



FORESTRY, FIRE & STATE LANDS REQUEST FOR PROPOSALS Cover Sheet



Project Title	Diel fluctuations of methyl mercury in Farmington Bay outfall: Are we underestimating inputs to Great Salt Lake?		
Lead Project Sponsor	U.S. Geological Survey		
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Project Description / Abstract	<p>The proposed work will confirm or refute preliminary evidence supporting diel (i.e. 24-hour) fluctuations of total and methyl mercury concentrations and associated mercury loadings from Farmington Bay to the open-water of GSL. Since outflow from Farmington Bay is the primary riverine source of mercury to GSL, confirmation of diel fluctuations will have profound implications on the future remediation options to reduce mercury bioaccumulation in the GSL ecosystem. Failure to understand the diel concentration and loading cycle of mercury from Farmington Bay will lead to inaccurate models of mercury loading and cycling and misleading interpretations of biological exposure, resulting in ineffective and (or) misguided regulatory decisions. Because of the limited data available on diel variations in mercury, these study results could also have significant applications to other inflow sites to GSL as well as additional surfacewater and wetland systems in other parts of Utah and the Western United States.</p>		
Project Funding	Amount Requested	Matching Funds	Total Project Cost
	\$ 32,550	\$ 5,500	\$ 38,050