Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: NKE2

Name: Beaver Dam PWS - Nine Key Element Plan

Type: Water Quality Planning

Subtype: Priority Watershed Plan

Status: COMPLETE

Start Date: 7/1/1994

End Date: 12/31/2019

Purpose: Beaver Dam River and the majority of other streams in the watershed support a warm water sport fishery. The streams of the watershed are not reaching their highest potential use due to pollution from point and nonpoint sources. Eroding croplands and streambank and improperly managed livestock operations are the major source of nonpoint pollution in the watershed. The three lakes in the watershed, Fox, Beaver Dam and Lost Lakes are all eutrophic lakes, and although they support a productive fishery, are also plagued by problems including severe algae blooms, excessive weed growth, and low dissolved oxygen concentrations. The details of the water resource assessments are discussed later in this watershed plan.

Objective: Pollutant load reductions are developed according to activities needed to achieve the water quality objectives. In order to reduce overall sediment delivered to receiving water bodies, the following is needed: 35% reduction in sediment reaching streams from agricultural uplands, reduction in gullies eroding more than 6 inches per year, reduction in streambank erosion where cattle are trampling banks, and reduction in shoreline sediment delivered to the lakes. In order to reduce overall phosphorus load to receiving water bodies, the following is needed: 73% reduction in organic pollutants from barnyards and 42% reduction in organic pollutants from winterspread manure on "unsuitable" acres in all subwatersheds.

Comments: UR03 0709000109 2019

Outcome: An assessment of groundwater quality was completed by sampling private wells for nitrate + nitrite and triazine. Results show that of the well samples collected, 22 percent had nitrate levels over the enforcement standard (health advisory level) of 10 milligrams per liter (mg/L), and 24 percent had nitrate levels between 2 mg/L, the preventative action limit, and I 0 mg/L. Nitrate + Nitrite levels greater than the 2 mg/L preventative action limit show that human activities are affecting groundwater quality. Results of the groundwater survey do not indicate a pattern of groundwater contamination that can be linked to specific sources of nitrate. Well sampling for triazine showed that less than I percent of the samples collectecl had triazine levels over 3.0 micrograms per liter p.g/L, which is the enforcement standard for atrazine plus its breakdown components, called metabolites. Triazines are a family of herbicides which include atrazine and its metabolites which when present in groundwater indicates groundwater contamination. 13 percent of the samples collected had triazine levels between 0.3 and 3.0 p.g/L. The preventative action limit for triazine is 0.3 p.g/L.

Study Design: Beaver Dam River Plan

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
CRAIG, ANDREW D	TEAM_MEMBER	ACTIVE	2/18/2018		Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	7/1/1994	12/31/2019	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments

Actions

Wisconsin Department of Natural Resources
SWIMS Project Summary

Action	Detailed Description	Start Date	End Date	Status
Nine Key Element Plan	Beaver Dam PWS - Nine Key Element Plan - The Beaver Dam River and the majority of other streams in the watershed suppmt a warm water sport fishery. The streams of the watershed are not reaching their highest potential use due to pollution from point and nonpoint sources.	7/1/1994	12/31/2019	IN_PROGRESS

Details: Parameter	Value/Amount	Units	Comments
Total Nitrogen			
Total Phosphorus			
Total Suspended Solids			

Nine Key Element Plan	The Beaver Dam River and the majority of other streams in the watershed suppmt a warm water sport fishery. The streams of the watershed are not reaching their highest potential use due to pollution from point and nonpoint sources.	7/1/1994	12/31/2019	COMPLETE

Monitoring Stations

Station ID	Name	Comments

Assessment Units

WBIC	Segment	Local Name	Official Name
831400	3	Beaver Dam River	Beaver Dam River

Lab Account Codes

Account Code	Description	Start Date	End Date

Forms

Form Code	Form Name

Methods

Method Code	Method Description

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name

Documents

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Title	Description	Author	Published	Comments
2015 Total Phosphorus Monitoring Report - Beaver Dam River just upstream of Hwy 151	Many of Wisconsins water quality standards require multiple visits to make an assessment decision. Every year, several stream sites are monitored and the field data collected during each visit are used to flag problem waters. In the next year, follow up monitoring is carried out on the flagged waters where the data suggest there is an impairment, but there are insufficient data to make that determination based on the States minimum data requirements. In 2015, Water Action Volunteers stream monitors who live nearby the recommended follow up sites were asked to assist in the monitoring process by collecting water samples to be analyzed for total phosphorus at the Wisconsin State Lab of Hygiene.	Lindsey Albright and Ilana Haimes	12/23/2015	
Beaver Dam River, Wisconsin photo	From: https://www.wisconsinrivertrips.com/segments/beaver-dam-river		2/18/2018	
Nonpoint Source Control Plan for the Beaver Dam River Priority Watershed Project	https://dnr.wi.gov/topic/nonpoint/documents/9kep/Beaver_Dam_River-Plan.pdf The Beaver Dam River Priority Watershed Project plan assesses the nonpoint sources of pollution in the Beaver Dam River Watershed and guides the implementation of nonpoint source control measures.	WDNR	1/1/1994	
Rock River Basin Photo			2/18/2018	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: $0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date