

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: CO_07_CMP12

Name: CBSM Stream Flow Monitoring Comparison Study- CO_07_CMP12

Type: Citizen Based Stream Monitoring

Subtype: Volunteer Monitoring

Status: ACTIVE

Start Date: 07/01/2011

End Date: 12/31/2012

Purpose: The Water Action Volunteers Program involves citizen monitors in the process of collecting water quality data used by the DNR to assist in making management decisions. Goals of the program include collecting high quality data that can be used for management decisions, building relationships between DNR staff and citizen monitors, and assessing areas in need of additional monitoring, restoration and/or protection. Ultimately, volunteer participation in this project aids DNR staff by allowing for increased capabilities to monitor streams. Communities and the DNR can use this water quality information to make decisions that affect the management of streams throughout Wisconsin.

Objective: Data collected by Water Action Volunteers can be used by DNR staff as screening tools. The process of data collection helps Wisconsin citizenry enhance their understanding of data collection and in many cases, move to more sophisticated data collection work including biological and additional physical site data..

Comments: Project Category 4: New Projects

Outcome: Based on unpublished data from Missouri Stream Team, who use a similar method, three categories of discharge will be studied (<1 cfs, 1-10 cfs, and >10 cfs). Eight sites within each discharge category (so, a total of 24 sites) will be selected from existing volunteer stream monitoring sites. These will be visited 4-5 times per year during the 2011 and 2012 field seasons, resulting in up to 120 site visits. Effort will be made to monitor discharge using each method at two locations per site, one with predominantly laminar flow and the other with predominantly turbulent flow (if available). USGS and volunteer methods (by staff and by volunteers) will be used at each site on each visit. Sample collection is expected to be completed in September 2012. Data will be entered on an ongoing basis, with data entry completion expected by October 2012. The final report is expected by December 2012.

Study Design: The Level 2 stream monitoring sampling plan is consistent with statewide baseline monitoring guidelines laid out in the DNR's Water Resources Monitoring Strategy for Wisconsin.

- DNR or county staff recommends sites that could be useful to have monitored based on needs to acquire status or trends information, or other types of monitoring that is priority.
- Volunteers are asked to monitor, at least, from May through September
- Volunteers choose primary (P) and secondary (S) sampling dates in advance and note on their data sheets on which of those dates they monitored.
- Volunteers are asked to sample on the primary date unless there are safety concerns about being at the stream site (e.g., tornado, lightning, dangerously high flows) or a family emergency.
- The goal is to monitor at the same time each month, preferably 30 days apart from the last monitoring visit.
- Volunteers are instructed to enter data by the end of each month.

Parameters Measured:

- Dissolved oxygen (concentration)
- Dissolved oxygen (saturation)
- Transparency
- Temperature (instantaneous and continuous measurements)
- pH.

QA Measures: Program Coordinator or Local Coordinators visit with 10% of volunteer stations annually to conduct side-by-side monitoring of dissolved oxygen and pH, using his/her own meter to check that volunteers are calibrating meters and following methods correctly, to ensure the equipment is functioning properly, and to answer any questions or concerns. The Data Managers run monthly database queries throughout the field season to evaluate the quality of data entered into the database and follow-up with volunteers to address anomalies that are identified.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
ANDERSON, CHRISTINA R	OTHER	ACTIVE	09/04/2012		Wisconsin DNR	
Anderson, Ian	TEAM_MEMBER	ACTIVE	05/15/2012			
DOLEN, RONALD J	TEAM_MEMBER	ACTIVE	09/04/2012		Wisconsin DNR	
Ludwig, Theodore E	TEAM_MEMBER	ACTIVE	09/05/2012			
SMITH, HEATHER E	TEAM_MEMBER	ACTIVE	05/15/2012		Wisconsin DNR	
Stepenuck, Kris	COORDINATOR	RETIRED	01/01/2011		UWEX	

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Name	Role	Status	Start Date	End Date	Organization	Comments
Stoelinga, Christophe	TEAM_MEMBER	ACTIVE	09/04/2012			
Wiseman, David	TEAM_MEMBER	INACTIVE	05/16/2011	05/01/2012	UWEX	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Citizen-Based Stream Monitoring	Tracking stream flow can provide important information for understanding climate change and non-point source pollution, including for TMDL development and monitoring. Budget reductions have resulted in a loss of USGS stream flow gaging stations, and limit the number of WDNR staff who can monitor stream flow with USGS-grade equipment and methods. Modeling and extrapolation are sometimes used to obtain stream flow information when monitoring data are not available at a site, but both of these methods have limitations. Understanding the relationship between volunteer methods and professional methods will improve credibility of Wisconsin's volunteer stream monitoring data. By determining the relationship between the two methods, volunteer-generated data may be used to aid in determination of nutrient loadings, for climate change research, or for other management purposes.	07/01/2011	12/31/2012	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10030298	Amnicon River east overflow at State Park	
10037915	Big Beaver Creek near confluence of Hay River	
10037916	Birch Creek 150m from Red Cedar River	
10012445	Bird Creek At Antler Drive Just Outside Wautoma	
10032124	Boydton Creek Shiller Property south of main Roth Drainage Way	
723150	Cat Creek at 1st Ave Pittsville	
683315	Coco Creek at Cth Jj /Capitol Dr	
10037917	Crooked Creek (Mossholder Property)	
10029415	DEERSKIN RIVER - OLD HATCHERY ACCESS OFF OF BLACKJACK RD.	
10037918	Dakin Creek at Brooklyn G Rd	
10029414	Deerskin River at FR2178	
10029802	Deerskin River at bend east of Rangeline Rd	
10029803	Deerskin River at the end Myzaska Road on the southeast of river	
10037920	Galloway Creek at Red Cedar River	
10037919	Galloway Creek west of intersection 4th & 16th	
10037921	Griffin Creek - East of Snurd and Peterson Rd	

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Station ID	Name	Comments
10039647	Kinnickinnic River S of 1148th St	
10011991	Lambs Creek 39m U.S. Of Cth D	
10037923	Little Eau Pleine at E Mann St	
413861	Little Menomonee River S of Silver Spring Rd	
10037924	Little Otter Creek 200m above junction with Otter Creek	
10037925	Menomonee River near Wheeler Dr and Menomonee River Pkwy	
173055	Otter Creek - Cth N	
10011904	Otter Creek A2 - 50' U.S. Of Cth N	
10020686	Parsons Creek At Hickory Rd And Cth B	
133315	Pheasant Branch at Ush 12 In Middleton WI	
603339	Pigeon River at Cth Ab Pr2	
10037927	Pine River at Aniwa Road	
283217	Rock Creek - Above Rock L Cth A	
10037928	South Branch Little Wolf at Erickson Road and STH 49	
10011010	South Fork Hay River - South Fork Hay River 3 Cth N	
10042792	South Fork Hay River above Tiffany Creek	
10037929	Spring Creek at Mount Hope Rd	
10037930	Tiffany Creek 60 m above snowmobile bridge near S Fork Hay River	
10008211	Tisch Mills Creek at Cty Hwy BB	
10037931	Tributary to N Branch O'Neill Creek at CTH H	
543283	Turtle Creek at Colley Road In Beloit	
10037540	Unnamed (Galloway) Creek 2065700 - at Third St	
10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin	
10012437	West Branch White River - County T (125 Yards West)	
10028918	Willow Creek At Cth S And Z	
10037932	Wilson Park Creek East of 20th St.	

Assessment Units

WBIC	Segment	Local Name	Official Name
15200	1	Wilson Park Creek	Wilson Park Creek
16000	5	Menomonee River	Menomonee River
17600	-9	Little Menomonee	Little Menomonee River
62300	1	Pigeon River	Pigeon River
85500	1	Tisch Mills Creek	Tisch Mills Creek
136000	2	Parsons Creek	Parsons Creek
146700	1	Dakin Creek	Dakin Creek
151700	1	West Branch White River	West Branch White River
152300	1	Bird Creek	Bird Creek
243700	2	Willow Creek	Willow Creek
247800	3	Pine River	Pine River
272600	3	Mack Creek	South Branch Little Wolf River
279000	1	Griffin Creek	Griffin Creek
772100	2	Coco Creek	Unnamed
790300	4	Turtle Creek	Turtle Creek
805900	2	Pheasant Branch	Pheasant Branch
830100	2	Rock Creek	Rock Creek

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WBIC	Segment	Local Name	Official Name
877000	1	Spring Creek	Spring Creek
1205100	1	Boydton Creek	Boydton Creek
1205600	2	Crooked Creek	Crooked Creek
1370700	1	Cat Creek	Cat Creek
1412600	1	Little Eau Pleine River	Little Eau Pleine River
1600400	1	Deerskin River	Deerskin River
1600400	3	Deerskin River	Deerskin River
1600400	4	Deerskin River	Deerskin River
1749900	1	Unnamed Trib to N Br O'Neill Creek	Unnamed
2065700	1	Galloway Creek	Unnamed
2067800	1	Jarrett Creek at Schneider Ave	Unnamed
2068000	1	Tainter Lake	Tainter Lake
2068700	2	Otter Creek	Otter Creek
2068800	1	Little Otter Creek	Little Otter Creek
2070100	6	South Fork Hay River	South Fork Hay River
2070500	1	Tiffany Creek	Tiffany Creek
2076200	1	Big Beaver Creek	Big Beaver Creek
2601800	1	Kinnickinnic River	Kinnickinnic River
2848900	1	Amnicon River	Amnicon River
5012177	1	Birch Creek	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
WT-001-2010	Stream Baseflow Data

Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
07/11/2011 12:15	COMPLETE		10037932	Wilson Park Creek East of 20th St.
07/15/2011 13:30	COMPLETE		283217	Rock Creek - Above Rock L Cth A
07/16/2011 09:45	COMPLETE		603339	Pigeon River at Cth Ab Pr2
07/16/2011 13:45	COMPLETE		10008211	Tisch Mills Creek at Cty Hwy BB
07/31/2011 09:00	COMPLETE		603339	Pigeon River at Cth Ab Pr2
08/04/2011 12:00	COMPLETE		10037916	Birch Creek 150m from Red Cedar River
08/04/2011 14:50	COMPLETE		10011991	Lambs Creek 39m U.S. Of Cth D
08/04/2011 19:00	COMPLETE		10039647	Kinnickinnic River S of 1148th St
08/05/2011 08:45	COMPLETE		10037924	Little Otter Creek 200m above junction with Otter Creek
08/05/2011 10:30	COMPLETE		10042792	South Fork Hay River above Tiffany Creek
08/05/2011 11:30	COMPLETE		10037930	Tiffany Creek 60 m above snowmobile bridge near S Fork Hay River
08/08/2011 10:10	COMPLETE		10032124	Boydton Creek Shiller Property south of main Roth Drainage Way
08/10/2011 09:00	COMPLETE		10037929	Spring Creek at Mount Hope Rd

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Start Date	Status	Field ID	Station ID	Station Name
08/13/2011 09:00	COMPLETE		723150	Cat Creek at 1st Ave Pittsville
08/19/2011 10:30	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
08/25/2011 15:15	COMPLETE		10037927	Pine River at Aniwa Road
08/25/2011 18:00	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
08/26/2011 14:30	COMPLETE		10008211	Tisch Mills Creek at Cty Hwy BB
08/28/2011 09:45	COMPLETE		603339	Pigeon River at Cth Ab Pr2
09/07/2011 09:30	COMPLETE		10032124	Boydton Creek Shiller Property south of main Roth Drainage Way
09/12/2011 09:15	COMPLETE		283217	Rock Creek - Above Rock L Cth A
09/17/2011 09:15	COMPLETE		723150	Cat Creek at 1st Ave Pittsville
09/20/2011 12:05	COMPLETE		10029415	DEERSKIN RIVER - OLD HATCHERY ACCESS OFF OF BLACKJACK RD.
09/20/2011 16:15	COMPLETE		10029802	Deerskin River at bend east of Rangeline Rd
09/25/2011 09:30	COMPLETE		413861	Little Menomonee River S of Silver Spring Rd
09/25/2011 15:00	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
09/28/2011 08:40	COMPLETE		10037929	Spring Creek at Mount Hope Rd
09/28/2011 09:00	COMPLETE		10037540	Unnamed (Galloway) Creek 2065700 - at Third St
09/28/2011 11:05	COMPLETE		10037919	Galloway Creek west of intersection 4th & 16th
10/01/2011 09:30	COMPLETE		603339	Pigeon River at Cth Ab Pr2
10/01/2011 14:00	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
10/02/2011 05:00	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
10/02/2011 10:05	COMPLETE		10037932	Wilson Park Creek East of 20th St.
10/10/2011 10:50	COMPLETE		10032124	Boydton Creek Shiller Property south of main Roth Drainage Way
11/07/2011 10:30	COMPLETE		10032124	Boydton Creek Shiller Property south of main Roth Drainage Way
04/27/2012 10:00	COMPLETE		10037929	Spring Creek at Mount Hope Rd
04/27/2012 12:50	COMPLETE		543283	Turtle Creek at Colley Road In Beloit
05/11/2012 10:45	COMPLETE		10037918	Dakin Creek at Brooklyn G Rd
05/31/2012 09:40	COMPLETE		10037924	Little Otter Creek 200m above junction with Otter Creek
05/31/2012 10:55	COMPLETE		173055	Otter Creek - Cth N
05/31/2012 12:45	COMPLETE		10037930	Tiffany Creek 60 m above snowmobile bridge near S Fork Hay River
05/31/2012 13:55	COMPLETE		10042792	South Fork Hay River above Tiffany Creek
05/31/2012 15:50	COMPLETE		10011991	Lambs Creek 39m U.S. Of Cth D
06/01/2012 09:25	COMPLETE		10037916	Birch Creek 150m from Red Cedar River
06/01/2012 11:20	COMPLETE		10037540	Unnamed (Galloway) Creek 2065700 - at Third St
06/06/2012 09:20	COMPLETE		10029415	DEERSKIN RIVER - OLD HATCHERY ACCESS OFF OF BLACKJACK RD.
06/06/2012 11:20	COMPLETE		10029802	Deerskin River at bend east of Rangeline Rd
06/06/2012 13:30	COMPLETE		10029414	Deerskin River at FR2178
06/06/2012 15:35	COMPLETE		10029803	Deerskin River at the end Myzka Road on the southeast of river
07/07/2012 07:00	COMPLETE		10029415	DEERSKIN RIVER - OLD HATCHERY ACCESS OFF OF BLACKJACK RD.
07/07/2012 08:55	COMPLETE		10029802	Deerskin River at bend east of Rangeline Rd
07/07/2012 12:10	COMPLETE		10029414	Deerskin River at FR2178
07/07/2012 13:45	COMPLETE		10029803	Deerskin River at the end Myzka Road on the southeast of river
07/09/2012 10:15	COMPLETE		543283	Turtle Creek at Colley Road In Beloit
07/13/2012 09:45	COMPLETE		10037916	Birch Creek 150m from Red Cedar River
07/13/2012 11:15	COMPLETE		10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin

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Start Date	Status	Field ID	Station ID	Station Name
07/13/2012 14:30	COMPLETE		10037930	Tiffany Creek 60 m above snowmobile bridge near S Fork Hay River
07/13/2012 15:25	COMPLETE		10042792	South Fork Hay River above Tiffany Creek
07/14/2012 07:30	COMPLETE		10011991	Lambs Creek 39m U.S. Of Cth D
07/14/2012 09:35	COMPLETE		173055	Otter Creek - Cth N
07/14/2012 11:50	COMPLETE		10037915	Big Beaver Creek near confluence of Hay River
07/14/2012 15:00	COMPLETE		10037924	Little Otter Creek 200m above junction with Otter Creek
07/17/2012 14:30	COMPLETE		10037918	Dakin Creek at Brooklyn G Rd
07/19/2012 16:20	COMPLETE		10037927	Pine River at Aniwa Road
07/19/2012 19:25	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
07/20/2012 15:25	COMPLETE		10012437	West Branch White River - County T (125 Yards West)
07/20/2012 16:30	COMPLETE		10012445	Bird Creek At Antler Drive Just Outside Wautoma
07/20/2012 17:45	COMPLETE		10028918	Willow Creek At Cth S And Z
07/24/2012 10:35	COMPLETE		10008211	Tisch Mills Creek at Cty Hwy BB
07/29/2012 10:30	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
07/30/2012 08:00	COMPLETE		10037929	Spring Creek at Mount Hope Rd
07/30/2012 10:00	COMPLETE		543283	Turtle Creek at Colley Road In Beloit
08/03/2012 10:30	COMPLETE		10037928	South Branch Little Wolf at Erickson Road and STH 49
08/03/2012 11:55	COMPLETE		10037921	Griffin Creek - East of Snurd and Peterson Rd
08/07/2012 09:15	COMPLETE		10029415	DEERSKIN RIVER - OLD HATCHERY ACCESS OFF OF BLACKJACK RD.
08/07/2012 11:30	COMPLETE		10029802	Deerskin River at bend east of Rangeline Rd
08/07/2012 14:30	COMPLETE		10029414	Deerskin River at FR2178
08/07/2012 15:20	COMPLETE		10029803	Deerskin River at the end Myzka Road on the southeast of river
08/08/2012 10:15	COMPLETE		543283	Turtle Creek at Colley Road In Beloit
08/14/2012 09:20	COMPLETE		10008211	Tisch Mills Creek at Cty Hwy BB
08/20/2012 15:25	COMPLETE		10037918	Dakin Creek at Brooklyn G Rd
08/20/2012 18:15	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
08/23/2012 13:15	COMPLETE		10037928	South Branch Little Wolf at Erickson Road and STH 49
08/23/2012 14:20	COMPLETE		10037921	Griffin Creek - East of Snurd and Peterson Rd
08/23/2012 17:05	COMPLETE		10037927	Pine River at Aniwa Road
08/24/2012 14:45	COMPLETE		10012437	West Branch White River - County T (125 Yards West)
08/24/2012 16:00	COMPLETE		10012445	Bird Creek At Antler Drive Just Outside Wautoma
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08/25/2012 07:25	COMPLETE		10037916	Birch Creek 150m from Red Cedar River
08/25/2012 08:50	COMPLETE		10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin
08/25/2012 10:25	COMPLETE		10011991	Lambs Creek 39m U.S. Of Cth D
08/25/2012 11:50	COMPLETE		173055	Otter Creek - Cth N
08/25/2012 13:35	COMPLETE		10037924	Little Otter Creek 200m above junction with Otter Creek
08/25/2012 15:45	COMPLETE		10037930	Tiffany Creek 60 m above snowmobile bridge near S Fork Hay River
08/25/2012 16:45	COMPLETE		10042792	South Fork Hay River above Tiffany Creek
08/26/2012 10:10	COMPLETE		10037915	Big Beaver Creek near confluence of Hay River
08/31/2012 16:15	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
09/01/2012 07:25	COMPLETE		10037928	South Branch Little Wolf at Erickson Road and STH 49
09/01/2012 08:45	COMPLETE		10037921	Griffin Creek - East of Snurd and Peterson Rd
09/06/2012 10:00	COMPLETE		10029414	Deerskin River at FR2178
09/06/2012 11:20	COMPLETE		10029803	Deerskin River at the end Myzka Road on the southeast of river

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09/06/2012 14:40	COMPLETE		10029802	Deerskin River at bend east of Rangeline Rd
09/12/2012 17:10	COMPLETE		10037927	Pine River at Aniwa Road
09/14/2012 12:30	COMPLETE		10012437	West Branch White River - County T (125 Yards West)
09/14/2012 14:05	COMPLETE		10012445	Bird Creek At Antler Drive Just Outside Wautoma
09/14/2012 15:15	COMPLETE		10028918	Willow Creek At Cth S And Z
09/18/2012 14:20	COMPLETE		10037921	Griffin Creek - East of Snurd and Peterson Rd
09/18/2012 15:25	COMPLETE		10037928	South Branch Little Wolf at Erickson Road and STH 49
09/20/2012 07:55	COMPLETE		10037915	Big Beaver Creek near confluence of Hay River
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09/20/2012 12:50	COMPLETE		10037920	Galloway Creek at Red Cedar River
09/20/2012 14:20	COMPLETE		10037919	Galloway Creek west of intersection 4th & 16th
09/20/2012 15:20	COMPLETE		10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin
09/21/2012 03:20	COMPLETE		10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin
09/21/2012 07:30	COMPLETE		173055	Otter Creek - Cth N
09/21/2012 09:30	COMPLETE		10037540	Unnamed (Galloway) Creek 2065700 - at Third St
09/21/2012 10:35	COMPLETE		10037919	Galloway Creek west of intersection 4th & 16th
09/21/2012 13:45	COMPLETE		10037920	Galloway Creek at Red Cedar River
09/26/2012 11:25	COMPLETE		10037932	Wilson Park Creek East of 20th St.
10/04/2012 09:35	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
10/08/2012 11:15	COMPLETE		10020686	Parsons Creek At Hickory Rd And Cth B
10/09/2012 09:15	COMPLETE		283217	Rock Creek - Above Rock L Cth A
10/11/2012 14:05	COMPLETE		283217	Rock Creek - Above Rock L Cth A
10/15/2012 11:25	COMPLETE		10037932	Wilson Park Creek East of 20th St.
10/16/2012 14:30	COMPLETE		10012437	West Branch White River - County T (125 Yards West)
10/16/2012 16:20	COMPLETE		10012445	Bird Creek At Antler Drive Just Outside Wautoma
10/18/2012 17:00	COMPLETE		723150	Cat Creek at 1st Ave Pittsville
10/26/2012 13:20	COMPLETE		10037919	Galloway Creek west of intersection 4th & 16th
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10/27/2012 08:20	COMPLETE		10038741	Unnamed Creek (Jarrett) 100m above Lake Menomin
10/27/2012 09:35	COMPLETE		10037920	Galloway Creek at Red Cedar River
11/03/2012 13:00	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
11/04/2012 10:45	COMPLETE		133315	Pheasant Branch at Ush 12 In Middleton WI
11/26/2014 11:00	COMPLETE		10030298	Amnicon River east overflow at State Park

Documents

Title	Description	Author	Published	Comments
Dakin Creek 8 - 20 -2012	Eric Godfrey and Kris Stepenuck at Dakin Creek on August 20, 2012. (See comparison photo for October 6, 2012 when stream was dried up. Second time in 22 years this has occurred.)	Ian Anderson	10/11/2012	
Dakin_Creek_08_13_2011_downstream		Eric Godfrey	10/11/2012	
Dakin_Creek_10_6_2012	Dakin Creek dry on October 6, 2012. Eric Godfrey (volunteer monitor) reported it had dried up on September 27, 2012 to Kris Stepenuck (WAV Coordinator).	Eric Godfrey	10/11/2012	
Dakin_Creek_10_6_2012_downstream		Eric Godfrey	10/11/2012	

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Budget

Budget Description:Budget for CO_07_CMP12 - CBSM Stream Flow Monitoring Comparison Study

Start Date: 07/01/2011

End Date: 12/31/2012

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	
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	
EQUIP	Equipment	1		\$4,875.00	\$4,875.00	The Flo-Mate ^z Model 2000 is a hand held, battery powered velocity meter. Standard Model 2000 includes: water resistant enclosure; a permanently attached open channel electromagnetic velocity sensor; 20 feet of sensor cable; shoulder strap; universal sensor mount; fabric padded carrying case; and an instruction manual.(\$3880); Top-Setting Wading Rod - Permits convenient setting of sensor. Marked in tenth foot increments. Total Length of rod is 4 foot.(\$925); Estimated \$70 shipping
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,875.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
Total SLOH Lab Costs:				\$0.00	
Total Budget:				\$4,875.00	
Combined Budgets:				\$4,875.00	
Combined SLOH:				\$0.00	
Combined Total:				\$4,875.00	

Funding

Organization	Source	Type	Amount	Start Date	End Date
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