA has begun examining the hydraulics of the Goldfields area as part of the UYLIP levee certification process. The work involves obtaining the most recent surveys of the area, possible surveying of portions of the area and performing hydraulic analysis. The results of this effort are projected to be available late this year.

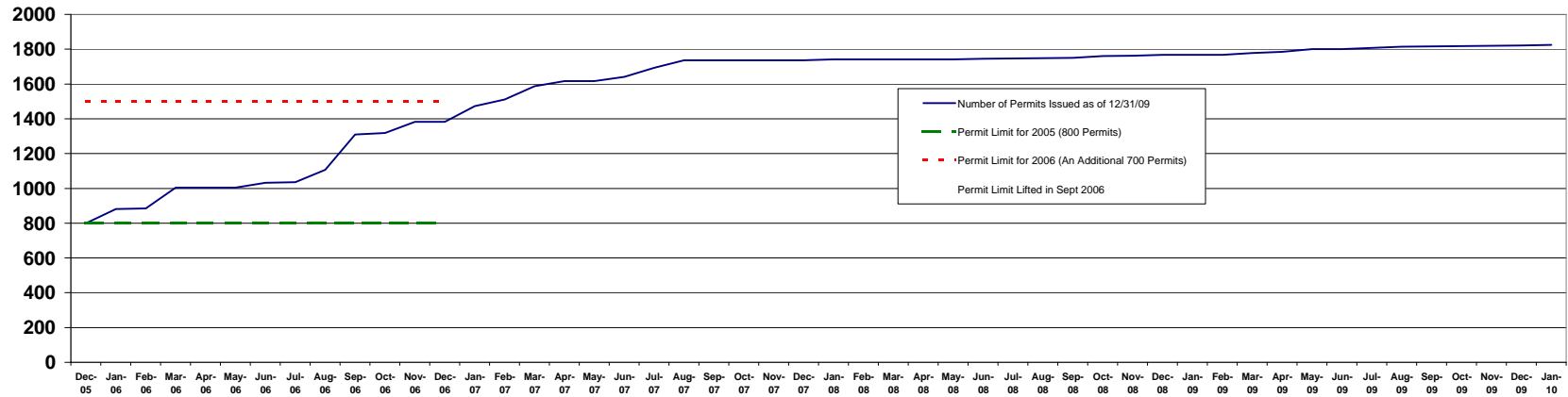
**3. Building Permits Issued in Plumas Lake Specific Plan Area and North Arboga Study Area in 2009:**

- 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 2009.
- b. As shown in the table, a total of 58 building permits were issued in 2009. Three permits were issued in December of 2009.

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 2009**

Developer/Builder	Monthly Building Permits Issued for Plumas Lake and North Arboga Study Area																						Total (By Builder)		
	Jan-09		Feb-09		Mar-09		Apr-09		May-09		Jun-09		Jul-09		Aug-09		Sep-09		Oct-09		Nov-09			Dec-09	
	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA		Plumas	NASA
KB Homes North Bay																									
Cresleigh Homes						11			7	16					6			7			4			1	
Forecast Homes/K Hovnanian																								3	
Homes by Towne/HBT Constr.																								3	
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>0</b>		<b>0</b>		<b>11</b>		<b>7</b>		<b>16</b>		<b>0</b>		<b>6</b>		<b>7</b>		<b>4</b>		<b>1</b>		<b>3</b>		<b>3</b>	<b>58</b>	

As of December 31, 2009

**Total Permits for 2009 58**

As of December 31, 2009