

General Project Information

Project ID:

EPA_LAKES_06-07_LAKE

Name:

National Lake Survey - General Lake Assessment

Type:

Baseline Monitoring

Subtype:

Data Gathering

Status:

COMPLETE

Start Date:

10/30/2007

End Date:

12/31/2099

Purpose:

EPA and its state and tribal partners conducted a survey of the nation's lakes, ponds and reservoirs in 2007 and began a second survey in 2012. This National Lakes Assessment is designed to provide statistically valid regional and national estimates of the condition of lakes. It uses a probability-based sampling design to represent the condition of all lakes in similar regions sharing similar ecological characteristics. Consistent sampling and analytical procedures ensure that the results can be compared across the country. The National Lakes Assessment helps build state and tribal capacity for monitoring and assessment and promotes collaboration across jurisdictional boundaries in the assessment of water quality.

Objective:

The National Lakes Assessment (NLA) is the first-ever baseline study of the condition of the nation’s lakes. It is the latest in a series of surveys of the nation’s aquatic resources being conducted by EPA and its state and tribal partners. The NLA provides unbiased estimates of the condition of natural and man-made freshwater lakes, ponds, and reservoirs greater than 10 acres and at least one meter deep. Using a statistical survey design, lakes were selected at random to represent the condition of the larger population of lakes across the lower 48 states. A total of 1,028 lakes were sampled for the NLA during summer 2007, representing the condition of about 50,000 lakes nationwide. The Great Lakes and Great Salt Lake were not included in the survey. Field crews collected samples using the same methods at all lakes to ensure that results can be compared across the country. Researchers processed and analyzed 680,000 measurements, including indicators of water quality such as nutrients, dissolved oxygen and algal density; biological indicators such as phytoplankton and zooplankton (algae and microscopic animals); recreational indicators such as algal toxins and pathogens; and physical habitat indicators such as lakeshore and shallow water habitat cover.

Comments:

Outcome:

The 2012 National Lakes Assessment has just completed its field sampling season. In the spring, EPA and its partners held 9 field training sessions and trained 89 sampling crews. This sampling season will lead to the second national report on the condition of the nation's lakes, ponds, and reservoirs. Next steps in the process include: lab sample processing, data cleanup, and data analysis.

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
BEMIS, BRYNN L	COORDINATOR	ACTIVE	10/30/2007		Wisconsin DNR	
Shupryt, Michael P	TEAM_MEMBER	COMPLETE	10/30/2007		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor Water Quality or Sediment	National Lake Survey 2007	10/30/2007	12/31/2099	COMPLETE

Monitoring Stations

Wisconsin Department of Natural Resources
SWIMS Project Summary

Station ID	Name	Comments
10000542	Arrowhead Lake	
10001529	Atkins Lake	
10004166	Berry Lake	
10006224	Big Gibson Lake	
10002700	Big Green Lake	
10014599	Blueberry Lake	
10002353	Buckskin Lake	
10005812	Chequamegon Waters Flowage	
10006233	Crystal Lake	
10003417	Echo Lake	
10002771	Fox Lake	
10004783	Half Moon Lake	
10001206	Lake Kegonsa	
10005796	Little Elkhart Lake	
10007164	Lowes Lake	
10007324	Marl Lake	
10006182	McLeod Lake	
10002546	Midget Lake	
10007250	Oconomowoc Lake	
10005993	Plum Lake - T41 R8E S31	
10005192	Price Lake	
10004980	Round Lake	
10005267	Schnur Lake	
10000654	Spring Lake	
10001183	Swan Lake	
10003535	Sy Lake	
10007846	Tichigan Lake	
10005043	Unnamed Lake (T37 R15W S1)	
10007088	Unnamed Lake (T42 R10W S10)	
10004780	Wapogasset Lake -T33 R17W S25	
10004245	Willow Flowage	

Assessment Units			
WBIC	Segment	Local Name	Official Name
46000	1	Little Elkhart Lake	Little Elkhart Lake

Wisconsin Department of Natural Resources SWIMS Project Summary

57900	1	Sy Lake	Sy Lake
146100	1	Green Lake (Big Green)	Green Lake
146100	2	Aba Beach, Green Lake	Green Lake
146100	3	Camp Grow Beach, Green Lake	Green Lake
146100	4	Dodge County Park Beach, Green Lake	Green Lake
146100	5	Hattie Sherwood Beach, Green Lake	Green Lake
146100	6	Pilgrim Center Beach, Green Lake	Green Lake
146100	7	Silver Creek -- Spaulding Road, Green Lake	Green Lake
146100	8	Sunset County Park, Green Lake	Green Lake
146100	9	Green Lake (Northern Lobe)	Green Lake
146200	1	Hill Creek	Hill Creek
146600	1	White Creek	White Creek
146700	1	Dakin Creek	Dakin Creek
146800	3	Silver Creek Mouth	Silver Creek
146800	5	Silver Cr Spaulding, Kmart Beach	Silver Creek
179800	1	Swan Lake	Swan Lake
192700	1	Midget Lake	Midget Lake
264100	1	Marl Lake	Marl Lake
418300	1	Berry Lake	Berry Lake
584600	1	Buckskin Lake	Buckskin Lake
763600	1	Tichigan Lake	Tichigan Lake
802600	1	Lake Kegonsa	Lake Kegonsa
802600	2	Lake Kegonsa State Park Beach	Lake Kegonsa
849600	1	Oconomowoc Lake	Oconomowoc Lake
852900	1	Lowes Lake	Loew Lake
1377700	1	Lake Arrowhead	Lake Arrowhead
1488400	1	Echo Lake	Echo Lake
1488400	2	Echo Lake Beach, Echo Lake	Echo Lake
1528300	1	Willow Flowage	Willow Flowage
1592400	1	Plum Lake	Plum Lake
1619600	1	McLeod Lake	McLeod Lake
1835200	1	Big Gibson Lake	Big Gibson Lake
1835700	1	Blueberry Lake	Blueberry Lake
1842400	1	Crystal Lake (T41n R07e S27)	Crystal Lake
1842400	2	Crystal Lake - Campground Beach Right	Crystal Lake

Wisconsin Department of Natural Resources
SWIMS Project Summary

1842400	3	Crystal Lake - Campground Beach Left	Crystal Lake
1849500	1	Fox Lake	Fox Lake
1882800	1	Spring Lake	Spring Lake
2160700	1	Chequamegon Flowage	Chequamegon Waters Flowage
2234600	1	Price Lake	Price Lake
2284000	1	Schnur Lake	Schnur Lake
2616400	1	Lake Round (Dwight)	Round Lake
2618000	1	Wapogasset Lake	Wapogasset Lake
2621100	1	Half Moon Lake	Half Moon Lake
2658800	1	Un Lake	Unnamed
2698300	1	Black Brook Flowage	Unnamed
2734000	1	Atkins Lake	Atkins Lake
3000091	1	Assembly Creek	Assembly Creek
3000531	1	Local Water	Unnamed
5026636	1	Unnamed Stream	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
LAKE_ASSESSMENT	Lake Assessment Form (EPA National Lake Survey 2007)

Methods

Method Code	Method Description
NAT_LK_SURVEY_07	National Lake Survey Methods USEPA 2007

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/2/2007	COMPLETE		10001206	Lake Kegonssa
7/3/2007	COMPLETE		10007250	Oconomowoc Lake
7/5/2007	COMPLETE		10002700	Big Green Lake
7/9/2007	COMPLETE		10001183	Swan Lake
7/10/2007	COMPLETE		10007846	Tichigan Lake
7/11/2007	COMPLETE		10007164	Lowes Lake
7/12/2007	COMPLETE		10004166	Berry Lake
7/13/2007	COMPLETE		10005796	Little Elkhart Lake
7/17/2007	COMPLETE		10003535	Sy Lake

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7/17/2007	COMPLETE		10005812	Chequamegon Waters Flowage
7/18/2007	COMPLETE		10005267	Schnur Lake
7/19/2007	COMPLETE		10004980	Round Lake
7/19/2007	COMPLETE		10004780	Wapogasset Lake -T33 R17W S25
7/25/2007	COMPLETE		10007324	Marl Lake
7/31/2007	COMPLETE		10005043	Unnamed Lake (T37 R15W S1)
7/31/2007	COMPLETE		10000542	Arrowhead Lake
8/1/2007	COMPLETE		10004783	Half Moon Lake
8/2/2007	COMPLETE		10007088	Unnamed Lake (T42 R10W S10)
8/3/2007	COMPLETE		10001529	Atkins Lake
8/4/2007	COMPLETE		10005192	Price Lake
8/5/2007	COMPLETE		10002771	Fox Lake
8/5/2007	COMPLETE		10005267	Schnur Lake
8/6/2007	COMPLETE		10006233	Crystal Lake
8/14/2007	COMPLETE		10002353	Buckskin Lake
8/15/2007	COMPLETE		10006182	McLeod Lake
8/16/2007	COMPLETE		10003417	Echo Lake
8/16/2007	COMPLETE		10005993	Plum Lake - T41 R8E S31
8/24/2007	COMPLETE		10002546	Midget Lake
8/25/2007	COMPLETE		10006224	Big Gibson Lake
8/29/2007	COMPLETE		10004245	Willow Flowage

Documents

Title	Description	Author	Published	Comments
Atkins Lake	Taken during National Lake Survey 2007	Brynn Bemis	10/31/2007	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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