

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** WCR\_20\_CMP13

**Name:** Dexter Lake TMDL Monitoring

**Type:** TMDL/303d Projects

**Subtype:** TMDL Development

**Status:** ACTIVE

**Start Date:** 7/1/2011

**End Date:** 9/30/2012

**Purpose:** The Purpose of this project is to conduct sampling that is required to complete a TMDL on the Dexter Lake watershed. The previous two years were used to collect enough data to list Dexter Lake on the 303D list with nutrients as an impairment. This is a 2-year project. The primary land use in the watershed is forests and agriculture. This body of water has been polluted for decades by excessive nutrients from ag runoff that has led to excessive algal blooms, lack of aquatic macrophytes and high bacteria counts. The lake is a high value recreational area with a county park and campground. Increasing complaints about excessive algal growth and poor water clarity has triggered interest with citizens. The development of a TMDL is the logical next step and would also serve a second purpose. The Yellow River sub-watershed is part of the Wisconsin River basin where another TMDL is being proposed. The data from this project will not only help a local effect in Wood County, but provide very valuable data for the Wisconsin River Study (WTWR).

**Objective:** This project is necessary because 1) it is a listed 303D water, 2) high interest among citizens, and 3) it will play a critical role in a larger concurrent project (WTWR).

Development of a TMDL as required by EPA. This TMDL will be used in conjunction, with Wood County Land and Water Conservation Department personnel, to implement land use projects to decrease agricultural runoff in the watershed.

**Comments:** Project Category 4: New Projects - TMDL

**Outcome:** This is a continuation of an ongoing project that will begin on the fiscal year and end at the end of the 2012 water year on 9/30/2012. There will be 6 river sampling events (semi monthly) from July 2012 through September 30, 2012. Sampling will consist of TSS, TP and ortho-P. There will be semi-monthly lake sampling in July and August that will be analyzed for Chl-A, TP and ortho-P and bacteria (E. coli and fecal). An aquatic plant survey will be conducted in July-August of 2012 to compare against the 2010 survey. DNR ISS will design the sampling scheme as per DNR protocol. This fiscal year will be data gathering only. No report writing will occur. TMDL and final report will be completed in FY 2013.

### Study Design:

### QA Measures:

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
BERNHARDT, ARTHUR C	TEAM_MEMBER	INACTIVE	7/1/2011	10/1/2012	Wisconsin DNR	
HAZUGA, MARK J	TEAM_MEMBER	COMPLETE	7/1/2011	10/1/2012	Wisconsin DNR	
HIREKATUR, ANN D	COORDINATOR	ACTIVE	10/4/2012	10/1/2012	Wisconsin DNR	
JACOBSON, MATTHEW J	COORDINATOR	COMPLETE	7/1/2011	10/1/2012	Wisconsin DNR	
Provost, Scott M	COORDINATOR	COMPLETE	7/1/2011	10/1/2012	Wisconsin DNR	
SCHEUNEMANN, ADAM T	TEAM_MEMBER	INACTIVE	7/1/2011	10/1/2012	Wisconsin DNR	
WILLGER, CHRISTOPHER J	TEAM_MEMBER	INACTIVE	7/1/2011	10/1/2012	Wisconsin DNR	

### Project Statuses

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Date	Reported By	Status	Comments
1/27/2011	MOLLI MACDONALD	Proposed	

### Actions

Action	Detailed Description	Start Date	End Date	Status
Aquatic Plant Monitoring or Survey	The Purpose of this project is to conduct sampling that is required to complete a TMDL on the Dexter Lake watershed. The previous two years were used to collect enough data to list Dexter Lake on the 303D list with nutrients as an impairment.	7/1/2011	6/30/2012	PROPOSED
TMDL Actions in Wisconsin	Development of a TMDL as required by EPA. This TMDL will be used in conjunction, with Wood County Land and Water Conservation Department personnel, to implement land use projects to decrease agricultural runoff in the watershed.	7/1/2011	6/30/2012	PROPOSED
TMDL Monitoring	The Purpose of this project is to conduct sampling that is required to complete a TMDL on the Dexter Lake watershed. The previous two years were used to collect enough data to list Dexter Lake on the 303D list with nutrients as an impairment.	7/1/2011	9/30/2012	COMPLETE

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

Monitor Targeted Area	The Purpose of this project is to conduct sampling that is required to complete a TMDL on the Dexter Lake watershed. The previous two years were used to collect enough data to list Dexter Lake on the 303D list with nutrients as an impairment.	7/1/2011	6/30/2012	PROPOSED
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Details: Parameter	Value/Amount	Units	Comments
Habitat Sampled			
Monitoring			
Report Writeup			

### Monitoring Stations

Station ID	Name	Comments
373416	Big Bass Lake - Deep Hole	
723122	Dexter Lake - Deep Hole	
723237	Yellow River - Below Pittsville Stp	
723128	Yellow River at Sth 54	

### Assessment Units

WBIC	Segment	Local Name	Official Name
1352800	2	Yellow River	Yellow River

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1369900	1	Dexter Lake	Dexter Lake
1370300	1	Owl Creek	Owl Creek
1405200	1	Big Bass Lake	Big Bass Lake

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT139	LAKES SPECIAL PROJECTS	7/1/2011	6/30/2012
WT155	LAKES SPECIAL PROJECTS	5/11/2012	6/30/2013

### Forms

Form Code	Form Name
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### Methods

Method Code	Method Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/2/2011	COMPLETE		373416	Big Bass Lake - Deep Hole
7/12/2011 13:30	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
7/12/2011 13:30	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
7/12/2011 14:00	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
7/12/2011 14:25	COMPLETE	YDN	723128	Yellow River at Sth 54
7/27/2011 9:45	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
7/27/2011 10:05	COMPLETE	YDN	723128	Yellow River at Sth 54
7/27/2011 10:35	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
7/27/2011 10:35	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
8/9/2011 11:20	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
8/9/2011 11:40	COMPLETE	YDN	723128	Yellow River at Sth 54
8/9/2011 12:10	COMPLETE	DL	723122	Dexter Lake - Deep Hole
8/9/2011 12:10	COMPLETE	DL	723122	Dexter Lake - Deep Hole
8/22/2011	COMPLETE		723122	Dexter Lake - Deep Hole
8/22/2011 9:40	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
8/22/2011 10:00	COMPLETE	YDN	723128	Yellow River at Sth 54
8/22/2011 10:30	COMPLETE	DL	723122	Dexter Lake - Deep Hole
9/15/2011 11:50	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
9/15/2011 13:00	COMPLETE	DL	723122	Dexter Lake - Deep Hole
9/15/2011 13:00	COMPLETE	DL	723122	Dexter Lake - Deep Hole
9/26/2011 9:50	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp

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9/26/2011 10:00	COMPLETE	YDN	723128	Yellow River at Sth 54
9/26/2011 10:25	COMPLETE	DL	723122	Dexter Lake - Deep Hole
10/12/2011 10:21	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
10/12/2011 10:42	COMPLETE	YDN	723128	Yellow River at Sth 54
10/26/2011 10:15	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
10/26/2011 10:35	COMPLETE	YDN	723128	Yellow River at Sth 54
11/8/2011 9:00	COMPLETE	YDN	723237	Yellow River - Below Pittsville Stp
11/8/2011 9:00	COMPLETE	YUP	723128	Yellow River at Sth 54
11/21/2011	COMPLETE	YDN	723128	Yellow River at Sth 54
12/15/2011 12:30	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
12/15/2011 13:00	COMPLETE	YDN	723128	Yellow River at Sth 54
12/27/2011 12:38	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
12/27/2011 12:45	COMPLETE	YDN	723128	Yellow River at Sth 54
1/9/2012	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
1/9/2012 13:38	COMPLETE	YDN	723128	Yellow River at Sth 54
1/23/2012 13:15	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
1/23/2012 13:45	COMPLETE	YDN	723128	Yellow River at Sth 54
2/6/2012 13:00	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
2/6/2012 13:15	COMPLETE	YDN	723128	Yellow River at Sth 54
2/21/2012 14:00	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
2/21/2012 14:30	COMPLETE	YDN	723128	Yellow River at Sth 54
3/8/2012 14:00	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
3/8/2012 14:30	COMPLETE	YDN	723128	Yellow River at Sth 54
4/10/2012 10:00	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
4/10/2012 10:16	COMPLETE	YDN	723128	Yellow River at Sth 54
4/26/2012 13:27	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
4/26/2012 13:40	COMPLETE	YDN	723128	Yellow River at Sth 54
5/7/2012 11:15	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
5/7/2012 11:30	COMPLETE	YDN	723128	Yellow River at Sth 54
5/30/2012	COMPLETE	NA	723122	Dexter Lake - Deep Hole
5/30/2012	COMPLETE	UYR	723237	Yellow River - Below Pittsville Stp
5/30/2012 11:45	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
5/30/2012 12:32	COMPLETE	UYR	723237	Yellow River - Below Pittsville Stp
5/30/2012 12:40	COMPLETE	LYR-1	723128	Yellow River at Sth 54
5/30/2012 12:40	COMPLETE	LYR-1	723128	Yellow River at Sth 54

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6/7/2012 9:30	COMPLETE		723122	Dexter Lake - Deep Hole
6/7/2012 9:40	COMPLETE	DL1	723122	Dexter Lake - Deep Hole
6/7/2012 10:36	COMPLETE	YDN	723128	Yellow River at Sth 54
6/7/2012 16:19	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
6/20/2012 13:51	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
6/20/2012 13:55	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
6/20/2012 14:29	COMPLETE	ULR	723237	Yellow River - Below Pittsville Stp
6/20/2012 14:29	COMPLETE	ULR	723237	Yellow River - Below Pittsville Stp
6/20/2012 14:45	COMPLETE	LYR	723128	Yellow River at Sth 54
6/20/2012 14:45	COMPLETE	LYR	723128	Yellow River at Sth 54
6/28/2012 9:45	COMPLETE	DL	723122	Dexter Lake - Deep Hole
6/28/2012 9:45	COMPLETE	DL	723122	Dexter Lake - Deep Hole
6/28/2012 10:20	COMPLETE	UYR	723237	Yellow River - Below Pittsville Stp
6/28/2012 10:20	COMPLETE	UYR	723237	Yellow River - Below Pittsville Stp
6/28/2012 10:45	COMPLETE	DYR	723128	Yellow River at Sth 54
6/28/2012 10:45	COMPLETE	DYR	723128	Yellow River at Sth 54
7/11/2012 15:08	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
7/11/2012 15:08	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
7/11/2012 15:30	COMPLETE	YDN	723128	Yellow River at Sth 54
7/11/2012 15:30	COMPLETE	YDN	723128	Yellow River at Sth 54
7/11/2012 15:45	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
7/11/2012 15:45	COMPLETE	DL-1	723122	Dexter Lake - Deep Hole
7/31/2012	COMPLETE	NA	723122	Dexter Lake - Deep Hole
7/31/2012	COMPLETE	NA	723237	Yellow River - Below Pittsville Stp
7/31/2012	COMPLETE	NA	723128	Yellow River at Sth 54
7/31/2012 11:30	COMPLETE	YEP	723237	Yellow River - Below Pittsville Stp
7/31/2012 12:05	COMPLETE	YES4	723128	Yellow River at Sth 54
7/31/2012 12:45	COMPLETE	DDH	723122	Dexter Lake - Deep Hole
8/7/2012	COMPLETE	DL1	723122	Dexter Lake - Deep Hole
8/7/2012 10:00	COMPLETE	DL1	723122	Dexter Lake - Deep Hole
8/7/2012 10:45	COMPLETE	YUP	723237	Yellow River - Below Pittsville Stp
8/7/2012 11:10	COMPLETE	YDN	723128	Yellow River at Sth 54
8/21/2012	COMPLETE	NA	723122	Dexter Lake - Deep Hole
8/21/2012	COMPLETE	YEU	723237	Yellow River - Below Pittsville Stp
8/21/2012 10:45	COMPLETE	DDH	723122	Dexter Lake - Deep Hole

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8/21/2012 11:15	COMPLETE	YER	723128	Yellow River at Sth 54
8/21/2012 11:15	COMPLETE	YER	723128	Yellow River at Sth 54
8/21/2012 12:00	COMPLETE	YEU	723237	Yellow River - Below Pittsville Stp
9/4/2012	COMPLETE	YBP	723237	Yellow River - Below Pittsville Stp
9/4/2012	COMPLETE	YFR	723128	Yellow River at Sth 54
9/4/2012	COMPLETE		723122	Dexter Lake - Deep Hole
9/4/2012	COMPLETE		723128	Yellow River at Sth 54
9/4/2012 14:00	COMPLETE	DDH	723122	Dexter Lake - Deep Hole
9/4/2012 14:25	COMPLETE	YER	723128	Yellow River at Sth 54
9/4/2012 15:00	COMPLETE	YBP	723237	Yellow River - Below Pittsville Stp
9/26/2012	COMPLETE	DDH	723122	Dexter Lake - Deep Hole
9/26/2012	COMPLETE	DDH	723122	Dexter Lake - Deep Hole
9/26/2012	COMPLETE	YEP	723237	Yellow River - Below Pittsville Stp
9/26/2012	COMPLETE	YR54	723128	Yellow River at Sth 54
9/26/2012	COMPLETE	YR54	723128	Yellow River at Sth 54
9/26/2012 13:00	COMPLETE	YEP	723237	Yellow River - Below Pittsville Stp

Documents

Title	Description	Author	Published	Comments
2010 Dexter Lake Aquatic Plant Survey	Spreadsheet	Scott Provost	1/27/2011	

Budget

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**Budget Description:** Dexter for previous WCR\_16\_CMP12      **Start Date:** 7/1/2011      **End Date:** 6/29/2012

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	299	Hours	\$13.00	\$3,887.00	
LTE FR	LTE Fringe				\$960.09	
LTE IND	LTE Indirect				\$783.77	
LTE TOT	LTE Total Cost				\$5,630.86	
SUPPLY	Supplies	1		(\$1,693.00)	(\$1,693.00)	subtract fringe and indirect from LTE wages
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage		Miles	\$0.72	\$0.00	
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging	1		\$1,508.00	\$1,508.00	Budget recreated so this was total requested
TRAVEL	Travel Total				\$1,508.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	1		\$4,894.00	\$4,894.00	Recreated SLOH total requested
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$10,339.86	

**Total WSLH Lab Costs:**                      \$0.00  
**Total Budget:**                                \$10,339.86

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<b>Budget Description:</b> Budget for Dexter Lake TMDL Monitoring - Continuation WCR 20_13 final year	<b>Start Date:</b> 7/1/2012	<b>End Date:</b> 9/30/2012
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	100	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	200	Hours	\$14.00	\$2,800.00	
LTE FR	LTE Fringe				\$691.60	
LTE IND	LTE Indirect				\$564.59	
LTE TOT	LTE Total Cost				\$4,056.19	
SUPPLY	Supplies				\$0.00	
MILEAGE	Mileage	400	Miles	\$0.72	\$288.00	
MEAL	Meals	9	Meals	\$9.00	\$81.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$369.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
EQUIP	Equipment				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,425.19	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
B152ALT	E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	WATER MICROBIOLOGY	6	\$35.56	\$213.36
B210ALT	FECAL STREPTOCOCCI	WATER MICROBIOLOGY	6	\$35.56	\$213.36
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	3	\$24.52	\$73.56
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	8	\$23.60	\$188.80
I530CLD	DISS REACTIVE PHOSPHORUS AS P (ORTHO-P) (SM 4500PE)	INORGANIC CHEMISTRY	8	\$16.67	\$133.36
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	8	\$18.80	\$150.40
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	8	\$6.36	\$50.88

<b>Total WSLH Lab Costs:</b>	\$1,023.72
<b>Total Budget:</b>	\$5,448.91

<b>Combined Budgets:</b>	\$14,765.06
<b>Combined WSLH:</b>	\$1,023.72
<b>Combined Total:</b>	\$15,788.78

Funding					
Organization	Source	Type	Amount	Start Date	End Date