

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:** 5/1/2016

**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 | 5/1/2016   | 12/31/2099 | Wisconsin DNR |          |
| Helmuth, Lisa D  | COORDINATOR  | INACTIVE | 11/23/2019 | 12/28/2022 | Wisconsin DNR |          |
| PAPPAS, RYAN J   | TEAM_MEMBER  | ACTIVE   | 5/1/2016   | 12/31/2099 | Wisconsin DNR |          |

Project Statuses

| Date       | Reported By   | Status                    | Comments                                                   |
|------------|---------------|---------------------------|------------------------------------------------------------|
| 2/22/2016  | Mary Gansberg | Proposed                  |                                                            |
| 11/3/2016  | 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. |

Project Status Detail

Actions

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Action                                | Detailed Description                                                                                                                                                                                                                                                                                                                              | Start Date | 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.                                                                                                                   | 5/1/2016   | 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.                                                                                                                   | 5/1/2016   | 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.                                                                                                                   | 5/1/2016   | 12/31/2016 | COMPLETE |
| Natural Community Review or Change    | Natural Community validation or recommended changes or updates based on analysis of fish species found in recent surveys:<br>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. | 1/16/2018  |            | 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.                                                                                                                                                                                                                    | 1/16/2018  |            | 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.                                                                                                                                       | 1/16/2018  |            | 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.                                                                                                                                    | 1/16/2018  |            | 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.                                                                                                                                                    | 1/16/2018  |            | 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.                                                                                                                                                                                               | 1/16/2018  |            | PROPOSED |

### Monitoring Stations

| Station ID | Name                                  | Comments |
|------------|---------------------------------------|----------|
| 10044972   | Calvin Creek 15 meters US Clover Road |          |

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|          |                                              |  |
|----------|----------------------------------------------|--|
| 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

| Account Code | Description                    | Start Date | End Date   |
|--------------|--------------------------------|------------|------------|
| WQ002        | TARGETED WATERSHED ASSESSMENTS | 3/26/2014  | 12/31/2099 |

Forms

| Form Code            | Form Name                                       |
|----------------------|-------------------------------------------------|
| CONTINUOUS           | Continuous Data Upload                          |
| CBSM-TEST            | Macroinvertebrate Field Data                    |
| QUAL_FISH_HAB_LESS10 | Qualitative Fish Habitat Less Than 10 M         |
| WADEABLE_MACRO_FIELD | Wadeable Macroinvertebrate Field & Habitat Data |

Methods

| Method Code                          | Method 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                                 |
|-----------------|----------|----------|------------|----------------------------------------------|
| 4/26/2016 16:00 | COMPLETE |          | 10045061   | Calvin Creek 200 meters DS South 26th Street |

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|                  |          |                    |          |                                              |
|------------------|----------|--------------------|----------|----------------------------------------------|
| 4/26/2016 16:00  | COMPLETE |                    | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 5/15/2016 16:50  | COMPLETE | PCLSB-2016-MAY     | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 5/15/2016 17:15  | COMPLETE | CCCLS-2016-MAY     | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 6/13/2016 17:55  | COMPLETE | PCLSB-2016-JUNE    | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 6/13/2016 18:15  | COMPLETE | CCCLS-2016-JUNE    | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 6/14/2016 10:00  | COMPLETE |                    | 10045061 | Calvin Creek 200 meters DS South 26th Street |
| 6/14/2016 15:00  | COMPLETE |                    | 10045064 | Pine Creek 120 Meters DS Carstens Road       |
| 6/14/2016 16:00  | COMPLETE |                    | 10045063 | Pine Creek 25 Meters US Gass Lake Road       |
| 6/15/2016 13:00  | COMPLETE |                    | 10016013 | Pine Cr. - Above Cth U                       |
| 7/20/2016 16:00  | COMPLETE | PCLSB-2016-JULY    | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 7/20/2016 16:20  | COMPLETE | CCCLS-2016-JULY    | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 8/23/2016 16:15  | COMPLETE | PCLSB-2016-AUGUST  | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 8/23/2016 16:35  | COMPLETE | CCCLS-2016-AUGUST  | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 9/20/2016 17:00  | COMPLETE | PCLSB-2016-SEP     | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 9/20/2016 17:20  | COMPLETE | CCCLS-2016-SEP     | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 9/29/2016 16:00  | COMPLETE | 201609293602       | 10045064 | Pine Creek 120 Meters DS Carstens Road       |
| 10/4/2016 13:00  | COMPLETE | 201610043605       | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |
| 10/4/2016 14:00  | COMPLETE | 201610043604       | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 10/4/2016 15:00  | COMPLETE | 201610043603       | 10045063 | Pine Creek 25 Meters US Gass Lake Road       |
| 10/18/2016 9:00  | 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-OCTOBER | 10016345 | Pine Crk. - Above And Under Ls Bridge        |
| 10/19/2016 16:35 | COMPLETE | CCCLS-2016-OCTOBER | 363227   | Calvin Creek at Cth Ls (Bi Sur)              |

### Documents

| 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 | 1/10/2017 |          |

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|                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |                |            |  |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|
| 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   | 1/10/2017  |  |
| 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 | 6/14/2016  |  |
| Calvin Creek 15 meters US Clover Road: Natural Community                        | Calvin Creek 15 meters US Clover Road: Natural Community                                                                                                                                                                                                                                                                                                                                       | Gansberg, Mary | 6/24/2017  |  |
| Calvin Creek 200 meters DS South 26th Natural Community Validation 2017         | Calvin Creek 200 meters DS South 26th Natural Community Validation 2017                                                                                                                                                                                                                                                                                                                        | Gansberg, Mary | 6/22/2017  |  |
| Calvin Creek 200 meters DS South 26th Street NC Validation 2017                 | Calvin Creek 200 meters DS South 26th Street NC Validation 2017                                                                                                                                                                                                                                                                                                                                | Gansberg, Mary | 6/7/2017   |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |
| 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 | 10/4/2016  |  |

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|                                                                           |                                                                                                                                                                |                |            |                 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|-----------------|
| Calvin Creek S. 26th street (1) (66900) photo                             | Calvin Creek S. 26th street (1) (66900) photo                                                                                                                  |                | 10/18/2016 |                 |
| Calvin Creek S. 26th street (2) (66900) photo                             | Calvin Creek S. 26th street (2) (66900) photo                                                                                                                  |                | 10/18/2016 |                 |
| Calvin Creek at Clover Rd Downstream of station (66900) photo             | Calvin Creek at Clover Rd Downstream of station (66900) photo                                                                                                  |                | 6/6/2016   |                 |
| Calvin Creek at Clover Rd Upstream of station (66900) photo               | Calvin Creek at Clover Rd Upstream of station (66900) photo                                                                                                    | Gansberg, Mary | 6/6/2016   |                 |
| Calvin Creek at Clover Road EOS                                           | end of station                                                                                                                                                 | pappas         | 6/6/2016   |                 |
| Calvin Creek at Clover Road SOS                                           | start of station                                                                                                                                               | pappas         | 6/6/2016   |                 |
| 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 | 6/14/2016  |                 |
| Calvin Creek at South 26th Street EOS                                     | fish assessment and habitat surveys                                                                                                                            | pappas         | 6/14/2016  | SWIMS: 10045061 |
| Calvin Creek at South 26th Street SOS                                     | fish assessment and habitat surveys                                                                                                                            | pappas         | 6/14/2016  | SWIMS: 10045061 |
| Perched Culvert on Calvin Creek downstream CTH LS                         |                                                                                                                                                                | Ryan Pappas    | 10/4/2016  | perched culvert |
| Perched Culvert on Calvin Creek downstream south 26th street              |                                                                                                                                                                | Ryan Pappas    | 10/4/2016  | 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 | 6/15/2016  |                 |
| Pine Creek CTH U EOS-small                                                | Pine Creek CTH U EOS-small                                                                                                                                     | Gansberg, Mary | 6/15/2016  |                 |
| 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 | 6/7/2017   |                 |
| Pine Creek Gass Lake Rd EOS-Small                                         | Pine Creek Gass Lake Rd EOS-Small                                                                                                                              | gANSBERG, mARY | 6/15/2016  |                 |
| Pine Creek at CTH U EOS                                                   | fish assessment and habitat surveys                                                                                                                            | pappas         | 6/15/2016  | SWIMS: 10016013 |
| Pine Creek at CTH U SOS                                                   | Fish assessment and habitat surveys                                                                                                                            | pappas         | 6/15/2016  | 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 | 6/15/2016  |                 |
| Pine Creek at Carstens Road EOS                                           | Fish assessment and Habitat                                                                                                                                    | pappas         | 6/15/2016  | SWIMS: 10045064 |

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|                                                                                  |                                                                                                    |                |           |                 |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------|-----------|-----------------|
| Pine Creek at Carstens Road SOS                                                  | Fish assessment and habitat at site                                                                | pappas         | 6/15/2016 | 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 | 6/15/2016 |                 |
| 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 | 6/15/2016 |                 |
| 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 | 6/15/2016 |                 |
| 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 | 6/15/2016 |                 |
| Pine Creek at Gass Lake Road EOS                                                 | fish assessment and habitat                                                                        | pappas         | 6/14/2016 | SWIMS 10045063  |
| Pine Creek at Gass Lake Road SOS                                                 | Fish assessment and habitat                                                                        | pappas         | 6/14/2016 | SWIMS: 10045063 |
| Pine and Calvin Creek TWA WQM Plan 2017 Presentation                             | Pine and Calvin Creek TWA WQM Plan 2017 Presentation                                               | WDNR           | 8/10/2017 |                 |
| Pine and Calvin Creek TWA WQM Plan [MA01]                                        | Assessments and recommendations for the Watershed. Pine and Calvin Creek TWA WQM Plan Final [MA01] | WDNR           | 7/16/2017 |                 |

### Budget

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|                     |                            |             |          |           |           |
|---------------------|----------------------------|-------------|----------|-----------|-----------|
| Budget Description: | Pine and Calvin Creek FY16 | Start Date: | 5/1/2016 | End Date: | 6/30/2016 |
|---------------------|----------------------------|-------------|----------|-----------|-----------|

| 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     |          |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$1,023.29 |          |

Total WSLH Lab Costs: \$0.00  
Total Budget: \$1,023.29

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|                                                             |                             |                             |
|-------------------------------------------------------------|-----------------------------|-----------------------------|
| <b>Budget Description:</b> Pine Creek and Calvin Creek FY17 | <b>Start Date:</b> 7/1/2016 | <b>End Date:</b> 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     |                        |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$3,294.59 |                        |

Total WSLH Lab Costs: \$0.00

Total Budget: \$3,294.59

Combined Budgets: \$4,317.88

Combined WSLH: \$0.00

Combined Total: \$4,317.88

| Funding      |        |      |        |            |          |
|--------------|--------|------|--------|------------|----------|
| Organization | Source | Type | Amount | Start Date | End Date |