

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_21_CMP13B
Name: Western District 303d Monitoring 2013 - WCR_21_CMP13B
Type: Competitive Projects
Subtype: Impaired Water Assessment
Status: ACTIVE
Start Date: 05/01/2013
End Date: 12/31/2013
Purpose: The Western District proposes to update the existing data on 1 stream and 1 River currently listed as 303d impaired waters and collect additional data on 8 streams that show signs of impairment but are lacking current information. The water bodies to be monitored include Fall Creek, Sevenmile Creek, Sherman Creek, Beaver Creek, Jug Creek, Bears Grass Creeks, 3 unnamed tributaries to Black Creek in Marathon county and the South Fork of the Lemonweir River.

Data collection for the two currently listed 303d impaired waters (Jug Creek and the South Fork of the Lemonweir River) will include fish and qualitative habitat surveys, macroinvertebrate samples and continuous temperature monitoring. In addition, continuous water quality data including dissolved oxygen, pH, temperature and conductivity data will be collected by sondes deployed in the South Fork of the Lemonweir River during low flow summer conditions. The South Fork of the Lemonweir River is listed as impaired with total phosphorous as the pollutant and low dissolved oxygen as the impairment.

Limited data collected from Fall Creek, Sherman Creek, Beaver Creek (Trib to Otter) and three unnamed creeks in Marathon County show poor conditions. Monitoring will include fish, qualitative habitat, continuous temperature and macroinvertebrates to determine if poor conditions exist. Monitoring at multiple locations on streams will determine the extent of poor conditions if they exist. In addition to the biological monitoring, total phosphorus monitoring and macroinvertebrate sampling will be completed at four sites on four streams. These streams include Sevenmile Creek, Beaver Creek (trib to Eau Claire), Bears Grass Creek and Fall Creek. High TP concentrations are suspected in these streams and Department staff want to assess their contribution to Lake Altoona (a downstream impoundment). Currently the lakes program is conducting impairment monitoring on Lake Altoona. Monitoring on these streams is a priority of both the Lakes, Streams and Fisheries programs. Fisheries Management will be assessing some of these streams to determine cold water potential.

Objective: This project supports the impaired waters project category. Monitoring on the existing 303d waters will validate and improve the existing listings. Monitoring on streams with impairment indicators or flagged streams will allow us update our data and make a 303d listing decision. Data collected will help define the current condition of the streams, the extent of degraded habitat, document any water temperature limitations and outline any water quality issues.

The two currently listed 303d impaired waters to be monitored include Jug Creek (WBIC 1195500) and the South Branch of the Lemonweir River (WBIC 1338500). Jug Creek is a 4.7 mile long stream located in Vernon County. 2 TBD sites on Jug Creek and 1 TBD on South Jug Creek (WBIC 1195600) would be surveyed for fish and qualitative habitat, sampled for macroinvertebrates and continuous temperature monitoring. South Jug Creek is not considered impaired but is a large tributary that could be used as a reference site for the upper end of the impaired Jug Creek. The South Branch of the Lemonweir River is located in eastern Monroe County. The currently impaired stretch of river runs from the Lake Tomah dam down to the confluence of Kreyer Creek. The segment of stream to be surveyed in this proposal would run from the Lake Tomah dam down to the confluence with the Lemonweir River. 3 TBD sites would be surveyed for fish and qualitative habitat, sampled for macroinvertebrates and continuous temperature monitoring. 1 additional site (SWIMS 423084) on the South Fork of the Lemonweir River is already planned to be surveyed this year at HWY 12 as one of the Severely Impacted sites. Continuous temperature monitoring would be added to this site as well. In addition, continuous water quality data including dissolved oxygen, pH, temperature and conductivity data will be collected by a sondes deployed in the South Fork of the Lemonweir River during low flow summer conditions. The data will help confirm the dissolved oxygen impairment.

Fish, habitat, temperature and bug data will be collected from Fall Creek (3), Sevenmile (1), Sherman Creek (2), Beaver Creek (3), three unnamed Creeks to Black (5). Data collected from these streams will be used to determine if streams are biologically in poor condition and if habitat or water temperatures are a limiting factors. WCR fisheries will also be assessing sites on these streams to determine cold water potential. TP data will be collected at four sites monthly from May through October (Fall, Sevenmile, Beaver and Bears Grass Creeks). TP data from these streams will be assessed along with TP data collected previously from other streams to determine TP contributions to Lake Altoona. The Lakes program is currently assessing the water quality of Lake Altoona to make an impairment decision.

Comments: This is a new 303d stream project and sites will be determined after field recon is completed.

Outcome: Fish and qualitative habitat surveys, macroinvertebrate sampling and continuous temperature monitoring will be completed at 6 sampling sites on two existing 303d listed streams/rivers. In addition, continuous water quality monitoring sondes will be deployed in the South Branch of the Lemonweir River during low flow conditions to capture dissolved oxygen, pH, temperature and conductivity data that will be used to help confirm the listed impairments. All of these waterbodies are lacking recent information.

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Fish and qualitative habitat surveys (14 sites), macroinvertebrate sampling (15 sites) and continuous temperature monitoring (10 sites) will be completed on streams where previous limited data indicates poor conditions. Data will be used to make impairment decisions for these streams. TP and macroinvertebrate monitoring will be completed near the pour point of four streams to assess stream condition and TP contribution to Lake Altoona.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
HAZUGA, MARK J	COORDINATOR	COMPLETE	05/01/2013	12/31/2013	Wisconsin DNR	
JACOBSON, MATTHEW J	TEAM_MEMBER	ACTIVE	05/01/2013	12/31/2013	Wisconsin DNR	
LALIBERTE, PAUL J	SUPERVISOR	COMPLETE	05/01/2013	12/31/2013	Wisconsin DNR	
RASMUSSEN, KURT	COORDINATOR	ACTIVE	05/01/2013	12/31/2013	Wisconsin DNR	
SCHEUNEMANN, ADAM T	TEAM_MEMBER	ACTIVE	05/01/2013	12/31/2013	Wisconsin DNR	
SCHWEITZER, JACOB R	TEAM_MEMBER	ACTIVE	01/04/2013	12/31/2013	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
01/31/2013	MARK HAZUGA	Proposed	This project cover the entire Western District
02/05/2013	RUTH PERSON	Proposed	(This project is partially a continuation of WCR 303d Stream Assessments 2012 - WCR_02_CMP13.)
09/30/2013	MARK HAZUGA	Progress: 50-75% Complete	All monitoring has been completed except Sherman Creek was not evaluated as planned. FM didn't stock feral brook trout into the stream as planned but will stock in 2014. Macroinvertebrate and water chemistry sampling is scheduled for October. Some analysis will be completed this winter (Total phosphorus and fisheries) but invertebrate samples will not be available until early summer 2014.
04/30/2014	MARK HAZUGA	Progress: 75-100% Complete	All monitoring complete and bug samples delivered to UWSP. Expect bug results by winter 2015. Draft reports completed for Hay, Diamond and Thompson Valley Creeks. Data will be shared with County LCD and downstream lake group.
12/04/2014	MARK HAZUGA	Progress: 75-100% Complete	Project status same. Bug data just received.
12/23/2014	KURT RASMUSSEN	Progress: 75-100% Complete	Field work complete. Bug data just received.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	21 bug 20 fish and habitat 17 continuous temperature 4 TP
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	1 sampling event each for bugs, fish, habitat and continuous temperature. 4 tp sites will have 6 sampling events. Continuous water quality

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Question

Answer

- 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?

monitoring with sondes will require 3 sampling events.
 May through October
 Swimms and FH database
 Yes
 Yes, data entry complete but summary and WATERS update will not be completed until macroinvertebrate data results are received from UWSP

Actions

Action	Detailed Description	Start	End Date	Status
Monitor or Propose 303(d) Listing	The water bodies to be monitored include Fall Creek, Sevenmile Creek, Sherman Creek, Beaver Creek, Jug Creek, Bears Grass Creeks, 3 unnamed tributaries to Black Creek in Marathon county and the South Fork of the Lemonweir River. Data collection for the two currently listed 303d impaired waters (Jug Creek and the South Fork of the Lemonweir River) will include fish and qualitative habitat surveys, macroinvertebrate samples and continuous temperature monitoring. In addition, continuous water quality data including dissolved oxygen, pH, temperature and conductivity data will be collected by sondes deployed in the South Fork of the Lemonweir River during low flow summer conditions.	05/01/2013	12/31/2013	COMPLETE

Details:	Parameter	Value/Amount	Units	Comments
	Temperature			
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

Monitoring Stations

Station ID	Name	Comments
10017063	Bears Grass Creek - Directly Below Bridge On Lincoln Dr. (Site #Bg1)	
10008299	Beaver Creek - Station 1-Cth D	
10008300	Beaver Creek - Station 2 (atMallard Rd)	
10008301	Beaver Creek - Station 3 (atCth Hh)	
183079	Beaver Creek at 140th Ave Bdge	
373351	Black Creek Trib - Town Line Lane (east of Nehrbras rd)	
10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J	
10011084	Jug Creek Station #1 Bridge On South Jug Creek Rd.	
10011085	Jug Creek Station #2 Bridge On Compton Rd.	
423085	Lemonweir River at Hwy E Bridge	
10016871	Mc Ginnis Creek - ~5 Yards Upstream Rainbow Drive	
10031836	S.F. Lemonweir River - Tomah Lake Outflow	

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Station ID	Name	Comments
10011359	Sevenmile Creek - Sevenmile Creek 1	
10041363	South Fork Lemonweir River at Forbes Road	
10032076	South Jug Creek - 350 ft south of confluence with Jug Creek	
10011531	Trimbelle River - 15-Trimbelle River. 50'	
373152	Unn Ck 4-2 at Nehbrass Rd	
10041171	Unnamed Creek (1458400) at Lilac Lane	
10012814	Unnamed Creek 3-4 Lovers Lane Station 1	
10034737	Unnamed Tributary to Black Creek at Townline Rd East of Meridian RD	
10034736	Unnamed Tributary to Black Creek at Townline Rd west of Nehrbras Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
1195500	1	Jug Creek	Jug Creek
1195600	1	South Jug Creek	South Jug Creek
1338500	2	South Fork Lemonweir River	South Fork Lemonweir River
1458300	1	Unnamed Creek 2-13 (T29n, R4e, S2, Nwse, 37)	Unnamed
1458400	1	Creek 2-14 (T29n, R4e)	Unnamed
1458800	1	Unnamed Creek (T29n, R4e, S2, Swse, 37)	Unnamed
1458900	1	Unnamed Stream	Unnamed
1461100	1	McGinnis Creek	McGinnis Creek
2126800	1	Beaver Creek	Beaver Creek
2128700	1	Sevenmile Creek	Sevenmile Creek
2129400	1	Beaver Creek	Beaver Creek
2129900	2	Fall Creek	Fall Creek
2130300	3	Bears Grass Creek	Bears Grass Creek
2447000	2	Trimbelle River	Trimbelle River

Lab Account Codes

Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	05/03/2011	06/30/2014

Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/13/2013 12:25	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
05/13/2013 13:50	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolndr. (Site #Bg1)
05/13/2013 14:15	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
05/13/2013 14:45	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
05/14/2013	COMPLETE		10011531	Trimbelle River - 15-Trimbelle River. 50'

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Start Date	Status	Field ID	Station ID	Station Name
06/04/2013 12:00	COMPLETE	HOBO Pendant	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
06/04/2013 12:00	COMPLETE	HOBO Pendant	10008300	Beaver Creek - Station 2 (atMallard Rd)
06/10/2013 16:00	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
06/10/2013 16:20	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
06/10/2013 16:45	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
06/10/2013 17:10	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
07/16/2013 16:50	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
07/16/2013 17:15	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
07/16/2013 17:30	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
07/16/2013 18:00	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
08/14/2013 11:50	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
08/14/2013 14:42	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
08/14/2013 15:05	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
08/14/2013 15:27	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
09/17/2013 09:35	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
09/17/2013 10:05	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
09/17/2013 10:35	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
09/17/2013 15:40	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
09/24/2013	COMPLETE		10016871	Mc Ginnis Creek - ~5 Yards Upstream Rainbow Drive
09/30/2013	COMPLETE		373351	Black Creek Trib - Town Line Lane (east of Nehrbras rd)
09/30/2013	COMPLETE		373152	Unn Ck 4-2 at Nehbrass Rd
09/30/2013	COMPLETE		10034736	Unnamed Tributary to Black Creek at Townline Rd west of Nehrbras Rd
10/02/2013	COMPLETE		10011359	Sevenmile Creek - Sevenmile Creek 1
10/02/2013	COMPLETE		10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
10/02/2013	COMPLETE		10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
10/09/2013	COMPLETE		10041171	Unnamed Creek (1458400) at Lilac Lane
10/09/2013	COMPLETE		10012814	Unnamed Creek 3-4 Lovers Lane Station 1
10/09/2013	COMPLETE		10034737	Unnamed Tributary to Black Creek at Townline Rd East of Meridian RD
10/18/2013 08:15	COMPLETE	SMC	10011359	Sevenmile Creek - Sevenmile Creek 1
10/18/2013 14:30	COMPLETE	BC140	183079	Beaver Creek at 140th Ave Bdge
10/18/2013 14:50	COMPLETE	BGC	10017063	Bears Grass Creek - Directly Below Bridge On Lincolindr. (Site #Bg1)
10/18/2013 15:45	COMPLETE	FCJ	10011337	Fall Creek - Fall Creek 42 Meters Upstream From Cth J
10/22/2013	COMPLETE		10008301	Beaver Creek - Station 3 (atCth Hh)
10/22/2013	COMPLETE		10008299	Beaver Creek - Station 1-Cth D
11/04/2013	COMPLETE		10041363	South Fork Lemonweir River at Forbes Road
11/04/2013	COMPLETE		423085	Lemonweir River at Hwy E Bridge
11/04/2013	COMPLETE		10031836	S.F. Lemonweir River - Tomah Lake Outflow
11/14/2013	COMPLETE		10011085	Jug Creek Station #2 Bridge On Compton Rd.
11/14/2013	COMPLETE		10011084	Jug Creek Station #1 Bridge On South Jug Creek Rd.
11/14/2013	COMPLETE		10032076	South Jug Creek - 350 ft south of confluence with Jug Creek

Documents

Title	Description	Author	Published	Comments
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**Wisconsin Department of Natural Resources
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Budget

Budget Description: May-June FY 13

Start Date: 05/01/2013

End Date: 06/28/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	20	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	16	Hours	\$14.00	\$224.00	
LTE FR	LTE Fringe				\$55.33	
LTE IND	LTE Indirect				\$45.17	
LTE TOT	LTE Total Cost				\$324.50	
SUPPLY	Supplies	1		\$50.00	\$50.00	postage, shipping supplies
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	100	Miles	\$0.72	\$72.00	
MEAL	Meals	4	Meals	\$9.00	\$36.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$108.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$482.50	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	8	\$23.60	\$188.80
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	8	\$6.36	\$50.88

Total SLOH Lab Costs: \$239.68

Total Budget: \$722.18

Budget Description: July - December FY 14

Start Date: 07/01/2013

End Date: 12/31/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	100	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	180	Hours	\$14.00	\$2,520.00	
LTE FR	LTE Fringe				\$622.44	
LTE IND	LTE Indirect				\$508.13	
LTE TOT	LTE Total Cost				\$3,650.57	
SUPPLY	Supplies	1		\$200.00	\$200.00	postage, shipping supplies, preservative
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1820	Miles	\$0.72	\$1,310.40	
MEAL	Meals	26	Meals	\$9.00	\$234.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,544.40	
BUG	Bug Contracts	21		\$180.00	\$3,780.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$9,174.97	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	16	\$23.60	\$377.60
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	16	\$6.36	\$101.76

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Total SLOH Lab Costs: \$479.36
Total Budget: \$9,654.33

Combined Budgets: \$9,657.47
Combined SLOH: \$719.04
Combined Total: \$10,376.51

Funding

Organization	Source	Type	Amount	Start Date	End Date
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