



**FORESTRY, FIRE & STATE LANDS
REQUEST FOR PROPOSALS
Cover Sheet**



Project Title	Factors Controlling Mercury Methylation in Farmington Bay and the Great Salt Lake		
Lead Project Sponsor	University of Utah		
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Project Description / Abstract	<p>Consumption advisories were recently posted for certain waterfowl in wetlands surrounding the Great Salt Lake. These advisories accompany recent measurements demonstrating high methyl mercury concentrations in the deep brine layer of the lake. To mitigate the methylation of mercury and its transport into biota, we must identify the factors governing mercury methylation. We propose to determine the spatial and seasonal variation in mercury methylation in a transect across Farmington Bay. The project will utilize sediment microcosms to examine methylation rates, and will include determination of necessary field parameters. The project will be greatly strengthened by use of stable isotopically labeled mercury in the microcosms. Outputs will include description of the factors controlling mercury methylation in Farmington Bay, which will serve as a basis for consideration of strategies to mitigate mercury methylation and transport to biota in the Great Salt Lake.</p>		
Project Funding	Amount Requested	Matching Funds	Total Project Cost
	\$ 37,400	\$ 16,000	\$ 53,400