

Wisconsin Department of Natural Resources

SWIMS Project Summary

General Project Information

Project ID: South_TWA_6_2017

Name: Legler School & Pioneer Valley Targeted Watershed Assessment

Type: Targeted Watershed Approach

Subtype: Effectiveness (BMP, Other)

Status: COMPLETE

Start Date: 7/1/2017

End Date: 6/30/2018

Purpose: This project was conducted to evaluate P and NOx concentrations, fisheries and habitat quality on Legler School and Pioneer Valley Creeks. Both creeks and their respective watersheds were part of a large-scale TRM project and EPA hypoxia grant that funded implementation of practices designed to reduce sediment and nutrient loading to these systems. Project implementation occurred from 2012 - 2014. This monitoring study evaluated the effectiveness of practices on both of these streams which are on the 303(d) list because of habitat degradation caused by sedimentation. HUC12 070900040402.

Read the <https://dnr.wi.gov/water/TwaPlanDetail.aspx?key=139819530>>Legler School & Pioneer Valley Targeted Watershed Assessment, Green County

Objective: This project evaluated the effectiveness of practices on both of these streams which are on the 303(d) list because of habitat degradation caused by sedimentation. It mirrored the project conducted in 2012 to gather baseline data prior to implementation of practices.

Comments:

Outcome: An evaluation of the data to determine pre and post implementation of practices. The relative health of the fishery, stream habitat, and water chemistry will be compared. Data will be collected during calendar year 2017. It will be entered into the FM database and SWIMS. Reports will be entered into SWIMS and WATERS. The data will be used to determine if either of these streams can be taken off the 303(d) list. Read the <https://dnr.wi.gov/water/TwaPlanDetail.aspx?key=139819530>>Legler School & Pioneer Valley Targeted Watershed Assessment, Green County

Study Design: This effectiveness project mirrored the project conducted in 2012 to gather baseline data prior to implementation of practices. Fisheries and quantitative habitat assessments will be conducted at 6 sites (3 per stream). Water chemistry (TP and NOx) will be sampled once per month during the growing season. Data will be compared with pre-implementation data.

QA Measures: All relevant SOPs will be followed for data collection. See attached information on project. Also, no blanks, duplicates or other in field QA records were collected. This does not include QA work at the laboratory.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AMRHEIN, JAMES F	COORDINATOR	COMPLETE	7/1/2017	6/30/2018	Wisconsin DNR	
AMRHEIN, JAMES F	PROJECT_LEAD	COMPLETE	7/1/2017	6/30/2018	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
Perdzock, Amanda R	COORDINATOR	ACTIVE	4/4/2018		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
1/20/2017	JAMES AMRHEIN	Proposed	
12/12/2017	JAMES AMRHEIN	Progress: 50-75% Complete	All data has been collected. Bugs will be taken to UWSP for analysis. 1st draft of report will be completed in winter 2017/18.
1/14/2019	JAMES AMRHEIN	Progress: 75-100% Complete	Draft of report is complete. Just awaiting review by fellow biologist. Will be finalized and uploaded to SWIMS when completed.

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2/6/2019	JAMES AMRHEIN	Complete	Final Report has been uploaded to SWIMS
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Project Status Detail

Actions

Action	Detailed Description	Start Date	End Date	Status
Runoff Grant - Targeted Runoff Rural	Legler School and Pioneer Valley Creeks. Both of these creeks and their respective watersheds were part of a large-scale TRM project	7/1/2017	6/30/2018	IN_PROGRESS

Details: Parameter	Value/Amount	Units	Comments
Clean Water Diversions in WQMA: Number of animal units for diversions			
Clean Water Diversions in WQMA: Number of farms with diversions			
Clean Water Diversions in WQMA: Pollutant load reduction			
Manure Storage Facilities: Number of animal units			
Manure Storage Facilities: Number of animal units for failing facilities			
Manure Storage Facilities: Number of closed facilities			
Manure Storage Facilities: Number of failing/leaking facilities			
Manure Storage Facilities: Number of new/altered facilities			
Nutrient Management on Agricultural Land: Acres planned			
Prohibition: Direct Runoff from Feedlot/Stored Manure: Number of Facilities			
Prohibition: Direct Runoff from Feedlot/Stored Manure: Number of animal units			
Prohibition: Direct Runoff from Feedlot/Stored Manure: Pollutant load reduction			
Prohibition: Manure Storage Overflow: Number of animal units			
Prohibition: Manure Storage Overflow: Number of farms			
Prohibition: Unconfined Manure Pile in WQMA: Number of farms			

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Details: Parameter	Value/Amount	Units	Comments		
Prohibition: Unlimited Livestock Access: Feet of bank protected					
Prohibition: Unlimited Livestock Access: Number of farms					
Sheet, rill and wind erosion: Acres meeting "T"					
Streambank & Shoreline Protection: Pollutant load reduction					
Streambank & Shoreline Protection: Units					
Monitor or Propose 303(d) Listing	Legler School and Pioneer Valley Creeks	7/1/2017	6/30/2018	IN_PROGRESS	
Monitor Targeted Watershed Area (TWA)	This project will evaluate the effectiveness of practices on both of these streams which are on the 303(d) list because of habitat degradation caused by sedimentation. HUC12 070900040402.	7/1/2017	6/30/2018	IN_PROGRESS	
Best Management Practices, Implement	Legler School and Pioneer Valley Creeks. Both of these creeks and their respective watersheds were part of a large-scale TRM project and EPA hypoxia grant that funded implementation of practices designed to reduce sediment and nutrient loading to these systems	7/1/2017	6/30/2018	COMPLETE	

Monitoring Stations

Station ID	Name	Comments
10037458	Krieg Valley Creek approx. 65 meters upstrm from confluence with Pioneer Valley Crk	
10048777	Legler School Br - Along Legler Rd (Dahlke Prpty)	
10012076	Legler School Br - Upstream Of Second St. Bridge	
10048778	Legler School Br - W6387 Legler Rd	
10034083	Legler School Branch along Legler Valley Road	
10037399	Legler School Branch at STH 69	
10037209	Pioneer Valley Creek at CTH O	
10029419	Pioneer Valley Creek at Pioneer Valley Road	
10037459	Pioneer Valley Creek at driveway at W6359 Klassy Road	

Assessment Units

WBIC	Segment	Local Name	Official Name
882900	1	Legler School Branch	Legler School Br
883100	1	Pioneer Valley Creek	Pioneer Valley Creek
883200	1	Krieg Valley Creek	Krieg Valley Creek

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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
FIELD CHEMISTRY FORM	Field Chemistry Form
CBSM-TEST	Macroinvertebrate Field Data
MACROINVERT_BASIC	Macroinvertebrate Survey Basic Form
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
WADEABLE_MACRO_FIELD_B ACK	Wadeable Macroinvertebrate Stream and Watershed Descriptions

Methods	
Method Code	Method Description
DNR-FPM-1001.3	Benthic Invertebrate D-Frame Net, Kick Samples 1988
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
5/24/2017 9:26	COMPLETE	PV-1-2017	10037209	Pioneer Valley Creek at CTH O
5/24/2017 9:38	COMPLETE	LSB-1-2017	10012076	Legler School Br - Upstream Of Second St. Bridge
6/28/2017	COMPLETE	LSB-2-2017	10012076	Legler School Br - Upstream Of Second St. Bridge
6/28/2017	COMPLETE	PV-2-2017	10037209	Pioneer Valley Creek at CTH O
10/4/2017	COMPLETE	20171004-23-01	10037209	Pioneer Valley Creek at CTH O
10/4/2017	COMPLETE	20171004-23-02	10029419	Pioneer Valley Creek at Pioneer Valley Road
10/4/2017	COMPLETE	20171004-23-03	10037458	Krieg Valley Creek approx. 65 meters upstrm from confluence with Pioneer Valley Crk
10/4/2017	COMPLETE	20171004-23-04	10037459	Pioneer Valley Creek at driveway at W6359 Klassy Road
10/4/2017	COMPLETE	20171004-23-05	10048778	Legler School Br - W6387 Legler Rd
10/4/2017	COMPLETE	20171004-23-06	10034083	Legler School Branch along Legler Valley Road

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10/4/2017	COMPLETE	20171004-23-07	10037399	Legler School Branch at STH 69	
Documents					
Title	Description	Author	Published	Comments	
Baseline Survey of Legler School Branch (2004)	2004 Baseline Survey of Legler School Branch	Jim Amrhein, Wisconsin DNR	8/30/2004		
Legler Pioneer Grant Report TRM	Legler Pioneer	WDNR			
Legler School & Pioneer Valley Creeks - Runoff Grant Final Report	Amrhein may be author (?)	Todd Jenson	1/26/2016		
Legler School Br & Pioneer Valley Br Targeted Watershed Assessment: A Water Quality Report to Restore Wisconsin Watersheds	Assessments and recommendations for the Watershed. Legler School Branch and Pioneer Valley Branch monitoring report	Amrhein, James	3/12/2020		
Legler School Br, Legler School Br - W6387 Legler Rd, Wadeable Macroinvertebrate Field Form	Legler School and Pioneer Valley TWA 2017-2018	JAMES AMRHEIN	10/4/2017		
Legler School Br, Legler School Branch along Legler Valley Road, Wadeable Macroinvertebrate Field Form	Legler School and Pioneer Valley TWA 2017-2018	JAMES AMRHEIN	10/4/2017		
Legler School Br, Legler School Branch at STH 69, Wadeable Macroinvertebrate Field Form	Legler School and Pioneer Valley TWA 2017-2018	JAMES AMRHEIN	10/4/2017		
Legler School Four Oaks 2017a Photo 1	Legler School Four Oaks 2017a Photo 1	Amrhein, Jim	3/19/2020		
Legler School Four Oaks 2017b Photo 2	Legler School Four Oaks 2017b Photo 2	Amrhein, Jim	3/12/2020		
Legler School Four Oaks 2017e Photo 3	Legler School Four Oaks 2017e Photo 3	Amrhein, Jim	3/19/2020		
Legler School Four Oaks Photo 4	Legler School Four Oaks Photo 4	Amrhein, Jim	3/19/2020		
Legler School and Pioneer Valley Branch Water Chemistry	This report summarizes the water chemistry sampling conducted during the 2012 growing season at the pour points of Pioneer Valley Creek (WBIC = 883100) and Legler School Branch (WBIC = 882900) prior to implementation of BMPs in their respective watersheds.	James Amrhein	4/11/2013		

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Legler School looking dwnstream from STH 69 photo 1	Legler School looking dwnstream from STH 69 photo 1	Amrhein, Jim	3/19/2020	
Legler School looking upstream from STH 69 (trail)	Legler School looking upstream from STH 69 (trail)	Amrhein, Jim	3/19/2020	
Legler School_Non-project area5_10-7-14	Legler School_Non-project area5_10-7-14	Amrhein, Jim	3/19/2020	
Macroinvertenbrates Legler School Branch and Pioneer Valley Creek 2017	Macroinvertebrate Data For the final report on the status of Legler School Branch and Pioneer Valley Creek in Green County Wisconsin. This is a post-rehabilitation, watershed project assessment.	Amrhein, James	1/1/2019	

Budget		
Budget Description:	Jan - June Funding	Start Date: 1/1/2017 End Date: 6/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	32	Hours	\$0.00	\$0.00	2 trips x 2 FTE x 8 hrs/day
LTE SAL	LTE Salary	16	Hours	\$13.00	\$208.00	2 trips x 1 LTE x 8 hrs/day
LTE FR	LTE Fringe				\$51.38	
LTE IND	LTE Indirect				\$41.94	
LTE TOT	LTE Total Cost				\$301.32	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	120	Miles	\$0.72	\$86.40	2 fish and hab trips x 60 miles round trip
MEAL	Meals	6	Meals	\$4.00	\$24.00	2 trips x 3 lunches/trip = 6 meals at bag lunch rate
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$110.40	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$411.72	

Total WSLH Lab Costs: \$0.00
Total Budget: \$411.72

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Budget Description: July - Dec Budget	Start Date: 7/1/2017	End Date: 12/31/2017
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	2 trips x 2 FTE x 8 hrs/day
LTE SAL	LTE Salary	16	Hours	\$13.00	\$208.00	2 trips x 1 LTE x 8 hrs/day
LTE FR	LTE Fringe				\$51.38	
LTE IND	LTE Indirect				\$41.94	
LTE TOT	LTE Total Cost				\$301.32	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	120	Miles	\$0.72	\$86.40	2 fish and hab trips x 60 miles round trip
MEAL	Meals	6	Meals	\$4.00	\$24.00	2 trips x 3 lunches/trip = 6 meals at bag lunch rate
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$110.40	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$411.72	

Total WSLH Lab Costs:	\$0.00
Total Budget:	\$411.72
Combined Budgets:	\$823.43
Combined WSLH:	\$0.00
Combined Total:	\$823.43

Funding					
Organization	Source	Type	Amount	Start Date	End Date