

**Lower American River
Bank Protection Working Group
Meeting Outline w/ Timestamps
November 19, 2024**

Video Timestamps

**Welcoming Remarks
(Gregg Ellis, ICF)**

00:00:00 Welcoming remarks and meeting logistics

00:03:45 Agenda overview

**Overall Project Need
(Ben Tustison, MBK Engineers)**

00:07:08 Folsom Dam & American River historical flow records

00:08:34 Folsom Dam: Level of Protection

00:09:54 Cumulative flood risk over 30 years

00:10:29 Historical flood record: precipitation events

00:13:33 What is a reasonably foreseeable flood event

00:14:30 What is required to manage a foreseeable flood event

00:17:30 Why is the option to release 160,000 cubic feet per second so important

00:20:00 Questions & Answers

**ARCF Erosion Protection Project Need
(Hans Carota, USACE)**

- 00:37:30 Flood risk: flood protection benefit area, system overview
- 00:39:40 American River channel constraints
- 00:42:05 Projects recently completed or underway to increase level of protection
- 00:44:25 Flood depth scenarios
- 00:47:35 Questions & Answers

**Erosion Protection Site Identification
(Brian Wardman, nhc)**

- 00:56:00 Site identification overview
- 00:58:38 How does erosion threaten levee stability
- 01:00:21 Example of past bank erosion (Fairbairn & Business 80)
- 01:03:45 Bank erosion evaluation method: segment by segment review
- 01:05:30 Risk assessment example: erosion event tree
- 01:10:05 Sites identified for erosion work (6 miles out of 24 miles required work)
- 01:11:15 No Fix examples: Segment 2-9 & Segment 3-12
- 01:12:39 Erosion risk examples: Segment 3-11 and Segment 4-1
- 01:13:52 Closing Summary: How did we determine where work is required
- 01:15:05 Questions & Answers

**Erosion Protection Design Approach
(Dan Mielke, USACE)**

- 01:57:00 Overview of topics covered: Alternatives, objectives, design variability
- 01:57:53 Design alternatives to reduce erosion: reduce flows, widen channel, fix in place
- 02:00:20 Design objectives: erosion protection to safely pass 160,000 cfs, habitat mitigation
- 02:01:12 Bank protection treatment options
- 02:02:32 Preferred treatment options advanced and evaluated
- 02:05:12 Design reflective of American River Parkway Plan
- 02:06:45 Contract 3B segments and footprint overview
- 02:07:21 Segment 3-11 review
- 02:10:28 Segment 3-5 review
- 02:11:28 Segment 3-6 review
- 02:12:39 Segment 4-1 review
- 02:14:25 Questions & Answers

**Contract 4B
(Hans Carota, USACE)**

- 02:40:15 Introduction to lone tree scour
- 02:41:16 Vegetation free zone: trees on levee and monitoring program
- 02:43:06 Lone tree scour: problem identification and examples
- 02:44:24 Scope of project: preliminary risk assessment and trees identified
- 02:47:10 Contract 4B next steps: study and evaluation
- 02:49:27 Contract 4B schedule
- 02:51:52 Questions & Answers