

# Delta Methylmercury TMDL Nonpoint Sources Workgroup

Knowledge Base Overview  
Control Study Preview





# Meeting Agenda

Item	Description / Desired Outcome	Lead	Allotted Time (min)
<b>Welcome and Introductions</b>	<ul style="list-style-type: none"> <li>• Welcome and introductions of all meeting participants</li> <li>• Preview agenda</li> <li>• List of Cooperating Entities</li> </ul>	All	15
<b>Land Use Survey Results</b>	<ul style="list-style-type: none"> <li>• Spatial coverage</li> <li>• Findings</li> </ul>	Kevin Petrik (DU)	30
<b>Synthesis Report</b>	<ul style="list-style-type: none"> <li>• Review comments</li> <li>• New/expanded material</li> <li>• Key points</li> </ul>	Stephen McCord (MEI), on behalf of Lisamarie Windham-Myers & Josh Ackerman (USGS)	15
<b>Management Practices</b>	<ul style="list-style-type: none"> <li>• Overview</li> <li>• Priorities</li> <li>• Discussion</li> </ul>	Wes Heim (CDFG MLML)	60
<b>Control Study Workplan Development</b>	<ul style="list-style-type: none"> <li>• Workplan scope</li> <li>• Project sites</li> <li>• Cost-benefit scale</li> <li>• Funding needs &amp; opportunities</li> </ul>	Stephen McCord (MEI)	45
<b>Wrap-Up</b>	<ul style="list-style-type: none"> <li>• Review action items</li> <li>• Review project schedule</li> <li>• Next meeting date and agenda items</li> </ul>	Stephen McCord (MEI)	15

# NPS Workgroup Organizational Reports



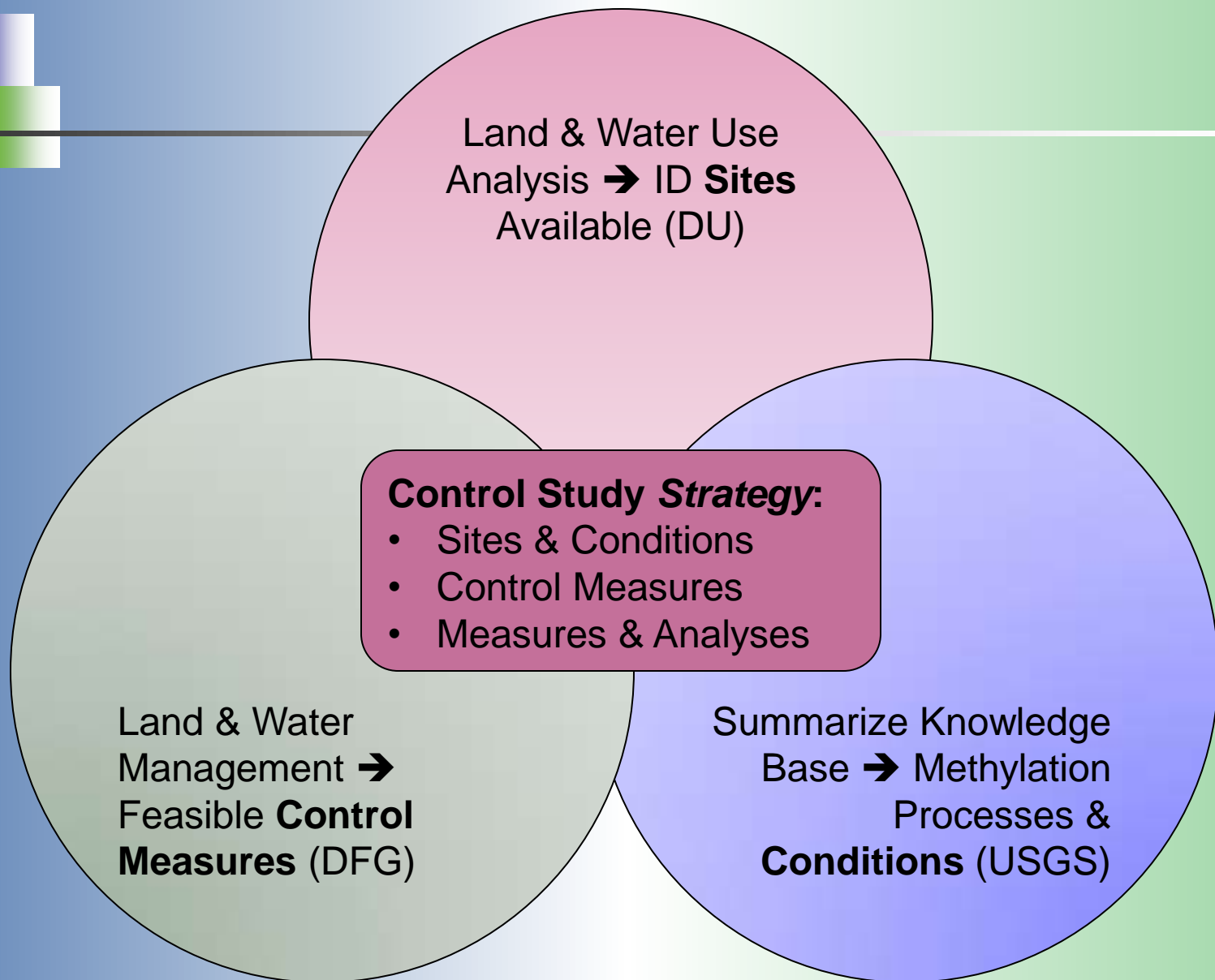
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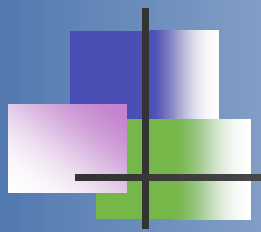
- Ducks Unlimited
- Delta WQ Coalition
- Sacramento Valley WQ Coalition
- CA Rice Commission
- The Nature Conservancy
- Westervelt Ecological Services
- CA DFG
- CA DWR
- US Fish & Wildlife Service
- US Bureau of Reclamation
- US BLM

## Also informed

- State Lands Comm.
- CA Waterfowl
- Wildlands [not in proposal]
- 401 cert. applic.s?

# Workplan Components





# MERCURY SYNTHESIS



# Comments Addressed

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- Stephen McCord (MEI), Michael Perrone & others (DWR), Jacob Fleck (USGS)
- Editorial / clarity / readability
- MeHg vs THg

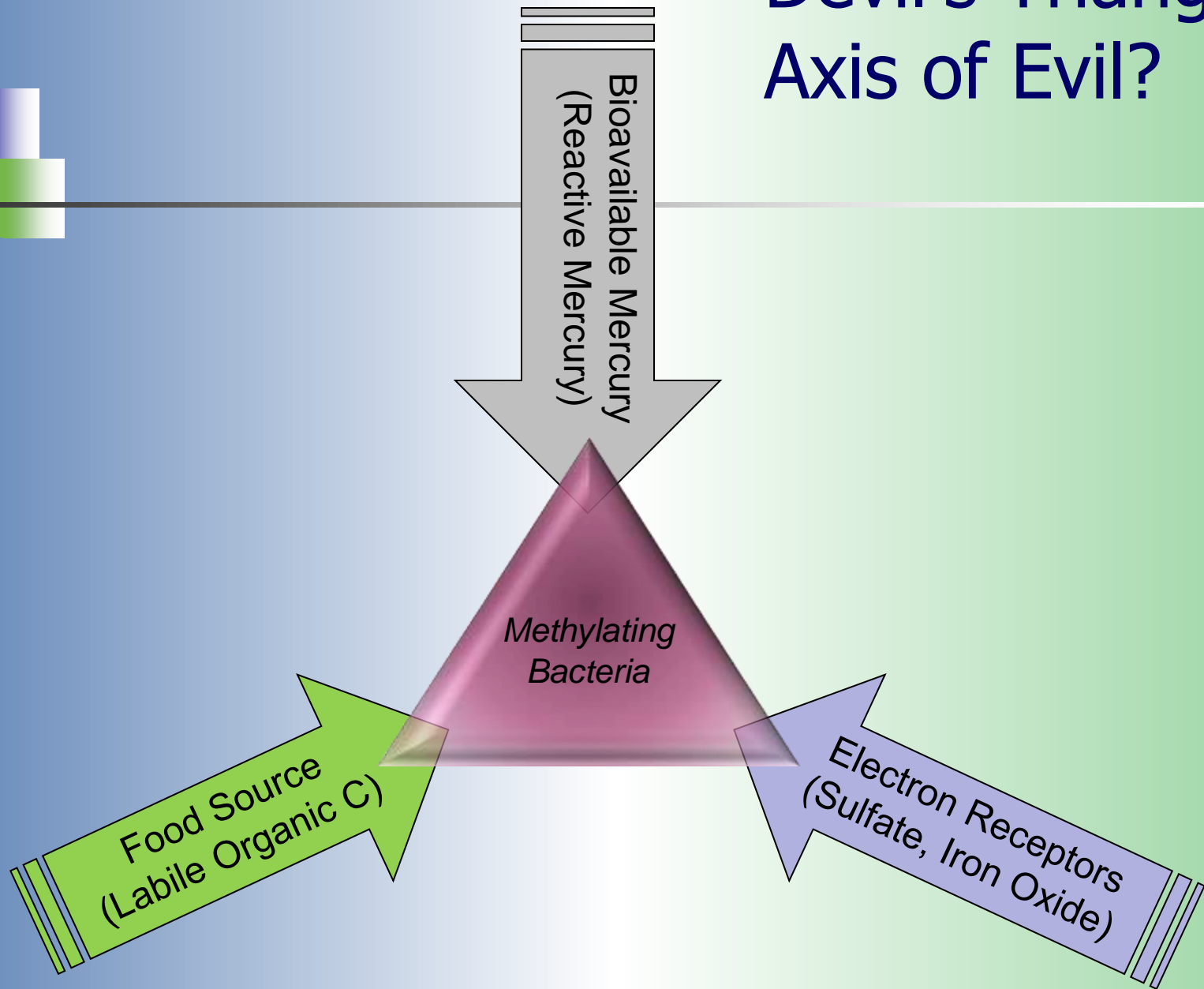


# New Stuff

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- MeHg in Biota
  - Impacts to fish & wildlife
  - Bioaccumulation
  - Full accounting of beneficial uses
- Knowledge Synthesis re-organized
- Addressed CS Guidance questions

# Devil's Triangle? Axis of Evil?



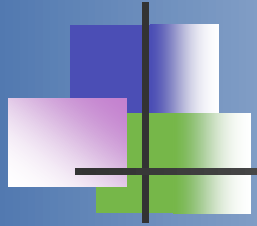




# Next Steps

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- Finalize synthesis, append to Knowledge Base memo
- USGS Open File Report?
- Modeling
  - Processes
  - Pools & rates
- CS Workplan



# **CONTROL STUDY WORKPLAN DEVELOPMENT**



# Workplan Scope

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- Submit one workplan for all NPS Workgroup Cooperating Entities
  - Knowledge Base (Synthesis, GIS, MPs)
  - Study Sites & MPs (near- & long-term)
  - SAP & QAPP *guidance*
- Project proponents use workplan to design site-specific studies

# Project Site Distribution

Order

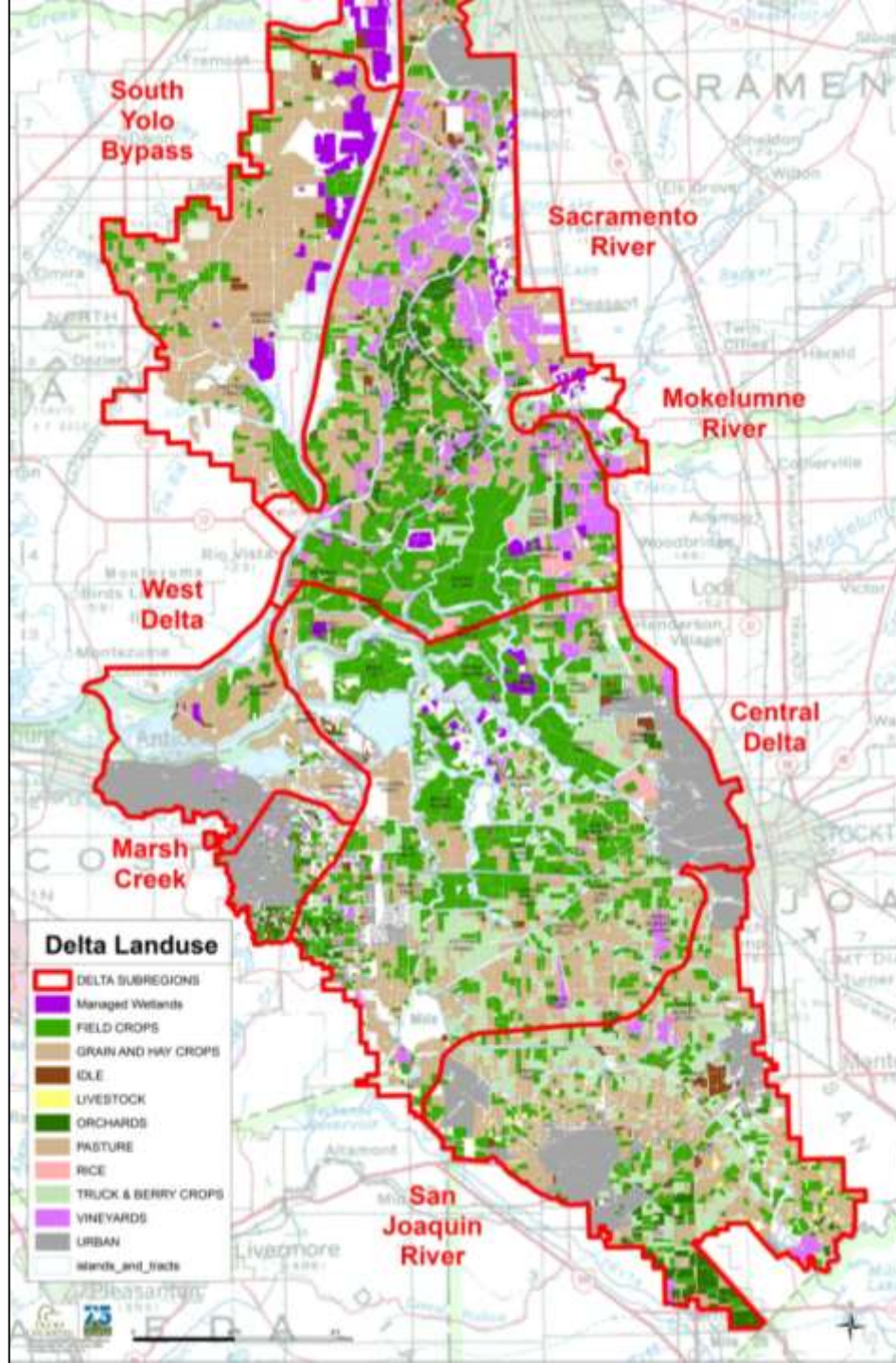
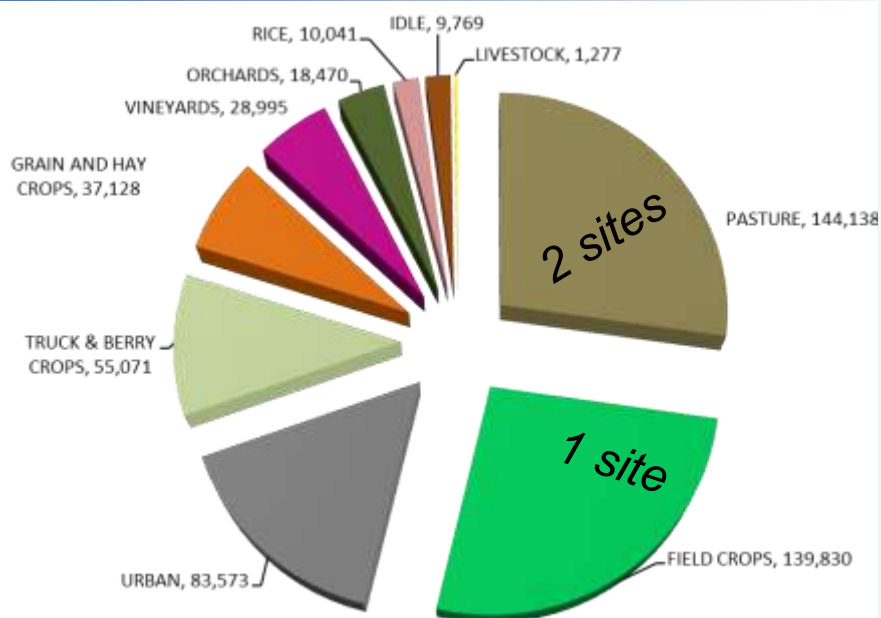
Group by Type of MP

Site	Done ?	LU	% LU	Sub-area	Who	MW -pw	MW -sw	AL-fal	AL-icl	NHS -f	NHS-bftm
Twitchell											
Yolo											
CRP										<b>1, 6</b>	
BDCP						2		7			
...											

Bold for “√”; plain for “=”; italics for “X”

# Project Sites – Spatial Distribution

- Land uses
- TMDL subareas





# Other Control Studies

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- **Flood control** – “Agencies that manage water in the Yolo Bypass and any other areas where wetland and agricultural lands are subject to managed flood flows should coordinate with wetland and agricultural landowners to develop management measures.”
- **New projects** – “proponents of new wetland and wetland restoration projects scheduled for construction after 20 October 2011 shall participate in Control Studies or implement site-specific study plans that evaluate practices to minimize methylmercury discharges.”



# Cost-Benefit Analysis – Holistic Approach

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- All Costs

- Lost income
- O&M expenses
- Compliance monitoring & reporting
- Reduced wetland benefits

- All Benefits

- Reduced exposure (net, including on site)
- Net change in habitat value (cost?)



# Next Steps

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- *June 13 , 11-noon(on-line) : MP ranking*
- Knowledge Base memo: June 30?
- NPS Workgroup meeting: July 12, 9-noon + 1-3 (*DWR*)
- *August 15 11-noon on-line meeting*
- DTMC meeting: August 14 (CRP)
- Workplan Concept Proposal: *August 17?*
- TAC Review: *Sept. 19-20?* (RegBd)