

Mercury Projects Funded by ERP:

ID	Title	Organization	Contract Term	Funding level	Core comp.
A	A Science Strategy for Mercury Investigation in the Bay-Delta Ecosystem: Development of a Unifying Framework linked to Ecological Restoration”	Wiener, Krabbenhoft, & Gilmour	2002-2003 Completed	\$130,000 (Science Program)	
B	Effects of Wetland Restoration on Methyl Mercury Levels	UC Davis	1998-2003 Draft final report	\$546,171	3
C	Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta Watershed	SJSUF – Moss Landing Marine Lab	1999-2003 Draft final report	\$4,164,000	1,2,3,4,5
D	Investigation of Abandoned Mines Sites – Yuba River Watershed	Dept. of Conservation	2000 completed	\$100,000	1,2
E	Evaluation of Mercury Transformations and Trophic Transfer in the San Francisco Bay/Delta: Identifying Critical Processes for ERP	USGS	Work began Fall 2003	\$2,262,567	1,3
F	Abandoned Mine Lands Inventory & Assessment	Dept of Conservation	Began in 2002, funding issues – waiting for Prop 13 IA	\$400,000	1,2
G	Phase 1 – Fish consumption study, outreach and education for the Sacramento-San Joaquin Delta and its tributaries	Department of Health Services	Began work Sept '03, work stopped waiting for exemption to allow time extension	\$85,000	4
H	Transport, Cycling and Fate of Mercury and Monomethyl Mercury in the San Francisco Delta and Tributaries, An Integrated Mass Balance Assessment Approach	SJSUF – Moss Landing Marine Labs	Contract for Prop 204 funded part is in place. Waiting for contract for Prop 13 funded part	\$3,881,215	1,3
I	Cache Creek Settling Basin Feasibility Study	US Army Corps of Engineers	Waiting for contract	\$100,000	2
J	Programmatic quality Assurance and Quality Control for CBDA Mercury research and monitoring projects	DFG	Waiting for contract	\$657,391	Oversight
K	Regulatory Activities of Inactive Mercury Mine Sites Affecting Delta Water Quality	Central Valley Regional Water Quality Control Board	Waiting for contract	\$100,000	2
L	Development of fish tissue database and integration of existing fish tissue data	DWR	Developing scope and contract	\$75,000	4
M	Mercury in San Francisco Bay/Delta Birds: Trophic Pathways, Bioaccumulation, and Ecotoxicological Risk to Avian Reproduction	USFWS	Approved by CBDA in 12/03. Waiting for contract	\$5,337,012	5
N	Mercury and Methylmercury Processes in North San Francisco Bay Tidal Wetland Ecosystems	SFEI	Approved by CBDA in 12/03. Waiting for contract	\$1,656,569	1,3,5
			Total:	\$19,494,925	

* Projects with bold print are completed **Projects that are shaded are affected by the contract freeze ***Projects that are not shaded or bold are currently in progress

Components of the Mercury Strategy:

Core Component	Management Goal(s) Addressed
1. Quantification and evaluation of mercury and methylmercury sources	To identify mercury sources that contribute most strongly to the production and bioaccumulation of methylmercury
2. Remediation of mercury source areas	To identify remedial actions that can reduce loadings of mercury from sources to surface waters and decrease the exposure of aquatic biota to methylmercury
3. Quantification of effects of ecosystem restoration on methylmercury exposure	To document and understand the effects of ecosystem restoration in wetland and floodplain habitats on the production and bioaccumulation of methylmercury in the Bay-Delta ecosystem
4. Monitoring of mercury in fish, health-risk assessment, and risk communication	To protect human health by providing informed guidance for reducing dietary exposure to methylmercury in fish To provide a "performance measure" to gage methylmercury contamination of the Bay-Delta ecosystem during restoration
5. Assessment of ecological risk	To protect fish and wildlife from adverse effects of methylmercury exposure
6. Identification and testing of potential management approaches for reducing methylmercury contamination	To identify and evaluate potential landscape management approaches for reducing the production and abundance of methylmercury in the ecosystem, as well as the associated exposure of resident biota

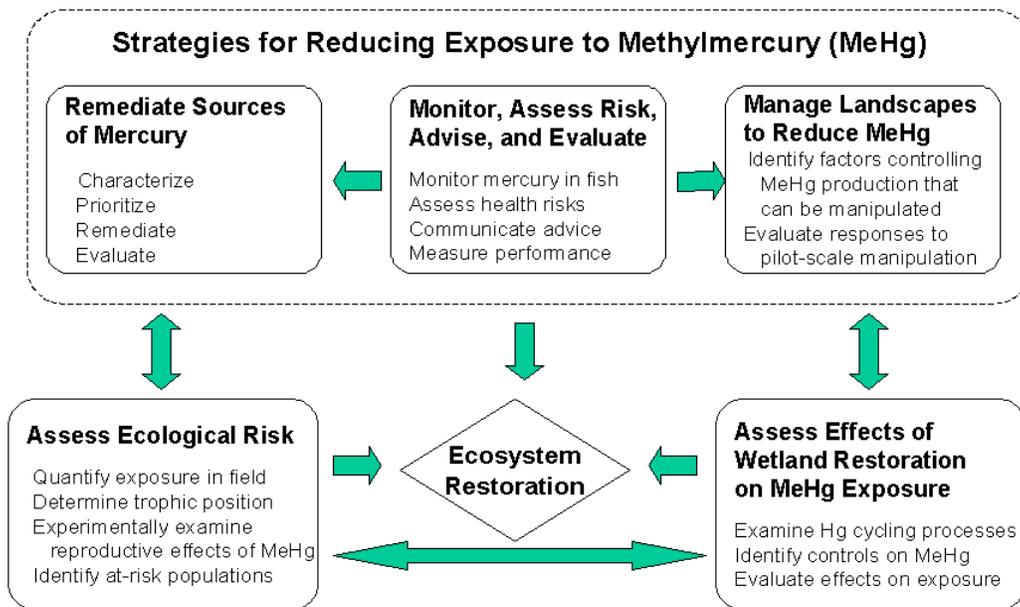


Figure 4. Conceptual model of linkages among components of the mercury strategy. Arrows represent linkages among components of the strategy, where information should flow to provide adaptive feedback for refinement of both scientific and management actions. For simplification, strategy components 1 and 2 (both related to mercury sources) were combined into the single cell on the upper left-hand corner of the figure.