

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_05_CMP10 ATTAINS
Name: Big Eau Pleine TMDL Monitoring
Type: TMDL/303d Projects
Subtype: Monitor Listed Waters
Status: FINAL_RPT
Start Date: 10/01/2009
End Date: 06/30/2010
Purpose: Project Description: The project will consist of multi-phased intensive sampling effort that utilizes an already developed partnership between, WDNR, Wisconsin Valley Improvement Company (WVIC) and a Citizen Based Monitor (CBM). WDNR will be responsible for obtaining roughly 1/3 of the samples while the other partners will obtain the remainder. Sampling will start in October 09 with tributary monitoring at four locations (three tribs and one outflow). Each site will have field tests completed and chemical analyses for nutrients and suspended solids that will generate the needed data for a TMDL.

Trib monitoring: The major tributary has an established gaging station, however another will be established on a second trib. WVIC will be sampling in lake samples for the necessary constituents once a month and WDNR will conduct the sampling the remainder for the bi-monthly sampling. A CBM will obtain monthly samples in tributaries once a month with DNR obtaining the balance.

Lake Sampling: Bi-monthly lake sampling will commence in April 2010 and will continue through end of the fiscal year. Sampling continues until FY2011. There will be three sampling locations strategically placed on the flowage. Sampling one a month will be performed by WVIC. WDNR will sample the other event the same day as the trib sampling to reduce travel costs and time. CBM's may be used to gather secchi data over the same period also. DO/Temp/ph/Cond profiles will be conducted at the three sampling points on the lake.

Objective: Project Justification: The Big Eau Pleine flowage has a well documented history of dissolved oxygen problems associated with nutrient loading from agricultural runoff. A special project conducted in 2005, showed very high levels of BOD loading in addition to the nutrients. Moreover, the Marathon County Land and Water Conservation Department (LWCD) has been working with local farmers to control runoff but more quantification from specific areas is needed. The finished product, a TMDL, will provide all cooperating partners with a valuable tool for land management.

The Big Eau Pleine is an immensely popular fishing destination for anglers across the state. A noted walleye, bass, pike, musky and panfish population draws anglers of all ages and sports clubs to the area. Many other nonangling citizens use the flowage as a destination for vacations.

Finally, this flowage suffers from major algal blooms due to vast nutrient loading. Because of the algal blooms there are large diurnal fluctuations of dissolved oxygen and pH. These values often exceed water quality standards and are responsible for the 303D listing.

Comments: Note any additional comments you'd like to add.

Outcome: Activity Code: WTMM

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BERNHARDT, ARTHUR C	TEAM_MEMBER	INACTIVE	10/01/2009	06/30/2010	Wisconsin DNR	
HAZUGA, MARK J	TEAM_MEMBER	COMPLETE	10/01/2009	06/30/2010	Wisconsin DNR	
MARTIN, AMY E	TEAM_MEMBER	ACTIVE	10/01/2009	06/30/2010	Wisconsin DNR	
OLDENBURG, PATRICK S	TEAM_MEMBER	COMPLETE	10/01/2009	06/30/2010	Wisconsin DNR	
Provost, Scott M	TEAM_MEMBER	COMPLETE	10/01/2009	06/30/2010		
SCHEUNEMANN, ADAM T	TEAM_MEMBER	ACTIVE	10/01/2009	06/30/2010	Wisconsin DNR	
SCHREIBER, KENNETH W	TEAM_MEMBER	ACTIVE	10/01/2009	06/30/2010		"Expert"
WILLGER, CHRISTOPHER J	TEAM_MEMBER	INACTIVE	10/01/2009	06/30/2010	Wisconsin DNR	

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Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Monitor or Propose 303(d) Listing	Nutrients, TS, VSS physical constituents. The Big Eau Pleine flowage has a well documented history of dissolved oxygen problems associated with nutrient loading from agricultural runoff. A special project conducted in 2005, showed very high levels of BOD loading in addition to the nutrients.	10/01/2009	06/30/2010	PROPOSED

Monitoring Stations

Station ID	Name	Comments
373135	Big Eau Pleine Reservoir - Lower	
373136	Big Eau Pleine Reservoir - Middle	
373137	Big Eau Pleine Reservoir - Upper	
10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam	
373325	Big Eau Pleine River at Sth 97 Bridge	
613032	Big Eau Pleine West Branch River - Stetsonville Stp	
373366	Fenwood Creek at Hwy 153	
373411	Freeman Creek at Sugar Bush Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
1412200	2	Lake Du Bay	Lake Du Bay
1427200	2	Big Eau Pleine River	Big Eau Pleine River
1427200	4	Big Eau Pleine River	Big Eau Pleine River
1427400	1	Big Eau Pleine Flowage	Big Eau Pleine Reservoir
1427400	2	Big Eau Pleine Reservoir	Big Eau Pleine Reservoir
1427700	1	Freeman Creek	Freeman Creek
1427700	2	Freeman Creek	Freeman Creek
1428700	1	Fenwood Creek	Fenwood Creek
1428700	2	Fenwood Creek	Fenwood Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WT107	Watershed Special Projects	05/27/2009	06/30/2010

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
10/14/2009 12:15	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
10/14/2009 12:45	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153

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Start Date	Status	Field ID	Station ID	Station Name
10/14/2009 13:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
10/14/2009 13:43	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
10/28/2009 09:30	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
11/11/2009 09:03	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
11/11/2009 10:03	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
11/11/2009 10:38	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
11/11/2009 11:15	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
11/24/2009 09:07	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
12/08/2009 09:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
12/08/2009 09:45	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
12/08/2009 10:10	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
12/08/2009 10:45	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
01/04/2010 14:10	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
01/12/2010 09:55	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
01/12/2010 10:30	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
01/12/2010 10:59	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
01/12/2010 11:30	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
01/26/2010 11:00	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
02/17/2010 11:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
02/17/2010 11:40	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
02/17/2010 12:00	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
02/17/2010 12:30	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
02/23/2010 13:25	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
03/09/2010 09:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
03/09/2010 09:40	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
03/09/2010 10:01	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
03/30/2010 12:25	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
04/13/2010	COMPLETE		373135	Big Eau Pleine Reservoir - Lower
04/13/2010 09:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
04/13/2010 09:40	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
04/13/2010 09:58	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
04/13/2010 10:19	COMPLETE	BEP3	373137	Big Eau Pleine Reservoir - Upper
04/13/2010 10:45	COMPLETE	BEP2	373136	Big Eau Pleine Reservoir - Middle
04/13/2010 11:50	COMPLETE	BEP1	373135	Big Eau Pleine Reservoir - Lower
04/27/2010 13:00	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
05/12/2010 12:00	COMPLETE	BEPL	373135	Big Eau Pleine Reservoir - Lower
05/12/2010 13:10	COMPLETE	BEPM	373136	Big Eau Pleine Reservoir - Middle
05/12/2010 13:40	COMPLETE	BEPU	373137	Big Eau Pleine Reservoir - Upper
05/17/2010 09:43	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
05/17/2010 10:13	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
05/17/2010 10:35	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd
05/17/2010 11:05	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
05/25/2010 10:30	COMPLETE	BEPL	373135	Big Eau Pleine Reservoir - Lower
05/25/2010 11:00	COMPLETE	BEPU	373137	Big Eau Pleine Reservoir - Upper
05/25/2010 11:45	COMPLETE	BEPM	373136	Big Eau Pleine Reservoir - Middle
05/25/2010 13:40	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
06/08/2010 11:20	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
06/08/2010 11:50	COMPLETE	FRC	373411	Freeman Creek at Sugar Bush Rd

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06/08/2010 12:15	COMPLETE	FWC	373366	Fenwood Creek at Hwy 153
06/08/2010 13:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
06/14/2010 11:40	COMPLETE	BEP3	373137	Big Eau Pleine Reservoir - Upper
06/14/2010 11:40	COMPLETE	BEP3	373137	Big Eau Pleine Reservoir - Upper
06/14/2010 12:10	COMPLETE	BEP2	373136	Big Eau Pleine Reservoir - Middle
06/14/2010 12:10	COMPLETE	BEP2	373136	Big Eau Pleine Reservoir - Middle
06/14/2010 12:50	COMPLETE	BEP1	373135	Big Eau Pleine Reservoir - Lower
06/14/2010 12:50	COMPLETE	BEP1	373135	Big Eau Pleine Reservoir - Lower
06/14/2010 13:50	COMPLETE		373135	Big Eau Pleine Reservoir - Lower
06/29/2010 13:00	COMPLETE	BFO	10030620	Big Eau Pleine River - Tailwater below Big Eau Pleine Dam
07/07/2010 09:30	COMPLETE	BEP1	373135	Big Eau Pleine Reservoir - Lower
07/07/2010 10:30	COMPLETE	BEP3	373137	Big Eau Pleine Reservoir - Upper
07/07/2010 11:00	COMPLETE	BEP2	373136	Big Eau Pleine Reservoir - Middle
07/21/2010 11:05	COMPLETE	BEP3	373137	Big Eau Pleine Reservoir - Upper
07/21/2010 11:20	COMPLETE	BEP2	373136	Big Eau Pleine Reservoir - Middle
07/21/2010 12:50	COMPLETE		373135	Big Eau Pleine Reservoir - Lower
08/16/2010 10:40	COMPLETE	BEPM	373136	Big Eau Pleine Reservoir - Middle
08/16/2010 11:00	COMPLETE	BEPU	373137	Big Eau Pleine Reservoir - Upper
08/16/2010 12:30	COMPLETE	BEPL	373135	Big Eau Pleine Reservoir - Lower
09/02/2010 11:50	COMPLETE	BEPU	373137	Big Eau Pleine Reservoir - Upper
09/02/2010 12:10	COMPLETE	BEPM	373136	Big Eau Pleine Reservoir - Middle
09/02/2010 12:38	COMPLETE	BEPL	373135	Big Eau Pleine Reservoir - Lower
09/15/2010 11:30	COMPLETE	BEPU	373137	Big Eau Pleine Reservoir - Upper
09/15/2010 11:54	COMPLETE	BEPM	373136	Big Eau Pleine Reservoir - Middle
09/15/2010 12:30	COMPLETE	BEPL	373135	Big Eau Pleine Reservoir - Lower

Documents

Title	Description	Author	Published	Comments
BIG EAU PLEINE TMDL BUDGET	Impaired Waters Budget	Mark Hazuga	02/26/2009	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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