

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: Bark_River ATTAINS

Name: Bark River TMDL

Type: TMDL/303d Projects

Subtype: Refine Load Estimates

Status: FINAL_RPT

Start Date: 5/1/2006

End Date: 5/1/2007

Purpose: The project portion of the Bark River includes that portion of the river listed on the 303(d) list for low dissolved oxygen due to excessive Phosphorus. The monitoring described below, developed in consultation with Department Staff, will assist in developing a TMDL for this portion of the Bark River.

A surface water grab sample will be collected once monthly by WT Staff (July, August, September) at three locations (Hwy 18 and Utica Road, Hwy 67, and Genesee Lake Road) and analyzed for the following:

Total P
Total Dissolved Phosphorus (as P)
Nitrogen Series
Suspended Solids
Chlorophyll a
120-Day Ultimate BOD

Objective: SER has been directed to develop 5 TMDLs annually. Conducting the monitoring described will allow for TMDL development for this 303(d) listed segment of the Bark River.

Comments: In addition, a Hydrolab will be deployed at and connected to the USGS gaging station at Hwy 18 and Utica Road, and will take continuous DO, temperature, pH, and Chl. A. readings. At the Hwy 67 and Genesee Lake Road sites, two hydrolabs will be deployed on a monthly basis for 4-7 days, to record diel DO, temperature, and pH. In addition, 10 locations (TBD) between the Hwy 83 and Utica Road site and the upstream Genesee Lake Road site will be sampled for instantaneous DO concurrently with diel monitoring deployments. Stream flow will be recorded at each site during surface water grab sampling events.

Finally, macroinvertebrate samples will be collected from each sample site in October.

Outcome: Monthly collection, deployment, and downloading of continuous DO recording data sondes in July, August, and September. Monthly sampling in July, August, and September Collection and mailings of samples Development of TMDL by June 30, 2007.

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Helker, Craig D	COORDINATOR	ACTIVE	7/1/2006	6/30/2007	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
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Actions

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Action	Detailed Description	Start Date	End Date	Status
TMDL Monitoring	The project portion of the Bark River includes that portion of the river listed on the 303(d) list for low dissolved oxygen due to excessive Phosphorus. The monitoring described below, developed in consultation with Department Staff, will assist in developing a TMDL for this portion of the Bark River. A surface water grab sample will be collected once monthly by WT Staff (July, August, September) at three locations (Hwy 18 and Utica Road, Hwy 67, and Genesee Lake Road) and analyzed for the following: Total P Total Dissolved Phosphorus (as P) Nitrogen Series Suspended Solids Chlorophyll a 120-Day Ultimate BOD	5/1/2006	5/1/2007	COMPLETE

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

Monitor or Propose 303(d) Listing	Monthly collection, deployment, and downloading of continuous DO recording data sondes in July, August, and September. Monthly sampling in July, August, and September Collection and mailings of samples Development of TMDL by June 30, 2007.	5/1/2006	5/1/2007	COMPLETE
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Monitoring Stations

Station ID	Name	Comments
10012307	Bark River at Hwy 67	bark river Hwy 67
683025	Bark River at East Sth 18 Bridge	18 & Utica
683428	Bark River at Genesee Lake Road	
10008154	Brighton Creek - 45th St.	
303066	Fox River (Il) - Nr New Munster Cthjb	
10030356	Nippersink at Darling Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
737400	1	Brighton Creek	Brighton Creek
742500	1	Fox River (Illinois)	Fox River
742700	1	Nippersink Creek, North Branch	North Branch Nippersink Creek
813500	1	Bark River	Bark River
813500	2	Bark River	Bark River
813500	5	Bark River	Bark River

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Lab Account Codes

Account Code	Description	Start Date	End Date
WT073	TMDL MONITORING	10/1/2005	9/30/2006
WT086	TMDL MONITORING	10/1/2006	9/30/2007

Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
FISH ASSEMBLAGE 2018	Fish Assemblage 2018
INORGANIC	Inorganic Lab - Field Data

Methods

Method Code	Method Description
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
HABITAT SURVEY BASELINE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
DNR-FPM-SONDES2006	Multi-Parameter Continuous Meter (Sondes) Guidelines 2006
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/18/2006 10:50	COMPLETE	11628910	683428	Bark River at Genessee Lake Road
8/17/2006 10:20	COMPLETE	11685564	683025	Bark River at East Sth 18 Bridge
8/17/2006 10:50	COMPLETE	11685383	10012307	Bark River at Hwy 67
8/17/2006 11:25	COMPLETE	11685372	683428	Bark River at Genessee Lake Road
9/21/2006	COMPLETE	11904966	683428	Bark River at Genessee Lake Road
10/24/2006 10:48	COMPLETE	FX04119862	303066	Fox River (II) - Nr New Munster Cthjb
11/2/2006	COMPLETE	SWMS18444017	683428	Bark River at Genessee Lake Road
10/30/2007 10:18	COMPLETE	BR-1	10008154	Brighton Creek - 45th St.
7/22/2009	COMPLETE	10030356	10030356	Nippersink at Darling Rd

Documents

Title	Description	Author	Published	Comments
BARK RIVER FY07 MONITORING PROPOSAL	MONITORING PROPOSAL	Helker, Craig	6/1/2006	
Bark River at East Sth 18 Bridge Phosphorus	Bark River at East Sth 18 Bridge Phosphorus	Helmuth, Lisa	2/5/2018	

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Bark River at Genessee Lake Road P	Bark River at Genessee Lake Road P	Helmuth, Lisa	2/5/2018	
Bark River at Hwy 67 Phosphorus	Bark River at Hwy 67 Phosphorus	Helmuth, Lisa	2/5/2018	
Brighton Creek - 45th St.Phosphorus	Brighton Creek - 45th St.Phosphorus	Helmuth, Lisa		
Fox River (II) - Nr New Munster Cthjb Phosphorus	Fox River (II) - Nr New Munster Cthjb Phosphorus	Helmuth, Lisa		
Fox River (II) - Nr New Munster Cthjb Temperature	Fox River (II) - Nr New Munster Cthjb Temperature	Helmuth, Lisa	2/5/2018	
Nippersink at Darling Rd DO	Nippersink at Darling Rd DO	Helmuth, Lisa	2/5/2018	
Nippersink at Darling Rd Total Phosphorus	Nippersink at Darling Rd Total Phosphorus	Helmuth, Lisa		

Budget

Combined Budgets:
Combined WSLH:
Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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