



# THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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## THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

Project Status Report dated April 12, 2010

(Submitted to The Central Valley Flood Protection Board for the April 23, 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. Originally TRLIA had planned to accomplish the CEQA and NEPA process together in a joint document. However, TRLIA has opted to separate the joint NEPA/CEQA Upper Yuba Levee Improvement Project document into separate CEQA and NEPA documents. This change was made to facilitate the initiation of right of way acquisitions and State and/or local approvals needed for construction of the project in 2010. TRLIA continues discussions with the Corps of Engineers on the appropriate NEPA document for Section 408 and Section 104 credit approvals. The Corps is reviewing a Draft Environmental Assessment for the project to determine if this will suffice for NEPA purposes.

TRLIA issued the Draft IS/MND for public review on February 12 and the public review comment period ended on March 15<sup>th</sup>. A public information meeting to accept comments on the Draft IS/MND was held on March 8, 2010 and was well attended. The TRLIA Board will consider adopting the Mitigated Negative Declaration at their April 20<sup>th</sup> meeting.

- 2) Design: The proposed project consists of 15,150 linear feet (LF) of slurry wall ranging from 47 to 80 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) 60% Plans and Specifications and a Draft Design Documentation Report were issued to the CVFPB, DWR, and the Corps on February 3.
- b) The second TRLIA Board of Senior Consultant (BOSC) Meeting was held on March 11 to discuss the 60% design submittal. CVFPB Staff and DWR attended the meeting. The BOSC has provided a report to TRLIA providing their replies to TRLIA responses to the Meeting No. 1 comments and comments on the 60% design submittal. The BOSC was satisfied with the responses and found no problems with the 60% design.
- c) TRLIA submitted a CVFPB Encroachment Permit Application on February 3, 2010 for the UYLIP. TRLIA has asked CVFPB staff to place this permit on the June CVFPB agenda for consideration.
- d) Yuba County Water Agency (YCWA) submitted a Section 104 request to the CVFPB on February 23, 2010. The CVFPB will consider approving a request letter to the Corps of Engineers for the Section 104 Credit at the April CVFPB Meeting.
- e) TRLIA submitted the Draft Section 408 Summary Report on March 2 for review by the CVFPB and Corps of Engineers staff. The CVFPB will consider approving a request letter to the Corps of Engineers for Section 408 Approval at the April CVFPB Meeting.

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

**1) Segment 2:**

- a) **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 development of 7 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. Construction work has ceased at the setback levee due to wet conditions. TRLIA currently plans to restart construction activities on April 12, 2010.
- b) **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 72% 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 anticipates beginning degradation again on April 12, 2010.
- c) TRLIA submitted a separate encroachment permit application to the CVFPB for the Vegetated Wave Buffer on September 3, 2009. This encroachment permit is under review by the CVFPB staff. TRLIA met with DWR, & CVFPB staff on April 5<sup>th</sup> to discuss option on long term O&M plan for this area. TRLIA plans on submitting the long term management plan for CVFPB consideration in May.

- 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. DWR has set up a committee to guide the actions within the Feather River Corridor, with participation from various branches of DWR, the CVFPB, the local maintenance districts, TRLIA, the counties, and other interested stakeholder groups. The Committee is called the Feather River Corridor Management Plan development team. The first meeting was held on March 18<sup>th</sup>.

## 2. Goldfields:

- a. The Corps of Engineers hydraulics analysis for the General Re-evaluation Report (GRR), including an analysis of the Goldfields and is now in draft form. The Corps of Engineers presented their analysis and findings for the Goldfields area at the March 2010 CVFPB meeting. The key points from the presentation were:
- 1) 100 year storm event: Based on this modeling, the Corps' has concluded that the Goldfields does not represent a risk from flooding for the 100 year storm event. This means that the Goldfields area is not anticipated to affect TRLIA's efforts to finalize the FEMA accreditation of the RD784 levee system.
  - 2) 200 year storm event: The Corps hydraulic model for the 200 year storm event shows flow coming out of the Goldfields area above the RD784 Patrol Road levee. This overflow results in shallow overland flow and impacts portions of East and West Linda, Olivehurst, and Arboga. Much of the overflow is less than 1 foot deep, but some areas in West Linda the depth is greater. As part of the GRR, the Corps evaluated an alternative that would build a new levee on the south side of the Goldfields. The estimated cost is \$45 million. The Corps' conclusion is that the damages from the residual floodplain do not justify the cost of this levee. The benefit to cost ratio is 0.1. Thus the Corps will not be pursuing this alternative; however, the Corps representatives did not preclude Corps participation in the future should new information become available. This Corps hydraulic analysis implies that upon completion of the TRLIA program as currently defined, there would be a residual 200 year floodplain. The Corps analysis for the GRR should be considered at a feasibility level of analysis.
  - 3) Ric Reinhardt outlined the detailed hydraulic evaluation that TRLIA's has initiated to better define the risk of flooding from the Goldfields. The purpose of this effort is to reaffirm the Corps' conclusions for the 100 year event and to conduct a more detailed evaluation of the flood risk at the 200 year flood event. This analysis will undergo an independent peer review. In addition, information will be provided to the CVFPB, DWR and Corps at key milestones to seek agency input on the analysis. Once completed it can be used to identify alternatives to reduce the flood risk from the Goldfields. The TRLIA analysis is anticipated to be available by end of 2010.
- b. The USACE analysis of the Goldfields does not affect the need for the current TRLIA Upper Yuba River Levee Improvement Project. TRLIA's plans for the Upper Yuba River

Levee Improvement Project includes tying the levee into the Goldfields, strengthening the barrier between the mining area and the properties to the south. Regulatory agencies and TRLIA's Senior Board of Consultants – a group of independent professional engineers who provide quality control and independent review of TRLIA's work – have concluded that the Upper Yuba River levee improvement Project will provide a high level of flood protection as designed for both 100-year and 200-year storm event.

- c. 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.

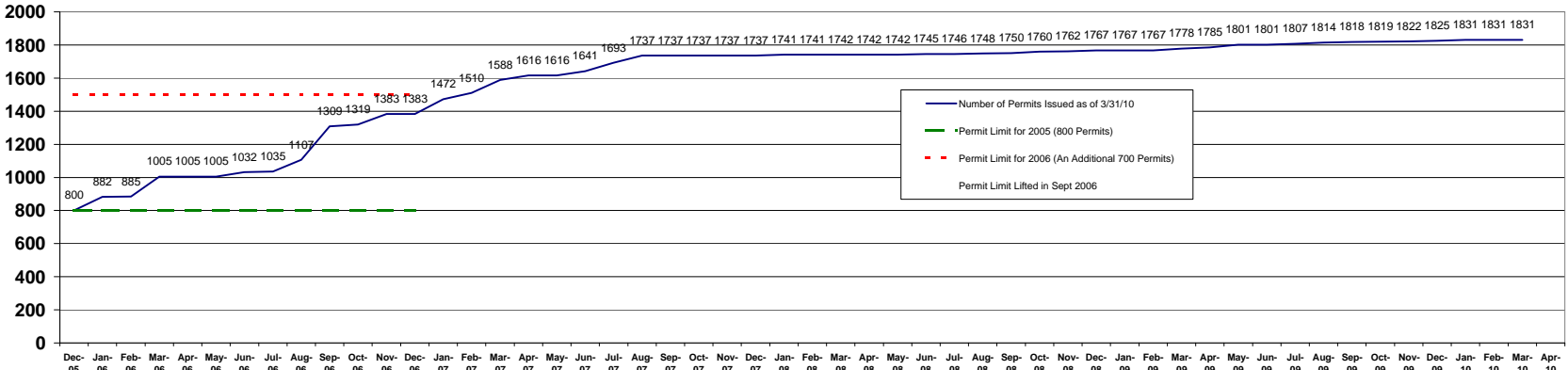
**3. Building Permits Issued in Plumas Lake Specific Plan Area and North Arboga Study Area in 2010:**

- 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 2010.
- b. As shown in the table, a total of 6 building permits have been issued in 2010 so far. No permits were issued in March of 2010.

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 2010**

Developer/Builder	Monthly Building Permits Issued for Plumas Lake and North Arboga Study Area										Total (By Builder)
	Jan-10		Feb-10		Mar-10		Apr-10		May-10		
	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	
KB Homes North Bay	6										6
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>6</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>6</b>

As of March 31, 2010

**Total Permits for 2010 6**  
As of March 31, 2010