

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPT-481-15
Name: CALUMET COUNTY: LMI-DF-CalMan Watershed Management Plannin Phase 3
Type: Lakes Grant
Subtype: Lake Protection Grant
Status: COMPLETE
Start Date: 04/15/2015
End Date: 06/30/2018
Purpose: Calumet County proposes to quantify and compartmentalize nutrient budgets for the four lakes situated along the Calumet/Manitowoc County boarder which includes Round, Becker, Boot, and Long Lakes through in-lake, tributary, groundwater and watershed monitoring and modeling. Specifically, Phase 3 will include:
 1. In-lake baseline water quality monitoring of the four lakes.
 2. In-lake phosphorus profiles and sediment-water interface samples.
 3. Sediment core samples and analysis from each lake.
 4. Tributary flow, phosphorus and suspended solids load monitoring.
 5. Shallow groundwater monitoring using mini-piezometers.
 6. Watershed modeling for nutrient budget utilizing EVAAL and FLUX.
 7. Precipitation monitoring within the watershed.
 8. Watershed stakeholder and planning committee meetings.
 9. Stakeholder survey and Agricultural producers interviews.
 10. Final report summarizing the results as well as an implementation plan for this watershed and these lakes.
 The project elements and deliverables are specified in the grant application materials submitted to the Department dated January 30, 2015.

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

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Calumet County,	GRANT_RECIP	COMPLETE	04/15/2015		Calumet County	
Cibulka, Dan	TEAM_MEMBER	COMPLETE	07/19/2016		Onterra, LLC	
Gansberg, Mary K	COORDINATOR	COMPLETE	04/15/2015	04/01/2021	Wisconsin DNR	
Hanke, Todd	TEAM_MEMBER	COMPLETE	07/19/2016		Onterra, LLC	
Hoyman, Tim	TEAM_MEMBER	COMPLETE	07/19/2016		Onterra, LLC	
Santry, Danielle R	TEAM_MEMBER	COMPLETE	06/08/2016		Calumet County	
Sengbusch, Robert	TEAM_MEMBER	COMPLETE	07/19/2016			

Project Statuses

Date	Reported By	Status	Comments
12/10/2016	Mary Gansberg	Active	Project is making significant progress.
12/06/2018	Mary Gansberg	Complete	Management plan completed and uploaded

Actions

Action	Detailed Description	Start	End Date	Status
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Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Nutrient Budget Development	Calumet County proposes to quantify and compartmentalize nutrient budgets for the four lakes situated along the Calumet/Manitowoc County boarder which includes Round, Becker, Boot, and Long Lakes through in-lake, tributary, groundwater and watershed monitoring and modeling.	04/15/2015	06/30/2018	COMPLETE
Grant Awarded	Calumet County proposes to quantify and compartmentalize nutrient budgets for the four lakes situated along the Calumet/Manitowoc County boarder which includes Round, Becker, Boot, and Long Lakes through in-lake, tributary, groundwater and watershed monitoring and modeling. Specifically, Phase 3 will include: 1. In-lake baseline water quality monitoring of the four lakes. 2. In-lake phosphorus profiles and sediment-water interface samples. 3. Sediment core samples and analysis from each lake. 4. Tributary flow, phosphorus and suspended solids load monitoring. 5. Shallow groundwater monitoring using mini-piezometers. 6. Watershed modeling for nutrient budget utilizing EVAAL and FLUX. 7. Precipitation monitoring within the watershed. 8. Watershed stakeholder and planning committee meetings. 9. Stakeholder survey and Agricultural producers interviews. 10. Final report summarizing the results as well as an implementation plan for this watershed and these lakes.	04/15/2015	06/30/2017	COMPLETE

Monitoring Stations

Station ID	Name	Comments
083044	Beckers Lake - Deepest Part	
083043	Boot Lake - Deepest Part	
363310	Long Lake - Deep Hole	
10044772	Long Lake - Groundwater Site 14	
10044776	Long Lake - Groundwater Site 26	
10043303	Long Lake - North Tributary Inlet Location	
083033	Round Lake - Deep Hole	
10044774	Round Lake - Groundwater Sites 3 and 3.5	
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
50700	3	Sheboygan River	Sheboygan River
59600	1	Unnamed Trib to Sheboygan R	Unnamed
68600	1	Round Lake	Round Lake

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
71000	3	Manitowoc River	Manitowoc River
75900	1	North Branch Manitowoc River	North Branch Manitowoc River
75900	2	North Branch Manitowoc River	North Branch Manitowoc River
76000	1	Unnamed Stream (T19n, R20e,S25)	Unnamed
76100	1	Unnamed Creek (T19n R22e S23)	Unnamed
76200	1	Unnamed Creek (T19n R20e S23)	Unnamed
76300	1	Unnamed Creek (T19n R20e S15)	Unnamed
76400	1	Unnamed Creek (T19n R20e S15)	Unnamed
76500	1	Ditch to the North Manitowoc River	Unnamed
76700	1	Unnamed Creek (T19n R20e S4)	Unnamed
76800	1	Hilbert Creek	Unnamed
76900	1	Spring Creek	Spring Creek
77000	1	Black Creek	Black Creek
77100	1	Unnamed Creek (T20n T20e S34)	Unnamed
77200	1	Grass Lake	Grass Lake
77300	1	Becker Lake	Becker Lake
77500	1	Long Lake (Big Long)	Long Lake
77600	1	Boot Lake	Boot Lake
77700	1	Un Lake	Unnamed
77800	1	Un Lake	Unnamed
77900	1	Manitowoc R. So. Branch	South Branch Manitowoc River
77900	2	Manitowoc R. So. Branch	South Branch Manitowoc River
78200	1	Killsnake River	Killsnake River
78300	1	Unnamed Trib (T18n, R19e, S01)	Unnamed
78400	1	Unnamed Trib (T19n, R19e, S27)	Unnamed
78500	1	Unnamed Trib (T19n, R19e, S28)	Unnamed
78600	1	Unnamed Trib (T19n, R19e, S21)	Unnamed
78700	1	Cedar Creek	Cedar Creek
78900	1	Hayton Creek	Hayton Creek
79800	1	Hayton Millpond	Hayton Pond 104
79900	1	Pine Creek	Pine Creek
79900	2	Pine Creek	Pine Creek
80000	1	Unnamed Trib (T18n, R20e, S21)	Unnamed
80100	1	Unnamed Trib (T18n, R20e, S27)	Unnamed
80200	1	Jordon Creek	Jordan Creek
80200	2	Jordon Creek	Jordan Creek
80300	1	Unnamed Trib (T17n, R20e, S11)	Unnamed
80500	1	Schildhauer Pond	Schildhauer Pond
81200	1	Chilton Millpond	Chilton Millpond 75
81300	1	Unnamed Trib (T18n, R19e, S13)	Unnamed
81400	1	Unnamed Trib (T18n, R19e, S26)	Unnamed
81500	1	Stony Brook	Stony Brook
81500	2	Stony Brook	Stony Brook
81700	1	Unnamed Trib (T17n, R19e, S16)	Unnamed
115700	1	Un Lake	Unnamed
118000	2	East River	East River
125100	2	Plum Creek	Plum Creek
125100	3	Plum Creek	Plum Creek

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
125500	2	Unnamed Trib to Plum Cr	Unnamed
125600	1	Unnamed Creek(T21n,R19e,S36)	Unnamed
126800	2	Kankapot Creek	Kankapot Creek
126900	1	Local Water	Unnamed
127000	1	Local Water	Unnamed
127700	1	Garners Creek	Garners Creek
131100	1	Lake Winnebago	Lake Winnebago
131100	2	High Cliff SP - Lake Winnebago Beach	Lake Winnebago
131130	1	Unnamed Creek	Unnamed
131200	1	Unnamed Streams	Unnamed
131300	1	Unamed	Unnamed
131400	1	Unamed	Unnamed
131500	1	Mill Creek	Mill Creek
131600	1	Mud Creek	Mud Creek
131620	1	WETLAND TRIBUTARY TO MUD CREEK	Unnamed
131700	1	Roberts Creek	Roberts Creek
131900	1	Johnson Creek	Johnson Creek
132100	1	Unnamed (Brothertown) Creek	Unnamed
3000057	1	Unnamed Creek	Unnamed
3000135	1	WETLAND TRIBUTARY TO THE NORTH BRANCH MANITOWOC RIVER	Unnamed
3000306	1	Unnamed	Unnamed
5021798	1	Unnamed Stream	Unnamed
5021964	1	Unnamed Stream	Unnamed
5021999	1	Unnamed Stream	Unnamed
5022060	1	Unnamed Stream	Unnamed
5022083	1	Unnamed Stream	Unnamed
5022125	1	Unnamed Stream	Unnamed
5022136	1	Unnamed Tributary to Garners Creek	Unnamed
5022162	1	Unnamed Trib to Garners Creek	Unnamed
5022198	1	Unnamed Trib to Garners Creek	Unnamed
5022241	1	Unnamed	Unnamed
5022391	1	Unnamed	Unnamed
5022562	1	Unnamed Stream	Unnamed
5022696	1	Unnamed Stream	Unnamed
5024409	1	Unnamed Stream	Unnamed
5024513	1	Unnamed Stream	Unnamed
5025367	1	Local Water	Unnamed
5025587	1	Unnamed Stream	Unnamed
5553969	1	Local Water	Unnamed
5554120	1	Local Water	Unnamed
5554199	1	Local Water	Unnamed
5554467	1	Local Water	Unnamed
5554719	1	Local Water	Unnamed
5554754	1	Local Water	Unnamed
5554781	1	Local Water	Unnamed
5554832	1	Local Water	Unnamed
5554992	1	Local Water	Unnamed

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
5555007	1	Local Water	Unnamed
5555265	1	Local Water	Unnamed
5560292	1	Local Water	Unnamed
5590421	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
CF017	LAKE PROTECTION GRANTS	03/26/2014	06/30/2015
CF018	LAKE PROTECTION GRANTS	03/27/2015	06/30/2016
CF020	LAKE PROTECTION GRANTS	12/19/2016	06/30/2018

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
02/11/2015 10:30	COMPLETE	LLB	363310	Long Lake - Deep Hole
02/11/2015 10:30	COMPLETE	LLS	363310	Long Lake - Deep Hole
03/13/2015 13:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/13/2015 13:30	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/26/2015 08:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
04/09/2015 09:40	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
04/09/2015 10:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/15/2015 11:15	COMPLETE	ROLB	083033	Round Lake - Deep Hole
04/15/2015 11:15	COMPLETE	ROLS	083033	Round Lake - Deep Hole
04/15/2015 11:45	COMPLETE	LOLB	363310	Long Lake - Deep Hole
04/15/2015 11:45	COMPLETE	LOLS	363310	Long Lake - Deep Hole
04/15/2015 13:00	COMPLETE	BELB	083044	Beckers Lake - Deepest Part
04/15/2015 13:00	COMPLETE	BELS	083044	Beckers Lake - Deepest Part
04/16/2015 09:20	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
04/16/2015 09:20	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
06/11/2015 11:15	COMPLETE	ROLB	083033	Round Lake - Deep Hole
06/11/2015 11:15	COMPLETE	ROLS	083033	Round Lake - Deep Hole
06/16/2015 11:15	COMPLETE	ROL-GW#3	10044774	Round Lake - Groundwater Sites 3 and 3.5
06/16/2015 12:00	COMPLETE	ROL-GW#3.5	10044774	Round Lake - Groundwater Sites 3 and 3.5
06/17/2015 09:45	COMPLETE	LOL-GW#14	10044772	Long Lake - Groundwater Site 14
06/17/2015 14:16	COMPLETE	LOL-GW#26	10044776	Long Lake - Groundwater Site 26
06/24/2015 11:45	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
06/24/2015 11:45	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
07/22/2015 11:00	COMPLETE	ROLB	083033	Round Lake - Deep Hole
07/22/2015 11:00	COMPLETE	ROLS	083033	Round Lake - Deep Hole
07/23/2015 10:45	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
07/23/2015 10:45	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
08/18/2015 12:45	COMPLETE	ROLB	083033	Round Lake - Deep Hole

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
08/18/2015 12:45	COMPLETE	ROLS	083033	Round Lake - Deep Hole
08/27/2015 09:30	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
08/27/2015 09:30	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
10/05/2015 10:00	COMPLETE	R18.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R21.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R24.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R27.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R3.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R31.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R34.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R37.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R41.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R42.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R44.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R46.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R47.5	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R49.0	083033	Round Lake - Deep Hole
10/05/2015 10:00	COMPLETE	R50.0	083033	Round Lake - Deep Hole
10/05/2015 12:30	COMPLETE	BE12.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE19.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE21.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE24.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE27.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE3.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE30.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE305	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE37.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE41.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE42.5	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE44.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE46.0	083044	Beckers Lake - Deepest Part
10/05/2015 12:30	COMPLETE	BE46.5	083044	Beckers Lake - Deepest Part
10/05/2015 14:45	COMPLETE	LOL 15.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 22.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 25.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 26.5	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 28.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 29.5	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 3.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOL 31.5	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	LOLO 32.0	363310	Long Lake - Deep Hole
10/05/2015 14:45	COMPLETE	R15.0	363310	Long Lake - Deep Hole
11/18/2015 08:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/19/2015 10:15	COMPLETE	BOOTB	083043	Boot Lake - Deepest Part
11/19/2015 10:15	COMPLETE	BOOTS	083043	Boot Lake - Deepest Part
11/19/2015 11:00	COMPLETE	BECKB	083044	Beckers Lake - Deepest Part
11/19/2015 11:00	COMPLETE	BECKS	083044	Beckers Lake - Deepest Part
11/19/2015 12:50	COMPLETE	LONG B	363310	Long Lake - Deep Hole

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
11/19/2015 12:50	COMPLETE	LONG S	363310	Long Lake - Deep Hole
11/19/2015 12:50	COMPLETE	ROUND B	083033	Round Lake - Deep Hole
11/19/2015 13:50	COMPLETE	ROUND S	083033	Round Lake - Deep Hole
02/09/2016 10:00	COMPLETE	ROL 3.0	083033	Round Lake - Deep Hole
02/09/2016 10:00	COMPLETE	ROL 48.0	083033	Round Lake - Deep Hole
02/09/2016 13:30	COMPLETE	LOL 29.0	363310	Long Lake - Deep Hole
02/09/2016 13:30	COMPLETE	LOL 3.0	363310	Long Lake - Deep Hole
02/09/2016 14:30	COMPLETE	BEL 3.0	083044	Beckers Lake - Deepest Part
02/09/2016 14:30	COMPLETE	BEL 45.0	083044	Beckers Lake - Deepest Part
02/09/2016 16:30	COMPLETE	BOL 12.0	083043	Boot Lake - Deepest Part
02/09/2016 16:30	COMPLETE	BOL 3.0	083043	Boot Lake - Deepest Part
03/09/2016 08:40	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/09/2016 08:50	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/09/2016 09:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/10/2016 13:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/10/2016 13:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/10/2016 13:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/11/2016 08:45	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/11/2016 08:50	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/11/2016 09:05	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/14/2016 08:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/14/2016 08:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/14/2016 08:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/15/2016 08:30	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/15/2016 08:35	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/15/2016 08:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/15/2016 15:40	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/15/2016 17:50	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/16/2016 08:35	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/16/2016 08:45	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/16/2016 08:55	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/16/2016 14:45	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/16/2016 14:55	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/16/2016 15:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/16/2016 22:10	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/16/2016 22:20	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/17/2016 09:30	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/17/2016 10:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/17/2016 10:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/18/2016 08:35	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/18/2016 08:45	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/18/2016 09:05	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/23/2016 10:10	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/23/2016 10:20	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/23/2016 10:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/24/2016 09:50	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/24/2016 10:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/27/2016 11:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
03/27/2016 11:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/27/2016 11:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/28/2016 08:20	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/28/2016 08:30	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/28/2016 08:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/30/2016 12:45	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/30/2016 13:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/30/2016 13:15	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/31/2016 11:45	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
03/31/2016 12:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/31/2016 12:15	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/31/2016 17:30	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
03/31/2016 17:40	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
03/31/2016 17:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/01/2016 09:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/01/2016 09:40	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
04/01/2016 09:50	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
04/04/2016 11:48	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
04/04/2016 11:57	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
04/04/2016 12:05	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/06/2016 08:50	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
04/06/2016 09:00	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
04/06/2016 09:10	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/21/2016	COMPLETE	BOOT 11'	083043	Boot Lake - Deepest Part
04/21/2016 10:00	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
04/21/2016 10:00	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
04/21/2016 10:00	COMPLETE	BOOT 7'	083043	Boot Lake - Deepest Part
04/21/2016 11:17	COMPLETE	LOLB	363310	Long Lake - Deep Hole
04/21/2016 11:17	COMPLETE	LOLS	363310	Long Lake - Deep Hole
04/21/2016 12:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
04/21/2016 12:45	COMPLETE	BECKER 12'	083044	Beckers Lake - Deepest Part
04/21/2016 12:45	COMPLETE	BECKER 21'	083044	Beckers Lake - Deepest Part
04/21/2016 12:45	COMPLETE	BECKER 30'	083044	Beckers Lake - Deepest Part
04/21/2016 12:45	COMPLETE	BECKER 39'	083044	Beckers Lake - Deepest Part
04/21/2016 12:45	COMPLETE	BELB	083044	Beckers Lake - Deepest Part
04/21/2016 12:45	COMPLETE	BELS	083044	Beckers Lake - Deepest Part
04/21/2016 14:30	COMPLETE	LONG 12'	363310	Long Lake - Deep Hole
04/21/2016 14:30	COMPLETE	LONG 21'	363310	Long Lake - Deep Hole
04/21/2016 14:30	COMPLETE	ROLB	083033	Round Lake - Deep Hole
04/21/2016 14:30	COMPLETE	ROLS	083033	Round Lake - Deep Hole
04/21/2016 14:30	COMPLETE	ROUND 15'	083033	Round Lake - Deep Hole
04/21/2016 14:30	COMPLETE	ROUND 27'	083033	Round Lake - Deep Hole
04/21/2016 14:30	COMPLETE	ROUND 39'	083033	Round Lake - Deep Hole
04/26/2016 09:05	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
04/26/2016 09:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
05/10/2016 10:16	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
05/26/2016 09:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
05/29/2016 17:25	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
06/02/2016 10:30	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
06/06/2016 13:04	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
06/10/2016 21:49	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
06/10/2016 22:13	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
06/10/2016 22:36	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
06/15/2016 13:00	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
06/16/2016 08:48	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
06/16/2016 08:56	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
06/16/2016 09:02	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
06/22/2016 12:00	COMPLETE	ROLB	083033	Round Lake - Deep Hole
06/22/2016 12:00	COMPLETE	ROLS	083033	Round Lake - Deep Hole
06/23/2016	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
06/23/2016	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
07/19/2016 12:45	COMPLETE	ROLB	083033	Round Lake - Deep Hole
07/19/2016 12:45	COMPLETE	ROLS	083033	Round Lake - Deep Hole
07/19/2016 13:50	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
07/19/2016 13:50	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
08/18/2016 08:30	COMPLETE	BOLB	083043	Boot Lake - Deepest Part
08/18/2016 08:30	COMPLETE	BOLS	083043	Boot Lake - Deepest Part
08/23/2016 11:30	COMPLETE	ROLB	083033	Round Lake - Deep Hole
08/23/2016 11:30	COMPLETE	ROLS	083033	Round Lake - Deep Hole
08/24/2016 09:03	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
09/07/2016 09:17	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
09/07/2016 16:50	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
09/19/2016 17:15	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/07/2016 08:56	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/07/2016 09:04	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
10/10/2016 10:10	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/11/2016 13:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/12/2016 16:45	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/12/2016 16:55	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
10/26/2016 13:32	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/27/2016 08:52	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
10/27/2016 09:03	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
10/27/2016 09:17	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/28/2016 10:14	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
10/28/2016 10:25	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
10/28/2016 10:34	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/08/2016 09:14	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/23/2016 11:08	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/28/2016 09:02	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/28/2016 09:10	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/29/2016 10:40	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
11/29/2016 10:51	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/29/2016 11:02	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
11/30/2016 11:54	COMPLETE	ROT1	10043302	Round Lake - West Culvert Inlet Location
11/30/2016 12:03	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
11/30/2016 12:12	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
12/01/2016 10:53	COMPLETE	BET1	10043304	Unnamed Trib to Becker Lake - east culvert inlet location
12/01/2016 11:03	COMPLETE	LOT1	10043303	Long Lake - North Tributary Inlet Location
06/23/2017 10:45	COMPLETE	BK3	083044	Beckers Lake - Deepest Part
06/23/2017 10:45	COMPLETE	BK34	083044	Beckers Lake - Deepest Part
06/23/2017 10:45	COMPLETE	BK40	083044	Beckers Lake - Deepest Part
06/23/2017 10:45	COMPLETE	BK46	083044	Beckers Lake - Deepest Part
06/23/2017 11:45	COMPLETE	RD3	083033	Round Lake - Deep Hole
06/23/2017 11:45	COMPLETE	RD35	083033	Round Lake - Deep Hole
06/23/2017 11:45	COMPLETE	RD42	083033	Round Lake - Deep Hole
06/23/2017 11:45	COMPLETE	RD48	083033	Round Lake - Deep Hole
06/23/2017 13:25	COMPLETE	LG28	363310	Long Lake - Deep Hole
06/23/2017 13:25	COMPLETE	LG3	363310	Long Lake - Deep Hole
06/23/2017 13:25	COMPLETE	LG30	363310	Long Lake - Deep Hole
06/23/2017 13:25	COMPLETE	LG33	363310	Long Lake - Deep Hole
06/23/2017 14:30	COMPLETE	BT12	083043	Boot Lake - Deepest Part
06/23/2017 14:30	COMPLETE	BT13	083043	Boot Lake - Deepest Part
06/23/2017 14:30	COMPLETE	BT14	083043	Boot Lake - Deepest Part
06/23/2017 14:30	COMPLETE	BT3	083043	Boot Lake - Deepest Part
07/28/2017 10:00	COMPLETE	BK25	083044	Beckers Lake - Deepest Part
07/28/2017 10:00	COMPLETE	BK3	083044	Beckers Lake - Deepest Part
07/28/2017 10:00	COMPLETE	BK40	083044	Beckers Lake - Deepest Part
07/28/2017 10:00	COMPLETE	BK46	083044	Beckers Lake - Deepest Part
07/28/2017 11:00	COMPLETE	RD25	083033	Round Lake - Deep Hole
07/28/2017 11:00	COMPLETE	RD3	083033	Round Lake - Deep Hole
07/28/2017 11:00	COMPLETE	RD42	083033	Round Lake - Deep Hole
07/28/2017 11:00	COMPLETE	RD45	083033	Round Lake - Deep Hole
07/28/2017 12:40	COMPLETE	BT10	083043	Boot Lake - Deepest Part
07/28/2017 12:40	COMPLETE	BT13	083043	Boot Lake - Deepest Part
07/28/2017 12:40	COMPLETE	BT3	083043	Boot Lake - Deepest Part
07/28/2017 12:40	COMPLETE	BT7	083043	Boot Lake - Deepest Part
07/28/2017 13:30	COMPLETE	LG20	363310	Long Lake - Deep Hole
07/28/2017 13:30	COMPLETE	LG26	363310	Long Lake - Deep Hole
07/28/2017 13:30	COMPLETE	LG29	363310	Long Lake - Deep Hole
07/28/2017 13:30	COMPLETE	LG3	363310	Long Lake - Deep Hole
09/18/2017 10:30	COMPLETE	2RD25	083033	Round Lake - Deep Hole
09/18/2017 10:30	COMPLETE	2RD3	083033	Round Lake - Deep Hole
09/18/2017 10:30	COMPLETE	2RD42	083033	Round Lake - Deep Hole
09/18/2017 10:30	COMPLETE	2RD45	083033	Round Lake - Deep Hole
09/18/2017 11:15	COMPLETE	2BK25	083044	Beckers Lake - Deepest Part
09/18/2017 11:15	COMPLETE	2BK3	083044	Beckers Lake - Deepest Part
09/18/2017 11:15	COMPLETE	2BK35	083044	Beckers Lake - Deepest Part
09/18/2017 11:15	COMPLETE	2BK42	083044	Beckers Lake - Deepest Part
09/18/2017 13:45	COMPLETE	2LG29	363310	Long Lake - Deep Hole
09/18/2017 13:45	COMPLETE	2LG3	363310	Long Lake - Deep Hole
09/18/2017 14:00	COMPLETE	2BT10	083043	Boot Lake - Deepest Part
09/18/2017 14:00	COMPLETE	2BT13	083043	Boot Lake - Deepest Part
09/18/2017 14:00	COMPLETE	2BT3	083043	Boot Lake - Deepest Part
09/18/2017 14:00	COMPLETE	2BT7	083043	Boot Lake - Deepest Part

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
05/25/2018 14:00	COMPLETE		083044	Beckers Lake - Deepest Part

Documents

Title	Description	Author	Published	Comments
CalMan Lakes Watershed Management Plan	This plan outlines the large research and planning effort to address chronic water quality issues in four lakes known collectively as the CalMan lakes; Long Lake in Manitowoc County and Round, Boot, and Becker lakes in Calumet County. These four lakes are in the same drainage system with Round and Boot lakes being headwater lakes which drain to Long Lake; and Long Lake then drains into downstream Becker Lake. Becker Lake is drained via an unnamed tributary to Spring Creek which ultimately flows into the Manitowoc River. This study set out to determine nutrient load budgets for all four lakes and develop a Nine Key Element Plan (9KE) to address the excessive nutrient levels and remove each lake from the Wisconsin impaired waters list.	Paul Garrison, Emily Henrigillis, and Tim Hoyman - Onterra, LLC	09/01/2018	
CalMan Lakes Watershed Management Planning Project	Calumet and Manitowoc County lakes final WMP.	Onterra LLC	04/01/2018	

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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