

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: harmful_algae
Name: Statewide Blue Green Algae Toxins 2009-2010
Type: Targeted Monitoring
Subtype: Watershed Project
Status: COMPLETE
Start Date: 07/01/2009
End Date: 06/30/2010
Purpose: This project supports the issue of Blue Green Algae Toxins in Wisconsin Waters. We currently lack information about the frequency and spatial extent of blue-green algae blooms, and conditions that lead to the production of toxins. In addition the Department of Health Services (DHS) has obtained a 5 year grant to gather information and document illnesses and deaths of animals and humans into a CDC Database. This project would support their activities and allow our field staff to gather spatial and temporal samples from 1-2 target lakes in their region that have a history of blue green blooms so we can learn more about when toxins exist at level that may impact people and/or animals, before these incidents occur.

- Objective:**
1. Sample six lakes for presence/ absence of blue green algae species, toxins and related parameters. These lakes will be selected by DNR field staff in discussions with the Lake Coordinators (1 to 2) per DNR region. Lakes will be sampled on 6 dates and in multiple locations from July to mid-September to document the spatial and temporal variability of bloom conditions. The sampling will be conducted by DNR Field staff, seasonal LTE staff in partnership with established volunteers.
 2. Analyze up to 20 water samples around the state in response to reports of potential toxic algal blooms on undocumented waters for the presence of Blue Green Algae species and subsequent toxin analysis (ELISA) if warranted. The screening lab analysis will be conducted by a seasonal LTE staff member or Field Staff and toxin samples sent to the State Lab.
 3. Hold and distribute as needed DHS test kits for Blue Green Algae related to incidents of animal or human suspected exposure.
 4. Purchase 6 sets of Field Tests and 6 standards for Microcystin LR toxins one for each region and one for central office for evaluation of usefulness as a rapid assessment tool.
 5. Support UW Stout project surveying recreational exposure to blue-green algae on Tainter Lake and potentially other lakes in the region.

Comments: Currently this issue was identified by the public as a high priority during the Triennial Standards Review, and is being used as the basis for proposed phosphorus standards. The draft Assessment Methodology also identifies blue-green algae cell counts as a potential indicator of recreational use impairment

Outcome: Implement a program to enhance the DNR's Staff knowledge of when toxins exist, relative to other measurable water quality parameters, to help predict when toxins may exist in a lake.

Documentation of up to 20 new lakes statewide for the presence/absence of Blue Green Algae species with toxins.

Assist with Department of Health Services 5 year project to Track and Document - Illnesses and Deaths of animals and humans due to exposure to Algae toxins.

Submit statewide end of year monitoring data in SWIMS and reports on Blue green Algae toxin kits evaluation and lake studies to supervisors and Bureau staff.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AMRHEIN, JAMES F	COORDINATOR	INACTIVE	07/31/2009		Wisconsin DNR	
Asplund, Timothy R	COORDINATOR	ACTIVE	07/01/2009	06/30/2010	Wisconsin DNR	
BEHNCKE, JEFFREY S	COORDINATOR	ACTIVE	07/31/2009		Wisconsin DNR	
BOLHA, DAVID A	COORDINATOR	COMPLETE	02/24/2012		Wisconsin DNR	
CAHOW, JAMES M	COORDINATOR	INACTIVE	07/30/2009		Wisconsin DNR	

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Name	Role	Status	Start Date	End Date	Organization	Comments
Gansberg, Mary K	COORDINATOR	COMPLETE	07/31/2009		Wisconsin DNR	
Gauthier, Kevin J	COORDINATOR	COMPLETE	07/30/2009	12/31/2010	Wisconsin DNR	
HAZUGA, MARK J	COORDINATOR	COMPLETE	07/31/2009		Wisconsin DNR	
Helker, Craig D	COORDINATOR	ACTIVE	07/31/2009		Wisconsin DNR	
KLOSIEWSKI, James M	COORDINATOR	ACTIVE	07/30/2009		Wisconsin DNR	
KOSHERE, FRANK J	COORDINATOR	INACTIVE	07/30/2009	03/11/2011	Wisconsin DNR	
Kreitlow, James D	COORDINATOR	COMPLETE	07/30/2009	06/30/2010	Wisconsin DNR	
REYBURN, JAMES R	COORDINATOR	INACTIVE	07/31/2009	12/20/2010	Wisconsin DNR	
Reif, Michael D	COORDINATOR	ACTIVE	07/31/2009		Wisconsin DNR	
Roesler, Craig P	COORDINATOR	COMPLETE	07/30/2009	01/15/2020	Wisconsin DNR	
SCHREIBER, KENNETH W	COORDINATOR	INACTIVE	07/01/2009	06/30/2010		
Sevener, Gregory A	COORDINATOR	ACTIVE	08/07/2009		Wisconsin DNR	
Toshner, Pamela J	COORDINATOR	ACTIVE	07/30/2009	12/31/2010	Wisconsin DNR	
VENNIE III, JAMES G	COORDINATOR	INACTIVE	07/01/2009	06/30/2010	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
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Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Project Category (SP 12 (Measure W); 303(d) Waters; Continuation (TMDL, Use Designation); New Projects; Wetlands, CBSM)	Planned: 30 (6 lakes, 5 sites each) Response: up to 20
2. Regional Priority by Category (ex: SP12-1, SP12-2, etc.)	Planned: 6 per lake Response: up to 20 (1 per site) 6/30/09 - 09/15/09
3. Number of Sample Sites (Enter the station IDs if you know them).	
4. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	swims, regional coordinators
5. Proposed Dates for Sample Collection	
6. List applicable databases and who will enter data?	520 (104 per region)
7. FTE Hours (Funds) Needed	Abraxis Toxin Test Kits
8. LTE Hours (Funds) Needed	travel to sampling sites
9. Supplies - Describe in Detail	
10. Describe Travel Needed	\$5000 to UW Stout for Recreational Exposure Survey
11. UWSP Macroinvertebrate Samples (How Many?)	none
12. Additional Contractual dollars - Who? What? and How much?	none
13. Equipment - What is needed and Why? (New Equipment, Cost?)	Planned: 180 samples for inorganic analysis (TP, TKN, NO3, Conductivity,pH, alk), blue green enumeration, and ELISA microcystin; Response: up to 20 samples for the same parameters
14. Capital Equipment >\$5,000 - Describe needed equipment [Note: Federal funds cannot be used to purchase capital equipment].	None, although UW Stout and DHS will be providing technical assistance supported by outside dollars
15. State Lab of Hygiene Analyses: Describe the number, type of parameters - See Worksheet	
16. Partner Contributions: Describe any funding provided by other DNR programs or non-DNR contributions.	
17. Total Year 1 (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	
18. Total Year 2 (Please itemize: \$LTE + \$SLOH + \$Equipment	

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Question	Answer
+ \$Travel + \$UWSP Lab + \$Other) = _____	
19. Project Total (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	
20. Additional Comments	
21. Did you receive special projects funding during FY 2009?	No
22. If yes to question 17, did you complete the projects including data entry and reports? If not, why not?	SLOH data went into SWIMS, Fisheries data was entered online.
23. Reviewer Notes: Identify questions or issues with project (use during review period)	
24. Reviewer Decision: Is this project recommended for funding?	

Actions

Action	Detailed Description	Start	End Date	Status
Monitor to Evaluate Projects	Up to 6 lakes will be selected from existing list of known waters with BGA blooms - e.g. Lake Winnebago, Petenwell, Tainter, Pewaukee, Lake Wisconsin, Nokomis, Upper St. Croix	07/01/2009	06/30/2010	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10030393	Ike Walton Lake	
10030536	Lake Kegonsa 2406 Co Hwy AB pier	
10030269	Lake Kegonsa W shore Harmful Algae Bloom	
10030503	Lake Menomin - NE channel of Wolske Bay	
293140	Petenwell Flowage at Barnum Bay	
10017496	Petenwell Lake - Wisconsin River -- Barnum Bay	
10030267	Tainter Lake	
10030546	Tainter Lake off end of 852nd street	
10018618	Tomahawk Lake -- Access at Indian Mounds Campground	
10007845	Wind Lake	
10030682	Wind Lake Road off dock	
10030956	Yahara River -- LaFollette County Park Canoe Launch	

Assessment Units

WBIC	Segment	Local Name	Official Name
761700	1	Wind Lake	Wind Lake
798300	5	Yahara, Stoughton To L. Kegonsa	Yahara River
802600	1	Lake Kegonsa	Lake Kegonsa
1377100	1	Petenwell Flowage	Petenwell Lake
1542700	1	Tomahawk Lake	Tomahawk Lake
2065900	1	Lake Menomin	Lake Menomin
2068000	1	Tainter Lake	Tainter Lake
2321800	1	Ike Walton Lake	Ike Walton Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Account Code	Description	Start Date	End Date
DH074	HARMFUL ALGAL BLOOMS	05/15/2009	12/31/2020

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
06/23/2009 10:00	COMPLETE	TL1	10030267	Tainter Lake
06/23/2009 11:40	COMPLETE	LK	10030269	Lake Kegonsa W shore Harmful Algae Bloom
07/07/2009 16:14	COMPLETE	WIND LAKE	10030682	Wind Lake Road off dock
07/30/2009 11:10	COMPLETE	01	10030393	Ike Walton Lake
07/30/2009 11:10	COMPLETE	01	10030393	Ike Walton Lake
07/30/2009 11:15	COMPLETE	1	10030393	Ike Walton Lake
08/06/2009 09:30	COMPLETE		293140	Petenwell Flowage at Barnum Bay
08/17/2009 15:10	COMPLETE	1	10018618	Tomahawk Lake -- Access at Indian Mounds Campground
08/17/2009 15:10	COMPLETE	1	10018618	Tomahawk Lake -- Access at Indian Mounds Campground
08/17/2009 15:10	COMPLETE		10018618	Tomahawk Lake -- Access at Indian Mounds Campground
08/28/2009 10:00	COMPLETE	LM1	10030503	Lake Menomin - NE channel of Wolske Bay
08/28/2009 10:00	COMPLETE	WT6	10030503	Lake Menomin - NE channel of Wolske Bay
09/03/2009 15:33	COMPLETE		10030536	Lake Kegonsa 2406 Co Hwy AB pier
09/09/2009 14:50	COMPLETE	TL	10030546	Tainter Lake off end of 852nd street
09/18/2009 11:30	COMPLETE	LM1	10030267	Tainter Lake

Documents

Title	Description	Author	Published	Comments
CO_BGA_10_BUDGET.XLS		Jim Vennie	02/27/2009	
DHS GRANT OBJECTIVE.DOC	DHS blue green algae exposure tracking grant project description	Charles Warzecha	10/22/2008	
RCHEALTHSURVEYSTUDY.DOC	Project Scope for UW Stout Recreational Exposure Study	Scott Mcgovern	01/22/2009	

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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