Bank Protection Working Group

October 31, 2017
BPWG Initial Focus Reach and Field Tour

- Current Focus Reach is from Paradise Bend to upstream of Howe Avenue
- April and June BPWG meetings focused on NHC’s initial efforts on the:
  - Revetment Database
  - Site Characterization
- August BPWG meeting was a field tour to several locations within this focus reach
Sites Visited on August Field Tour

- Stop 1: Existing Bank Protection Site 3
- Stop 2: River Mile 6.2: Mid Channel Bar
- Stop 3: Bank Protection Repair Site 4
- Stop 4: 2017 High Flow Erosion Observation (Bank Cracking)
- Stop 5: 2017 High Flow Erosion Observation (Golf Course Erosion)
- Stop 6: Downstream Paradise Bend

Legend:
- River Miles
- Roads
- Levee Route

Lower American River Bank Protection Working Group
Field Trip Overview

Coordinate System: CA State Plane Zone II
Horizontal Datum: UTM, NAD 83, survey feet

Job: 5001774
Date: AUGUST 2017
Handout 1
August Task Force/BPWG Tour
August Task Force/BPWG Tour
Annual Agency Erosion Monitoring

**Purpose**
- FEMA certification
- Supplement ARFCD operation and maintenance plan
- Ensure that requirements for maintenance of certified levees are met
- Review previously identified sites
- Identify new sites

**Process**
- Visually inspect levees from drift boats
- Inspect sites on foot where possible
- Inspection from RM 12.0 to Sacramento River confluence
- Conducted October 17, 2017
Questions about Tour?
Identified Need for Technical Advisory Committee

- NHC presented proposed evaluation process and types of data to be used at June meeting
- Process is highly technical and relies on quantitative and qualitative information
- Criteria is being established that will help ensure consistency and accuracy in the evaluation
Establishment of BPWG Technical Advisory Committee

- As an outcome of the types of questions and comments received at the June BPWG meeting, a Technical Advisory Committee was formed to:
  - Provide technical review of work products
  - Ensure that products are technically sound and defensible
  - Make recommendations to SAFCA and the BPWG
BPWG TAC Goals

- The basic goals of the TAC are to:
  - Make sure that what is delivered to the BPWG (and ultimately the Task Force) is well thought out, defensible, and repeatable from a technical perspective
    - Tracks the evolution of a conclusion
  - Make sure that erosion risk criteria, analysis, and results will support agency decision making, including that of the USACE (e.g., risk based approach)
BPWG TAC Goals

- The TAC can help inform SAFCA’s project planning and decision making processes if they act as the local/State sponsor for bank protection projects.
- The TAC can help ensure that erosion site identification and evaluation processes are consistent with Federal (U.S. Army Corps of Engineers) and State (DWR, Central Valley Flood Protection Board) requirements.
  - Risk-based assessments
  - American River Common Features GRR
  - Sacramento River Bank Protection Project
TAC Membership

- Steve Chainey, ecologist
- Ray Costa, geotechnical engineer
- Mike Kynett, geotechnical engineer
- Todd Rivas, hydraulic engineer
- Tom Smith, geotechnical engineer
- Chuck Watson, geomorphologist