



*An Update on Great Lakes  
Restoration Initiative Beach  
Projects in Michigan*

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Michigan Department of Environmental Quality



# Congratulations!

No beach closures

Sand Point, Pictured Rocks, MI



Bayfield Main Beach Ontario

Oak St Beach, Chicago



Presque Isle, PA



North Beach, Racine, WI



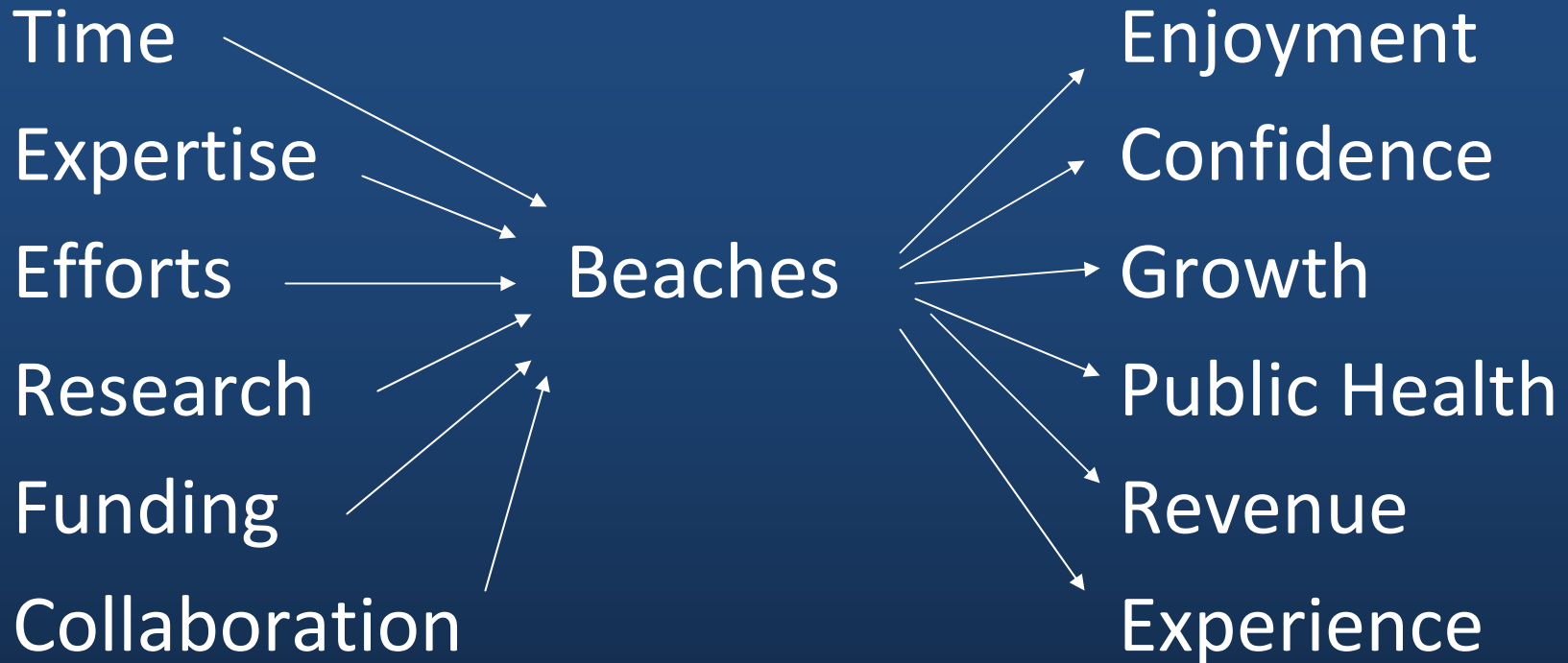
Sleeping Bear Dunes, MI



Grand Haven State Park, MI



# *Investing in Beaches = Investing in Community*



# 19 Public Beaches in Ottawa County

<a href="#">Crockery Lake - Grose Park</a>	Conklin	Ottawa
<a href="#">Georgetown Lake - Georgetown Community Park</a>	end of 8th Avenue	Ottawa
<a href="#">Lake Macatawa - Dunton Park</a>		Ottawa
<a href="#">Lake Macatawa - Fallen Leaf Park</a>		Ottawa
<a href="#">Lake Macatawa - Holland State Park</a>	Holland	Ottawa
<a href="#">Lake Michigan - Grand Haven City Beach</a>	Grand Haven	Ottawa
<a href="#">Lake Michigan - Grand Haven State Park</a>	Grand Haven	Ottawa
<a href="#">Lake Michigan - Holland State Park</a>	Holland	Ottawa
<a href="#">Lake Michigan - Kirk Park</a>	At end of Filmore and Lakeshore Dr.	Ottawa
<a href="#">Lake Michigan - Kouw Park</a>		Ottawa
<a href="#">Lake Michigan - Mountain Beach</a>	Mountain Beach	Ottawa
<a href="#">Lake Michigan - North Beach Park</a>	Ferrysburg	Ottawa
<a href="#">Lake Michigan - P.J. Hoffmaster State Park- Shoreline Beach</a>	PJ Hoffmaster State Park shoreline beach south of County line	Ottawa
<a href="#">Lake Michigan - Rosy Mound Recreation Area</a>		Ottawa
<a href="#">Lake Michigan - Tunnel Park</a>	Holland	Ottawa
<a href="#">Lake Michigan - Windsnest Park</a>		Ottawa
<a href="#">Maplewood Lake - Maplewood Lake Park</a>	Jenison	Ottawa
<a href="#">Pottawattomie Bayou - Pottawattomie Park</a>	Grand Haven	Ottawa
<a href="#">Spring Lake - Lakeside Beach</a>	end of Lake Avenue	Ottawa



# Lake Michigan-Grand Haven State Park

## *E. coli* Monitoring Data

09/09/2011 8:45 AM	Daily Mean	86
09/08/2011 10:28 AM	Daily Mean	77
09/07/2011 11:28 AM	Daily Mean	69
09/06/2011 11:23 AM	Daily Mean	99
09/01/2011 9:37 AM	Daily Mean	47
08/31/2011 12:50 PM	Daily Mean	32
08/30/2011 10:05 AM	Daily Mean	32
08/29/2011 11:48 AM	Daily Mean	39
08/25/2011 10:11 AM	Daily Mean	61
08/24/2011 11:28 AM	Daily Mean	64
08/23/2011 9:33 AM	Daily Mean	428 *
08/22/2011 10:08 AM	Daily Mean	32
08/18/2011 11:52 AM	Daily Mean	50
08/17/2011 9:12 AM	Daily Mean	101
08/16/2011 10:33 AM	Daily Mean	41
08/15/2011 12:10 PM	Daily Mean	>186
08/11/2011 10:00 AM	Daily Mean	29
08/10/2011 10:45 AM	Daily Mean	107
08/09/2011 12:01 PM	Daily Mean	101
08/08/2011 10:05 AM	Daily Mean	221
08/04/2011 12:15 PM	Daily Mean	1644 *
08/03/2011 8:00 AM	Daily Mean	137
08/02/2011 12:01 PM	Daily Mean	58
08/01/2011 10:00 AM	Daily Mean	25
07/28/2011 10:20 AM	Daily Mean	306 *
07/27/2011 10:00 AM	Daily Mean	27
07/26/2011 12:20 PM	Daily Mean	17
07/25/2011 10:30 AM	Daily Mean	2
07/21/2011 12:15 PM	Daily Mean	1321 *

## Beach Sanitary Survey Data

<a href="#">9/9/2011 8:45 AM</a>	Vijay Kannappan
<a href="#">9/8/2011 10:28 AM</a>	Vijay Kannappan
<a href="#">9/7/2011 9:07 AM</a>	Vijay Kannappan
<a href="#">9/6/2011 11:23 AM</a>	Vijay Kannappan
<a href="#">9/1/2011 9:37 AM</a>	Vijay Kannappan
<a href="#">8/31/2011 12:50 PM</a>	Vijay Kannappan
<a href="#">8/30/2011 10:05 AM</a>	Vijay Kannappan
<a href="#">8/29/2011 11:48 AM</a>	Vijay Kannappan
<a href="#">8/25/2011 10:11 AM</a>	vijay kannappan
<a href="#">8/24/2011 11:28 AM</a>	vijay kannappan
<a href="#">8/23/2011 9:33 AM</a>	Vijay Kannappan
<a href="#">8/22/2011 10:08 AM</a>	Vijay Kannappan
<a href="#">8/17/2011 9:12 AM</a>	vijay Kannappan
<a href="#">8/16/2011 10:33 AM</a>	Vijay Kannappan
<a href="#">8/15/2011 12:10 PM</a>	Vijay Kannappan
<a href="#">8/11/2011 10:00 AM</a>	Vijay Kannappan
<a href="#">8/10/2011 10:27 AM</a>	Vijay Kannappan
<a href="#">8/9/2011 12:01 PM</a>	Vijay Kannappan
<a href="#">8/8/2011 10:05 AM</a>	Vijay Kannappan
<a href="#">8/4/2011 12:05 PM</a>	Vijay Kannappan
<a href="#">8/3/2011 8:00 AM</a>	Vijay Kannappan
<a href="#">8/2/2011 12:01 PM</a>	Vijay Kannappan
<a href="#">8/1/2011 10:00 AM</a>	Vijay Kannappan
<a href="#">7/28/2011 10:20 AM</a>	Vijay Kannappan
<a href="#">7/27/2011 10:00 AM</a>	Vijay Kannappan
<a href="#">7/26/2011 12:20 PM</a>	Vijay Kannappan
<a href="#">7/25/2011 10:30 AM</a>	Vijay Kannappan
<a href="#">7/21/2011 12:15 PM</a>	Vijay Kannappan

# Lake Michigan - Grand Haven State Park

## Example of Sanitary Survey Form

Monitoring Point: 7046  
 Survey Performed On: 8/23/2011 at 9:33 AM

Surveyor(s): Vijay Kannappan  
 Surveyor Affiliation: Ottawa County Health Department



### Beach Conditions

**Temperature:** 72° F  
**Wind Speed:** 14 mph  
**Direction:** S  
**Last Rain:** occurred ago  
**Rain Intensity:**  
**Weather Cond.:** Partly Sunny  
**Wave Intensity:** Rough  
**Wave Height:** 4 ft [estimated]  
**Longshore Speed:**  
**Direction:**  
**Comments:** Stong Winds, Rip Current Advisory (red flag)



### Water Conditions

**Water Temp.:** 71° F  
**Change in Water Color?:**  
**Water Odor:** None  
**Turbidity:** Slightly Turbid  
**NTU:** 19  
**Comments:**



### Bather Load

**People in the water:** 0  
**People out of the water:** 52  
**Total People:** 52  
**Bather Comments:**

Bather Activity	Number Of People
-----------------	------------------



### Potential Pollution

Name	Conduit	Amount	Flow Rate	Volume	Characteristics
------	---------	--------	-----------	--------	-----------------

**Bacteria found in above sources:** No  
**Floatables:**  
**Debris/Litter:**  
**Debris Amount:** Low (1-20%)  
**Algae in Nearshore Water:**  
**Algae on Beach:**  
**Algae Types:**  
**Algae Color:**  
**Dead Fish Found:**  
**Pollution Comments:**

Wildlife Type	Number Present
---------------	----------------

Gulls	100
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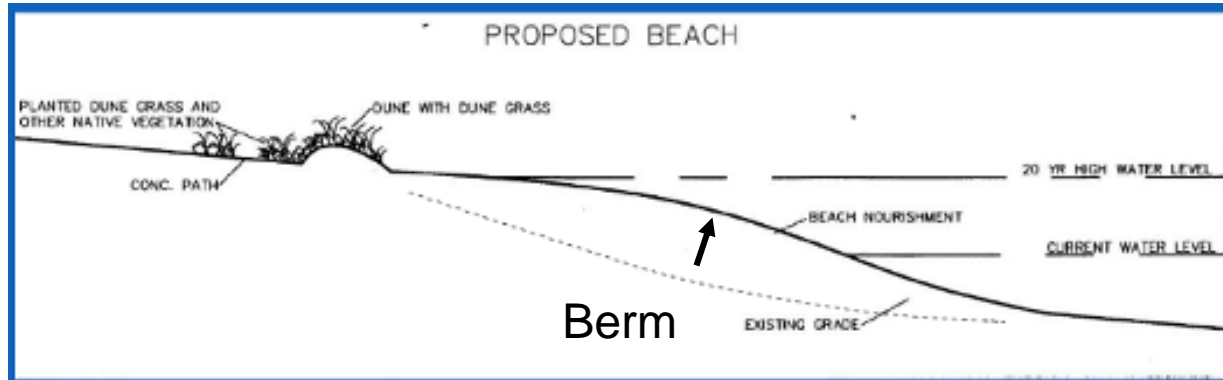
Bird Type	Number Found Dead
-----------	-------------------

Some things to consider

- High winds
- Wind direction
- Rain
- Gulls

# Ideas

Improve beach topography (better slope at berm)



Groom beach daily to reduce *E. coli* concentration at berm crest





# Filtration

- Land Buffer Strips
- Porous Pavers
- Sand Filters



# THIS DRAINAGE AREA HELPS PROTECT LAKE MICHIGAN

This drainage area helps make the sand and water cleaner and safer to swim and play. Polluted stormwater is held away from the beach when it rains.

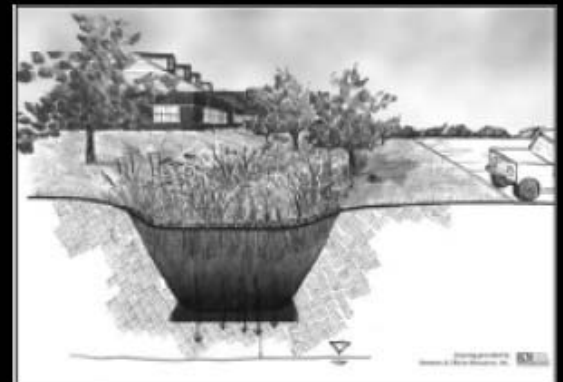


Learn more: [www.rmsd.com](http://www.rmsd.com)



BRADFORD BEACH KEY

- Stormwater Pipe
- ▶ Direction of Stormwater Flow
- Stormwater Inlet or Outlet
- Stormwater Inlet



Graphics Courtesy of Rice Creek Watershed District

# Runoff

- Bio-Retention Cell
- Wetlands
- Green Roofs
- Dune Grass and Dune Swales







Round up with kayaks and canoes.



Collected in enclosed area.

## *Goose Busters*



Goose control with Border Collies



2 birds per cage.





# GLBA



## Great Lakes *Beach Association*

*Working together to improve recreational beach water quality*

[Home](#) [About](#) [Headlines](#) [Events](#) [BEACHNET Discussion](#) [Great Lakes Beach Conference](#) [Additional Info](#)

## *Welcome!*

The **Great Lakes Beach Association** (GLBA) is a collaboration of more than 600 local and state beach managers, working together to improve recreational beach water quality through an informal information-sharing forum. The GLBA seeks to:

- improve the immediacy and availability of data to beach managers;
- increase the knowledge and use by beach managers of sanitary survey tools, rapid testing and predictive modeling methods; and
- enhance collaboration among the beach management community (national, state, local) to make beach monitoring programs more effective and cost-efficient.



### *News and Events*

#### **GLBA has a new website!**

Check out our new web offerings.

#### **Great Lakes Beach Conference 2011**

Sept. 26-28 - Michigan City, IN  
(in conjunction with SOLM Conference)

<http://www.great-lakes.net/glba/>

© 2011 Great Lakes Beach Association

Website Contact: Christine Manninen, [manninen@glc.org](mailto:manninen@glc.org);

GLBA Contact: David Rockwell, GLBA President, [dcrockwe@umich.edu](mailto:dcrockwe@umich.edu).





# Great Lakes *Beach Association*

*Working together to improve recreational beach water quality*

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## *Conference*

The Great Lakes Beach Association holds an annual business meeting, which typically includes an open beach conference highlighting the activities of state and provincial beach monitoring programs, U.S. EPA's BEACH Act projects and funding opportunities, and related public outreach and research initiatives.

### **Current conference**

**2011** - September 26-28, 2011 - Michigan City, Indiana

### **Past conferences**

**2010** - October 19 - 21 in Preque Isle, Pennsylvania

**2009** - September 29 - Oct. 1 in Milwaukee, Wisconsin

**2008** - September 15-17 in Porter, Indiana

2007 - October 1-3 in Grand Traverse, Mich.

**2006** - October 11-13 in Niagara Falls, N.Y.

**2005** - November 2-3, 2005 in Green Bay, Wisconsin

**2004** - November 30 - December 1, 2004 in Parma, Ohio

**2003** - October 21-22, Muskegon, MI

### *Conference Links*

**SOLM full agenda**

Posted September 29, 2011

**Session schedule**

Posted September 29, 2011



# Great Lakes Beach Association [beachnet@great-lakes.net](mailto:beachnet@great-lakes.net)



**Your link to 970 beach buddies!**

We transfer our expertise and experience in successful collaborations on beachnet and at the annual meetings.

Next GLBA conference  
October 16-18, 2012



Michigan Point Resort  
Mackinaw Island





*"We're committed to creating a new standard of care that will leave the Great Lakes better for the next generation."*

- Lisa P. Jackson, Chair of GLRI Task Force

## Find a Project

Enter a location (such as area of concern or watershed) or a project name in the search box. Select a year and click Search to query.

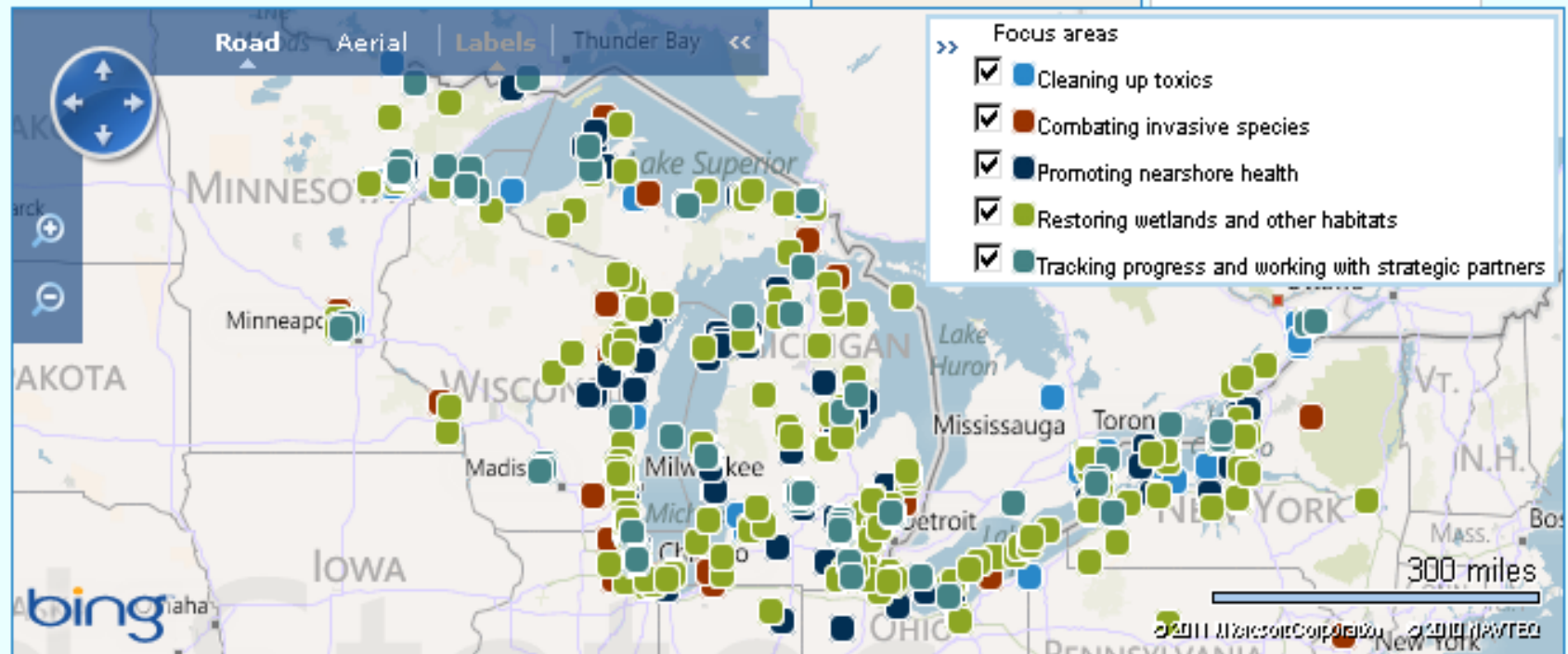
Year: **All**

**Search Results for:** : All Grants

**Results found:** [664](#) | **Current view:** 635 | [Clear Results](#)

[Search results on map](#)

[Search results as a list](#)





# *FY11 EPA-Funded Beach Sanitary Surveys*



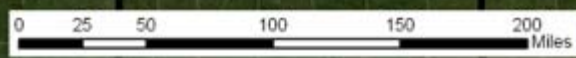
*Lake Superior*

*Lake Huron*

*Lake Michigan*

*Lake Erie*

● Sanitary Survey



# 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*

# Collaboration in Michigan

## 27 Partners

Health Departments, The Watershed Center, and Michigan State University

## 8 Extended Partners

City of Racine, Hope College, Saginaw Valley State University, Lake Superior State University, Superior Watershed Partnership, Cooperative Institute for Limnology and Ecosystems Research at University of Michigan, US Geological Survey, and National Oceanic and Atmospheric Administration.

Photos, videos, and data courtesy of our partners.



# Michigan Great Lakes Beaches

175 beaches included in GLRI projects

At least 11 labs implementing IMS-ATP

At least 3 labs implementing qPCR for beaches

5 beaches Developing Models

1 beach Remediation Project (Bryant Park)

# Identifying Contamination Sources

7 beaches investigated with Sanitary Surveys  
and QPCR molecular source tracking  
(GH City Beach, GH SP, Rosy Mound RA)

3 Counties inspected 214 sites with Canine  
Scent Tracking

2,806 Sanitary Surveys reported to BeachGuard

# Canine Source Tracking

- Ottawa County 2011
  - 54 locations/ 18 hrs.
  - Located 2 discharges adjacent to beach
- Chippewa County 2011
  - State Park and beaches
  - > 70 locations in 14 hrs.
  - Confirmed CCHD focus area
- Traverse City
  - 2011
    - 90 locations/24 hrs
    - Discharge from medical facility
  - 2010
    - 108 locations/36 hrs
    - Focus areas for sources to East Bay & Bryant Park
- City of Lansing 2010
  - Discharge from Medical Facility
  - Illicit sanitary connection from residence

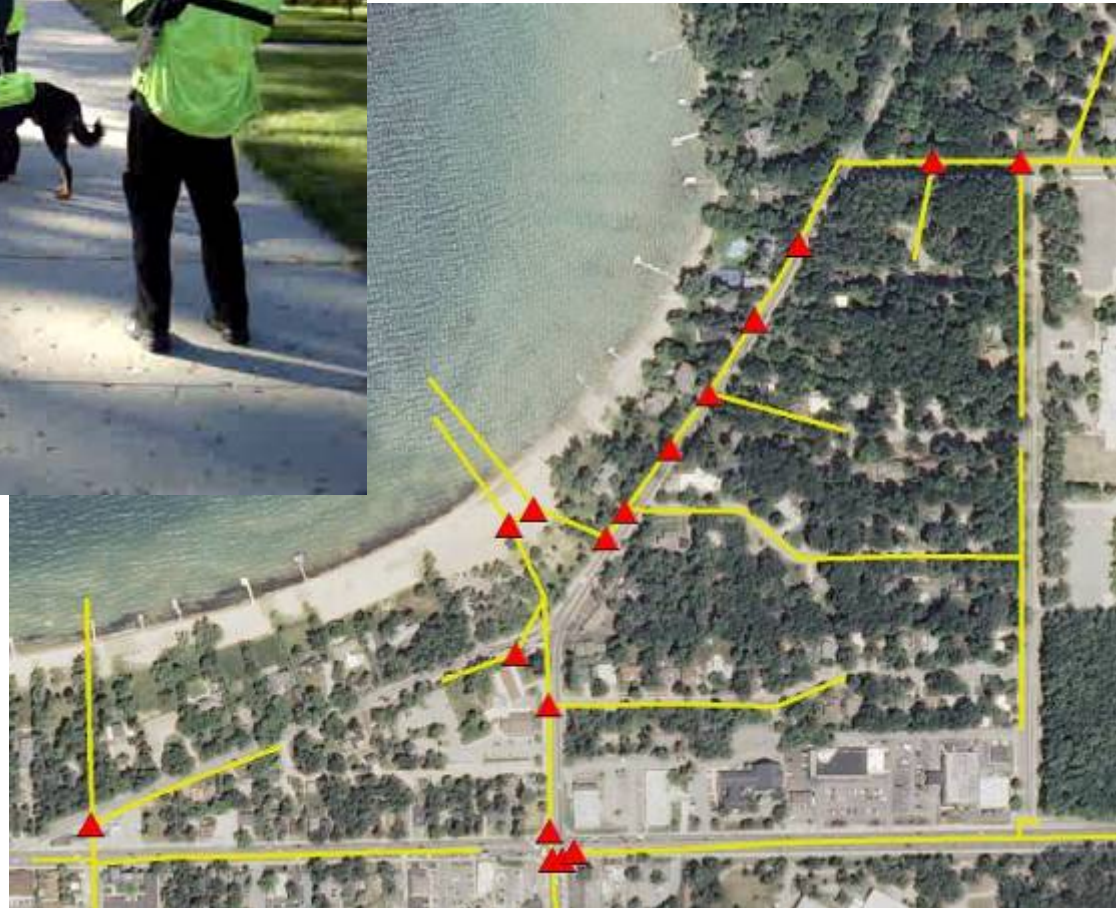




# Scott Reynolds and Sable



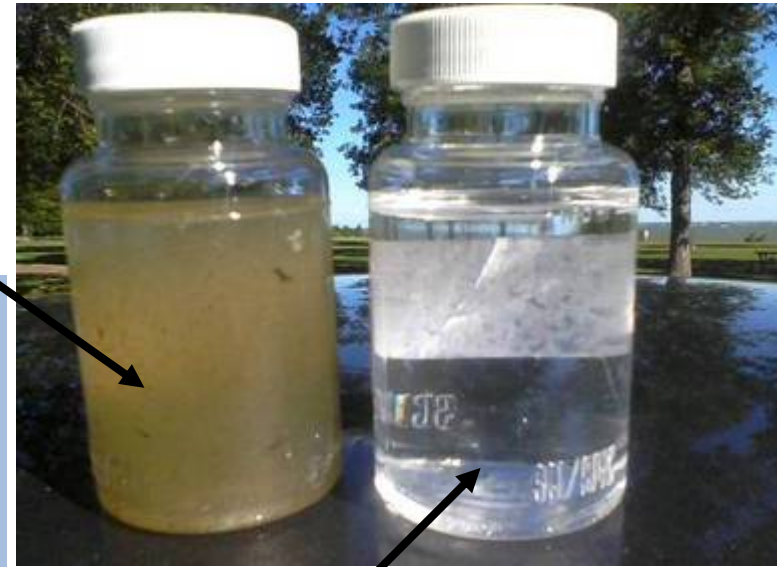
Bryant Park, Traverse City



# Sanitary Survey Findings

Lighthouse County Park  
E. coli > 1,000

60 geese and muck present on beach



Harbor Beach City Park  
E. coli = 46



Huron County samples collected on 07/26/11.

# Best Management Practices

Deter geese and birds from beach area

- Allow grassy areas near beach to grow
- Keep lids on trash cans
- Discourage visitors from feeding birds





“How can information about recreational beach water quality and associated human health risk be communicated to the public, and what should the message be?”



<http://glin.net/beachcast/download/>

**myBeachCast**  
Great Lakes Commission

myBeachCast ★★★★☆ (4) **INSTALL**

**myBeachCast**

OVERVIEW USER REVIEWS WHAT'S NEW PERMISSIONS

### Description

Find beaches in Great Lakes states and receive advisory and weather information. The myBeachCast mobile application provides real-time information on beach advisories and closures, weather, and water conditions for states around the Great Lakes. The app allows users to discover local beaches based on location, save favorite beaches, and view corresponding weather conditions and five-day weather forecasts. The app is initially being designed for the Android platform but a mobile-friendly enhanced website (<http://glin.net/beachcast>) will offer complementary information for other mobile platforms (coming in 2012).

The Android application was developed with funding from the U.S. Environmental Protection Agency.

Visit Developer's Website

### App Screenshots

**Users who viewed this also viewed**

- Marine Weather by Bluefi**  
BLUEFI ENGINEERING  
★★★★☆ (511)  
Free
- My-Cast Weather Classic**  
DIGITAL CYCLONE, INC.  
★★★★☆ (243)  
\$3.99
- 14 FirstAlert Weather TriSt**  
RAYCOM MEDIA, INC.  
★★★★☆ (159)  
Free
- My-Cast Weather**  
DIGITAL CYCLONE, INC.  
★★★★☆ (520)  
\$3.99

**Users who installed this also installed**

- Qualità dell'aria in Ticino**  
AREA DEI SERVIZI AMMINISTRATIVI  
★★★★☆ (12)  
Free
- smart Cabrioindex**  
DÄMLER AG SMART @ DÄMLER

**User Reviews**








myBeachCast

Search Beach (city, address, zip, or lat/long)

(e.g. 48108; Ann Arbor, MI) **Go**

search near me my favorite beaches

beachcast. GLIN .net

-  **Belle Isle Beach**  
Detroit River  
3.56 mi 1 of 7
-  **Sherwood Park**  
Sherwood Lake  
8.79 mi 2 of 7
-  **Pier Park**  
Lake St. Clair  
9.66 mi 3 of 7
-  **St. Clair Shores Blossom Heath Beach**  
Lake St. Clair  
12.91 mi 4 of 7
-  **St. Clair Shores Memorial Park Beach**  
Lake St. Clair  
16.20 mi 5 of 7
-  **Wing Lake Property Owners Association**  
Wing Lake  
19.72 mi 6 of 7
-  **Meadow Lake Association**  
Meadow Lake  
19.91 mi 7 of 7







1:14

## Clifton Beach



Conditions



Forecast

### Advisory Information

Status:



Advisory type: **Contamination Advisory**

Reason: **High bacteria levels**

Last updated: **2011-08-02 16:38:31.393**

### Location Information

External link: [Click here](#)

Waterbody: **Lake Erie**

Address: -

Lat/Long: **41.491,-81.834**

### Nearest Weather Station

KCLE (4.97505 miles)

Temperature: **76.0 F (24.4 C)**

Weather: **Fog/Mist**

Visibility: **6.00 miles**

Humidity: **88%**



1:15

## Clifton Beach



Conditions



Forecast

### This Afternoon



W wind 12 to 14 kt becoming NW. A chance of showers. Waves 1 ft or less.

### Tonight



NW wind 12 to 14 kt becoming NNE after midnight. A chance of showers, mainly before 8pm. Waves 1 ft or less.

### Thursday



NNE wind 11 to 13 kt. A slight chance of showers before 10am. Waves 1 ft or less.

### Thursday Night



NNE wind 10 to 13 kt becoming ENE 6 to 9 kt after midnight. Partly cloudy. Waves 1 ft or less.

### Friday



E wind 6 to 8 kt becoming NNE in the afternoon. A slight chance of showers and thunderstorms after

# Ottawa County



## Ottawa County Beach Watch

Ottawa County is proud of its beautiful and clean beaches! The Ottawa County Health Department monitors conditions and tests E. coli levels of beach water from 16 public beaches throughout the summer. The Health Department does not issue warnings based on the tests, however sampling information and results are available online at [miOttawa.org/beachwatch](http://miOttawa.org/beachwatch).

Natural bodies of water contain microorganisms despite how clean or clear they may look. Always take steps to prevent recreational water illnesses:

- Do not swallow lake water
- Wash your hands with soap and water before eating
- Take children on bathroom breaks
- Be sure young children wear clean swim-diapers
- Do not swim when you are sick
- Do not swim in water that smells foul or looks polluted
- Avoid swimming immediately after heavy rainfall
- Do not feed seagulls
- Shower when you return home



[miOttawa.org/beachwatch](http://miOttawa.org/beachwatch)  
[facebook.com/miOttawabeachwatch](https://www.facebook.com/miOttawabeachwatch)  
[twitter.com/miOttawabeach](https://twitter.com/miOttawabeach)

View test results now with your smart phone's QR code reader. If you do not have a QR code reader you can download one free from your smart phone's app store.



# Reducing Litter on Beaches

Examples in  
Marquette and Traverse City

Beach sign at Holiday Inn







## Beach Conflict

AUG 10 2011

GREAT LAKES ECHO

ONE COMMENT



With more than 10,000 miles of shoreline, the Great Lakes have the most freshwater access in the world — at least, in theory. There are growing conflicts over who can do what where roads meet the water.



AUG. 3:

### **Are beaches public where roads end?**

A western Michigan court case embodies the abiding conflict between private property owners and the public over rights to Great Lakes shorelines at road ends.



AUG. 10:

### **Public docks spark conflicts where roads end at Great Lakes waters**

Public docks create murky water for townships trying to calm public-private tensions at road ends.



AUG. 17

### **Abandoning access: Townships hand over legal rights to road-ends**

Lately, legal experts worry about townships indiscriminately abandoning access and about loopholes that make it easier for public beaches at the end of roads to end up in private hands.

## Special Reports



## Recent Comments

"UP color is late in many areas this year, probably due to the..."

Fall Photo Friday: M-115's roadside en route to Frankfort, Mich.

"Doesn't Alice Rossignol usually write all the avian articles?"

Population of endangered Great Lakes bird remains stable

"Please send me a copy of this article. Nelda B. Ikenberry Thank you!"

Avian Botulism puzzles Great Lakes scientists

"There is plenty of money locked up in Washington to close..."

Carp fight: Stymied in the courts, states widen the scope of the battle



## Septic Setbacks

JUN 21 2011

[GREAT LAKES ECHO](#)

[NO COMMENTS](#)



Ill maintained, leaky and overflowing septic tanks are polluting drinking water sources, rivers and lakes and causing serious health concerns in Great Lakes communities.



AUG. 16

### [Leaky pipes: Researchers find sewage in most Milwaukee stormwater discharges](#)

A recent study found almost 90 percent of storm water outfalls tested in Milwaukee contained human sewage



JULY 7:

### [Michigan on-site wastewater systems lack state oversight](#)

When it comes to regulating septic systems, Michigan is a loner. It lacks statewide regulations to oversee the permitting and operations.



JUNE 28:

### [Local governments search for funds to fix failing septic systems](#)

Leaking septic tanks continue to threaten human and environmental health despite increased regulations, legislation and enforcement.



JUNE 21:

### [Failing septic systems an increasing health concern](#)

While most home sellers look for realtors, some may also have to stop at their local health department.

## Special Reports



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"There is plenty of money locked up in Washington to close..."

[Carp fight: Stymied in the courts, states widen the scope of the battle](#)

"The primary cause in this chain of events certainly seems to be climate change. Rising..."

[Avian Botulism puzzles Great Lakes scientists](#)

# Trends in Monitoring Data

- More Sanitary Surveys reported
  - Reduced number of “Unknown Sources”
  - Increased number of “rain related” sources
- Duration of Advisory or Closure
  - Shorter duration usually rain related
  - Longer duration mostly Unknown Source



# Contamination Sources Associated with Advisories and Closures

Sources	2009	2010	2011
Unknown	73%	69%	54% ↓
Rain Related	16%	24%	38% ↑
Wildlife	8%	1%	2%
Agriculture	2%	1%	1%

*Routine Sanitary Surveys effectively identify sources of contamination that cause beach closures and advisories.*

# Contamination Source listed according to Number of Days with Closure or Advisory in 2011

Sources	1 to 2 days	3 to 10 days	14+ days
Unknown	49%	55%	100%
Rain related	43%	35%	0%
Other	8%	10%	0%



It might be easier to work alone. . .



# Growing Partnerships

County Health Departments

Watershed Groups

Townships & Cities

Drain Commissioners

Legislators

Universities & Colleges

EPA, USGS, NOAA

# *Second Round of Great Lakes Restoration Initiative Beach Projects*

- Central Michigan University
  - Implementing Gull Exclusion at Public Beaches
- Watershed Center
  - East Bay Park Remediation
  - Suttons Bay Stormwater Remediation
- Huron Clinton Metropark Authority
  - Reducing the Impact of Stormwater on Metro Beach

# *Third Round of Great Lakes Restoration Initiative Beach Projects ?*

Can we have more

– Remediation Projects?

- Low Impact Design
- Rain Gardens
- Buffer Strips

– Source Tracking?

– Additional Monitoring at new sites?

– Test accuracy of Rapid Methods?



# Invitation

- February 22-24, 2012 Marquette, Annual Training Conference, UPEHA
- March 28-30, 2012, Kalamazoo, Annual Education Conference, MEHA
- October 16-19, 2012, Mackinaw Island, Annual Meeting, Great Lakes Beach Association
- Spring, 2013, National Beaches Conference