Lower American River Bank Protection Working Group Meeting Outline w/ Timestamps August 13, 2024

Video Timestamps

Welcoming Remarks (Gregg Ellis, ICF)

00:01:15 Welcoming remarks and meeting logistics

Agenda Overview (William Polk and Hans Carota, USACE)

00:05:30	Summary of topics being covered: hydraulic modeling, erosion risk drivers,
	reliability of vegetation as erosion protection, influence of past designs on
	Contract 3B
00:09:50	Project orientation map & overview of Lower American River Contracts 1, 2, 3B

LAR Hydraulic Model Selection (*Brian Wardman*, *nhc*)

00:13:20	Presentation outline: Model Selection, Model Development, Flora et al Literature Summary
00:16:22	Development of Project 2D Hydraulic Model
00:17:41	Why a 2D model was used
00:21:43	How vegetation is incorporated into 2D models
00:23:20	Literature Review- Flora et al. approaches for accounting for vegetation
00:25:48	Closing summary
00:27:35	Q&A session – hydraulic modeling

Understanding Erosion Risk Drivers (Hans Carota & Dan Mielke, USACE)

00:48:25	Background on identifying erosion risk drivers
00:54:20	Levee foundation erosion process
00:59:00	Examples of 1986 erosion along Lower American River
01:04:20	Site selection process: data collection, analytical tools, expert evaluations
01:08:28	Overview of erosion protection methods
01:10:15	Contract 3B: overview of segments and risk drivers
01:12:56	Contract 3B, Segment 4-3: introduction and risk drivers
01:17:20	Segment 4-3: existing site condition photos
01:18:55	Segment 4-3: cross sections depicting levee template and risk drivers
01:21:38	Segment 4-3: cross section depicting proposed erosion protection measures
01:24:00	Q&A session- erosion risk drivers
Break	01:40:02 – 01:48:30

Reliability of Vegetation as Erosion Protection (Hans Carota, USACE)

01:49:00	Vegetation benefits: Contract 2, Site 2-3 example
01:51:26	Vegetation failure modes (fluvial erosion) with photo examples
01:57:25	Vegetation limitations and velocity resistance
02:01:55	Q&A session-vegetation as erosion protection

Influence of Past Designs on Contract 3B (William Polk, USACE, Brian Wardman, NHC)

02:25:02	Site orientation: map of completed erosion protection sites to be discussed
02:27:10	Old Site 4
02:30:25	Sac Bank 10.0L and 10.6L -completed in 2011
02:33:10	Contract 1, Site 2-1- completed 2022
02:38:42	Contract 2, Site 2-3- completed 2023
02:42:05	Contract 2, Site 2-2- completed 2023, similar to proposed designs at C3B
02:44:37	Contract 3B design – 80% of work is bank toe protection, similar to Site 2-2
02:50:43	Q&A session- influence of past designs on Contract 3B