

# Wisconsin Department of Natural Resources SWIMS Project Summary

## General Project Information

**Project ID:** North\_TWA\_4\_2015

**Name:** Soft Maple Hay Creek TWA, Rusk County

**Type:** Targeted Watershed Approach

**Subtype:** Effectiveness (BMP, Other)

**Status:** FINAL\_RPT

**Start Date:** 1/8/2015

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

**Purpose:** The Soft Maple Hay Creek watershed was a priority watershed project in Rusk County. Rusk County Land Conservation Department worked with landowners over approximately a 10 year period to install various non point BMPs throughout the watershed. The BMPs installed and reported to the Department's Non-Point Coordinator include Nutrient Management Plans, Diversions, Manure Storage, grassed waterways, and in-stream habitat. We propose to monitor 20 sites on various streams that recieved BMP treatment. There is limited background information available therefore untreated reference reaches for comparative purposes may need to be selected.

**Objective:** The project will include monitoring streams to determine the effectiveness of BMP practices employed in the watershed. Fish surveys, macroinvertebrate samples, quantitative habitat evaluations and nutrient sampling will be used to gather water quality information. The information gathered may be used for updating waterbody assessment status, watershed planning, direct future monitoring for 303d or ERW/ORW status, making management reccomendations, and updating waterbody and watershed narratives in WATERS.

**Comments:**

**Outcome:** Sites to be determined after discussions with LCD regarding placement of BMPs  
Propose to monitor:  
20 sites for Fish and Quantitative Habitat summer 2015  
10 macroinvertebrate sites Fall 2015  
10 water chemistry sites for total P, total N, ammonia, Nitrate Nitrite, TSS single grab at time of Fish Survey or May-August.  
Anticipate not needing water chem samples at all fish/habitat sites becuase sites will be different reaches of same stream.  
data entered into SWIMS or FHDB by Jeff Jackson or Joe Cunningham by December 31 2015.

**Study Design:** Sites to be determined after discussions with LCD regarding placement of BMPs  
Propose to monitor:  
20 sites for Fish and Quantitative Habitat summer 2015  
10 macroinvertebrate sites Fall 2015  
10 water chemistry sites for total P, total N, ammonia, Nitrate Nitrite, TSS single grab at time of Fish Survey or May-August.  
Anticipate not needing water chem samples at all fish/habitat sites becuase sites will be different reaches of same stream.  
data entered into SWIMS or FHDB by Jeff Jackson or Joe Cunningham by December 31 2015.

**QA Measures:** Standard WDNR Protocols will be followed

## People

| Name                 | Role        | Status   | Start Date | End Date   | Organization  | Comments |
|----------------------|-------------|----------|------------|------------|---------------|----------|
| AARTILA, THOMAS P    | COORDINATOR | COMPLETE | 1/8/2015   | 12/31/2016 | Wisconsin DNR |          |
| CUNNINGHAM, JOSEPH L | COORDINATOR | ACTIVE   | 1/8/2015   | 12/31/2016 | Wisconsin DNR |          |
| Helmuth, Lisa D      | COORDINATOR | INACTIVE | 11/23/2019 | 12/28/2022 | Wisconsin DNR |          |
| JACKSON, JEFFREY L   | COORDINATOR | ACTIVE   | 1/8/2015   | 12/31/2016 | Wisconsin DNR |          |
| Perdzock, Amanda R   | COORDINATOR | ACTIVE   | 4/4/2018   |            | Wisconsin DNR |          |
| Roesler, Craig P     | COORDINATOR | COMPLETE | 1/8/2015   | 12/31/2016 | Wisconsin DNR |          |
| WENDLER, JEANETTE C  | COORDINATOR | ACTIVE   | 1/8/2015   | 12/31/2016 | Wisconsin DNR |          |

## Project Statuses

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| Date      | Reported By  | Status              | Comments |
|-----------|--------------|---------------------|----------|
| 3/16/2020 | Lisa Helmuth | Final Report Needed |          |

Project Status Detail

Answer Set: DEFAULT

| Question                                                                                                               | Answer |
|------------------------------------------------------------------------------------------------------------------------|--------|
| 1. Number of Sample Sites (Enter the station IDs if you know them).                                                    |        |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).                   |        |
| 3. Proposed Dates for Sample Collection                                                                                |        |
| 4. List applicable databases and who will enter data?                                                                  |        |
| 5. Did you receive competitive projects funding in the previous year?                                                  |        |
| 6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not? |        |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period)                                |        |
| 8. Reviewer Decision: Is this project recommended for funding?                                                         |        |

Actions

| Action                       | Detailed Description | Start Date | End Date   | Status   |
|------------------------------|----------------------|------------|------------|----------|
| Monitor to Evaluate Projects |                      | 1/8/2015   | 12/31/2099 | PROPOSED |

Monitoring Stations

| Station ID | Name                                                     | Comments |
|------------|----------------------------------------------------------|----------|
| 553095     | Alder Creek - Low Site at Hwy 40 Bridge                  |          |
| 10044315   | Alder Creek US Adams Rd                                  |          |
| 553091     | Becky Creek - Up Site Imalone Rd Bg                      |          |
| 10032171   | Becky Creek Upstream Highway 40 near old cattle crossing |          |
| 10038169   | Becky Creek- Upstream of Edgewood Road                   |          |
| 10043937   | Big Soft Maple Creek 35m US Amacoy Lake Rd               |          |
| 10044235   | Big Soft Maple Creek DS Railway Avenue                   |          |
| 10007968   | Clear Creek - Clear Creek Hwy H Station # 2              |          |
| 553090     | Clear Creek - Low Site Hwy 40 Bridg                      |          |
| 553097     | Devils Creek - Low Site at Hwy 40 Brg                    |          |
| 553096     | Devils Creek - Upper Site at Cth O                       |          |
| 10043948   | Devils Creek 45m US Fire Lane Rd (upper crossing)        |          |
| 553098     | Hay Creek at Tyman Rd Near Bruce WI                      |          |
| 553102     | Little Soft Maple Creek - Upper Site Tyman Rd Bridge     |          |
| 553158     | Little Soft Maple Creek at Kief Rd Near Weyerhauser      |          |

Assessment Units

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| WBIC    | Segment | Local Name              | Official Name           |
|---------|---------|-------------------------|-------------------------|
| 2356600 | 1       | Soft Maple Creek        | Soft Maple Creek        |
| 2356600 | 2       | Soft Maple Creek        | Soft Maple Creek        |
| 2356600 | 3       | Soft Maple Creek        | Soft Maple Creek        |
| 2357300 | 1       | Little Soft Maple Creek | Little Soft Maple Creek |
| 2366600 | 1       | Devils Creek            | Devils Creek            |
| 2366600 | 2       | Devils Creek            | Devils Creek            |
| 2366600 | 3       | Devils Creek            | Devils Creek            |
| 2366700 | 1       | Alder Creek             | Alder Creek             |
| 2366700 | 2       | Alder Creek             | Alder Creek             |
| 2367200 | 1       | Hay Creek               | Hay Creek               |
| 2369600 | 1       | Becky Creek             | Becky Creek             |
| 2369600 | 2       | Becky Creek             | Becky Creek             |
| 2370100 | 1       | Clear Creek             | Clear Creek             |

Lab Account Codes

| Account Code | Description            | Start Date | End Date   |
|--------------|------------------------|------------|------------|
| WQ012        | 319 PROJECT FUNDED TWA | 3/24/2015  | 12/31/2015 |

Forms

| Form Code | Form Name |
|-----------|-----------|
|-----------|-----------|

Methods

| Method Code | Method Description |
|-------------|--------------------|
|-------------|--------------------|

Fieldwork Events

| Start Date      | Status   | Field ID | Station ID | Station Name                                             |
|-----------------|----------|----------|------------|----------------------------------------------------------|
| 7/3/2015 13:00  | COMPLETE | AL-1     | 553095     | Alder Creek - Low Site at Hwy 40 Bridge                  |
| 7/15/2015 10:50 | COMPLETE | CL-1     | 553095     | Alder Creek - Low Site at Hwy 40 Bridge                  |
| 7/22/2015 11:45 | COMPLETE | CL-2     | 10007968   | Clear Creek - Clear Creek Hwy H Station # 2              |
| 7/27/2015 11:00 | COMPLETE | BE-1     | 10032171   | Becky Creek Upstream Highway 40 near old cattle crossing |
| 7/29/2015 14:00 | COMPLETE | BE-2     | 553091     | Becky Creek - Up Site Imalone Rd Bg                      |
| 7/30/2015 11:00 | COMPLETE | DE-1     | 553096     | Devils Creek - Upper Site at Cth O                       |
| 8/5/2015 11:30  | COMPLETE | DE-3     | 553097     | Devils Creek - Low Site at Hwy 40 Brg                    |
| 8/10/2015 11:45 | COMPLETE | LSM-1    | 553158     | Little Soft Maple Creek at Kief Rd Near Weyerhauser      |
| 8/11/2015 12:00 | COMPLETE | BSM-1    | 10043937   | Big Soft Maple Creek 35m US Amacoy Lake Rd               |
| 8/14/2015 11:00 | COMPLETE | DE-5     | 10043948   | Devils Creek 45m US Fire Lane Rd (upper crossing)        |
| 8/14/2015 13:00 | COMPLETE | LSM-4    | 553102     | Little Soft Maple Creek - Upper Site Tyman Rd Bridge     |

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|            |          |         |          |                                                          |
|------------|----------|---------|----------|----------------------------------------------------------|
| 9/25/2015  | COMPLETE | BSM-1   | 10044235 | Big Soft Maple Creek DS Railway Avenue                   |
| 9/25/2015  | COMPLETE | HC-2    | 553098   | Hay Creek at Tyman Rd Near Bruce WI                      |
| 10/7/2015  | COMPLETE |         | 553097   | Devils Creek - Low Site at Hwy 40 Brg                    |
| 10/7/2015  | COMPLETE |         | 553095   | Alder Creek - Low Site at Hwy 40 Bridge                  |
| 10/21/2015 | COMPLETE | BSMC-01 | 10043937 | Big Soft Maple Creek 35m US Amacoy Lake Rd               |
| 10/21/2015 | COMPLETE | LSMC-03 | 553102   | Little Soft Maple Creek - Upper Site Tyman Rd Bridge     |
| 10/21/2015 | COMPLETE | LSMC-04 | 553158   | Little Soft Maple Creek at Kief Rd Near Weyerhauser      |
| 10/21/2015 | COMPLETE |         | 553098   | Hay Creek at Tyman Rd Near Bruce WI                      |
| 11/2/2015  | COMPLETE |         | 10038169 | Becky Creek- Upstream of Edgewood Road                   |
| 11/2/2015  | COMPLETE |         | 553090   | Clear Creek - Low Site Hwy 40 Bridg                      |
| 11/2/2015  | COMPLETE |         | 553091   | Becky Creek - Up Site Imalone Rd Bg                      |
| 11/4/2015  | COMPLETE |         | 10032171 | Becky Creek Upstream Highway 40 near old cattle crossing |

### Documents

| Title                                                                               | Description                                                                                                   | Author                  | Published | Comments |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------|-----------|----------|
| Devil's Creek 515079586 Fish Survey Sequence number (2015) NC Validation 10043948   | Devil's Creek 515079586 Fish Survey Sequence number (2015) NC Validation 10043948                             | Kleist, Jon & L Helmuth | 7/8/2019  |          |
| Devils Creek NC Decision - 553097 No Data found in Fish DB (manual entry in WATERS) | Devils Creek NC Decision - 553097 No Data found in Fish DB (manual entry in WATERS) confirmation of mainstem. | helmuth, kleist         | 7/9/2019  |          |
| Devils Creek NC Verification NC.Ver_Stn_553096_SSN_23724380_2009survey-Report       | NC.Ver_Stn_553096_SSN_23724380_2009survey-Report.pdf                                                          | helmuth for kleist      | 7/9/2019  |          |
| NC.Ver.Stn_10029346_clear_creek_Report                                              | NC.Ver.Stn_10029346_clear_creek_Report                                                                        | Kosmond for Kleist      | 8/6/2019  |          |
| NC.Ver_Stn_10007967_SSN_515079532_Report                                            | NC.Ver_Stn_10007967_SSN_515079532_Report                                                                      | Kosmond for Kleist      | 8/6/2019  |          |
| NC.Ver_Stn_10007968_SSN_515079394_Report                                            | NC.Ver_Stn_10007968_SSN_515079394_Report                                                                      | Kosmond for Kleist      | 8/6/2019  |          |
| NC.Ver_Stn_10012982_SSN_82206_Report                                                | NC.Ver_Stn_10012982_SSN_82206_Report                                                                          | Kosmond for Kleist      | 8/6/2019  |          |
| NC.Ver_Stn_10013004_SSN_82279_Report                                                | NC.Ver_Stn_10013004_SSN_82279_Report                                                                          | helmuth for kleist      | 7/10/2019 |          |
| NC.Ver_Stn_10013008_SSN_82288_Report Hay Creek                                      | NC.Ver_Stn_10013008_SSN_82288_Report                                                                          | helmuth, kleist         | 6/26/2019 |          |
| NC.Ver_Stn_10022212_SSN_97439_Report                                                | NC.Ver_Stn_10022212_SSN_97439_Report                                                                          | helmuth, kleist         | 6/26/2019 |          |
| NC.Ver_Stn_10031618_SSN_68515747_Report                                             | NC.Ver_Stn_10031618_SSN_68515747_Report                                                                       | Kosmond for Kleist      | 8/6/2019  |          |

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|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |           |  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|--|
| NC.Ver_Stn_10037837_SSN_515078935_Report                                                                   | NC.Ver_Stn_10037837_SSN_515078935_Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Kleist, Jon     | 8/2/2019  |  |
| NC.Ver_Stn_10044315_SSN_515079450_Report 2019                                                              | NC.Ver_Stn_10044315_SSN_515079450_Report 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | test - delete   | 9/4/2019  |  |
| Soft Maple Hay Creek Targeted Watershed Assessment: A Water Quality Report to Protect Wisconsin Watersheds | Assessments and recommendations for the Watershed. Soft Maple Hay Creek Targeted Watershed Assessment: A Water Quality Report to Protect Wisconsin's Watersheds 2019                                                                                                                                                                                                                                                                                                                                                               | Kliest, Jon     | 12/1/2019 |  |
| natural communityVer_Stn_10013007_SSN_82286_Report                                                         | Station: 151077, View in WATERS: <a href="#">Click Here</a><br>Name: Unnamed Tributary To Devils Creek South Of Hardwood Trail<br>Request: Modeled NC Not Verified (Alt 9 of 9)<br>Status: NC Change Needs Review<br>WBIC: 2368200<br>Water: Unnamed<br>NC used: COLDWATER<br>Modeled NC: COOL-COLD HEADWATER<br>Comments: Modeled natural community not valid based on fish community tests and fish database tool. Best alternative natural community is recommended based on passing 9 of 9 tests. This decision should be revi | helmuth, kleist | 6/26/2019 |  |

**Budget**

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**Budget Description:** 319-project funded Soft Maple Hay Creek Watershed 1/1/2015-6/30/2105      **Start Date:** 1/30/2015      **End Date:** 6/30/2015

| Code    | Description                | Quantity | Units | Unit Cost | Total Cost | Comments            |
|---------|----------------------------|----------|-------|-----------|------------|---------------------|
| FTE     | FTE Hours                  | 80       | Hours | \$0.00    | \$0.00     |                     |
| LTE SAL | LTE Salary                 | 104      | Hours | \$13.00   | \$1,352.00 |                     |
| LTE FR  | LTE Fringe                 |          |       |           | \$333.94   |                     |
| LTE IND | LTE Indirect               |          |       |           | \$272.62   |                     |
| LTE TOT | LTE Total Cost             |          |       |           | \$1,958.56 |                     |
| SUPPLY  | Supplies                   | 1        |       | \$100.00  | \$100.00   | Sample Shipment/Ice |
| EQUIP   | Equipment                  |          |       |           | \$0.00     |                     |
| MILEAGE | Mileage                    | 1000     | Miles | \$0.72    | \$720.00   |                     |
| MEAL    | Meals                      | 12       | Meals | \$9.00    | \$108.00   |                     |
| LODGE   | Lodging                    |          |       |           | \$0.00     |                     |
| TRAVEL  | Travel Total               |          |       |           | \$828.00   |                     |
| BUG     | Bug Contracts              |          |       |           | \$0.00     |                     |
| OTHER   | Other Contracts            |          |       |           | \$0.00     |                     |
| USGS    | USGS Costs                 |          |       |           | \$0.00     |                     |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$2,886.56 |                     |

| Test Code | Description                          | Test Group          | # Planned | Unit Cost | Total Cost |
|-----------|--------------------------------------|---------------------|-----------|-----------|------------|
| I440NLD   | AMMONIA (AS N), DISS (EPA 350.1)     | INORGANIC CHEMISTRY | 2         | \$25.89   | \$51.78    |
| I460GLT   | NITRATE + NITRITE (AS N) (EPA 353.2) | INORGANIC CHEMISTRY | 2         | \$27.00   | \$54.00    |
| I466ALT   | TOTAL NITROGEN(ASN)(SM4500-N)        | INORGANIC CHEMISTRY | 2         | \$26.00   | \$52.00    |
| I520PLT   | TOTAL PHOSPHORUS (AS P) (EPA 365.1)  | INORGANIC CHEMISTRY | 2         | \$23.60   | \$47.20    |
| I650JLT   | SUSPENDED SOLIDS (EPA METHOD 160.2)  | INORGANIC CHEMISTRY | 2         | \$18.80   | \$37.60    |
| I720BLT   | FIELD TESTS                          | INORGANIC CHEMISTRY | 2         | \$6.36    | \$12.72    |

**Total WSLH Lab Costs:** \$255.30

**Total Budget:** \$3,141.86

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|                                                                                                     |                             |                             |
|-----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| <b>Budget Description:</b> 319-project funded Soft Maple Hay Creek Watershed<br>7/1/2015-12/31/2105 | <b>Start Date:</b> 7/1/2015 | <b>End Date:</b> 12/31/2015 |
|-----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|

| Code    | Description                | Quantity | Units | Unit Cost | Total Cost  | Comments      |
|---------|----------------------------|----------|-------|-----------|-------------|---------------|
| FTE     | FTE Hours                  | 352      | Hours | \$0.00    | \$0.00      |               |
| LTE SAL | LTE Salary                 | 296      | Hours | \$13.00   | \$3,848.00  |               |
| LTE FR  | LTE Fringe                 |          |       |           | \$950.46    |               |
| LTE IND | LTE Indirect               |          |       |           | \$775.91    |               |
| LTE TOT | LTE Total Cost             |          |       |           | \$5,574.37  |               |
| SUPPLY  | Supplies                   | 1        |       | \$150.00  | \$150.00    | Shipping, ice |
| EQUIP   | Equipment                  |          |       |           | \$0.00      |               |
| MILEAGE | Mileage                    | 6800     | Miles | \$0.72    | \$4,896.00  |               |
| MEAL    | Meals                      | 60       | Meals | \$9.00    | \$540.00    |               |
| LODGE   | Lodging                    |          |       |           | \$0.00      |               |
| TRAVEL  | Travel Total               |          |       |           | \$5,436.00  |               |
| BUG     | Bug Contracts              | 10       |       | \$185.00  | \$1,850.00  |               |
| OTHER   | Other Contracts            |          |       |           | \$0.00      |               |
| USGS    | USGS Costs                 |          |       |           | \$0.00      |               |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$13,010.37 |               |

| Test Code | Description                          | Test Group          | # Planned | Unit Cost | Total Cost |
|-----------|--------------------------------------|---------------------|-----------|-----------|------------|
| I440NLD   | AMMONIA (AS N), DISS (EPA 350.1)     | INORGANIC CHEMISTRY | 8         | \$25.89   | \$207.12   |
| I460GLT   | NITRATE + NITRITE (AS N) (EPA 353.2) | INORGANIC CHEMISTRY | 8         | \$27.00   | \$216.00   |
| I466ALT   | TOTAL NITROGEN(ASN)(SM4500-N)        | INORGANIC CHEMISTRY | 8         | \$26.00   | \$208.00   |
| I520PLT   | TOTAL PHOSPHORUS (AS P) (EPA 365.1)  | INORGANIC CHEMISTRY | 8         | \$23.60   | \$188.80   |
| I650JLT   | SUSPENDED SOLIDS (EPA METHOD 160.2)  | INORGANIC CHEMISTRY | 8         | \$18.80   | \$150.40   |
| I720BLT   | FIELD TESTS                          | INORGANIC CHEMISTRY | 8         | \$6.36    | \$50.88    |

**Total WSLH Lab Costs:** \$1,021.20

**Total Budget:** \$14,031.57

**Combined Budgets:** \$15,896.93

**Combined WSLH:** \$1,276.50

**Combined Total:** \$17,173.43

| Funding                            |         |         |        |            |          |
|------------------------------------|---------|---------|--------|------------|----------|
| Organization                       | Source  | Type    | Amount | Start Date | End Date |
| US Environmental Protection Agency | Federal | CWA 319 |        |            |          |