Matilija Dam Ecosystem Restoration Project
Design Oversight Group

Agenda

• Introduction
• Environmental Working Group
• Cost Review
  – Cost Considerations
  – Revenue Considerations
• Addressing Fine Material
  – No Action
  – BRDA
  – MODA
  – Above the Dam
• Questions
• Next Meeting: Nov. 5, 2009

Environmental Working Group

• Summary
• Actions
Purpose

- Summarize Project Status
- Strategize How Project Will Continue
- Refocus Project Efforts
Cost Consideration

- Design Costs
- Estimated Construction Costs

Generally – with each passing year the remaining cost increases by 3%.
Revenue Considerations

– Federal
  • No Federal Funding – first time
  • 2100 requests – no new starts – senate
  • Priorities switching to Levees
  • County’s Top Project?

– State

– Local
Revenue Considerations
  – State

Revenue Considerations
  – Local

  • Levees rising in priority
  • NPDES cost rising
  • Local revenue and expense challenges next 5 years
Addressing Fine Material

• No Action
  - Reservoir is filling
  - Increase in future removal cost
  - Increase in impacts to Casitas’ operation
  - Consider options compared to no project
Typical Section for:

- BRDA 1
- BRDA 3
- BRDA 4

Cover (native soils replaced)

Fine Sediment

Starter Dikes

Original Ground Surface

Typical Section for:

- BRDA 2

Cover (native soils replaced)

Bluff

Fine Sediment

Starter Dike

Original Ground Surface
Addressing Fine Material

• BRDA - positives
  – CEQA / NEPA – Most consistent with EIS/EIR
  – County and OVLC owned property
  – Long term reduced project footprint

Addressing Fine Material

• BRDA - negatives
  – Chronic fine sediment problems (River – Potential impact on fish)
  – Unknown neighbor resistance
  – Liability increases (flooding erosion)
  – Higher construction risk (especially if limited to 1 & 2)
  – Permitting issues increase
  – Perceived impacts to H2O agencies
  – Acre for Acre, tree for tree – greater impact to fish
  – Short term regulator support, long term regulator opposition
  – Greater cost (NO MONEY / NOGO) $10M
BUILDING STRONG

Los Angeles District

MODA Whole  MODA East / West

Typical Section for:
• MODA East
• MODA Whole

Cover (native soils replaced)

Bluff

Fine Sediment

Starter Dike

Original Ground Surface
Typical Section for:
• MODA West

Addressing Fine Material
• MODA - positives
  – Less environmental impact (compared to BRDA)
  – Less sediment launched, therefore less impact to Aquatic life
  – Less costly option than BRDA ($10M minimum)
Addressing Fine Material

• MODA - negatives
  – Maybe slightly higher permanent impact to alluvial scrub
  – Known Local opposition
  – Temporary easements needed for staging (lack of room)

Addressing Fine Material

• Above the Dam - negatives
  – Potential WQ impact to CMWD
Addressing Fine Material

- **Above the Dam - positives**
  - May lessen environmental impacts
  - Maybe lower risk long-term
  - Less risky from project standpoint
  - Requires less H2O
  - Potentially Less cost ($10 – 20M MODA), ($30 – 40M BRDA)
Potential Mitigation of the Upstream Disposal Alternative

- Bypassing of flow at Robles during high concentration events
- Increased stabilization of reservoir sediment
- Addition of flocculants to water in Robles Canal and settling of fine material in desilting basin or in Lake Casitas
- Increased treatment of water taken from Lake Casitas
- Aeration in Lake Casitas

Questions
**Next Meeting: Nov. 5, 2009**

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<tr>
<th>Alt</th>
<th>Description</th>
<th>Sub-Sites</th>
<th>Acreage for stockpile (ACR)</th>
<th>Ht above existing ground (ft)</th>
<th>Quantity of Material (CY)</th>
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Fine Sediment Disposal Area
Alternative Selection Criteria

Primary Categories
• Environmental Impacts
• Community Impacts
• Cost/Risk
• Resident time of Deposited Sediments
• Water Supply Impacts