

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** East\_TWA\_3\_2015

**Name:** Plum - Kankapot Creeks TWA, Brown, Outagamie, and Calumet Counties

**Type:** Targeted Watershed Approach

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

**Status:** COMPLETE

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

**End Date:** 12/31/2015

**Purpose:** This Plum Creek and Kankapot Creek Watersheds targeted watershed assessment was designed to gather contemporary biological and physical information within the watershed. Water Chemistry and stream flow have been monitored through two gauge stations on Plum Creek since 2010 at CTH D and New Rd. A non-point source implementation plan that is consistent with EPA's Nine Key Element Plan has been recently approved by EPA in the Plum Creek and Kankapot Creek Watersheds (HUC12s).

Read the <https://dnr.wi.gov/water/wsSWIMSDocument.ashx?documentSeqNo=239697793> Plum Creek and Kankapot Creek Watersheds TWA WQ Plan

**Objective:** Contemporary biological, physical, and chemical monitoring was collected within the watershed prior to significant conservation practices occurring on the landscape through this Nine Key Element Plan (9KE plan). Sites within the Main Branch of Plum Creek and Kankapot Creek were evaluated using WisCALM guidance to evaluate fish, physical habitat, macroinvertebrate community, and water chemistry. The West Branch of Plum Creek was monitored and evaluated for Best Management Plan (BMP) effectiveness through additional CWA Section 319 project funding in 2015. A Great Lakes Restoration Initiative (GLRI) grant was awarded to install buffers and stream bank stabilization practices in the West Branch between 2011 and 2014.

**Comments:**

**Outcome:** Monthly water quality samples and a fall macroinvertebrate sample was collected and funded at the pour points of both Plum and Kankapot Creek through the Lower Fox River citizen monitoring grant.

Additionally quantitative habitat and fish surveys were collected to complete data collection at these two locations. Fish, habitat, and macroinvertebrates were collected from an additional 16 sites in the watershed. An additional site upstream on both Plum and Kankapot Creeks were sampled for water chemistry six times from May-October by volunteers.

**Study Design:** HUC 10 - 403020402

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

### People

| Name               | Role        | Status   | Start Date | End Date   | Organization  | Comments |
|--------------------|-------------|----------|------------|------------|---------------|----------|
| Helmuth, Lisa D    | COORDINATOR | INACTIVE | 11/23/2019 | 12/28/2022 | Wisconsin DNR |          |
| Hudak, Andrew J    | COORDINATOR | ACTIVE   | 1/8/2015   | 12/31/2099 | Wisconsin DNR |          |
| PAPPAS, RYAN J     | COORDINATOR | ACTIVE   | 1/8/2015   | 12/31/2099 | Wisconsin DNR |          |
| Perdzock, Amanda R | COORDINATOR | ACTIVE   | 4/4/2018   |            | Wisconsin DNR |          |

### Project Statuses

| Date      | Reported By  | Status   | Comments |
|-----------|--------------|----------|----------|
| 2/10/2015 | Andrew Hudak | Proposed |          |

### Project Status Detail

### Actions

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| Action                | Detailed Description  | Start Date | End Date | Status   |
|-----------------------|---|------------|----------|----------|
| Monitor Targeted Area | Monitoring needed on upper segments of Mud Creek. All monitoring stations located in Segment 1, no stations/ monitoring data for Segments 2 or 3. | 7/1/2008   |          | COMPLETE |

### Monitoring Stations

| Station ID | Name  | Comments |
|------------|---|----------|
| 453245     | Kankapot Creek - Cth Ce   |          |
| 453261     | Kankapot Creek - Cth Z Dodge St 100 Ft US of Bridge               |          |
| 10016668   | Kankapot Creek - Upstream Of Cth Kk Bridge                        |          |
| 053201     | Plum Creek - County Highway Zz Bridge Wrightstown                 |          |
| 053511     | Plum Creek - Cth D  |          |
| 10016599   | Plum Creek - Downstream Of Cth Z - Hills Road                     |          |
| 10016874   | Plum Creek - Upstream Of Lamers And Clancy Road                   |          |
| 10043676   | Plum Creek 10m US ManCal Road                                     |          |
| 10015580   | Plum Creek- Upstream Of Holland Road                              |          |
| 10017053   | Tributary To Kankapot Creek - Downstream Of Cth Gg - Militaryroad |          |
| 10016525   | Tributary To Kankapot Creek - Downstream Of Schmidt Road Bridge   |          |
| 10016494   | Tributary To Plum Creek - Downstream Of County Line Road          |          |
| 10043709   | UNT to Kankapot creek 10 meters upstream Robinhood drive          |          |
| 10043701   | UNT to Kankapot creek 125 m downstream Schmitt Rd.                |          |
| 10043750   | UNT to Plum Creek 20 Meters US Holland Road                       |          |
| 10043749   | UNT to Plum Creek 240 meters downstream CTH D                     |          |
| 10043731   | UNT to West Plum Creek 120 meters DS County Line Road             |          |
| 10043720   | UNT to West Plum Creek 140 meters downstream CTH Z                |          |
| 10043708   | Unnamed trib to Kankapot Cr 160 meters DS of Schmidt Rd           |          |
| 10043363   | Unnamed trib to Kankapot Creek 50m DS CTH KK                      |          |
| 10039263   | Unnamed Tributary just upstream of KK                             |          |
| 10043742   | West Plum Creek 20 meters upstream New Road                       |          |

### Assessment Units

| WBIC   | Segment | Local Name  | Official Name |
|--------|---------|-------------|---------------|
| 125100 | 1       | Plum Creek  | Plum Creek    |
| 125100 | 2       | Plum Creek  | Plum Creek    |
| 125200 | 1       | Local Water | Unnamed       |

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|         |   |                         |                |
|---------|---|-------------------------|----------------|
| 125300  | 1 | Local Water             | Unnamed        |
| 125500  | 1 | Tributary to Plum Creek | Unnamed        |
| 126800  | 1 | Kankapot Creek          | Kankapot Creek |
| 126800  | 2 | Kankapot Creek          | Kankapot Creek |
| 126900  | 1 | Local Water             | Unnamed        |
| 127000  | 1 | Local Water             | Unnamed        |
| 129500  | 1 | Mud Creek               | Mud Creek      |
| 5022241 | 1 | Unnamed                 | Unnamed        |
| 5022391 | 1 | Unnamed                 | Unnamed        |

### 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 |
|-----------|-----------|
|-----------|-----------|

### Methods

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

### Fieldwork Events

| Start Date      | Status   | Field ID      | Station ID | Station Name  |
|-----------------|----------|---------------|------------|---|
| 5/1/2015        | COMPLETE |               | 053511     | Plum Creek - Cth D  |
| 5/1/2015        | COMPLETE |               | 10043709   | UNT to Kankapot creek 10 meters upstream Robinhood drive          |
| 5/1/2015        | COMPLETE |               | 10039263   | Unnamed Tributary just upstream of KK                             |
| 5/1/2015        | COMPLETE |               | 10016668   | Kankapot Creek - Upstream Of Cth Kk Bridge                        |
| 5/1/2015        | COMPLETE |               | 10043701   | UNT to Kankapot creek 125 m downstream Schmitt Rd.                |
| 5/1/2015        | COMPLETE |               | 10017053   | Tributary To Kankapot Creek - Downstream Of Cth Gg - Militaryroad |
| 5/1/2015 12:00  | COMPLETE |               | 053201     | Plum Creek - County Highway Zz Bridge Wrightstown                 |
| 5/18/2015 11:00 | COMPLETE | UTKC-2015-5   | 10043363   | Unamed trib to Kankapot Creek 50m DS CTH KK                       |
| 5/27/2015 11:00 | COMPLETE | PCHR-2015-5   | 10016599   | Plum Creek - Downstream Of Cth Z - Hills Road                     |
| 5/27/2015 11:15 | COMPLETE | TPCCLR-2015-5 | 10016494   | Tributary To Plum Creek - Downstream Of County Line Road          |
| 6/29/2015 15:00 | COMPLETE | PCHR-2015-6   | 10016599   | Plum Creek - Downstream Of Cth Z - Hills Road                     |
| 6/29/2015 15:00 | COMPLETE | TPCCCR-2015-6 | 10016494   | Tributary To Plum Creek - Downstream Of County Line Road          |
| 6/29/2015 15:00 | COMPLETE | UNKC-2015-6   | 10043363   | Unamed trib to Kankapot Creek 50m DS CTH KK                       |
| 7/20/2015       | COMPLETE | UNKC-2015-7   | 10043363   | Unamed trib to Kankapot Creek 50m DS CTH KK                       |
| 7/22/2015 11:10 | COMPLETE | TPCCLR-2015-7 | 10016494   | Tributary To Plum Creek - Downstream Of County Line Road          |
| 7/22/2015 11:15 | COMPLETE | PCHR-2015-7   | 10016599   | Plum Creek - Downstream Of Cth Z - Hills Road                     |

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|                 |          |               |          |   |
|-----------------|----------|---------------|----------|---|
| 8/26/2015 9:30  | COMPLETE | UNKC-2015-8   | 10043363 | Unnamed trib to Kankapot Creek 50m DS CTH KK                    |
| 8/27/2015 10:45 | COMPLETE | PCHR-2015-8   | 10016599 | Plum Creek - Downstream Of Cth Z - Hills Road                   |
| 8/27/2015 11:00 | COMPLETE | TPCCCR-2015-8 | 10016494 | Tributary To Plum Creek - Downstream Of County Line Road        |
| 9/26/2015 13:30 | COMPLETE | UTKC-2015-9   | 10043363 | Unnamed trib to Kankapot Creek 50m DS CTH KK                    |
| 9/28/2015       | COMPLETE |               | 10043709 | UNT to Kankapot creek 10 meters upstream Robinhood drive        |
| 9/28/2015       | COMPLETE |               | 10043708 | Unnamed trib to Kankapot Cr 160 meters DS of Schmidt Rd         |
| 9/28/2015       | COMPLETE |               | 10039263 | Unnamed Tributary just upstream of KK                           |
| 9/28/2015       | COMPLETE |               | 10043676 | Plum Creek 10m US ManCal Road                                   |
| 9/28/2015       | COMPLETE |               | 10016668 | Kankapot Creek - Upstream Of Cth Kk Bridge                      |
| 9/28/2015       | COMPLETE |               | 10016525 | Tributary To Kankapot Creek - Downstream Of Schmidt Road Bridge |
| 9/30/2015       | COMPLETE |               | 10043750 | UNT to Plum Creek 20 Meters US Holland Road                     |
| 9/30/2015       | COMPLETE |               | 10016874 | Plum Creek - Upstream Of Lamers And Clancy Road                 |
| 9/30/2015       | COMPLETE |               | 053511   | Plum Creek - Cth D  |
| 9/30/2015       | COMPLETE |               | 10043749 | UNT to Plum Creek 240 meters downstream CTH D                   |
| 4/11/2016       | COMPLETE |               | 10016525 | Tributary To Kankapot Creek - Downstream Of Schmidt Road Bridge |

### Documents

| Title                                      | Description                  | Author  | Published | Comments |
|--|------------------------------|---------|-----------|----------|
| Kankapot Creek at CTH KK EOS               | end of station               | pappas  | 1/1/2015  |          |
| Kankapot Creek at CTH KK SOS               | start of station             | pappas  | 1/1/2015  |          |
| Plum Creek at CTH D EOS                    | end of station               | pappas  | 1/1/2015  |          |
| Plum Creek at CTH D SOS                    | start of station             | pappas  | 1/1/2015  |          |
| Plum Creek at CTH ZZ                       |                              | pappas  | 1/1/2015  |          |
| Plum Creek at CTH ZZ<br>Curlyleaf Pondweed | Curly leaf pondweed observed | pappas  | 1/1/2015  | AIS      |
| Plum Creek at CTH ZZ<br>Purple Loosestrife | Purple loosestrife observed  | pappas  | 1/1/2015  | AIS      |
| Plum Creek at CTH ZZ SOS                   | Start of station             | pappaas | 1/1/2015  |          |
| Plum Creek at ManCal Road EOS              | end of station               | pappas  | 1/1/2015  |          |
| Plum Creek at ManCal Road<br>Phragmites    | phragmites observed          | pappas  | 1/1/2015  | AIS      |
| Plum Creek at ManCal Road SOS              | start of station             | pappas  | 1/1/2015  |          |
| Plum Creek at<br>Vanderwetting Road        |                              | pappas  | 1/1/2015  |          |

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|   |   |               |           |                        |
|---|---|---------------|-----------|------------------------|
| Plum and Kankapot Creek Targeted Watershed Assessment: A Water Quality Plan to Protect Wisconsin Watersheds | Plum Kankapot Creek TWA 3200-2020-23          | Hudak, Andrew | 6/22/2020 |                        |
| Plum and Kankapot Nine Key Element Plan   |   | Hudak Andrew  | 1/1/2015  | Nine Key Elements Plan |
| UNT to Kankapot Creek at CTH KK EOS   | end of station                                | pappas        | 1/1/2015  |                        |
| UNT to Kankapot Creek at CTH KK Rusty Crayfish  | Rusty Crayfish Observed                       | pappas        | 1/1/2015  | AIS                    |
| UNT to Kankapot Creek at CTH KK SOS   | start of station                              | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at HWY 10 EOS   | end of station                                | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at HWY 10 SOS   | start of station                              | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at Robinhood Drive  | looking downstream                            | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at Schmidt Road   |   | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at Schmidt Road EOS   | end of station                                | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at Schmidt Road eroded banks  | Eroded banks of a tributary to Kankapot Creek | pappas        | 1/1/2015  |                        |
| UNT to Kankapot at Schmidt Road sos   | start of station                              | pappas        | 1/1/2015  |                        |
| UNT to Plum Creek at CTH D EOS  | end of station                                | pappas        | 1/1/2015  |                        |
| UNT to Plum Creek at CTH D SOS  | start of station                              | pappas        | 1/1/2015  |                        |
| UNT to Plum Creek at Holland Road EOS   | end of station                                | pappas        | 1/1/2015  |                        |
| UNT to Plum Creek at Holland Road SOS   | start of station                              | pappas        | 1/1/2015  |                        |

### Budget

## Wisconsin Department of Natural Resources SWIMS Project Summary

Budget Description: TWA-PK Budget

Start Date: 5/1/2015

End Date: 12/31/2015

| Code    | Description                | Quantity | Units | Unit Cost | Total Cost | Comments                              |
|---------|----------------------------|----------|-------|-----------|------------|---------------------------------------|
| FTE     | FTE Hours                  | 172      | Hours | \$0.00    | \$0.00     |                                       |
| LTE SAL | LTE Salary                 | 122      | Hours | \$13.00   | \$1,586.00 | 11 Trips x 10 hrs = 12 hrs data entry |
| LTE FR  | LTE Fringe                 |          |       |           | \$391.74   |                                       |
| LTE IND | LTE Indirect               |          |       |           | \$319.80   |                                       |
| LTE TOT | LTE Total Cost             |          |       |           | \$2,297.54 |                                       |
| SUPPLY  | Supplies                   | 6        |       | \$25.00   | \$150.00   | Shipping                              |
| EQUIP   | Equipment                  |          |       |           | \$0.00     |                                       |
| MILEAGE | Mileage                    | 1200     | Miles | \$0.72    | \$864.00   |                                       |
| MEAL    | Meals                      | 24       | Meals | \$10.00   | \$240.00   |                                       |
| LODGE   | Lodging                    |          |       |           | \$0.00     |                                       |
| TRAVEL  | Travel Total               |          |       |           | \$1,104.00 |                                       |
| BUG     | Bug Contracts              | 10       |       | \$185.00  | \$1,850.00 |                                       |
| OTHER   | Other Contracts            | 2        |       | \$200.00  | \$400.00   | DNI Samples                           |
| USGS    | USGS Costs                 |          |       |           | \$0.00     |                                       |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$5,801.54 |                                       |

Total WSLH Lab Costs: \$0.00

Total Budget: \$5,801.54

Combined Budgets: \$5,801.54

Combined WSLH: \$0.00

Combined Total: \$5,801.54

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