

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** North\_7\_CMP16

**Name:** Big Weirgor Creek Trace Metal Sampling - North\_7\_CMP16

**Type:** Competitive Projects

**Subtype:** Use Designation Studies

**Status:** REPORT

**Start Date:** 01/01/2016

**End Date:** 12/31/2018

**Purpose:** The Big Weirgor Creek HUC 12 watershed is a highly forested watershed in northern Rusk County with the upper 50 % of the watershed within Rusk County Forest land; comprised of over 90% deciduous forest and wetlands and only 1.2% hay and cropland. The Lower 50% of the watershed is mainly in private ownership, agriculture use increases to 8%. We propose to monitor low level metals, cations and anions, nutrients, hardness, and DOC and flow Monthly from April - November at 3 sites in the watershed in conjunction with a TWA project proposed in the Big Weirgor Creek watershed. Two sites on the Big Weirgor will be sampled, a wooded watershed site at Reichel road, another site at Shortcut Rd., near the confluence with the Chippewa River which includes more development and agricultural lands within the watershed. Spring Creek a small tributary to the Big Wiergor, within the county Forest is also proposed for sampling. A general description of the who, what, when, where, and how for the project.

**Objective:** The project is proposed gather background low level metal, cation, anion, nutrients, etc., concentrations within a HUC 12 watershed. A similar high frequency sampling project was conducted in a wooded watershed in Ashland and Iron Counties from 2012-2016. Review of available data showed that there is very limited information of this type for State waterways. These data can be very useful in reviewing other projects. We propose this project if there are additional sampling dollars available in the basic agreement and can modify sampling frequency as needed for budgeting.

Sampling Locations:  
 Big Wiergor Creek; Reichel Road SWIMS 10012951  
 Big Wiergor Creek; Cut Off Road SWIMS 10029539  
 Spring Creek; SWIMS 10012066

Why is the project necessary and what management question is to be addressed? Describe the specific information for the sites to be addressed as part of the project. In providing this information, include the number of sampling locations, the WBIC of the water bodies to be sampled, and other relevant information.

**Comments:**

**Outcome:** Gather baseline low level metal, cation, anion, nutrient, and flow data. data will be summarized as part of the TWA report.

**Study Design:** Provide a summary sentence describing the project outcome. Identify project deliverables. Described above

**QA Measures:** Standard field sampling protocols will be followed (clean hands/dirty hands for LL metals) a blank will be collected for 10% of samples

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	COORDINATOR	ACTIVE	01/01/2016	12/31/2018	Wisconsin DNR	
CUNNINGHAM, JOSEPH L	COORDINATOR	ACTIVE	01/01/2016	12/31/2018	Wisconsin DNR	
Helmuth, Lisa D	DATA_SUPPORT	ACTIVE	11/24/2019		Wisconsin DNR	
JACKSON, JEFFREY L	COORDINATOR	ACTIVE	01/01/2016	12/31/2018	Wisconsin DNR	
KLEIST, JON J	PROJECT_LEAD	ACTIVE	01/01/2016	12/31/2018	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
12/09/2016	JOSEPH CUNNINGHAM	Progress: 50-75% Complete	Low level metals, cations and anions, nutrients, hardness, and DOC sampling complete. Flow measurements were also calculated for each sampling event. Data analysis and project write up will be complete by 06/30/2017.

### Project Status Detail

Answer Set: DEFAULT

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Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	3 SWIMS: 10029539 10012951 10012066
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	8
3. Proposed Dates for Sample Collection	April - November 2016 Sampling is complete.
4. List applicable databases and who will enter data?	SWIMS entered by SLOH staff or Jon Kleist
5. Did you receive competitive projects funding in the previous year?	Yes
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	Data collection is mostly completed a few sampling runs need to be completed in March-May of 2016, Reports for other projects are currently being drafted
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	End Date	Status
Monitor or Assess Watershed Condition		01/01/2016	12/31/2018	PROPOSED
Water Quality Planning	Big Weirgor Creek Trace Metal Sampling	01/01/2016	12/31/2018	PROPOSED
Monitor Water Quality or Sediment		01/01/2016	12/31/2018	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
10029539	Big Weirgor Creek DS Shortcut Road	
10012951	Big Weirgor Creek US Reichel Rd	
10012066	Spring Creek US ATV Trail	

### Assessment Units

WBIC	Segment	Local Name	Official Name
2370400	1	Big Wiergor Creek	Big Weirgor Creek
2374100	1	Spring Creek (Big Weirgor Creek Trib S4-S15 T36N R8W)	Spring Creek

### Lab Account Codes

Account Code	Description	Start Date	End Date
WQ022	BIG WEIRGOR CREEK TRACE METAL	04/07/2016	03/31/2017

### Forms

Form Code	Form Name
FIELD CHEMISTRY FO	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
SWIMS MANAGEMENT	SWIMS Management
STREAM_MON	Stream Monitoring (Temp, DO, Trans, Flow)
STREAMS_AISED	Wisconsin DNR Streams AIS Early Detection Form (R 06/11)

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### Methods

Method Code	Description
NUTRIENT SAMPLING STREAMS 2015	Nutrient Sampling SOPs (3.2) WQ Monitoring 2015
DNR-FPM-2301	Open Channel Flow Measurement 1988
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
04/21/2016 11:43	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
04/21/2016 12:30	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
04/21/2016 13:35	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
05/25/2016 13:00	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
05/25/2016 13:40	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
05/25/2016 14:35	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
06/22/2016 11:20	COMPLETE	BLANK	10029539	Big Weirgor Creek DS Shortcut Road
06/22/2016 11:20	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
06/22/2016 12:00	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
06/22/2016 12:40	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
07/28/2016 11:30	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
07/28/2016 12:00	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
07/28/2016 12:55	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
08/25/2016 10:50	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
08/25/2016 11:26	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
08/25/2016 12:20	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
09/21/2016 11:30	COMPLETE	BLANK	10029539	Big Weirgor Creek DS Shortcut Road
09/21/2016 11:30	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
09/21/2016 12:00	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
09/21/2016 12:45	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
10/25/2016 11:10	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
10/25/2016 11:47	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
10/25/2016 12:35	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
11/17/2016 12:20	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
11/17/2016 12:50	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
11/17/2016 13:35	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail
12/08/2016 12:15	COMPLETE	BLANK	10029539	Big Weirgor Creek DS Shortcut Road
12/08/2016 12:15	COMPLETE	BW-2	10029539	Big Weirgor Creek DS Shortcut Road
12/08/2016 12:45	COMPLETE	BW-4	10012951	Big Weirgor Creek US Reichel Rd
12/08/2016 13:50	COMPLETE	SC-6	10012066	Spring Creek US ATV Trail

### Documents

Title	Description	Author	Published	Comments
Low Level Metals Sampling Procedures (v2.4) WQ Monitoring 2015	Document describing Low Level Metals Sampling Procedures (v2.4) WQ Monitoring 2015	Shupryt, Mike	02/26/2015	

### Budget

**Budget Description:** January 1-June 30, 2016 **Start Date:** 03/01/2016 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	48	Hours	\$0.00	\$0.00	

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
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	1		\$150.00	\$150.00	Sample Shipment/Ice
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	300	Miles	\$0.72	\$216.00	
MEAL	Meals	9	Meals	\$9.00	\$81.00	
LODGE	Lodging	9			\$0.00	
TRAVEL	Travel Total				\$297.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	9		\$169.52	\$1,525.68	Lab costs for ICPMS set up(125.13), DOC (19.36) and LLHg (25.03)bottle prep not in Swims
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,424.66	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$2,424.66	

**Budget Description:** July 1-December 31, 2016      **Start Date:** 07/01/2016      **End Date:** 12/31/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	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		\$350.00	\$350.00	Shipping, ice
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	700	Miles	\$0.72	\$504.00	
MEAL	Meals	15	Meals	\$9.00	\$135.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$639.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	15		\$169.52	\$2,542.80	Lab costs for ICPMS set up(125.13), DOC (19.36) and LLHg (25.03)bottle prep not in Swims
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,285.09	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	

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**Total Budget:** \$4,285.09

**Combined Budgets:** \$6,709.75

**Combined SLOH:** \$0.00

**Combined Total:** \$6,709.75

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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