

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** East\_TWA\_6\_2016  
**Name:** Pine and Calvin Creek Frontal Lake Michigan TWA WQM Plan, 2017  
**Type:** Targeted Watershed Approach  
**Subtype:** Planning (WQ, Nine Key Element)  
**Status:** COMPLETE  
**Start Date:** 05/01/2016  
**End Date:** 12/31/2018  
**Purpose:** Targeted watershed assessment for the Pine Creek subwatershed under the planning category. Assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan.  
**Objective:**  
**Comments:**  
**Outcome:**  
**Study Design:** Monitoring will consist of the following:
 

1. Six monthly water chemistry samples during the growing season for TP, N, and TSS.
2. Continuous temperature meters at two locations during the growing season .
3. Quantitative and qualitative habitat assessments.
4. Fish surveys at six locations.
5. Macroinvertebrate samples at six locations.
6. Diatom samples at two locations.

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

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Gansberg, Mary K	PROJECT_LEAD	COMPLETE	05/01/2016	12/31/2099	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	ACTIVE	11/23/2019		Wisconsin DNR	
PAPPAS, RYAN J	TEAM_MEMBER	ACTIVE	05/01/2016	12/31/2099	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
02/22/2016	Mary Gansberg	Proposed	
11/03/2016	Mary Gansberg	Progress: 50-75% Complete	All field work completed in 2016.
12/10/2016	Mary Gansberg	Progress: 50-75% Complete	All data generated entered in SWIMS. Draft report started.

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor Targeted Watershed Area (TWA)	Targeted watershed assessment for the Pine Creek subwatershed under the planning category. Assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan.	05/01/2016	12/31/2016	COMPLETE
Monitor Fish Community	Targeted watershed assessment for the Pine Creek subwatershed under the planning category. Assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan.	05/01/2016	12/31/2016	COMPLETE
Monitor Water Quality or Sediment	Targeted watershed assessment for the Pine Creek subwatershed under the planning category. Assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan.	05/01/2016	12/31/2016	COMPLETE

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Action	Detailed Description	Start	End Date	Status
Natural Community Review or Change	Natural Community validation or recommended changes or updates based on analysis of fish species found in recent surveys: Station 10045061, Calvin Creek 200 meters DS South 26th Street was modeled as a WARM HEADWATER but is recommended as a Cool Warm Headwater based on the 2017 Natural Community temperature evaluation analysis tool.	01/16/2018		PROPOSED
Natural Community Review or Change	Station 10044972, Calvin Creek 15 meters US Clover Road was modeled as WARM HEADWATER but is recommended as a Cool Warm Headwater based on the 2017 Natural Community temperature evaluation analysis tool.	01/16/2018		PROPOSED
Monitor or Assess Watershed Condition	Assess the condition of all the lakes within the Pine and Calvin Creeks Subwatershed since this study only focused on streams.	01/16/2018		PROPOSED
Natural Community Review or Change	Station 10045063, Pine Creek 25 Meters US Gass Lake Road was modeled as a WARM HEADWATER but is recommended as a Cool Warm Headwater based on the 2017 Natural Community temperature evaluation analysis tool.	01/16/2018		PROPOSED
Natural Community Review or Change	Station 10016013, Pine Creek above Cth U was modeled as a WARM HEADWATER but is recommended as a Cool Cold Headwater based on the 2017 Natural Community temperature evaluation analysis tool.	01/16/2018		PROPOSED
Monitor or Propose 303(d) Listing	Calvin Creek should be added to the state's 303d List of impaired waters due to the total phosphorus concentrations exceeding the WisCALM guidance.	01/16/2018		PROPOSED

### Monitoring Stations

Station ID	Name	Comments
10044972	Calvin Creek 15 meters US Clover Road	
10045061	Calvin Creek 200 meters DS South 26th Street	
363227	Calvin Creek at Cth Ls (Bi Sur)	
10016013	Pine Cr. - Above Cth U	
10045064	Pine Creek 120 Meters DS Carstens Road	
10045063	Pine Creek 25 Meters US Gass Lake Road	
363295	Pine Creek at Carstens Lake Rd	
363296	Pine Creek at Center Road	
10016345	Pine Crk. - Above And Under Ls Bridge	

### Assessment Units

WBIC	Segment	Local Name	Official Name
66300	1	Pine Creek	Pine Creek
66300	2	Pine Creek	Pine Creek
66300	3	Pine Creek	Pine Creek
66900	1	Calvin Creek	Calvin Creek

### Lab Account Codes

## Wisconsin Department of Natural Resources SWIMS Project Summary

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

### Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
CBSM-TEST	Macroinvertebrate Field Data
QUAL_FISH_HAB_LES	Qualitative Fish Habitat Less Than 10 M
WADEABLE_MACRO_I	Wadeable Macroinvertebrate Field & Habitat Data

### Methods

Method Code	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
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
04/26/2016 16:00	COMPLETE		10045061	Calvin Creek 200 meters DS South 26th Street
04/26/2016 16:00	COMPLETE		10016345	Pine Crk. - Above And Under Ls Bridge
05/15/2016 16:50	COMPLETE	PCLSB-2016-MAY	10016345	Pine Crk. - Above And Under Ls Bridge
05/15/2016 17:15	COMPLETE	CCCLS-2016-MAY	363227	Calvin Creek at Cth Ls (Bi Sur)
06/13/2016 17:55	COMPLETE	PCLSB-2016-JUNE	10016345	Pine Crk. - Above And Under Ls Bridge
06/13/2016 18:15	COMPLETE	CCCLS-2016-JUNE	363227	Calvin Creek at Cth Ls (Bi Sur)
06/14/2016 10:00	COMPLETE		10045061	Calvin Creek 200 meters DS South 26th Street
06/14/2016 15:00	COMPLETE		10045064	Pine Creek 120 Meters DS Carstens Road
06/14/2016 16:00	COMPLETE		10045063	Pine Creek 25 Meters US Gass Lake Road
06/15/2016 13:00	COMPLETE		10016013	Pine Cr. - Above Cth U
07/20/2016 16:00	COMPLETE	PCLSB-2016-JULY	10016345	Pine Crk. - Above And Under Ls Bridge
07/20/2016 16:20	COMPLETE	CCCLS-2016-JULY	363227	Calvin Creek at Cth Ls (Bi Sur)
08/23/2016 16:15	COMPLETE	PCLSB-2016-AUGU	10016345	Pine Crk. - Above And Under Ls Bridge
08/23/2016 16:35	COMPLETE	CCCLS-2016-AUGU	363227	Calvin Creek at Cth Ls (Bi Sur)
09/20/2016 17:00	COMPLETE	PCLSB-2016-SEP	10016345	Pine Crk. - Above And Under Ls Bridge
09/20/2016 17:20	COMPLETE	CCCLS-2016-SEP	363227	Calvin Creek at Cth Ls (Bi Sur)
09/29/2016 16:00	COMPLETE	201609293602	10045064	Pine Creek 120 Meters DS Carstens Road
10/04/2016 13:00	COMPLETE	201610043605	363227	Calvin Creek at Cth Ls (Bi Sur)
10/04/2016 14:00	COMPLETE	201610043604	10016345	Pine Crk. - Above And Under Ls Bridge
10/04/2016 15:00	COMPLETE	201610043603	10045063	Pine Creek 25 Meters US Gass Lake Road
10/18/2016 09:00	COMPLETE	201610183609	10045061	Calvin Creek 200 meters DS South 26th Street
10/18/2016 11:00	COMPLETE	201610183610	10044972	Calvin Creek 15 meters US Clover Road
10/19/2016 16:20	COMPLETE	PCLSB-2016-OCTO	10016345	Pine Crk. - Above And Under Ls Bridge
10/19/2016 16:35	COMPLETE	CCCLS-2016-OCTO	363227	Calvin Creek at Cth Ls (Bi Sur)

### Documents

Title	Description	Author	Published	Comments
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Title	Description	Author	Published	Comments
2016 Total Phosphorus Monitoring Report - Calvin Creek at CTH LS	This project is a targeted watershed assessment for the Pine Creek subwatershed under the planning category. The goal is to assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan. WAV Volunteers were selected to monitor total phosphorus levels at two sites in the Pine Creek subwatershed for this project.	Ilana Haimes	01/10/2017	
2016 Total Phosphorus Monitoring Report - Pine Creek- above and under LS bridge	This project is a targeted watershed assessment for the Pine Creek subwatershed under the planning category. The goal is to assess the overall chemical, physical and biological condition of both Pine Creek and Calvin Creek which discharge to Lake Michigan. WAV Volunteers were selected to monitor total phosphorus levels at two sites in the Pine Creek subwatershed for this project.	Ilana Haimes	01/10/2017	
CALVIN Creek at S.26 ST START OF STATION (66900) PHOTO BY MARY GANSBERG	CALVIN Creek at S.26 ST START OF STATION (66900) PHOTO BY MARY GANSBERG	Gansberg, Mary	06/14/2016	
Calvin Creek 15 meters US Clover Road: Natural Community	Calvin Creek 15 meters US Clover Road: Natural Community	Gansberg, Mary	06/24/2017	
Calvin Creek 200 meters DS South 26th Natural Community Validation 2017	Calvin Creek 200 meters DS South 26th Natural Community Validation 2017	Gansberg, Mary	06/22/2017	
Calvin Creek 200 meters DS South 26th Street NC Validation 2017	Calvin Creek 200 meters DS South 26th Street NC Validation 2017	Gansberg, Mary	06/07/2017	
Calvin Creek Clover Rd (1) (66900) photo	Calvin Creek Clover Rd (1) (66900) photo	Gansberg, Mary	10/18/2016	
Calvin Creek Clover Rd (2) (66900) photo	Calvin Creek Clover Rd (2) (66900) photo	Gansberg, Mary	10/18/2016	
Calvin Creek County Trunk Hwy LS (1) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (1) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (2) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (2) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (3) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (3) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (4) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (4) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (5) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (5) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (6) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (6) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek County Trunk Hwy LS (7) (66900) photo by Mary Gansberg	Calvin Creek County Trunk Hwy LS (7) (66900) photo by Mary Gansberg	Gansberg, Mary	10/04/2016	
Calvin Creek S. 26th street (1) (66900) photo	Calvin Creek S. 26th street (1) (66900) photo		10/18/2016	
Calvin Creek S. 26th street	Calvin Creek S. 26th street (2) (66900)		10/18/2016	

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<b>Title</b>	<b>Description</b>	<b>Author</b>	<b>Published</b>	<b>Comments</b>
(2) (66900) photo	photo			
Calvin Creek at Clover Rd Downstream of station (66900) photo	Calvin Creek at Clover Rd Downstream of station (66900) photo		06/06/2016	
Calvin Creek at Clover Rd Upstream of station (66900) photo	Calvin Creek at Clover Rd Upstream of Gansberg, Mary station (66900) photo		06/06/2016	
Calvin Creek at Clover Road EOS	end of station	pappas	06/06/2016	
Calvin Creek at Clover Road SOS	start of station	pappas	06/06/2016	
Calvin Creek at S. 26 St. end of station (66900) photo by Mary Gansberg	Calvin Creek at S. 26 St. end of station (66900) photo by Mary Gansberg	Gansberg, Mary	06/14/2016	
Calvin Creek at South 26th Street EOS	fish assessment and habitat surveys	pappas	06/14/2016	SWIMS: 10045061
Calvin Creek at South 26th Street SOS	fish assessment and habitat surveys	pappas	06/14/2016	SWIMS: 10045061
Perched Culvert on Calvin Creek downstream CTH LS		Ryan Pappas	10/04/2016	perched culvert
Perched Culvert on Calvin Creek downstream south 26th street		Ryan Pappas	10/04/2016	Perched Culvert
Pine Cr at Carstens Rd end of station (66300) photo by Mary Gansberg	Pine Cr at Carstens Rd end of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek CTH U EOS-small	Pine Creek CTH U EOS-small	Gansberg, Mary	06/15/2016	
Pine Creek 25 Meters US Gass Lake Road NC Validation 2017	Both intolerant and tolerant species are outside the expected range, therefore the difference in NC is likely human-caused so NC should not be changed. (Mary)	Gansberg, Mary	06/07/2017	
Pine Creek Gass Lake Rd EOS-Small	Pine Creek Gass Lake Rd EOS-Small	gANSBERG, mARY	06/15/2016	
Pine Creek at CTH U EOS	fish assessment and habitat surveys	pappas	06/15/2016	SWIMS: 10016013
Pine Creek at CTH U SOS	Fish assessment and habitat surveys	pappas	06/15/2016	SWIMS: 10016013
Pine Creek at Carstens Rd start of station (66300) photo by Mary Gansberg	Pine Creek at Carstens Rd start of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek at Carstens Road EOS	Fish assessment and Habitat	pappas	06/15/2016	SWIMS: 10045064
Pine Creek at Carstens Road SOS	Fish assessment and habitat at site	pappas	06/15/2016	SWIMS: 10045064
Pine Creek at County Trunk Hwy U end of station (66300) photo by Mary Gansberg	Pine Creek at County Trunk Hwy U end of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek at County Trunk Hwy U start of station (66300) photo by Mary Gansberg	Pine Creek at County Trunk Hwy U start of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek at Gass Lake Rd end of station (66300) photo by Mary Gansberg	Pine Creek at Gass Lake Rd end of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek at Gass Lake Rd start of station (66300) photo by Mary Gansberg	Pine Creek at Gass Lake Rd start of station (66300) photo by Mary Gansberg	Gansberg, Mary	06/15/2016	
Pine Creek at Gass Lake Road EOS	fish assessment and habitat	pappas	06/14/2016	SWIMS 10045063
Pine Creek at Gass Lake Road SOS	Fish assessment and habitat	pappas	06/14/2016	SWIMS: 10045063
Pine and Calvin Creek TWA	Pine and Calvin Creek TWA WQM	WDNR	08/10/2017	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
WQM Plan 2017 Presentation	Plan 2017 Presentation			
Pine and Calvin Creek TWA WQM Plan [MA01]	Assessments and recommendations for the Watershed. Pine and Calvin Creek TWA WQM Plan Final [MA01]	WDNR	07/16/2017	

### Budget

**Budget Description:** Pine and Calvin Creek FY16 **Start Date:** 05/01/2016 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	40	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	40	Hours	\$13.00	\$520.00	
LTE FR	LTE Fringe				\$128.44	
LTE IND	LTE Indirect				\$104.85	
LTE TOT	LTE Total Cost				\$753.29	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	300	Miles	\$0.72	\$216.00	
MEAL	Meals	6	Meals	\$9.00	\$54.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$270.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$1,023.29</b>	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$1,023.29	

**Budget Description:** Pine Creek and Calvin Creek FY17 **Start Date:** 07/01/2016 **End Date:** 12/31/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	40	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	80	Hours	\$13.00	\$1,040.00	
LTE FR	LTE Fringe				\$256.88	
LTE IND	LTE Indirect				\$209.71	
LTE TOT	LTE Total Cost				\$1,506.59	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	400	Miles	\$0.72	\$288.00	
MEAL	Meals	10	Meals	\$9.00	\$90.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$378.00	
BUG	Bug Contracts	6		\$185.00	\$1,110.00	
OTHER	Other Contracts	2		\$150.00	\$300.00	Diatom sample analysis
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$3,294.59</b>	

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Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$3,294.59	
<b>Combined Budgets:</b>				\$4,317.88	
<b>Combined SLOH:</b>				\$0.00	
<b>Combined Total:</b>				\$4,317.88	

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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