

Dr. Shannon Briggs
Department of Natural Resources and Environment



Top Ten Great Lakes Beaches



Nominations to Dr. Beach due 10/31/10
(Dr. Stephen Leatherman)



[Click Here To See The List Of The Top 10 Beaches Of 2010](#)

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Submission deadline is October 31, 2010

http://www.drbeach.org/gl_reg.htm

[Top 10 Beaches](#)

[Dr. Beach's 50 Beach Criteria](#)

[Your Beach Prescription](#)

[All About Beaches](#)

[Beachfinder](#)

[About Dr. Beach](#)

Do You Represent A Beach Or Municipality In The Great Lakes Region? Tell Us About Your Beach.

Beginning in 2011, Dr. Beach will be announcing the Top 10 Beaches Of The Great Lakes Region and we want to ensure that your beach is considered. If you represent a beach destination or municipality (for example: CVBs, DMOs, TRDs or business chambers), please complete the form below. We will then provide you with an information form that provides Dr. Beach with important details about your beach, so that he might better evaluate it in accordance with his set criteria. We hope that you are excited about next year's list. We certainly are!

Submissions Deadline is October 31, 2010.

BEACH INFORMATION

Beach Name:

Beach Location:

YOUR CONTACT INFORMATION:

Your Name:

Email address: *



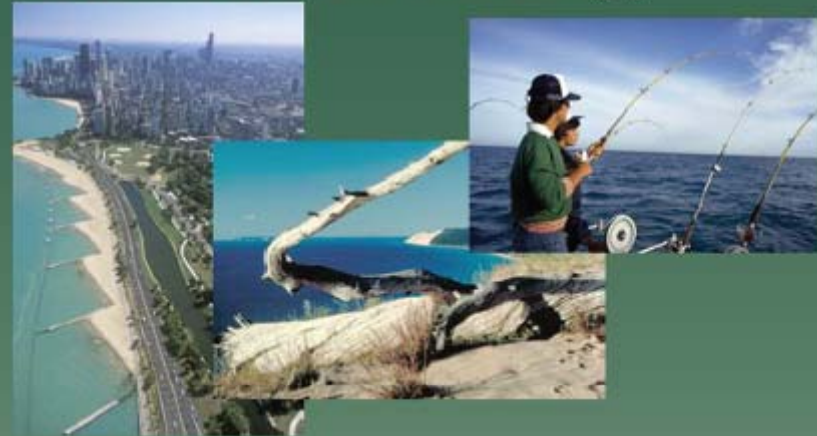
**16 Great Lakes Restoration
Initiative Projects
for 224 Beaches in Michigan**

Builds on 5 years of work...

Great Lakes Interagency Task Force



Great Lakes Regional Collaboration Strategy



To Restore and Protect the Great Lakes



December 2005



Map Image Courtesy of GLIN



Image © GLIN



Partners
Projects
Progress



Great Lakes Beach Association

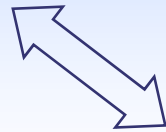


A story of collaborations...

Federal Collaboration on Beach Health in the Great Lakes



Remediation, Decision Support,
& Environmental Research



**BEACH HEALTH INTERAGENCY
COORDINATION TEAM**



Operational Forecasting
& Research

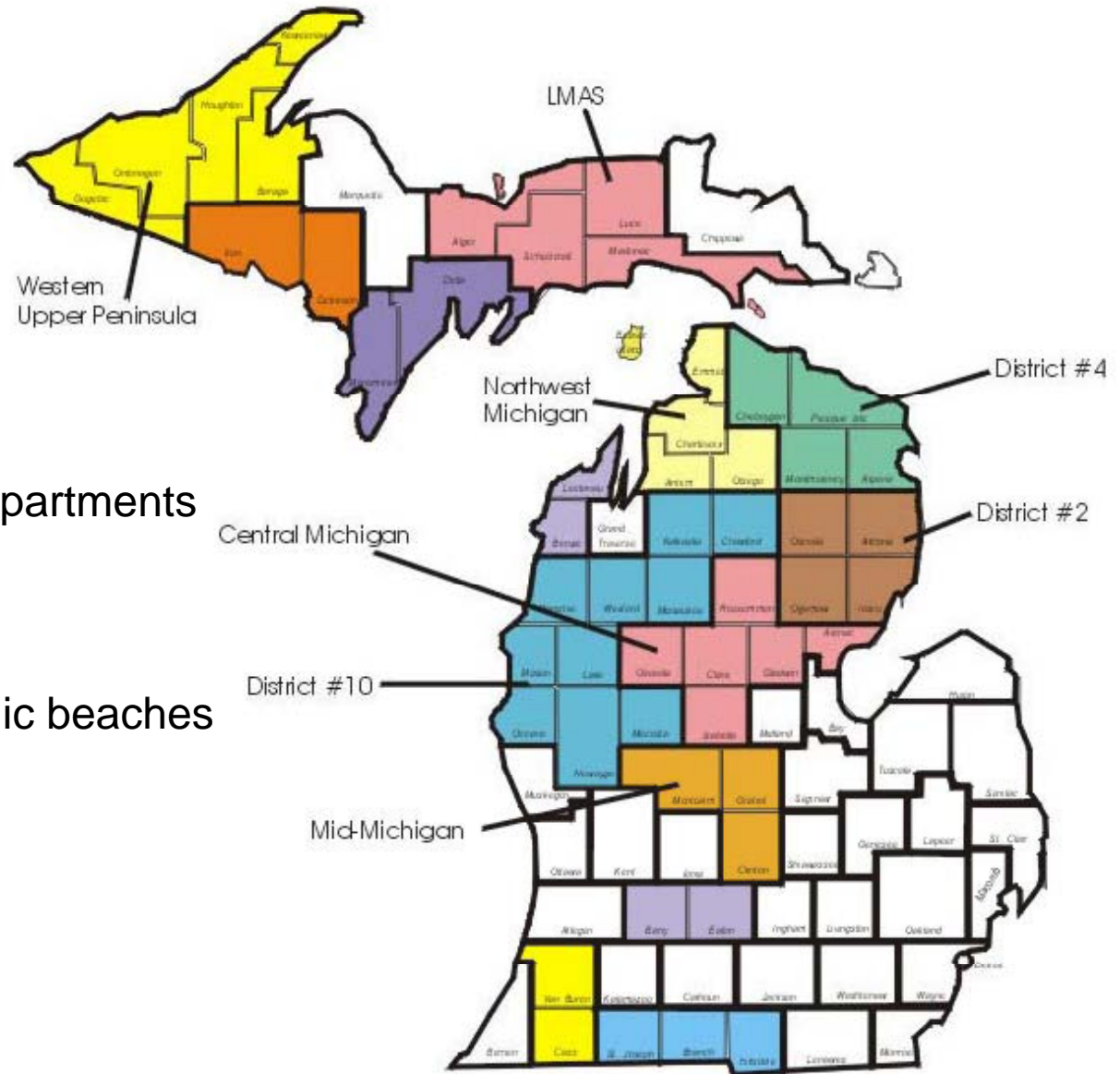
Beach Water Quality
Forecasting
Coordinator



Monitoring & Modeling
Research

Courtesy of David Rockwell

Local Health Departments



Local Partners

25 Coastal Health Departments

41 Coastal Counties

613 Great Lakes public beaches

A scenic view of a beach with a blue sky and ocean. The sky is a clear, vibrant blue with a few wispy white clouds. The ocean is a deep blue, meeting the horizon line. The beach in the foreground is a mix of light and dark sand, with some small rocks and pebbles scattered across it. The overall atmosphere is calm and serene.

GLRI

Beach-Focused Opportunities

1. Beach Sanitary Surveys
2. Models
3. Communication
4. Rapid Methods

Michigan Strategy

Statewide effort involving Michigan's DNRE and its partners to develop, refine, and use new tools to improve beach water quality and provide timely, meaningful information to the public.

A scenic view of a beach with a blue sky and ocean. The sky is a clear, vibrant blue with a few wispy white clouds. The ocean is a deep blue, meeting the horizon line. The beach in the foreground is a mix of light and dark sand, with some small rocks and debris scattered across it. The overall atmosphere is calm and serene.

Focus on Fixing 224 Beaches

- in Areas of Concern
- scheduled for a TMDL
- at risk for the 303(d) list
- need better monitoring

Great Lakes Monitoring Frequency

Each point represents a single 2008 beach location

Results may be influenced by frequent monitoring at highly urban beaches

- However, some frequently-monitored beaches have fewer than 5 yearly exceedances

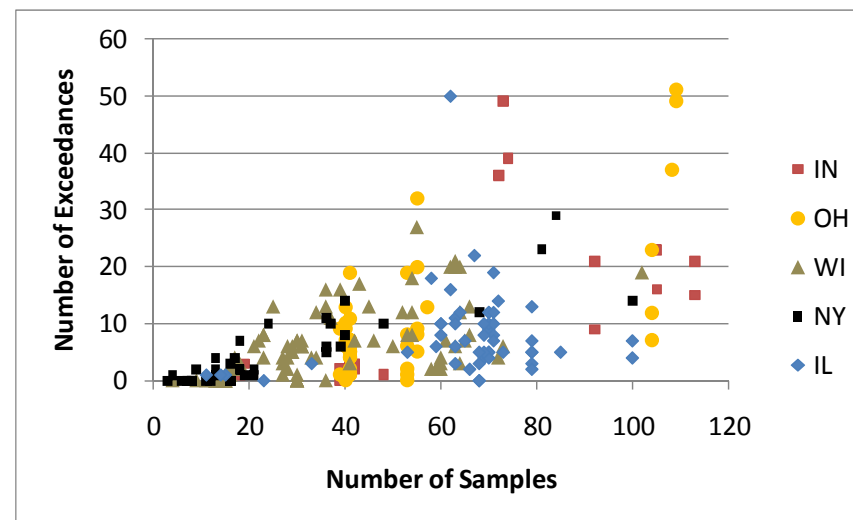
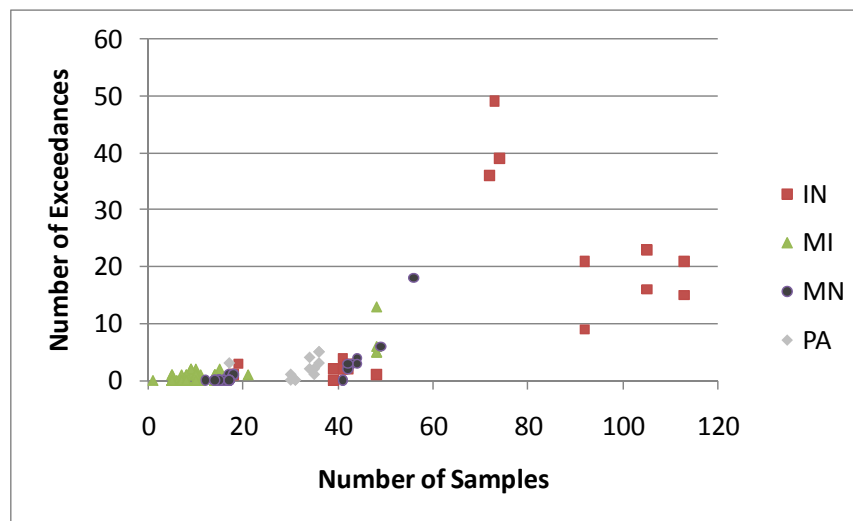
May be difficult to interpret data where monitoring takes place fewer than 3 days a week (45 samples)

Meredith B. Nevers

USGS, Great Lakes Science Center

Sheridan K. Haack

USGS, Michigan Water Science Center



Identify Potential Contamination Sources

Investigate areas with high counts

*Initial thoughts are on storm water and
nonpoint sources*

Other sources

Site-specific sources

Beach Sanitary Surveys

13 selected proposals (out of 43)

Provided foundation for all projects

1. Improve use of sanitary surveys, wet weather monitoring, initiate source tracking, increase frequency of monitoring
2. Source Tracking at TMDL & *at risk* beaches
3. Fix the problems (bulldozers, engineers)

Beach Sanitary Surveys

Improve use of sanitary surveys, wet weather monitoring, initiate source tracking, increase frequency of monitoring



Lake St. Clair - New Baltimore Park Beach



The following advisory is in effect:

Closure

Start Date: 9/14/2010
 Issued By: Macomb County Health Department
 Comment:

New Baltimore Park Beach is monitored by [Water Bureau, MDEQ](#) this year.



[Beach Detail](#)

[Closures and Advisories](#)

[Sampling Results](#)

[Monitoring](#)

[Surveys](#)

Beach Details

Beach Name: New Baltimore Park Beach
 Beach Description:
 Facilities:
 Accessibility: Public Owned, Public Access
 Other Information:

Beach Location

Central Latitude/Longitude: 42.67757 / -82.73396 [View Map](#)
 County: Macomb
 Township: New Baltimore
 Ownership Type:
 Park Name:

Other Information

EPA PRAWN Beach ID: MI000560

Lake St. Clair - New Baltimore Park Beach



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Closure

Start Date: 9/14/2010

Issued By: Macomb County Health Department

Comment:

New Baltimore Park Beach is monitored by [Water Bureau, MDEQ](#) this year.

[Beach Detail](#)[Closures and Advisories](#)[Sampling Results](#)[Monitoring](#)[Surveys](#)

Display Surveys for Year:

Survey Performed On:

[10/15/2010 10:12 AM](#)

Surveyor(s)

shannon

Lake St. Clair - New Baltimore Park Beach

Monitoring Point: 7337

Survey Performed On: 10/15/2010 at 10:12 AM

Surveyor(s): shannon

Surveyor
Affiliation:



Beach Conditions

Temperature: 78° F
Wind Speed: 10 mph
Direction: 15
Last Rain: 1.2in occurred <24 hours ago
Rain Intensity: Misting
Weather Cond.: Partly Sunny
Wave Intensity: Calm
Wave Height:
Longshore Speed: 15 cm/sec
Direction: 15
Comments:



Water Conditions

Water Temp.: 56° F
Change in Water Color?
Water Odor: None
Turbidity: Slightly Turbid
NTU:
Comments:



Bather Load

People in the water: 50
People out of the water: 50
Total People: 100
Bather Comments:

Bather Activity	Number Of People
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Potential Pollution

Name	Conduit	Amount	Flow Rate	Volume	Characteristics
Bacteria found in above sources:			Yes		
Floatables:					
Debris/Litter:					
Debris Amount:			Low (1-20%)		
Algae in Nearshore Water:			Low (1-20%)		
Algae on Beach:			Low (1-20%)		
Algae Types:					
Algae Color:			LT_GREEN		
Dead Fish Found:					
Pollution Comments:					

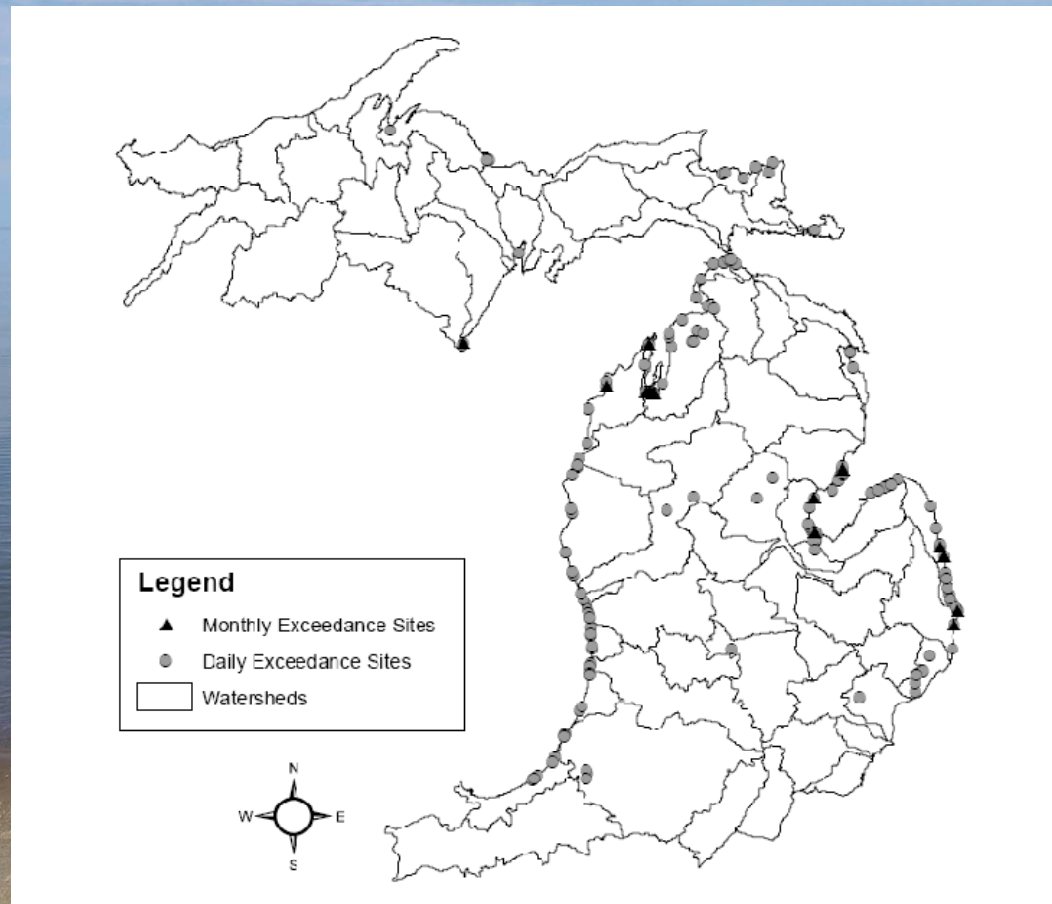
Wildlife Type	Number Present	Bird Type	Number Found Dead
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Print

Return to Beach Details

Beach Sanitary Surveys

Source Tracking with MSU at
14 beaches (AOC, TMDL)



A scenic view of a beach with a blue sky and calm water. The sky is a clear, vibrant blue with a few wispy white clouds near the horizon. The water is a deep, calm blue, meeting the sandy beach at the bottom of the frame. The beach is composed of light-colored sand and some small rocks. The overall atmosphere is peaceful and serene.

Beach Forecasting Models

2 of 8 selected proposals

Developing & Integrating Models
5 beaches

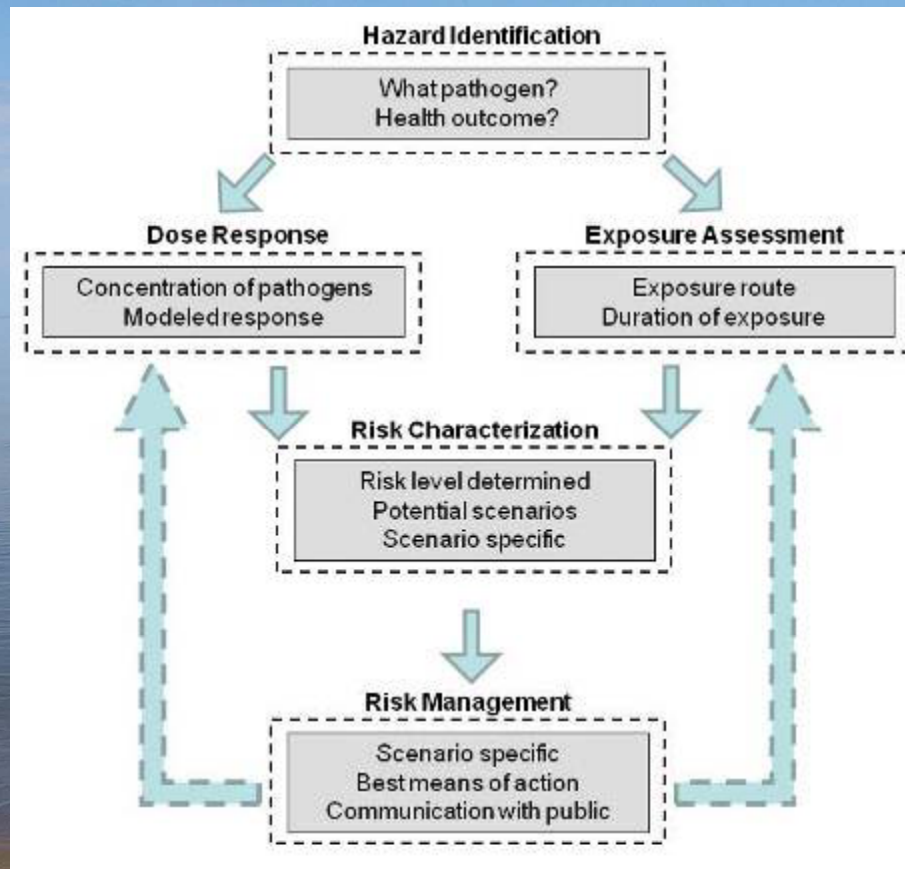
Forecasting Beach and Nearshore
Health Effects Using QMRA

Developing & Integrating Models: 5 beaches



Forecasting Beach and Nearshore Health Effects Using QMRA

Quantitative Microbial Risk Assessment

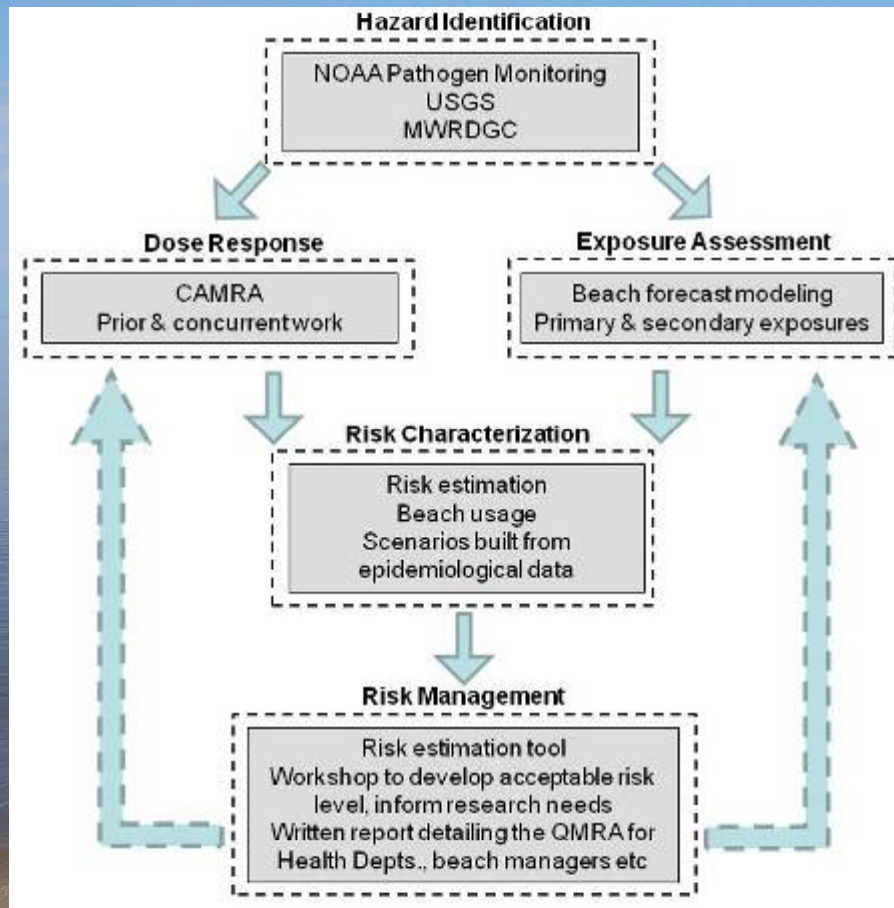


Mark H. Weir Ph.D.
Joanna M. Pope Ph.D.



Forecasting Beach and Nearshore Health Effects Using QMRA

Quantitative Microbial Risk Assessment



Mark H. Weir Ph.D.
Joanna M. Pope Ph.D.



Communicating Beach Data to the Public

1 of 5 selected proposals

Healthier Great Lakes Beaches

1. Training Videos for Rapid Methods
 - qPCR and IMS-ATP
2. Workshops & Online Material
 - Journalists and Beach Managers
3. In-depth News Coverage
 - Beach and Nearshore Health Issues



Rapid Methods

1 of 5 selected proposals

Building Beach Manager's Capacity for Using Rapid Tools
*Training effort from a collaboration of members of the
Great Lakes Beach Association*

Onsite Training and Technical Assistance
QA/QC

How to Manual

Online Tools, References, & Resources

Production will eventually provide online Training video and DVD

Rapid Methods Training

PI: Shannon Briggs

CoPI: Asli Aslan-Yilmaz

CoPI: Erin Dreelin

Designing the workshop materials, lecture in the workshops. development of the how to manual, perform the on-site training, Co-ordinate the intercalibration study between the health departments between health departments.

Oversee the communication with the health departments, facilitating the workshops.

CoPI: Irene Xagorarakis

Oversee the methodology in training tools, lecture in the workshops

Advisor: Julie Kinzelman

Assist with the development of the "how to manual", lecture in the workshops

Advisor: Donna Francy

Coordinate with USGS workshops

HEALTH DEPARTMENTS AND RELEVANT BEACHES

- Ottawa County Health Department (Lake Michigan)
- Health Department of Northwest (Lake Michigan, Grand Traverse Bay, Lake Huron)
- Bay County Health Department (Saginaw Bay, Lake Huron)
- Macomb County Health Department (Lake St. Clair)
- Chippewa County Health Department/Lake Superior State University (Lake Superior, St Marys River)

Beach Sanitary Surveys

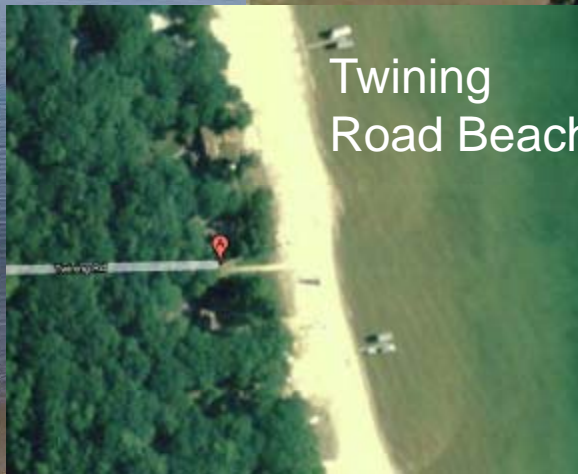
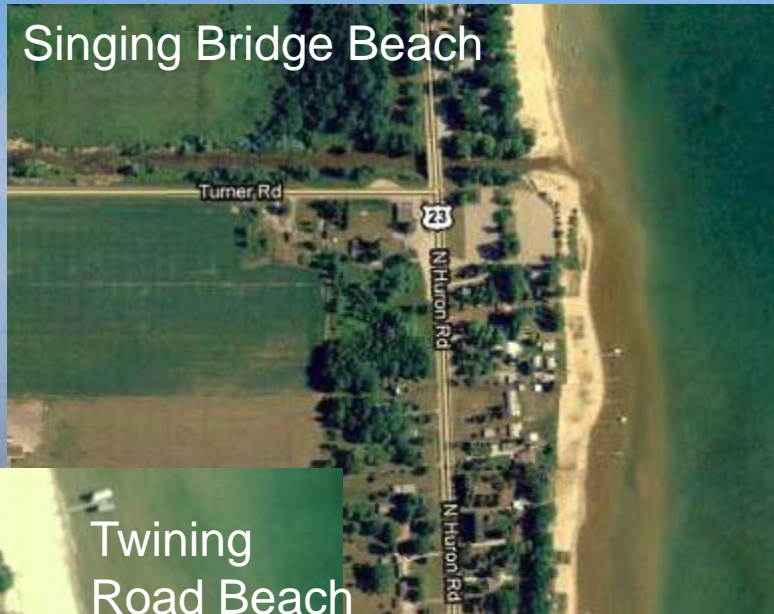
Fix the problems

(Bulldozers, Engineers, Drain Commissioners)



Beach Sanitary Surveys

Restoring Three Arenac County Beaches



Beach Sanitary Surveys

Bryant Park Beach Remediation



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Traverse City, MI 49684
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Watershed Center Grand Traverse Bay



advocacy. *Because it's all about the Bay!*

The Watershed Center advocates for clean water in Grand Traverse Bay and protects and preserves its watershed.

The Watershed Center has worked since 1990 to protect our Grand Traverse Bay region's water quality--and our quality of life.

The Bay's watershed encompasses nearly 1,000 square miles and covers major portions of 4 counties: Grand Traverse, Antrim, Leelanau, and Kalkaska. Minor portions of the watershed are found in Charlevoix and Otsego counties.

We use every tool in our toolbox to protect our Up North water quality: on-the-ground projects, public education and



Grand Traverse County MICHIGAN



CITY OF
TRAVERSE CITY
MICHIGAN