

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** LPL-1552-14

**Name:** CALUMET COUNTY: CalMan Lakes WS Mgmt Plan ph 2

**Type:** Lakes Grant

**Subtype:** Large Scale Lake Planning

**Status:** COMPLETE

**Start Date:** 4/1/2014

**End Date:** 12/31/2016

**Purpose:** Calumet County Resource Management Department proposes to collect baseline data for the four lakes situated along the Calumet/Manitowoc County boarder which includes Round, Becker, Boot, and Long Lakes. The project will be divided into several phases which will ultimately result in a comprehensive lake management and implementation plan for these lakes. Phase 2 will include:

1. Water quality monitoring to assess baseline conditions of Round and Boot lakes.
2. Watershed modeling for nutrient budget.
3. Tributary flow and phosphorus load monitoring.
4. Compile available fisheries data to incorporate into plan.
5. Shoreland condition and coarse woody habitat assessment.
6. Precipitation monitoring within the watershed.
7. Website development.
8. Assess the aquatic plant community in Boot Lake utilizing point-intercept survey methods.
9. Provide for stakeholder participation and education by holding an annual project update meeting.
10. Generate annual project reports describing the project studies and data interpretations as well as intentions for further studies.

The project elements and deliverables are specified in the grant application materials submitted to the Department dated February 1, 2014.

**Objective:****Comments:** Grantee is CALUMET COUNTY**Outcome:****Study Design:****QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Calumet County,	GRANT_RECIPIENT	ACTIVE	4/1/2014	12/31/2016	Calumet County	
Cibulka, Dan	TEAM_MEMBER	ACTIVE	6/16/2014		Onterra, LLC	
Griffin, Lisa A	TEAM_MEMBER	COMPLETE	9/19/2014	9/19/2014		
Jalonen, Brent	TEAM_MEMBER	ACTIVE	7/18/2016		Calumet County	
Kingery, Ben	TEAM_MEMBER	ACTIVE	7/25/2016			
Santry, Danielle R	TEAM_MEMBER	COMPLETE	6/30/2014	5/11/2022	Calumet County	
Sengbusch, Robert	TEAM_MEMBER	ACTIVE	8/15/2014			

### Project Statuses

Date	Reported By	Status	Comments
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## Wisconsin Department of Natural Resources SWIMS Project Summary

Actions				
Action	Detailed Description	Start Date	End Date	Status
Lakes Planning Grant		4/1/2014	12/31/2016	PROPOSED
Informational Meetings		4/1/2014	12/31/2016	PROPOSED
Grant Awarded	<p>Calumet County Resource Management Department proposes to collect baseline data for the four lakes situated along the Calumet/Manitowoc County border which includes Round, Becker, Boot, and Long Lakes. The project will be divided into several phases which will ultimately result in a comprehensive lake management and implementation plan for these lakes. Phase 2 will include:</p> <ol style="list-style-type: none"> <li>1. Water quality monitoring to assess baseline conditions of Round and Boot lakes.</li> <li>2. Watershed modeling for nutrient budget.</li> <li>3. Tributary flow and phosphorus load monitoring.</li> <li>4. Compile available fisheries data to incorporate into plan.</li> <li>5. Shoreland condition and coarse woody habitat assessment.</li> <li>6. Precipitation monitoring within the watershed.</li> <li>7. Website development.</li> <li>8. Assess the aquatic plant community in Boot Lake utilizing point-intercept survey methods.</li> <li>9. Provide for stakeholder participation and education by holding an annual project update meeting.</li> <li>10. Generate annual project reports describing the project studies and data interpretations as well as intentions for further studies</li> </ol>	4/1/2014	12/31/2016	COMPLETE
Lake Management Plan Development		4/1/2014	12/31/2016	PROPOSED
Issue News/Media Release		4/1/2014	12/31/2016	PROPOSED
Aquatic Plant Monitoring or Survey		4/1/2014	12/31/2016	PROPOSED
Monitor Water Level		4/1/2014	12/31/2016	PROPOSED
Nutrient Budget Development		4/1/2014	12/31/2016	PROPOSED
Information and Education		4/1/2014	12/31/2016	PROPOSED
Monitor Water Quality or Sediment		4/1/2014	12/31/2016	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
083044	Beckers Lake - Deepest Part	
083043	Boot Lake - Deepest Part	
10043292	Deep Lake SE trib at Deep Lake Road culvert	
10043290	Deep Lake SW trib at Deep Lake Road culvert	
10043303	Long Lake - North Tributary Inlet Location	

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083033	Round Lake - Deep Hole	
10043302	Round Lake - West Culvert Inlet Location	
10043304	Unnamed Trib to Becker Lake - east culvert inlet location	

### Assessment Units

WBIC	Segment	Local Name	Official Name
68600	1	Round Lake	Round Lake
77100	1	Unnamed Creek (T20n T20e S34)	Unnamed
77300	1	Becker Lake	Becker Lake
77500	1	Long Lake (Big Long)	Long Lake
77600	1	Boot Lake	Boot Lake
1844000	2	Deep Lake	Deep Lake
3000306	1	Unnamed	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
LM020	LAKE MANAGEMENT PLANNING GRANTS	4/18/2013	6/30/2014
LM021	LAKE MANAGEMENT PLANNING GRANTS	3/26/2014	6/30/2015

### 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
5/6/2014 9:40	COMPLETE	RLB	083033	Round Lake - Deep Hole
5/6/2014 9:40	COMPLETE	RLS	083033	Round Lake - Deep Hole
5/6/2014 10:50	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
6/23/2014 13:00	COMPLETE	RLB	083033	Round Lake - Deep Hole
6/23/2014 13:00	COMPLETE	RLS	083033	Round Lake - Deep Hole
6/24/2014 9:15	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
6/24/2014 9:15	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
7/23/2014 10:30	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
7/23/2014 13:00	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
7/23/2014 13:00	COMPLETE	RLB	083033	Round Lake - Deep Hole
7/23/2014 13:00	COMPLETE	RLS	083033	Round Lake - Deep Hole
8/26/2014 11:30	COMPLETE	BOLB	083043	Boot Lake - Deepest Part

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8/26/2014 11:30	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
8/26/2014 12:45	COMPLETE	RLB	083033	Round Lake - Deep Hole
8/26/2014 12:45	COMPLETE	RLS	083033	Round Lake - Deep Hole
9/15/2014 10:30	COMPLETE	RLB	083033	Round Lake - Deep Hole
9/15/2014 10:30	COMPLETE	RLS	083033	Round Lake - Deep Hole
9/15/2014 11:30	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
9/15/2014 11:30	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
2/11/2015 12:10	COMPLETE	BELB	083044	Beckers Lake - Deepest Part
2/11/2015 12:10	COMPLETE	BELS	083044	Beckers Lake - Deepest Part
3/31/2015 8:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
3/31/2015 8:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
3/31/2015 8:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/1/2015 9:18	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/1/2015 9:18	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/1/2015 10:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
4/1/2015 10:30	COMPLETE	LOT2	10043303	Long Lake - North Tributary Inlet Location
4/9/2015 15:30	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
4/9/2015 15:45	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
4/9/2015 16:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/13/2015 8:40	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
4/13/2015 9:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
4/13/2015 9:10	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/20/2015 9:30	COMPLETE	LOT1 (AM)	10043303	Long Lake - North Tributary Inlet Location
4/20/2015 9:45	COMPLETE	BET1 (AM)	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/20/2015 15:00	COMPLETE	BET1 (PM)	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
4/20/2015 15:10	COMPLETE	LOT1 (PM)	10043303	Long Lake - North Tributary Inlet Location
4/29/2015 9:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
4/29/2015 9:20	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
5/4/2015 8:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
5/4/2015 8:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
5/11/2015 9:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
5/14/2015 11:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
5/19/2015 11:50	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
5/19/2015 12:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
5/25/2015 9:05	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location

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5/25/2015 9:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
5/25/2015 9:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
5/27/2015 9:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
5/27/2015 9:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
5/27/2015 9:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
6/1/2015 15:00	COMPLETE	SE-5	10043292	Deep Lake SE trib at Deep Lake Road culvert
6/1/2015 15:00	COMPLETE	SW-4	10043290	Deep Lake SW trib at Deep Lake Road culvert
6/4/2015 8:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
6/4/2015 8:50	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
6/11/2015 17:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
6/12/2015 8:25	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
6/12/2015 8:36	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
6/12/2015 8:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
9/8/2015 9:00	COMPLETE	ROTI	10043302	Round Lake - West Culvert Inlet Location
9/8/2015 13:15	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
9/10/2015 10:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
9/10/2015 10:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
9/21/2015 9:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
9/29/2015 8:22	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
9/29/2015 8:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
10/28/2015 9:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/6/2015 8:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/6/2015 9:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/12/2015 9:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/12/2015 9:20	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/18/2016 14:44	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/26/2016 8:49	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
10/26/2016 9:14	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location

### Documents

Title	Description	Author	Published	Comments
CalMan Lakes - Calumet and Manitowoc Counties, Wisconsin - Watershed Management Planning Project - Phase II (Final) and Phase III (Draft) Report - June 2017	Final Report of Phase II (Final) and Phase III (Draft) of the CalMan Lakes Watershed Management Planning Project	Paul Garrison, Emily Henrigillis, and Tim Hoyman, Onterra, LLC	6/1/2017	

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CalMan Lakes Watershed Planning Project - CalMan Lakes Water Quality - April 13, 2017 [Update Presentation]	Update on the CalMan Lakes Watershed Planning Project given on April 13, 2017 by Onterra, LLC.	Paul Garrison and Tim Hoyman, Onterra, LLC	4/13/2017	
In-Lake Monitoring SLOH Sheets - CalMan Watershed Management Planning Project Phase II				

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:**                      \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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