

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NO-Duluth-Mercury-2013
Name: Water Column Mercury at Duluth Superior Harbor Dredging and Placement Sites
Type: Targeted Monitoring
Subtype: Special Project
Status: ACTIVE
Start Date: 08/01/2013
End Date: 12/31/2099
Purpose: The purpose of this project is to evaluate water column mercury concentrations at dredging and dredge material placement sites in Duluth-Superior Harbor. This information is critical for informing decisions about open water placement of dredge material in the harbor and the selection of locations for habitat restoration for delisting beneficial use impairments (BUIs) in the St Louis River AOC. The proposed sample set will provide a measure of mercury levels associated with dredging/placement activities and will enable a comparison of mercury levels between the dredging and placement site with areas of areas of no activity. This is important because if dredge material is used to restore habitat it must not increase mercury availability and potentially impede BUI removal for fish consumption advisories.

Objective:
Comments:
Outcome:
Study Design: Two sample events with six sample sites are proposed for a total of 12 water samples. Dredging in Duluth-Superior Harbor will begin mid-August and last until November 2013. One sample event would be scheduled when dredging/placement operations are underway, with a second sample scheduled after placement activities and prior to removal of the silt curtain. Specific sample locations will be determined when dredging operations begin, but are proposed as:
 1 Upstream of dredging and placement activity
 1 Dredging site
 1 Placement/discharge area
 1 Downstream of dredging and placement activity
 1 Field blank
 1 Field duplicate

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
GRAHAM, JOSEPH R	PROJECT_LEAD	COMPLETE	08/01/2013		Wisconsin DNR	
STEIGER, MATTHEW B	COORDINATOR	COMPLETE	08/01/2013		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
03/20/2015	JOSEPH GRAHAM	Complete	Project report uploaded

Actions

Action	Detailed Description	Start	End Date	Status
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Monitoring Stations

Station ID	Name	Comments
10041154	St. Louis River (Superior Harbor)	
10041156	St. Louis River 21st Ave W. Project Site	
10041152	St. Louis River DS Bong Bridge	
10041153	St. Louis River DS Interstate Island	
10041155	St. Louis River Mouth of 21st Ave W	

Assessment Units

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WBIC	Segment	Local Name	Official Name
2843800	1	St. Louis River AOC, St. Louis River	Saint Louis River

Lab Account Codes

Account Code	Description	Start Date	End Date
GL025	DULUTH SUPERIOR HARBOR DREDGIN	09/10/2013	06/30/2014

Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
09/23/2013 12:15	COMPLETE	0923201301	10041152	St. Louis River DS Bong Bridge
09/23/2013 12:50	COMPLETE	0923201302	10041153	St. Louis River DS Interstate Island
09/23/2013 13:40	COMPLETE	0923201303	10041154	St. Louis River (Superior Harbor)
09/23/2013 15:00	COMPLETE	0923201305	10041156	St. Louis River 21st Ave W. Project Site
09/23/2013 15:15	COMPLETE	0923201305D	10041156	St. Louis River 21st Ave W. Project Site
09/23/2013 15:25	COMPLETE	SLH041	10041156	St. Louis River 21st Ave W. Project Site
09/24/2013 14:30	COMPLETE	0923201304	10041155	St. Louis River Mouth of 21st Ave W
11/19/2013 13:30	COMPLETE	1119201301	10041152	St. Louis River DS Bong Bridge
11/19/2013 14:10	COMPLETE	1119201302	10041153	St. Louis River DS Interstate Island
11/19/2013 14:40	COMPLETE	1119201303	10041155	St. Louis River Mouth of 21st Ave W
11/19/2013 15:00	COMPLETE	1119201304	10041156	St. Louis River 21st Ave W. Project Site
11/19/2013 15:15	COMPLETE	1119201304D	10041156	St. Louis River 21st Ave W. Project Site
11/19/2013 15:30	COMPLETE	WTK-002 SLH-098	10041156	St. Louis River 21st Ave W. Project Site

Documents

Title	Description	Author	Published	Comments
2013 Low Level Mercury Sampling in Duluth-Superior Harbor, St Louis River Area of Concern, Superior, Wisconsin	Low level mercury sampling during open water dredge material placement operations in Duluth-Superior harbor	Joe Graham	12/31/2014	Low-level mercury, methyl mercury, dredging, open water placement
Water Quality Monitoring Proposal - Water Quality Monitoring Proposal		Matt Steiger and Joe Graham	08/05/2013	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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