

Wisconsin Department of Natural Resources

SWIMS Project Summary

General Project Information

Project ID: North_TWA_3_2016

Name: Big Weirgor Targeted Watershed Assessment, Rusk County

Type: Targeted Watershed Approach

Subtype: Protection (Healthy or Vulnerable)

Status: FINAL_RPT

Start Date: 7/1/2016

End Date: 6/30/2017

Purpose: The Big Weirgor Creek HUC 12 (070500010508) is a forested watershed in northern Rusk County. The upper 50% of the watershed is undeveloped publicly owned County Forest with 1.2 % hay and cropland. The lower 50% of the watershed is privately owned and agricultural use increases to 8%. One site on the Big Weirgor and Spring Creek have excellent IBIs for both fish and macroinvertebrate communities.

The Big Weirgor Creek Watershed is a possible candidate for applying the proposed protection tier for tiered aquatic life uses (TALU). Eight monthly water quality sampling from April through November are proposed at one site on the Big Weirgor and Spring Creek for TSS, NO₂-NO₃, TN, TP, Ammonia, along with field parameters. These sample events are proposed in conjunction with a local needs project. If the local needs project is not funded, the sampling events will be reduced to monthly from May-October. One Diatom sample will be collected from the most DS station on the Big Weirgor, likely DS of Old Murry Rd

Objective: Project objective is to characterize the Big Weirgor Creek watershed and its tributaries and determine if the water quality is excellent throughout all assessment units.

Waterways:
 Big Weirgor Creek WBIC 2370400
 Site headwaters tbd
 DS Meadow Dam Rd (10037799)
 DS old Murry Rd (10037800)
 Spring Creek WBIC 2374100
 Site 10012066
 Deer Creek WBIC 2374200
 Meadow Dam Road 10029020
 Headwater Site 10012869
 Un Trib to Big Weirgor WBIC 2374900 SWIMS 10029017
 Un Trib to Big Weirgor site tbd WBIC 2375200 or Un trib to Deer Creek site tbd WBIC 2374300

Comments: One year

Outcome: There will be 8 sample sites
 There will be 6 sampling events in FY16 and 11 in FY17
 Sample Collection dates are April through November 2016
 Data will be entered into SWIMS and FHDB by Spring 2017 depending on Bug sample turnaround

Final report possible May-June 2017, but depends on macroinvertebrate sample processing. Person(s) Responsible for entering data, Jon Kleist, Joe Cunningham or Jeff Jackson.

Study Design: 8 sites will be surveyed for fish, Qualitative Habitat and macroinvertebrates using standard WDNR sampling protocols. Additional fish surveys may be completed on small unsurveyed tributaries if time allows.

QA Measures: Standard WDNR protocols will be followed:

Fish Survey Baseline Protocols 2004
 Water Grab Sample Guidelines and Procedures 2005
 Nutrient Sampling SOPs (3.2) WQ Monitoring 2015
 Macroinvertebrate Baseline D-frame Kick Net 2004

People

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Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	COORDINATOR	COMPLETE	7/1/2016	6/30/2020	Wisconsin DNR	
CUNNINGHAM, JOSEPH L	COORDINATOR	ACTIVE	7/1/2016	6/30/2020	Wisconsin DNR	primary author
Helmuth, Lisa D	DATA_SUPPORT	INACTIVE	7/1/2016	9/30/2020	Wisconsin DNR	editor
JACKSON, JEFFREY L	COORDINATOR	ACTIVE	7/1/2016	6/30/2017	Wisconsin DNR	
KLEIST, JON J	PROJECT_LEAD	ACTIVE	7/1/2016	6/30/2020	Wisconsin DNR	
WENDLER, JEANETTE C	COORDINATOR	ACTIVE	7/1/2016	6/30/2017	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
2/17/2016	JON KLEIST	Progress: 75-100% Complete	
12/9/2016	JOSEPH CUNNINGHAM	Progress: 75-100% Complete	Fish, habitat, and macro invertebrate sampling complete. Data entry will be completed by 06/30/2017. Joe Cunningham and Jeff Jackson will be entering the data into the fish and habitat database. Project write up will be completed by 06/30/2017. [2019]
8/8/2019	Lisa Helmuth	Final Report Needed	NOR will finish the report write-up in 2019 for an early fall public comment period.
3/16/2020	Lisa Helmuth	Final Report Needed	draft prepared for regional completion.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	11 total sample sites.
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	Approximately 20 sampling events.
3. Proposed Dates for Sample Collection	2016 field season. Fish, habitat, macroinverts, and water chemistry data is complete.
4. List applicable databases and who will enter data?	Data will be entered into SWIMS and the fish and habitat database by Joe Cunningham and Jeff Jackson.
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 Targeted Watershed Area (TWA)		1/1/2015	12/31/2017	COMPLETE
Monitor Fish Community		7/1/2016	6/30/2017	COMPLETE
Water Quality Planning	TWA Project	7/1/2016	6/30/2020	IN_PROGRESS
Monitor or Assess Watershed Condition		7/1/2016	6/30/2017	COMPLETE
Monitor Aquatic Biology		7/1/2016	6/30/2017	COMPLETE

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Monitoring Stations		
Station ID	Name	Comments
10047173	Big Weirgor Creek DS Firelane Road	
10037799	Big Weirgor Creek DS Meadow Dam Road	
10029539	Big Weirgor Creek DS Shortcut Road	
10012951	Big Weirgor Creek US Reichel Rd	
10040990	Big Wiergor Cr. 275m US STH 40	
10029020	Deer Creek Meadow Dam Road	
10012869	Deer Creek US Serley Camp Trail	
10013183	Spring Creek DS ATV Site [Remap 12343]	Spring Creek - DS ATV Replaces 10012066
10012066	Spring Creek US ATV Trail	
10047174	UN Trib to Big Weirgor Cr US Four Hill Trail	
10029017	UN Trib to Big Weirgor Creek DS Four Hills Trail Rd	
10047172	Unnamed Tributary to Big Weirgor Creek-Outlet of Star Lake	
10050656	Unnamed Tributary to Deer Creek Upstream Meadow Dam Road	

Assessment Units			
WBIC	Segment	Local Name	Official Name
2370400	1	Big Wiergor Creek	Big Weirgor Creek
2370400	2	Big Weirgor Creek	Big Weirgor Creek
2370500	1	Little Weirgor Creek	Little Weirgor Creek
2374100	1	Spring Creek (Big Weirgor Creek Trib S4-S15 T36N R8W)	Spring Creek
2374200	1	Deer Creek	Deer Creek
2374200	2	Deer Creek	Deer Creek
2374900	1	Unnamed	Unnamed
2375100	1	Hill Trail Flowage	Hill Trail Flowage
2375200	1	Unnamed Stream	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
INORGANIC	Inorganic Lab - Field Data

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QUAL_FISH_HAB_LESS10	Qualitative Fish Habitat Less Than 10 M
QUAL_FISH_HAB_MORE10	Qualitative Fish Habitat More Than 10 M
STREAM_CHAR	Stream Characteristics Form (Qualitative Habitat) (form 3600-183 Back)
STREAM_MON	Stream Monitoring (Temp, DO, Trans, Flow)
WADEABLE_MACRO_FIELD	Wadeable Macroinvertebrate Field & Habitat Data

Methods

Method Code	Method Description
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
NUTRIENT SAMPLING STREAMS 2015	Nutrient Sampling SOPs (3.2) WQ Monitoring 2015
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
4/21/2016 11:43	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
4/21/2016 12:30	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
4/21/2016 13:35	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
10/24/2016	COMPLETE		10037799	Big Weirgor Creek DS Meadow Dam Road
10/24/2016	COMPLETE		10029017	UN Trib to Big Weirgor Creek DS Four Hills Trail Rd
10/24/2016	COMPLETE		10047173	Big Weirgor Creek DS Firelane Road
10/24/2016	COMPLETE		10029020	Deer Creek Meadow Dam Road
10/24/2016	COMPLETE		10047172	Unnamed Tributary to Big Weirgor Creek-Outlet of Star Lake
10/25/2016	COMPLETE	Downstream ATV trail	10012066	Spring Creek US ATV Trail
10/25/2016	COMPLETE	Upstream ATV trail	10012066	Spring Creek US ATV Trail
10/28/2016	COMPLETE		10012951	Big Weirgor Creek US Reichel Rd
10/28/2016	COMPLETE		10029539	Big Weirgor Creek DS Shortcut Road

Documents

Title	Description	Author	Published	Comments
Big Weirgor Creek at Reichel Road	NC Verification Report was run on BIG WEIRGOR CREEK - BIG WEIRGOR/ (10012068),	Cunningham, Joseph	11/30/2018	
Big Weirgor DS Fireln End1 7-1-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Cunningham, Joe	8/8/2016	

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Big Wiergor DS FireIn Start2 7-1-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Big Wiergor US Shortcut Rd Station End 1, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Big Wiergor US Shortcut Rd Station End 2, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Big Wiergor US Shortcut, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Deer Cr US Meadow Dam Rd 1, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Deer Cr US Meadow Dam Rd 2, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 10, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 11, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 1a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 1b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 2a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 2b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 3a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 3b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 4a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 4b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 5a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 5b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 6a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 6b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	

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Spring Creek 7a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 7b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 8a, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 8b, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek 9, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek un trib Pre ATV Trail-1, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek un trib Pre ATV Trail-2, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek un trib Pre ATV Trail-3, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Spring Creek un trib Pre ATV Trail-4, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Star Lake Outlet1 7-1-2016	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Star Lake Outlet2 7-1-2016	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Star Lake Outlet3 7-1-2016	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Star Lake Outlet4 7-1-2016	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Un Trib Deer Creek Culvert Meadow Dam Rd, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Un Trib to Deer Creek 2, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Un Trib to Deer Creek 3, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Un Trib to Deer Creek, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Unnamed Trib Big Weirgor Crk Outlet of Star Lake_515085696_2016	NC Verification Report was run on Unnamed Tributary to Big Weirgor Creek-Outlet of Star Lake, (10047172), located in RUSK County with fish Survey Sequence Number 515085696 sampled on July 1, 2016.	Cunningham, Joe	3/14/2019	
Untrib 4hill flowage1 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	

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Untrib 4hill flowage2 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Untrib 4hill flowage3 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Untrib 4hill flowage4 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Untrib 4hill flowage5 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Untrib 4hill flowage6 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	
Untrib 4hill flowage7 6-20-16, Big Weirgor Watershed	Photo for Big Weirgor Watershed Plan	Kleist or Cunningham, NOR WQ Biologist	8/8/2016	

Budget

Budget Description: Big Weirgor TALU April-June 2016	Start Date: 4/1/2016	End Date: 6/30/2016
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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	1		\$80.00	\$80.00	Sample Shipment/Ice
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	600	Miles	\$0.72	\$432.00	
MEAL	Meals	8	Meals	\$9.00	\$72.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$504.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$1,337.29	

Total WSLH Lab Costs: \$0.00
Total Budget: \$1,337.29

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Budget Description: Big Weirgor TALU July-December 2016 **Start Date:** 7/1/2016 **End Date:** 12/31/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	200	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	230	Hours	\$13.00	\$2,990.00	
LTE FR	LTE Fringe				\$738.53	
LTE IND	LTE Indirect				\$602.90	
LTE TOT	LTE Total Cost				\$4,331.43	
SUPPLY	Supplies	1		\$175.00	\$175.00	Sample Shipment/Ice
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	2000	Miles	\$0.72	\$1,440.00	
MEAL	Meals	20	Meals	\$9.00	\$180.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,620.00	
BUG	Bug Contracts	8		\$185.00	\$1,480.00	
OTHER	Other Contracts	1		\$300.00	\$300.00	2 sites, diatom sample analysis
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$7,906.43	

Total WSLH Lab Costs: \$0.00

Total Budget: \$7,906.43

Combined Budgets: \$9,243.73

Combined WSLH: \$0.00

Combined Total: \$9,243.73

Funding					
Organization	Source	Type	Amount	Start Date	End Date