



## 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



September 16, 2009  
9:00 AM –  
Ventura County Watershed Protection District, Saticoy Operations Yard

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## Environmental Working Group

- Summary
- Actions



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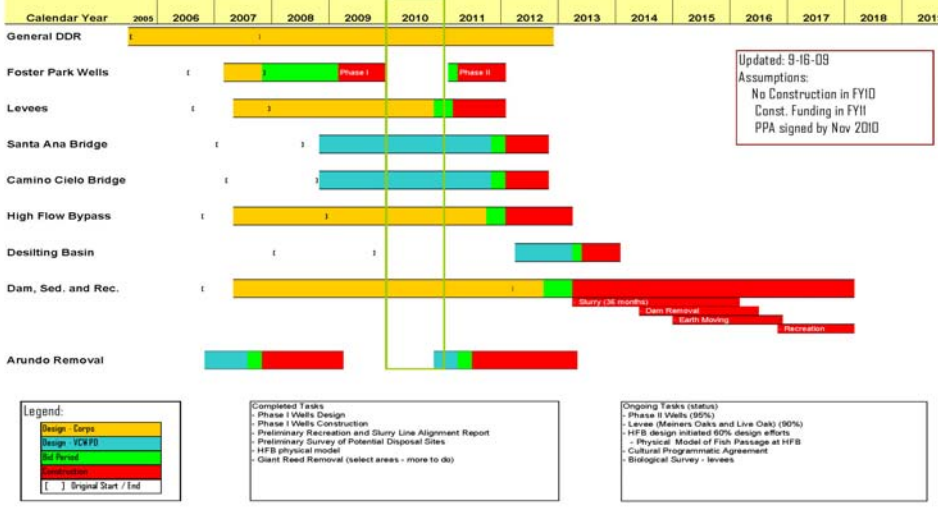
# Purpose

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



# Project Schedule

## MATILJA DAM ECOSYSTEM RESTORATION PROJECT





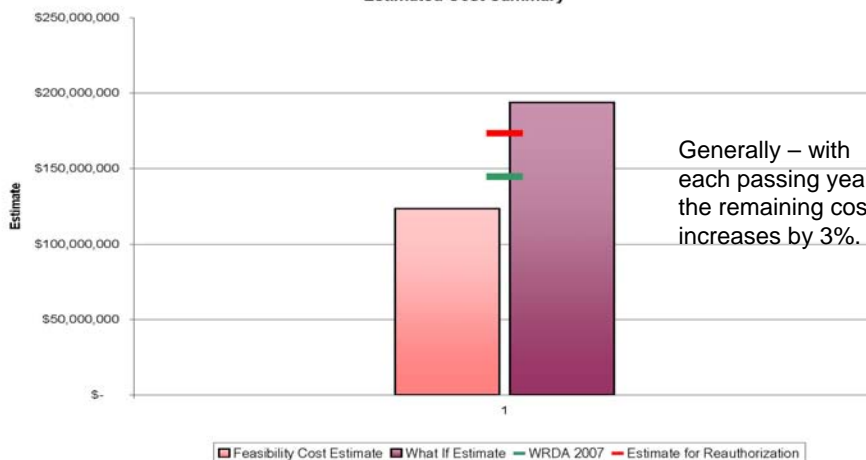
## Cost Consideration

- Design Costs
- Estimated Construction Costs



## Cost Considerations

Matilija Dam Ecosystem Restoration Project  
Estimated Cost Summary





## Revenue Considerations

- Federal
- State
- Local



## 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

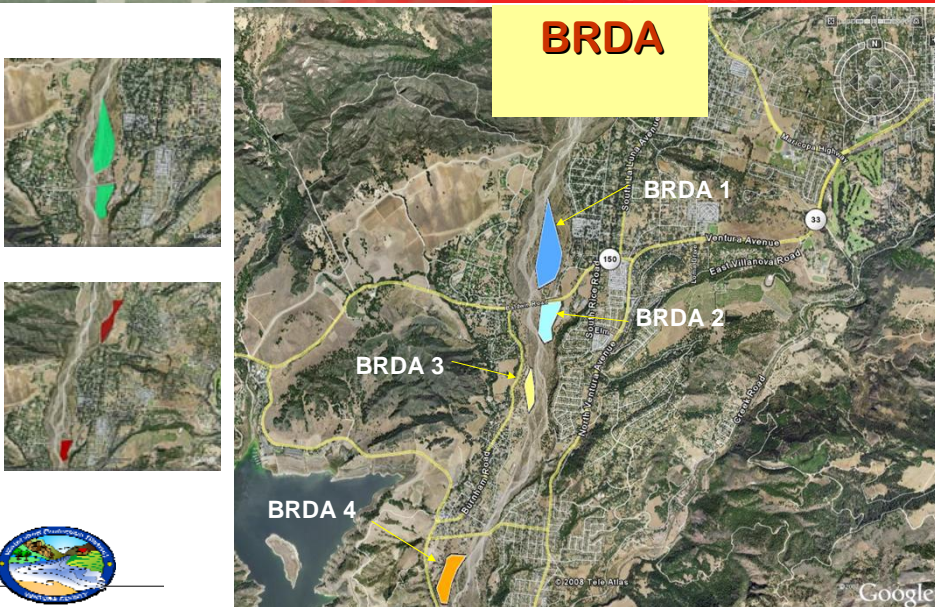




## Addressing Fine Material

- No Action

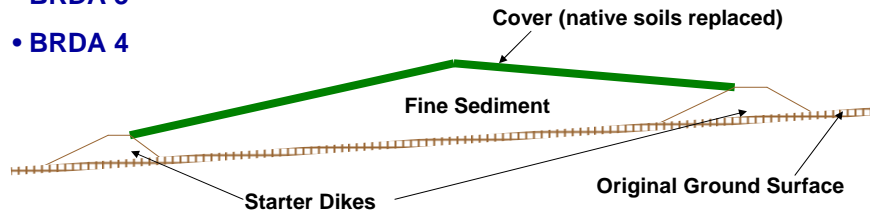
- Reservoir is filling
- Increase in future removal cost
- Increase in impacts to Casitas' operation
- Consider options compared to no project





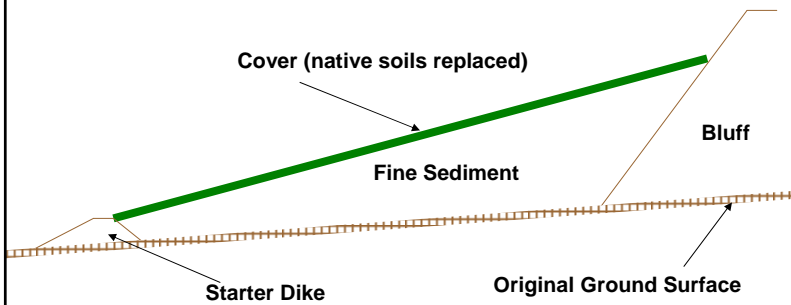
Typical Section for:

- BRDA 1
- BRDA 3
- BRDA 4



Typical Section for:

- BRDA 2





## 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







MODA Whole



MODA East / West

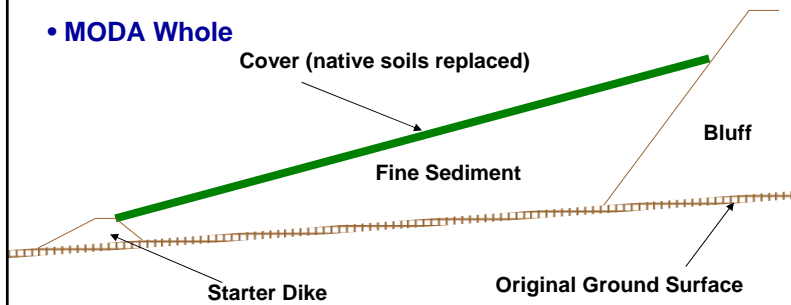


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Typical Section for:

- MODA East
- MODA Whole

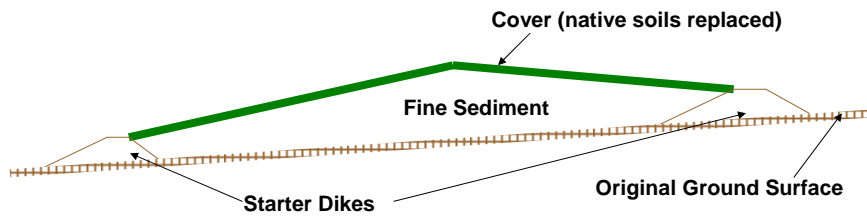


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Typical Section for:

- 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

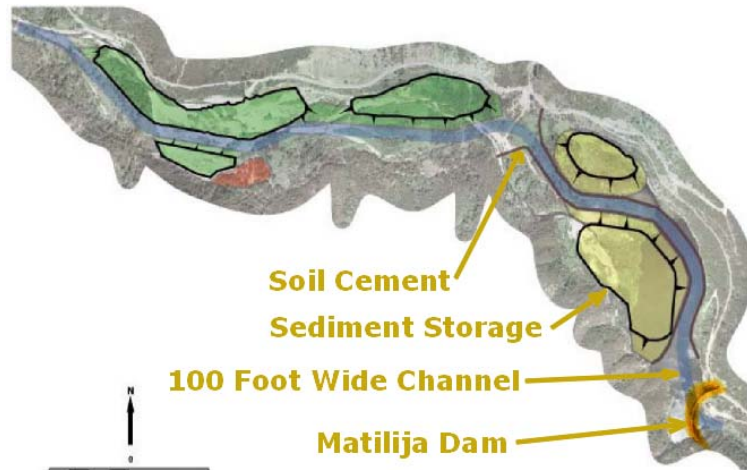




## Addressing Fine Material

- Above the Dam - positives

- May lessen environmental impacts
- Maybe lower risk long-term
- Less risky from project standpoint
- Requires less H<sub>2</sub>O
- Potentially Less cost (\$10 – 20M MODA), (\$30 – 40M BRDA)



## Above the Dam



## 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 de-silting basin or in Lake Casitas
- Increased treatment of water taken from Lake Casitas
- Aeration in Lake Casitas



## Questions

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# Next Meeting: Nov. 5, 2009



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Alt	Description	Sub-Sites	Acreage for stockpile (ACR)	Ht above existing ground (ft)	Quantity of Material (CY)
1	MODA - 94 acre (as proposed in Feasibility)		94	15	2,100,000
2	BRDA (as proposed in Feasibility)	BRDA 1	50	10	800,000
		BRDA 2	25	13	500,000
		BRDA 3	11	13	240,000
		BRDA 4	32	14	700,000
3	MODA - 74 acre, Cozy Dell re-routed		76	20	2,100,000
4	MODA split - Cozy Dell to remain in primary alignment	MODA East	46	25	1,500,000
		MODA West	26	20	600,000
5	MODA east, BRDA 2	MODA East	46	26	1,600,000
		BRDA 2	25	13	500,000
6	BRDA 1 - 2	BRDA 1	50	19	1,400,000
		BRDA 2	25	20	700,000
7	MODA - East of Cozy Dell		46	33	2,100,000
8	MODA SE (ch prop E of Cozy Dell), BRDA 1 - 2	MODA east - ch.	33	17	1,000,000
		BRDA 1	50	11	700,000
		BRDA 2	25	12	400,000
9	MODA East, BRDA 1	MODA East	46	19	1,400,000
		BRDA 1	50	11	700,000
10	MODA SE, BRDA 1	MODA east - ch.	33	17	1,000,000
		BRDA 1	50	15	1,100,000



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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

