

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_17_CMP15
Name: St. Louis River Biota Mercury Monitoring
Type: Competitive Projects
Subtype:
Status: ACTIVE
Start Date: 05/01/2015
End Date: 12/31/2015
Purpose: Biota in the lower St. Louis River (estuary) will be sampled and tested for total and methyl mercury content. Burrowing mayflies will be the primary target organism. Composite samples will be collected from 88 sites. Fifty sites will be selected using a GRTS random, stratified method. These will allow evaluation of spatial patterns in mayfly Hg content, including comparisons between littoral ("flats") and pelagic (thalweg) sites, and different segments of the estuary. An additional 38 targeted sites will be selected, where high sediment Hg concentrations are known to exist to allow a comparison of mercury bioaccumulation in mayflies between highly contaminated and a range of lesser contaminated sites. Two year old burrowing mayfly nymphs will be collected at all sites where they are present. Alternative ecological equivalent organisms will be identified, and collected at sites where mayflies are not present. Sampling will be done in July, 2015.

Consultations with other partners working on the St. Louis AOC (EPA, MPCA, UMD) have identified this project as having the greatest value to complement other ongoing monitoring in the St. Louis River estuary, including efforts to assess mercury bioaccumulation.

Objective: see above
Comments: Is this a New or Continuing project? 1 year or 2? NEW.
Outcome: see above
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	SUPERVISOR	ACTIVE	07/01/2015		Wisconsin DNR	
HAGEN, CHERIE L	SUPERVISOR	ACTIVE	07/01/2015		Wisconsin DNR	
PEACHER, RACHEL D	COORDINATOR	ACTIVE	05/01/2015	12/31/2015	Wisconsin DNR	
Roesler, Craig P	PROJECT_LEAD	COMPLETE	05/01/2015	12/31/2015	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
03/27/2015	Craig Roesler	Proposed	

Actions

Action	Detailed Description	Start	End Date	Status
--------	----------------------	-------	----------	--------

Monitoring Stations

Station ID	Name	Comments
------------	------	----------

Assessment Units

WBIC	Segment	Local Name	Official Name
------	---------	------------	---------------

Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Account Code	Description	Start Date	End Date
GL041	ST. LOUIS RIVER BIOTA MERCURY	05/01/2015	12/31/2015

Forms

Form Code	Form Name
-----------	-----------

Methods

Method Code	Description
-------------	-------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
------------	--------	----------	------------	--------------

Documents

Title	Description	Author	Published	Comments
-------	-------------	--------	-----------	----------

Budget

Budget Description: FY 2016	Start Date: 07/01/2015	End Date: 06/30/2016
------------------------------------	-------------------------------	-----------------------------

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	200	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	212	Hours	\$15.00	\$3,180.00	
LTE FR	LTE Fringe				\$785.46	
LTE IND	LTE Indirect				\$641.21	
LTE TOT	LTE Total Cost				\$4,606.67	
SUPPLY	Supplies	1		\$800.00	\$800.00	sampling gear, shipping, boat gas, misc.
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	2800	Miles	\$0.29	\$812.00	
MEAL	Meals	24	Meals	\$9.00	\$216.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,028.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$6,434.67	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I432ZTT	METHYL MERCURY TISSUE	INORGANIC CHEMISTRY	88	\$178.75	\$15,730.00

Total SLOH Lab Costs: \$15,730.00
Total Budget: \$22,164.67

Combined Budgets: \$6,434.67
Combined SLOH: \$15,730.00
Combined Total: \$22,164.67

Funding

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Organization	Source	Type	Amount	Start Date	End Date
---------------------	---------------	-------------	---------------	-------------------	-----------------