

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID:	South_TWA_3_2015
Name:	Mineral Point Branch TWA WQM Plan, 2017
Type:	Targeted Watershed Approach
Subtype:	Evaluation (TP SSC, Stressor, Bioassess)
Status:	COMPLETE
Start Date:	1/8/2015
End Date:	12/31/2015
Purpose:	Monitor the contemporary status for this subwatershed (HUC 12) in the Mineral Point Branch watershed. The department needs current fish, habitat, macroinvertebrate and water chemistry data for streams in this watershed. The data will be used to determine whether these streams are achieving their attainable use in order to update the watershed tables, list waters that are not meeting their attainable use, and assess the overall health of the watersheds as required by Section 305(b) of the Clean Water Act. The data, used in conjunction with observations about watershed health, will be used to guide planning for improvements where needed.
Objective:	This subwatershed, and the adjoining subwatersheds that make up the HUC 10 were identified as one of the top group watersheds for nutrient input by the WI Nutrient Reduction Strategy. Data gathered for this project will be used to update the watershed plan and stream narratives in the State of the Basin report. It will also be used to update information related to impaired waters listings. The project will also help identify more local areas in need of management. This area was also identified by the Southwest Grasslands State Conservation Area as a priority area for enlisting landowners in conservations practices that will hopefully result in better water quality in addition to preservation of sensitive bird species.
Comments:	070900030102) Targeted Watershed Project
Outcome:	A Water Quality Plan for SP09 based on monitoring of the contemporary status of this subwatershed (HUC 12) in the Mineral Point Branch watershed. The DNR department collected fish, habitat, macroinvertebrate and water chemistry data for streams in this watershed. The data was used to determine whether these streams are achieving their attainable use to update the watershed tables, list waters are not meeting attainable use, and assess the overall health of the watersheds as required by Section 305(b) of the Clean Water Act. The data, used in conjunction with observations about watershed health, was be used to guide planning for improvements where needed. This subwatershed, and the adjoining subwatersheds that make up the HUC 10 were identified as one of the top group watersheds for nutrient input by the WI Nutrient Reduction Strategy
Study Design:	Data on fish assemblage, qualitative habitat, and macroinvertebrates will be collected from 11 sites in the targeted HUC 12. Phosphorus data will be collected 6 times during the growing season from the pour point of the subwatershed. Data will be collected during the field season of the 2015 calendar year. Data will be entered into the FH database and SWIMS. Updated streams narratives and watershed reports will be entered into SWIMS and WATERS. All data will be entered into the respective database by December, 2015 or as soon as it is available. A final report will be drafted in winter 2016/17.
QA Measures:	Standard DNR and SLOH protocols will be followed.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AMRHEIN, JAMES F	PROJECT_LEA D	COMPLETE	1/8/2015	12/31/2015	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
SORGE, MICHAEL J	COORDINATOR	ACTIVE	1/8/2015	12/31/2015	Wisconsin DNR	

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Project Statuses

Date	Reported By	Status	Comments
1/28/2015	JAMES AMRHEIN	Proposed	

Project Status Detail

Answer Set: DEFAULT

Question	Answer
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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 Baseline Survey		1/8/2015	12/31/2015	PROPOSED
Monitor Watershed (Status,Sources,Impairments)		1/8/2015	12/31/2015	PROPOSED
Monitor or Assess Watershed Condition		1/8/2015	12/31/2015	PROPOSED
Water Quality Planning		1/8/2015	12/31/2015	PROPOSED
Monitor Targeted Watershed Area (TWA)	A Water Quality Plan for SP09 based on monitoring of the contemporary status of this subwatershed (HUC 12) in the Mineral Point Branch watershed. The DNR department collected fish, habitat, macroinvertebrate and water chemistry data for streams in this watershed. The data was used to determine whether these streams are achieving their attainable use to update the watershed tables, list waters are not meeting attainable use, and assess the overall health of the watersheds as required by Section 305(b) of the Clean Water Act. The data, used in conjunction with observations about watershed health, was be used to guide planning for improvements where needed. This subwatershed, and the adjoining subwatersheds that make up the HUC 10 were identified as one of the top group watersheds for nutrient input by the WI Nutrient Reduction Strategy.	4/1/2015	6/30/2017	COMPLETE
Natural Community Review or Change	The classification of Furnace Branch should be updated to reflect the current biota using a contemporary classification system.	1/15/2018		PROPOSED

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Natural Community Review or Change	The classification of Brewery Creek should be updated to reflect the biota using a contemporary classification system.	1/15/2018		PROPOSED
Fish Management, Access	Fisheries management should determine the reason for lack of trout returns in the Rock Branch to determine if it is practical to continue stocking efforts.	1/15/2018		PROPOSED
Partnership Project	DNR should seek opportunities to work collaboratively on projects which would benefit overall ecosystem health. Such opportunities include working with the Southwest Grasslands and Stream Conservation Area and Southwest Grasslands Bird Conservation Area. The department should work with groups to identify areas which would overlap as a priority for these programs, such as the upper Mineral Point watershed. These projects would also benefit Ludden Lake.	1/15/2018		PROPOSED
Fish Management, Access	Fisheries management may want to consider the lower half of Laxey Creek as a managed smallmouth bass water (nursery stream) as it may be hospitable for some production of bass.	1/15/2018		PROPOSED
Fish Management, Access	Fisheries management should determine the reason for lack of trout returns in the upper Sudan Branch to determine if it is practical to continue stocking efforts..	1/15/2018		PROPOSED
Monitor or Propose 303(d) Listing	Ludden Lake should be added to the state's 303(d) list of impaired waters because levels of total phosphorus and chlorophyll a exceed criteria and thresholds for shallow lowland lakes. The department should seek the aforementioned opportunities to work with partners to decrease soil and nutrient loss in the watershed upstream of Ludden Lake in order to improve water clarity, enhance macrophyte growth, and maintain the depth of the lake system which has been decreased over time due to sediment loads from upstream.	1/15/2018		PROPOSED
Best Management Practices, Implement	Total phosphorus exceeds the state criteria of 0.075 mg/l and thus Mineral Point Branch will remain on the state's 303(d) list of impaired waters. The aforementioned nonpoint source best management practices would also help reduce phosphorus delivery to the stream. Fisheries management has several recommendations for Mineral Point Branch: no stocking of fish, maintaining the current size regulations, develop projects which would provide more habitat for smallmouth bass, especially the creation of deep pools and runs to hold adults year round. Below Ludden Lake specifically, fisheries management recommends looking at efforts to secure streambank easements.	1/15/2018		PROPOSED
Natural Community Review or Change	The department should revise the classification of Laxey Creek to remove the variance section at the headwater.	1/15/2018		PROPOSED

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Monitoring Stations

Station ID	Name	Comments
10042651	Mineral Point Br start of State Property off West Bennett Rd	
253176	Mineral Point Branch - (Bridge) - N. Oak Park Rd	
10043906	Mineral Point Branch - STH 39	
253194	Mineral Point Branch E of Survey Rd	
10043802	Mineral Point Branch at Mill Creek Road	
10043690	Unnamed Trib (928500) to Rock Br at Brecken Rd	
10043692	Unnamed Trib (930300) to Mineral Point Br upstrm of confl. with Mineral Pt Br.	
10043685	Unnamed Trib (930900) to Mineral Point Br at S. Barreltown Rd	
10040048	Unnamed Trib (931000) to Mineral Point Br at Survey Rd	
10042383	Unnamed Trib (931200) to Mineral Point Br at Survey Rd	
10043686	Unnamed Trib (931300) to Mineral Point Br at Survey Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
927900	1	Mineral Point Branch	Mineral Point Br
928200	1	Rock Branch	Rock Br
928500	1	Trib to Rock Br	Unnamed
928600	1	Brewery Creek	Brewery Creek
929000	1	Sudan Branch	Sudan Br
930300	1	Local Water	Unnamed
930700	1	Ludden Lake	Ludden Lake
930900	1	Local Water	Unnamed
931000	1	Unnamed Trib to Mineral Point Br at Survey Rd	Unnamed
931200	1	Local Water	Unnamed
931300	1	Local Water	Unnamed
3000077	2	Laxey Creek	Laxey Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	3/26/2014	12/31/2015

Forms

Form Code	Form Name
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Methods

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Method Code		Method Description		
Fieldwork Events				
Start Date	Status	Field ID	Station ID	Station Name
10/6/2015	COMPLETE	20151006-25-01	253194	Mineral Point Branch E of Survey Rd
10/6/2015	COMPLETE	20151006-25-02	10043686	Unnamed Trib (931300) to Mineral Point Br at Survey Rd
10/6/2015	COMPLETE	20151006-25-03	10042383	Unnamed Trib (931200) to Mineral Point Br at Survey Rd
10/6/2015	COMPLETE	20151006-25-04	10040048	Unnamed Trib (931000) to Mineral Point Br at Survey Rd
10/6/2015	COMPLETE	20151006-25-05	10043685	Unnamed Trib (930900) to Mineral Point Br at S. Barreltown Rd
10/7/2015	COMPLETE	20151007-25-07	253176	Mineral Point Branch - (Bridge) - N. Oak Park Rd
10/7/2015	COMPLETE	20151007-25-08	10043692	Unnamed Trib (930300) to Mineral Point Br upstrm of confl. with Mineral Pt Br.
Documents				
Title	Description	Author	Published	Comments
Brewery Creek - Near Recreational Trail NC Validation	Brewery Creek - Near Recreational Trail NC Validation	Amhrein, Jim	5/22/2017	
Brewery Creek 142 M downstream of Jackson St. NC Validation 2017	Brewery Creek 142 M downstream of Jackson St. NC Validation 2017	Amrhein, Jim	5/8/2017	
Brewery Creek Station 1 (N. Of Sth 23) (Station 10008015) - below Copper Creek	Brewery Cr. Station 1 (N. Of Sth 23) (Station 10008015) - below Copper Creek	Amrhein, Jim	5/22/2017	
Brewery Creek at Ferndale Rd (Station 253200)	Brewery Creek at Ferndale Rd (Station 253200)	Amrhein, Jim	5/22/2017	
Final Report of an Assessment of Water Quality in the Mineral Point and Sudan Branches Watershed (HUC 10: 0709000301) 2015	This is a final report of the 2015 assessment of the Mineral Point and Sudan Branches watershed. HUC 10: 0709000301.	James Amrhein	12/1/2016	
Furnace Creek at CTH O (Station 333206) Natural Community	Furnace Creek at CTH O (Station 333206) Natural Community 928000	Amrhein, Jim	1/1/2017	
Laxey Creek (formerly Pedler Cr) - Dwns. Cth B Natural Community	Laxey Creek (formerly Pedler Cr) - Dwns. Cth B Natural Community	Amrhein, Jim	5/22/2017	
Laxey Creek (formerly Pedler Cr) - Ups. Cave Rd Natural Community	Laxey Creek (formerly Pedler Cr) - Ups. Cave Rd Natural Community	Amrhein, Jim	5/22/2017	
Laxey Creek (formerly Pedler Cr) - Ups. Sth 39 (Station 10015967)	Laxey Creek (formerly Pedler Cr) - Ups. Sth 39 (Station 10015967)	Amrhein, Jim	5/22/2017	

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Mineral Point Br - N Oak Park Road Bridge 103993	Mineral Point Br - N Oak Park Road Bridge 103993	Amrhein, Jim	5/22/2017	
Mineral Point Branch - Farm Crossing at 0276 Pittz-Schaaf Rd Natural Community	Mineral Point Branch - Farm Crossing at 0276 Pittz-Schaaf Rd Natura	Amrhein, Jim	5/23/2017	
Mineral Point Branch At Oak Park Rd (Near County Line)	Mineral Point Branch At Oak Park Rd (Near County Line)	Amrhein, Jim	5/22/2017	
Mineral Point Branch at Mill Creek Road Natural Community	Mineral Point Branch at Mill Creek Road Natural Community	Amrhein, Jim	5/22/2017	
Mineral Point Branch below Ludden Lake	Mineral Point Branch below Ludden Lake	Amrhein, Jim	4/23/2017	
Mineral Point and Sudan Branches TWA WQM 2017 [SP09] Presentation	Mineral Point and Sudan Branches TWA WQM Plan 2017 [SP09]	James Amrhein, Wisconsin DNR	8/8/2017	
Mineral Point and Sudan Branches TWA WQM Plan 2017 [SP09]	A Water Quality Plan for SP09 based on monitoring of the contemporary status of this subwatershed (HUC 12) in the Mineral Point Branch watershed. Based on https://prodoasint.dnr.wi.gov/swims/downloadDocument.do?id=140925097	Amrhein, James	4/23/2017	
Rock Branch Station 1-Suthers Rd NC Validation 2017	10008039 Rock Branch Station 1-Suthers Rd NC Validation 2017	Amrhein, Jim	1/1/2017	
Rock Branch Station 3 2017 NC Validation	Rock Branch Station 3 2017 NC Validation	Amrhein, Jim	1/1/2017	
Sudan Branch off Stude Road 6 (929000)	Sudan Branch off Stude Road 6 (929000)	Amrhein, Jim	1/1/2017	
Sudan Branch off Stude Road 7 (929000)	Sudan Branch off Stude Road 7 (929000)	Amrhein, Jim	1/1/2017	
Unnamed Trib (928700) to Brewery Cr at Merry Christmas Ln Natural Community 2017	Unnamed Trib (928700) to Brewery Cr at Merry Christmas Ln Natural Community 2017 10043694	Amrhein, Jim	5/8/2017	
Unnamed Tributary to Sudan Branch at CTH E - II (929400)	Unnamed Tributary to Sudan Branch at CTH E - II (929400)	Amrhein, Jim	5/1/2017	
Unnamed Tributary to Sudan Branch at CTH E - III (929400)	Unnamed Tributary to Sudan Branch at CTH E - III (929400)	Amrhein, Jim	5/1/2017	
Unnamed Tributary to Sudan Branch at CTH E - IV (929400)	Unnamed Tributary to Sudan Branch at CTH E - IV (929400)	Amrhein, Jim	5/1/2017	
Unnamed Tributary to Sudan Branch at CTH E - V (929400)	Unnamed Tributary to Sudan Branch at CTH E - V (929400)	Amrhein, Jim	5/1/2017	

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Unnamed Tributary to Sudan Branch at CTH E - VI (929400)	Unnamed Tributary to Sudan Branch at CTH E - VI (929400)	Amrhein, Jim	5/1/2017	
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Budget

Budget Description: Jan - June 2015	Start Date: 1/1/2015	End Date: 6/30/2015
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	48	Hours	\$0.00	\$0.00	9 trips x 2 FTE x 8 hrs/trip (divided by fiscal yr)
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	6 trips x 1 LTE x 8 hrs/trip (divided by fiscal yr)
LTE FR	LTE Fringe				\$77.06	
LTE IND	LTE Indirect				\$62.91	
LTE TOT	LTE Total Cost				\$451.98	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	300	Miles	\$0.72	\$216.00	9 trips x 100 miles/trip (divided by fiscal yr)
MEAL	Meals	12	Meals	\$4.00	\$48.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$264.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$715.98	

Total WSLH Lab Costs: \$0.00
Total Budget: \$715.98

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Budget Description: July - December, 2015 **Start Date:** 7/1/2015 **End Date:** 12/31/2015

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	96	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	
LTE FR	LTE Fringe				\$77.06	
LTE IND	LTE Indirect				\$62.91	
LTE TOT	LTE Total Cost				\$451.98	
SUPPLY	Supplies	600			\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage		Miles	\$0.72	\$0.00	
MEAL	Meals	12	Meals	\$4.00	\$48.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$48.00	
BUG	Bug Contracts	8		\$185.00	\$1,480.00	
OTHER	Other Contracts	1		\$200.00	\$200.00	Diatom analysis
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,179.98	

Total WSLH Lab Costs: \$0.00
Total Budget: \$2,179.98

Combined Budgets: \$2,895.95
Combined WSLH: \$0.00
Combined Total: \$2,895.95

Funding					
Organization	Source	Type	Amount	Start Date	End Date