

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_4_2016

Name: Black and Barr Frontal Lake Michigan Targeted Watershed Assessment

Type: Targeted Watershed Approach

Subtype: Planning (WQ, Nine Key Element)

Status: FINAL_RPT

Start Date: 03/15/2016

End Date: 12/31/2018

Purpose: Conduct HUC 10 level monitoring on the Black River, Barr Creek, and unnamed tributaries in Sheboygan County during 2016. [TWA 10-0403010112]The Black River and Barr Creek are small watersheds within the larger Frontal Lake Michigan HUC 10. Both are identified as High Priority TP and TN Reduction Strategy waterbodies, and are due for LWMP updates in 2020.

Objective: The Black River and Barr Creek are small watersheds within the larger Frontal Lake Michigan HUC 10. Both are identified as High Priority TP and TN Reduction Strategy waterbodies, and are due for LWMP updates in 2020. Additionally, the Black River is receiving considerable local interest due to a proposed championship quality golf course adjacent to the river. The most recent monitoring on the Black was in 2010. The sampling proposed here will expand the biological and water quality information available for impacts monitoring should the golf course project go forward.

Seven locations on the Black River (WBIC 50300) and tributaries (WBIC's 50400 and 50430) will be sampled for fish, qualitative habitat, and Total Phosphorus. An additional five Total Phosphorus samples will be taken at the pour point location, along with a single diatom sample.

Five locations on Barr Creek (WBIC 50200) and tributary (WBIC 5028780) will be sampled for fish, qualitative habitat, and Total Phosphorus. An additional five Total Phosphorus samples will be taken at the pour point location, as well as a diatom sample.

Comments:

Outcome: Number of sampling sites: 12 Sampling events: 2 recon days, 5 fish sampling days, 2 macroinvertebrate sampling day, 5 pour point sampling trips. Sampling will be complete by October 2016. Pour point sampling will start April, 2016 at two locations. Data will be entered by Craig Helker by December 2016. Summary report will be drafted by December 2018.

Study Design: Seven locations on the Black River (WBIC 50300) and tributaries (WBIC's 50400 and 50430) will be sampled for fish, qualitative habitat, and Total Phosphorus. An additional five Total Phosphorus samples will be taken at the pour point location, along with a single diatom sample.

Five locations on Barr Creek (WBIC 50200) and tributary (WBIC 5028780) will be sampled for fish, qualitative habitat, and Total Phosphorus. An additional five Total Phosphorus samples will be taken at the pour point location, as well as a diatom sample.

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QA Measures: Standard DNR and SLOH protocols will be followed.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helker, Craig D	COORDINATOR	ACTIVE	03/15/2016	12/31/2018	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	ACTIVE	05/31/2019		Wisconsin DNR	
SABRE, RACHEL A	TEAM_MEMBER	COMPLETE	03/15/2016	12/31/2018	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
02/04/2016	Craig Helker	Proposed	
01/15/2019	Craig Helker	Final Report Needed	Black River write-up completed. Barr addendum needed.

Project Status Detail

Answer Set: DEFAULT

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- | Question | Answer |
|--|--------|
| 1. Number of Sample Sites (Enter the station IDs if you know them). | |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project). | |
| 3. Proposed Dates for Sample Collection | |
| 4. List applicable databases and who will enter data? | |
| 5. Did you receive competitive projects funding in the previous year? | |
| 6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not? | |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period) | |
| 8. Reviewer Decision: Is this project recommended for funding? | |

Actions

Action	Detailed Description	Start	End Date	Status																																																												
Nutrient Strategy Priority	Conduct HUC 10 level monitoring on the Black River, Barr Creek, and unnamed tributaries in Sheboygan County during 2016. [TWA 10-0403010112]The Black River and Barr Creek are small watersheds within the larger Frontal Lake Michigan HUC 10. Both are identified as High Priority TP and TN Reduction Strategy waterbodies, and are due for LWMP updates in 2020.	03/15/2016	12/31/2018	IN_PROGRESS																																																												
Details:	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Parameter</th> <th style="text-align: left;">Value/Amount</th> <th style="text-align: left;">Units</th> <th style="text-align: left;">Comments</th> </tr> </thead> <tbody> <tr><td>BMP Implementation</td><td></td><td></td><td></td></tr> <tr><td>I & E Activities</td><td></td><td></td><td></td></tr> <tr><td>PCBs</td><td></td><td></td><td></td></tr> <tr><td>Permit Modification</td><td></td><td></td><td></td></tr> <tr><td>Products Developed:</td><td></td><td></td><td></td></tr> <tr><td>Stormwater Plan</td><td></td><td></td><td></td></tr> <tr><td>Report Writeup</td><td></td><td></td><td></td></tr> <tr><td>Stormwater Goals Addressed:</td><td></td><td></td><td></td></tr> <tr><td>Reduce TSS</td><td></td><td></td><td></td></tr> <tr><td>Streambank & Shoreline Protection: Pollutant load reduction</td><td></td><td></td><td></td></tr> <tr><td>Total Nitrogen</td><td></td><td></td><td></td></tr> <tr><td>Total Phosphorus</td><td></td><td></td><td></td></tr> <tr><td>Total Suspended Solids</td><td></td><td></td><td></td></tr> <tr><td>Watershed Outreach, Planning</td><td></td><td></td><td></td></tr> </tbody> </table>	Parameter	Value/Amount	Units	Comments	BMP Implementation				I & E Activities				PCBs				Permit Modification				Products Developed:				Stormwater Plan				Report Writeup				Stormwater Goals Addressed:				Reduce TSS				Streambank & Shoreline Protection: Pollutant load reduction				Total Nitrogen				Total Phosphorus				Total Suspended Solids				Watershed Outreach, Planning						
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Monitor Water Quality or Sediment	Conduct HUC 10 level monitoring on the Black River, Barr Creek, and unnamed tributaries in Sheboygan County during 2016. [TWA 10-0403010112]The Black River and Barr Creek are small watersheds within the larger Frontal Lake Michigan HUC 10. Both are identified as High Priority TP and TN Reduction Strategy waterbodies, and are due for LWMP updates in 2020.	03/15/2016	12/31/2018	IN_PROGRESS																																																												
Monitor Targeted Watershed Area (TWA)	Black and Barr Frontal Lake Michigan TWA 2016	03/15/2016	12/31/2018	PROPOSED																																																												

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Monitoring Stations

Station ID	Name	Comments
10008151	Barr Creek - Barr Creek - 180 M Upstream Sauk Trail Road - River Mile 1.4	Barr Creek Watershed
10015870	Barr Creek - Downstream Of Smils Road	Barr Creek Watershed
10044728	Barr Creek at Marine Road	Barr Creek Watershed
10044729	Barr Creek at Service Road	Barr Creek Watershed
603341	Black River - Upstream Of Cth Kk	Black River Watershed
10012996	Black River 87m Upstream Of Sauk Trail Road	Black River Watershed
10014372	Black River Upstream Of Indian Mound Road	Black River Watershed
10044732	Black River at Beach Park Lane	Black River Watershed
10032612	Black River at W Evergreen Dr. bridge	Black River Watershed
10008178	Hartman Creek - North End Woodland Rd (Dead-End Road)	Black River Watershed
603234	Unnamed Creek At 12th Street	Black River Watershed
10044731	Unnamed Tributary to Barr Creek at Service Road	Barr Creek Watershed

Assessment Units

WBIC	Segment	Local Name	Official Name
20	12	Lake Michigan	Lake Michigan
20	15	Cedar Beach, Lake Michigan	Lake Michigan
20	17	County Road D Boat Launch Beach, Lake Michigan	Lake Michigan
20	23	Harrington State Park (S. Beach), Lake Michigan	Lake Michigan
20	24	Kohler Andrae Beach, Lake Michigan	Lake Michigan
20	30	Upper Lake Park Beach, Lake Michigan	Lake Michigan
20	33	Amsterdam Beach, Lake Michigan	Lake Michigan
20	34	KK Road Beach, Lake Michigan	Lake Michigan
20	37	Van Ess Road Beach, Lake Michigan	Lake Michigan
20	86	Harrington State Park Beach North, Lake Michigan	Lake Michigan
32	1	Port Washington Harbor	Port Washington Harbor
46750	1	Un Lake	Unnamed
49500	1	Sauk Creek	Sauk Creek
49600	1	Un Trib To Sauk Ck At Rm .04	Unnamed
49700	1	Ludowissi L Br To Sauk Creek	Unnamed
49900	1	Holy Cross Br Of Sauk Creek	Unnamed
50000	1	Hickory Grove Br. Of Sauk Creek	Unnamed
50100	1	Sucker Creek	Sucker Creek
50200	1	Barr Creek	Barr Creek
50300	1	Black River	Black River
50300	2	Black River	Black River
50400	1	Fisherman¿S Creek Tributary To Black River At Rm 0.3	Unnamed
50430	1	Unnamed Trib To Black River	Unnamed
50450	1	Unnamed Trib To Black River	Unnamed
3000100	1	Unnamed Tributary To Barr Creek At Rm 2.1	Unnamed
3000329	1	Local Water	Unnamed
3000448	1	Local Water	Unnamed
3000451	1	Local Water	Unnamed
3000452	1	Local Water	Unnamed
3000453	1	Local Water	Unnamed

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WBIC	Segment	Local Name	Official Name
3000460	1	Local Water	Unnamed
3000461	1	Unnamed Tributary To Fisherman¿S Creek At Rm 0.3	Unnamed
3000462	1	Local Water	Unnamed
3000467	1	Local Water	Unnamed
3000467	2	Local Water	Unnamed
3000471	1	Local Water	Unnamed
3000472	1	Local Water	Unnamed
3000473	1	Local Water	Unnamed
3000474	1	Local Water	Unnamed
3000475	1	Local Water	Unnamed
3000476	1	Local Water	Unnamed
3000477	1	Local Water	Unnamed
3000478	1	Local Water	Unnamed
3000481	1	Local Water	Unnamed
3000484	1	Local Water	Unnamed
3000490	1	Local Water	Unnamed
3000491	1	Local Water	Unnamed
3000493	1	Local Water	Unnamed
3000494	1	Local Water	Unnamed
3000496	1	Local Water	Unnamed
5028780	1	Trib to Barr Creek	Unnamed
5029082	1	Unnamed Stream	Unnamed
5029884	1	Local Water	Unnamed
5029912	1	Local Water	Unnamed
5029946	1	Local Water	Unnamed
5030044	1	Local Water	Unnamed
5030069	1	Local Water	Unnamed
5030083	1	Local Water	Unnamed
5030144	1	Local Water	Unnamed
5030149	1	Local Water	Unnamed
5030219	1	Local Water	Unnamed
5030337	1	Local Water	Unnamed
5030338	1	Local Water	Unnamed
5030341	1	Local Water	Unnamed
5030429	1	Local Water	Unnamed
5030458	1	Local Water	Unnamed
5030501	1	Local Water	Unnamed
5030740	1	Local Water	Unnamed
5030784	1	Local Water	Unnamed
5030793	1	Local Water	Unnamed
5030811	1	Local Water	Unnamed
5030841	1	Local Water	Unnamed
5030847	1	Local Water	Unnamed
5030901	1	Local Water	Unnamed
5030953	1	Local Water	Unnamed
5030957	1	Local Water	Unnamed
5030989	1	Local Water	Unnamed

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WBIC	Segment	Local Name	Official Name
5031073	1	Local Water	Unnamed
5031277	1	Local Water	Unnamed
5031401	1	Local Water	Unnamed
5031535	1	Local Water	Unnamed
5031696	1	Local Water	Unnamed
5031781	1	Local Water	Unnamed
5031873	1	Local Water	Unnamed
5031998	1	Local Water	Unnamed
5564018	1	Local Water	Unnamed
5564339	1	Local Water	Unnamed
5564604	1	Local Water	Unnamed
5565575	1	Local Water	Unnamed
5566589	1	Local Water	Unnamed
5566621	1	Local Water	Unnamed
5566743	1	Local Water	Unnamed
5566890	1	Local Water	Unnamed
5566924	1	Local Water	Unnamed
5567051	1	Local Water	Unnamed
5567466	1	Local Water	Unnamed
5567519	1	Local Water	Unnamed
5567579	1	Local Water	Unnamed
5567585	1	Local Water	Unnamed
5567755	1	Local Water	Unnamed
5567767	1	Local Water	Unnamed
5568030	1	Local Water	Unnamed
5568142	1	Local Water	Unnamed
5568207	1	Local Water	Unnamed
5568917	1	Local Water	Unnamed
5568970	1	Local Water	Unnamed
5569079	1	Local Water	Unnamed
5569089	1	Local Water	Unnamed
5569119	1	Local Water	Unnamed
5569142	1	Local Water	Unnamed
5569183	1	Local Water	Unnamed
5569185	1	Local Water	Unnamed
5569247	1	Local Water	Unnamed
5569416	1	Local Water	Unnamed
5569706	1	Local Water	Unnamed
5570442	1	Local Water	Unnamed
5570455	1	Local Water	Unnamed
5570465	1	Local Water	Unnamed
5570506	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	03/26/2014	12/31/2099

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Forms

Form Code	Form Name
FIELD CHEMISTRY FO	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
MACROINVERT_BASIC	Macroinvertebrate Survey Basic Form
STREAM_CHAR	Stream Characteristics Form (Qualitative Habitat) (form 3600-183 Back)
WADEABLE_MACRO_I	Wadeable Macroinvertebrate Field & Habitat Data

Methods

Method Code	Description
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
KICKNET SAMPLING - MACROINVERTEBRATE DATA COLLECTION	Macroinvertebrate Kicknet Data Collection 2000
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/24/2016 12:30	COMPLETE	BLK-01	10032612	Black River at W Evergreen Dr. bridge
06/01/2016 11:25	COMPLETE	BLK-01	10032612	Black River at W Evergreen Dr. bridge
06/01/2016 12:00	COMPLETE	BR-01	10044728	Barr Creek at Marine Road
06/22/2016 14:00	COMPLETE	BLK-01	10032612	Black River at W Evergreen Dr. bridge
06/22/2016 14:45	COMPLETE	BR-01	10044728	Barr Creek at Marine Road
08/22/2016 12:00	COMPLETE	2016 AUG 22 01_25	10044728	Barr Creek at Marine Road
08/22/2016 12:30	COMPLETE	2016 AUG 22 02_25	10008151	Barr Creek - Barr Creek - 180 M Upstream Sauk Trail Road - River Mile 1.4
08/22/2016 13:00	COMPLETE	2016 AUG 22 03_25	10015870	Barr Creek - Downstream Of Smils Road
08/22/2016 13:30	COMPLETE	2016 AUG 22 04_25	10012996	Black River 87m Upstream Of Sauk Trail Road
08/22/2016 14:15	COMPLETE	2016 AUG 22 05_25	603341	Black River - Upstream Of Cth Kk
08/22/2016 14:30	COMPLETE	2016 AUG 22 06_25	10044732	Black River at Beach Park Lane
08/22/2016 15:15	COMPLETE	2016 AUG 22 07_25	10008178	Hartman Creek - North End Woodland Rd (Dead-End Road)
08/22/2016 15:45	COMPLETE	2016 AUG 22 08_25	10014372	Black River Upstream Of Indian Mound Road
08/22/2016 16:15	COMPLETE	2016 AUG 22 09_25	10032612	Black River at W Evergreen Dr. bridge
08/22/2016 16:30	COMPLETE	2016 AUG 22 10_25	603234	Unnamed Creek At 12th Street
08/29/2016 11:00	COMPLETE	BR-01	10044728	Barr Creek at Marine Road
08/29/2016 11:45	COMPLETE	BLK-01	10032612	Black River at W Evergreen Dr. bridge
10/12/2016 11:55	COMPLETE	BLK-01	10032612	Black River at W Evergreen Dr. bridge
10/12/2016 12:30	COMPLETE	BR-01	10044728	Barr Creek at Marine Road
10/31/2016	COMPLETE	20161031-60-02	10008151	Barr Creek - Barr Creek - 180 M Upstream Sauk Trail Road - River Mile 1.4
10/31/2016	COMPLETE	20161031-60-03	10015870	Barr Creek - Downstream Of Smils Road
10/31/2016	COMPLETE	20161031-60-04	10012996	Black River 87m Upstream Of Sauk Trail Road
10/31/2016	COMPLETE	20161031-60-05	603341	Black River - Upstream Of Cth Kk
11/01/2016	COMPLETE	20161101-60-01	10044732	Black River at Beach Park Lane
11/01/2016	COMPLETE	20161101-60-02	10008178	Hartman Creek - North End Woodland Rd (Dead-End Road)
11/01/2016	COMPLETE	20161101-60-03	10014372	Black River Upstream Of Indian Mound Road

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Start Date	Status	Field ID	Station ID	Station Name
11/01/2016	COMPLETE	20161101-60-04	603234	Unnamed Creek At 12th Street

Documents

Title	Description	Author	Published	Comments
Bahr Creek at Sauk Trail	Field report	Dylan Olson	07/11/2016	
Bahr Creek at Smies		Dylan Olson	07/11/2016	
Black River Malchesky Rd (2) (50300) photo by Craig Roesler	Black River Malchesky Rd (2) (50300) photo by Craig Roesler	Roesler, Craig	10/06/2016	
Black River at Beach Lane Park	Fish and habitat assessment of the Black River at Beach Lane Park.	Jack Simenson	07/22/2016	
Black River at KK	Field data report	Dylan Olson	07/11/2016	
Black River at Sauk Trail	Field Report	Dylan Olson	07/11/2016	
Black River therm at HWY35 upstream view (50300) photo by Craig Roesler	Black River therm at HWY35 upstream view (50300) photo by Craig Roesler	Roesler, Craig	05/31/2016	
Black River therm at campground downstream view (50300) photo by Craig Roesler	Black River therm at campground downstream view (50300) photo by Craig Roesler	Roesler, Craig	05/31/2016	
Fisherman's Creek	Field report	Dylan Olson	07/11/2016	
Hartman Creek	Field data report	Dylan Olson	07/11/2016	

Budget

Budget Description:Black River Barr Creek TWA Budget **Start Date:** 03/15/2016 **End Date:** 12/31/2018

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	208	Hours	\$0.00	\$0.00	152 hours for Helker. 56 hours for Sabre.
LTE SAL	LTE Salary	40	Hours	\$13.00	\$520.00	LTE Assistance for 40 hours of fish sampling.
LTE FR	LTE Fringe				\$128.44	
LTE IND	LTE Indirect				\$104.85	
LTE TOT	LTE Total Cost				\$753.29	
SUPPLY	Supplies			\$500.00	\$0.00	LTE waders, lab supplies, sample shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	2000	Miles	\$0.72	\$1,440.00	9 trips up and back at 200 miles, plus additional mileage for TP pour point sampling. Pour point sampling will be associated with Sheboygan trend site.
MEAL	Meals	23	Meals	\$9.00	\$207.00	9 days x 2 FTE + 5 days x 1 LTE
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,647.00	
BUG	Bug Contracts	12		\$180.00	\$2,160.00	
OTHER	Other Contracts	2		\$150.00	\$300.00	2 diatom samples at pour points
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,860.29	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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Total SLOH Lab Costs: \$0.00
Total Budget: \$4,860.29

Combined Budgets: \$4,860.29
Combined SLOH: \$0.00
Combined Total: \$4,860.29

Funding

Organization	Source	Type	Amount	Start Date	End Date
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