

Wisconsin Department of Natural Resources

SWIMS Project Summary

General Project Information

Project ID: East_TWA_7_2016

Name: Pigeon River Targeted Watershed Assessment, Waupaca County, 2015-17

Type: Targeted Watershed Approach

Subtype: Planning (WQ, Nine Key Element)

Status: COMPLETE

Start Date: 5/1/2016

End Date: 12/31/2017

Purpose: The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments based on phosphorus water quality standards in each subwatershed.

Objective: The Upper Pigeon River watershed evaluation (WBIC 293900 & 295600) will provide baseline water quality data prior to installation of non-point source BMP work in the watershed by NRCS and Waupaca County LWCD. An additional goal of the project is to conduct fish and aquatic life use impairment assessments based on phosphorus water quality standards in the Pigeon River tributaries. The Lower Pigeon River is on the 2014 Clean Water Act Section 303d list of impaired waters for the pollutant phosphorus. This project would support an Upper Pigeon River Non-Point Source Control Project planned by Waupaca County LWCD for 2015 through 2019 (1.3 million EQIP & RCPP dollars total). This project will supplement a Targeted Watershed Assessment project in the Lower Pigeon River Watershed and the South Branch of the Pigeon River water quality monitoring in 2015. An LTE and I or WAV volunteer will collect total phosphorus samples 6 times between May and October 2016 at 6 locations: Stations 10043171-10043173, 10043176, 10017231 & 10038319. All phosphorus monitoring data will be uploaded into SWIMS by the Wisconsin State Lab of Hygiene by 12/31/2016. Diatom samples will be collected at all TP sites in 2016. We will collect macroinvertebrate data at 5 locations on the North Branch and its tributaries: Stations 10043171-10043173, 10043176, & 10014786. All bug collection data will be uploaded into SWIMS by UWSP by Fall 2017. Fish surveys will be conducted at 4 locations: Stations 10043171-10043173 & 10043176. All fish data will be entered into the FMDB by 12/31/2016 by Water Resources staff. Additionally, we would collect continuous temperature data at 7 locations in the watershed of the North Branch of the Pigeon River from May through October: Stations 10043171-10043173, 10043176, 693135 & 10017231. All continuous temperature monitoring data will be uploaded into SWIMS by 12/31/2016. Final report will be written by 12/31/2017.

Comments: This is year 2 of a 2-year project

Outcome: Total Phosphorus, Diatoms, Fish, Aquatic Macroinvertebrates, and Temperature data will be collected in 2016 to complete an evaluation of the Upper Pigeon River watershed. This project is a two year project.

Study Design:

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

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BOLHA, DAVID A	COORDINATOR	ACTIVE	5/1/2016	12/31/2017	Wisconsin DNR	
DICKMANN, JACOB C	TEAM_MEMBER	COMPLETE	5/1/2016	12/31/2017	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
Kleeman, ZACHARY K	TEAM_MEMBER	COMPLETE	5/1/2016	12/31/2017	Wisconsin DNR	
WATSON, SAMANTHA M	TEAM_MEMBER	ACTIVE	5/1/2016	12/31/2017	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
1/21/2016	DAVID BOLHA	Progress: 25-50% Complete	

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12/27/2017	DAVID BOLHA	Complete	Final Report Completed and added to documents section.
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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 or Assess Watershed Condition	Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments based on phosphorus water quality standards in each subwatershed	5/1/2016	12/31/2017	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
10038319	NB Pigeon River DS Parkview Ave	
10043172	North Branch Pigeon River at Doty Creek Fishery Area	
10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.	
10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd	
10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd	
10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd	
10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138	

Assessment Units

WBIC	Segment	Local Name	Official Name
293900	1	North Branch Pigeon River	North Branch Pigeon River
293900	2	Doty Creek	North Branch Pigeon River
294000	1	Hydes Creek	Hydes Creek

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294000	2	Hydes Creek	Hydes Creek
294700	1	Unnamed Trib to N Br Pigeon R	Unnamed
295000	1	Mehlberg Creek	Mehlberg Creek
3000102	1	Unnamed Trib to N Br Pigeon River	Unnamed
5016138	1	Unnamed Trib to Pigeon River	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
CONTINUOUS	Continuous Data Upload

Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/6/2016	COMPLETE		10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
5/6/2016	COMPLETE		10043173	Unnamed Trib to N Br of Pigeon River US Gruntern Rd
5/6/2016	COMPLETE		10043172	North Branch Pigeon River at Doty Creek Fishery Area
5/6/2016	COMPLETE		10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
5/6/2016	COMPLETE		10038319	NB Pigeon River DS Parkview Ave
5/30/2016 17:44	COMPLETE	UNTPRS-2016-MAY	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
5/30/2016 17:51	COMPLETE	NBPRPA-2016-MAY	10038319	NB Pigeon River DS Parkview Ave
5/30/2016 18:06	COMPLETE	UNTMCM-2016-MAY	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
5/30/2016 18:16	COMPLETE	UNTPRK-2016-MAY	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
5/30/2016 18:28	COMPLETE	NBPRDC-2016-MAY	10043172	North Branch Pigeon River at Doty Creek Fishery Area
5/30/2016 18:33	COMPLETE	UNTPRG-2016-MAY	10043173	Unnamed Trib to N Br of Pigeon River US Gruntern Rd
7/8/2016 18:17	COMPLETE	UNTPRS-2016-JUNE	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
7/8/2016 18:27	COMPLETE	NBPRPA-2016-JUNE	10038319	NB Pigeon River DS Parkview Ave
7/8/2016 18:37	COMPLETE	NBPRDC-2016-JUNE	10043172	North Branch Pigeon River at Doty Creek Fishery Area
7/8/2016 18:45	COMPLETE	UNTMCM-2016-JUNE	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
7/8/2016 19:02	COMPLETE	UNTPRK-2016-JUNE	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
7/8/2016 19:04	COMPLETE	UNTPRG-2016-JUNE	10043173	Unnamed Trib to N Br of Pigeon River US Gruntern Rd
7/31/2016 17:55	COMPLETE	UNTPRS-2016-JULY	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.

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7/31/2016 18:04	COMPLETE	NBPRPA-2016-JULY	10038319	NB Pigeon River DS Parkview Ave
7/31/2016 18:14	COMPLETE	UNTPRK-2016-JULY	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
7/31/2016 18:23	COMPLETE	UNTMC-2016-JULY	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
7/31/2016 18:41	COMPLETE	NBPRDC-2016-JULY	10043172	North Branch Pigeon River at Doty Creek Fishery Area
7/31/2016 18:43	COMPLETE	UNTPRG-2016-JULY	10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd
8/25/2016 9:25	COMPLETE	UNNAMED TRIB TO PIGE	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
8/31/2016 19:25	COMPLETE	UNTPRS-2016-AUGUST	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
8/31/2016 19:33	COMPLETE	NBPRPA-2016-AUGUST	10038319	NB Pigeon River DS Parkview Ave
8/31/2016 19:40	COMPLETE	UNTPRK-2016-AUGUST	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
8/31/2016 19:46	COMPLETE	UNTMC-2016-AUGUST	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
8/31/2016 19:58	COMPLETE	NBPRDC-2016-AUGUST	10043172	North Branch Pigeon River at Doty Creek Fishery Area
8/31/2016 20:04	COMPLETE	UNTPRG-2016-AUGUST	10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd
9/16/2016 14:40	COMPLETE	UNNAMED TRIB	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
9/30/2016 17:26	COMPLETE	UNTPRS-2016-SEPTEMBE	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
9/30/2016 17:37	COMPLETE	NBPRPA-2016-SEPTEMBE	10038319	NB Pigeon River DS Parkview Ave
9/30/2016 17:41	COMPLETE	UNTPRK-2016-SEPTEMBE	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
9/30/2016 17:47	COMPLETE	UNTMC-2016-SEPTEMBER	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
9/30/2016 18:03	COMPLETE	NBPRDC-2016-SEPTEMBE	10043172	North Branch Pigeon River at Doty Creek Fishery Area
9/30/2016 18:07	COMPLETE	UNTPRG-2016-SEPTEMBE	10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd
10/13/2016	COMPLETE		10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd
10/13/2016	COMPLETE		10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd
10/13/2016	COMPLETE		10043172	North Branch Pigeon River at Doty Creek Fishery Area
11/1/2016	COMPLETE		10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
11/2/2016	COMPLETE		10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.
10/10/2017 10:10	COMPLETE	NORTH BRANCH PIGEON	10043172	North Branch Pigeon River at Doty Creek Fishery Area
10/10/2017 10:10	COMPLETE	UNNAMED TRIB TO N BR	10043173	Unnamed Trib to N Br of Pigeon River US Grunstern Rd
10/10/2017 11:05	COMPLETE	UNNAMED TRIB (MEHLBE	10043176	Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd
10/10/2017 11:25	COMPLETE	UNNAMED TRIB TO N BR	10043171	Unnamed Trib to N Branch Pigeon River at Kopitzke Rd

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10/10/2017 12:10	COMPLETE	NB PIGEON RIVER DS P	10038319	NB Pigeon River DS Parkview Ave
10/10/2017 13:10	COMPLETE	TRIB TO N BR PIGEON-	10017231	Trib. To N. Br. Pigeon (Hydes Creek)-Swamp Rd.

Documents

Title	Description	Author	Published	Comments
2016 Total Phosphorus Monitoring Report - NB Pigeon River DS Parkview Ave	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	
2016 Total Phosphorus Monitoring Report - North Branch Pigeon River at Doty Creek Fishery Area	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	
2016 Total Phosphorus Monitoring Report - Un Trib to NB Pigeon River (Hydes Creek)-Swamp Rd	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	

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2016 Total Phosphorus Monitoring Report - Unnamed Trib (Mehlberg Cr) to N Br of Pigeon River US Burma Rd	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	
2016 Total Phosphorus Monitoring Report - Unnamed Trib to N Br of Pigeon River US Gruntern Rd	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	
2016 Total Phosphorus Monitoring Report - Unnamed Trib to N Branch Pigeon River at Kopitzke Rd	The Upper Pigeon River watershed evaluation in 2016 is a continuation of the 2015 project, and will provide baseline water quality data to complete a watershed plan in 2017. This field season will focus on the North Branch of the Pigeon River and its tributaries. An additional goal of the project is to conduct fish and aquatic life use impairment assessments in each subwatershed. Volunteers were selected to sample for total phosphorus at 6 sites for this project.	Ilana Haimes	1/6/2017	
Pigeon River Targeted Watershed Assessment: A Plan to Protect and Restore Wisconsin Watersheds	Pigeon River Targeted Watershed Assessment: A Plan to Restore Wisconsin Watersheds (2020) Public Review Draft	Bolha, David	4/20/2020	

Budget

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Budget Description: North Branch FY2017 Budget		Start Date:		End Date:	
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	120	Hours		\$0.00	
LTE SAL	LTE Salary	140	Hours	\$13.00	\$1,820.00	
LTE FR	LTE Fringe				\$449.54	
LTE IND	LTE Indirect				\$366.98	
LTE TOT	LTE Total Cost				\$2,636.52	
SUPPLY	Supplies	1		\$300.00	\$300.00	Batteries, Ice, Shipping, and WIR Paper
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1000	Miles	\$0.62	\$620.00	
MEAL	Meals	20	Meals	\$10.00	\$200.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$820.00	
BUG	Bug Contracts	5		\$185.00	\$925.00	
OTHER	Other Contracts	6		\$150.00	\$900.00	Diatom Samples
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$5,581.52	

Total WSLH Lab Costs: \$0.00
Total Budget: \$5,581.52

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Budget Description: North Branch FY16 Budget	Start Date: 2/1/2016	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		\$50.00	\$50.00	Hobo supplies
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	200	Miles	\$0.62	\$124.00	
MEAL	Meals	4	Meals	\$10.00	\$40.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$164.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$967.29	

Total WSLH Lab Costs: \$0.00
Total Budget: \$967.29

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Budget Description: Test			Start Date: 2/7/2023	End Date: 2/7/2023
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage		Miles	\$0.72	\$0.00	
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$0.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$0.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
ICC53010FF	ORTHO PHOSPHATE BY LACHAT FF	INORGANIC CHEM DEPT	1	\$32.00	\$32.00

Total WSLH Lab Costs:	\$32.00
Total Budget:	\$32.00
Combined Budgets:	\$6,548.82
Combined WSLH:	\$32.00
Combined Total:	\$6,580.82

Funding					
Organization	Source	Type	Amount	Start Date	End Date