

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: Nemadji_BUI6

Name: Addressing excess sedimentation impairments in the Nemadji River Basin

Type: Great Lakes Restoration Initiative

Subtype: Toxics and Areas of Concern

Status: ACTIVE

Start Date: 05/15/2015

End Date: 06/30/2017

Purpose: The goal of this project is to assess excess sedimentation impairments in the Nemadji River basin and coordinate implementation planning about the Nemadji Basin Plan. The Nemadji watershed was included in the St. Louis River Area of Concern (SLRAOC) because of concerns about accelerated erosion and sedimentation due to land use practices dating back to the mid-1800's. The St. Louis River AOC is impaired for excessive loading of sediment and nutrients (Beneficial Use Impairment 6). The goals of the project will be met through collection of biological, water quality, and sediment data, Hydrological Simulation Program-Fortran (HSPF) modelling, and development of workshops to encourage land use planning and "slow the flow" management practices in the Nemadji Watershed.

Objective: Assessment goals:

- Verify the status of the sediment loading impairment in the Nemadji River, and verify that progress has been made towards reducing erosion and sedimentation in the Nemadji River Basin by filling major data gaps:
 - o Collect biological and water quality data to assess the biological integrity of the system, specifically in downstream reaches, and identify any impacts of the present sedimentation rates on biota in the system.
 - o Collect suspended sediment concentration data in order to calibrate existing TSS data and calculate a modern sediment load to determine if sediment loading has improved since the last sediment load was calculated based on 1970's data. (Nemadji Basin Plan - NRCS, 1998).
 - o Develop HSPF modeling scenarios to help distinguish anthropogenic impacts from natural sedimentation in the Nemadji River basin and show changes in sediment loading before, during, and since peak logging and agriculture.

Implementation Planning Goals:

- Develop and implement a strategy to promote a watershed-based land use-planning approach to stormwater runoff management. This strategy will include implementation of the Nemadji Basin Plan through coordination of workshops, meetings for stakeholders, and facilitation of a local watershed group. Note that this action meets the intent of the Removal Target for Excessive Loading of the Sediment and Nutrient BUI, as it involves implementation strategies of the Nemadji Basin Plan.

Comments: The primary grant is GL-00E01474.

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
DINSMORE, DONALEA	COORDINATOR	ACTIVE	05/15/2015		Wisconsin DNR	
PACKETT, DIANE L	TEAM_MEMBER	ACTIVE	05/02/2018		Wisconsin DNR	
STEIGER, MATTHEW B	COORDINATOR	COMPLETE	05/15/2015		Wisconsin DNR	
WHEELER, MICHELE C	COORDINATOR	COMPLETE	05/15/2015	07/02/2020	Wisconsin DNR	
WICK, MOLLY J	COORDINATOR	ACTIVE	05/15/2015	07/19/2016	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
05/15/2015	MOLLY WICK	Progress: 0-25% Complete	Proposal was funded. Working on SOW, contracting, and QAPPs
08/06/2015	MOLLY WICK	Progress: 0-25% Complete	- Contract established with USGS for Sediment Loading in June 2015. (Addressing excess sedimentation impairments in the Nemadji River Basin), QAPP completed, sampling started. - QAPP drafted for Lower Nemadji River Biological and Water Quality Monitoring. - Draft SOW for HSPF modeling, contractor identified (sole source justification planned). Contracting to occur this quarter. - Draft SOW for Implementation planning, Douglas County to do work under aid agreement with WDNR, aid agreement to be

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Date	Reported By	Status	Comments
10/02/2015	MOLLY WICK	Progress: 0-25% Complete	<p>established in this quarter.</p> <p>- Contract established with USGS for Sediment Loading in June 2015. (Addressing excess sedimentation impairments in the Nemadji River Basin), QAPP completed, sampling started. - QAPP completed for Lower Nemadji River Biological and Water Quality Monitoring, sampling 75% complete. - SOW complete for HSPF modeling, contracting in progress - SOW Complete for Implementation planning, Douglas County to do work under aid agreement with WDNR, aid agreement to be established in this quarter.</p>
01/12/2016	MOLLY WICK	Progress: 25-50% Complete	<p>For sediment loading study with USGS, sampling is in progress. For Lower Nemadji For Implementation planning project, grant was awarded to Douglas County for coordination and an Outreach Strategy is in progress. For HSPF modeling, contract was awarded to Tetra Tech and scenario development is in progress. For the Lower Nemadji biological and WQ monitoring, data was collected and is being reviewed. A report will be completed with results.</p>
07/06/2016	MOLLY WICK	Progress: 50-75% Complete	<p>For sediment loading study with USGS, sampling is complete and data analysis in progress. For Lower Nemadji For Implementation planning project, grant was awarded to Douglas County for coordination and an Outreach Strategy is complete. Douglas County is implementing that strategy. For HSPF modeling, Tetra Tech has completed model scenarios and a Final Report is in progress. For the Lower Nemadji biological and WQ monitoring, data collection and analysis is complete, and 2 final reports are in draft and complete form.</p>

Project Status Detail

Answer Set: DEFAULT

Question

Answer

1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):
2. Amount expended this reporting period:
3. Subcontracts or subgrants awarded this reporting period:
4. QAPP (Project Plan) status:
5. Local services and/or products purchased this reporting period:
6. Number of jobs created this reporting period:
7. Work accomplished this reporting period:
8. Work goals for coming reporting period:
 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
 2. Quality Documentation status (respond NA if not required):
 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:
 5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):
 6. Percentage (estimate) of project work completed during this reporting period:
 7. Percentage (estimate) of project work completed since the project start (total complete to date):
 8. Is project work on schedule? If no, please explain.
 9. If a problem was encountered, describe the problem and action(s) taken to correct it.
 10. What work is projected during the next reporting period?

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Question**Answer**

(Next 6 months):

11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator?

12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.

13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.

14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?

Actions

Action	Detailed Description	Start	End Date	Status
Monitor Wildlife	fish and macroinvertebrate community sampling	05/15/2015	06/30/2017	PROPOSED
Water Quality Modeling	Addressing excess sedimentation impairments in the Nemadji River Basin with hspf scenario modeling	05/15/2015	06/30/2017	COMPLETE
Monitor Water Quality or Sediment	sediment load study and water quality sampling	05/15/2015	06/30/2017	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2835300	1	Lower Nemadji River	Nemadji River

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Description
DNR-FPM-1001.3	Benthic Invertebrate D-Frame Net, Kick Samples 1988
DNR-FPM-1001.3	Benthic Invertebrate D-Frame Net, Kick Samples 1988
DNR-FPM-1001.2	Benthic Invertebrate Hand Collections 1988
ELECTROFISHING: BOOM SHOCKER	Electrofishing: Boom Shocker
SP-004	Electroshock Fish Survey Procedure
DNR-FPM 101.1	Kemmerer Depth Sampling 1993
SEDIMENT SAMPLING SAFETY	Sediment Sampling Safety
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Grant Proposal - Addressing excess sedimentation impairments in the Nemadji River Basin	Addressing excess sedimentation impairments in the Nemadji River Basin	Wick		

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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