

# 'How's My Waterway?' and Other Water Quality Apps

## A Watershed Academy Webcast



Wednesday, November 28, 2012

1:00pm – 3:00pm Eastern

### Instructors:

**Douglas J. Norton**, Environmental Scientist, Watershed Branch, U.S. EPA's Office of Wetlands, Oceans and Watersheds

**Krystyn Tully**, Vice President, Lake Ontario Waterkeeper, Toronto, Canada

**Jared Robinson Criscuolo**, Founder and Executive Director, Below the Surface

## Webcast Logistics

- **To Ask a Question** – Type your question in the “Questions” tool box on the right side of your screen and click “Send.”
- **To report any technical issues** (such as audio problems) – Type your issue in the “Questions” tool box on the right side of your screen and click “Send” and we will respond by posting an answer in the “Questions” box.

# Topics for Today's Webcast

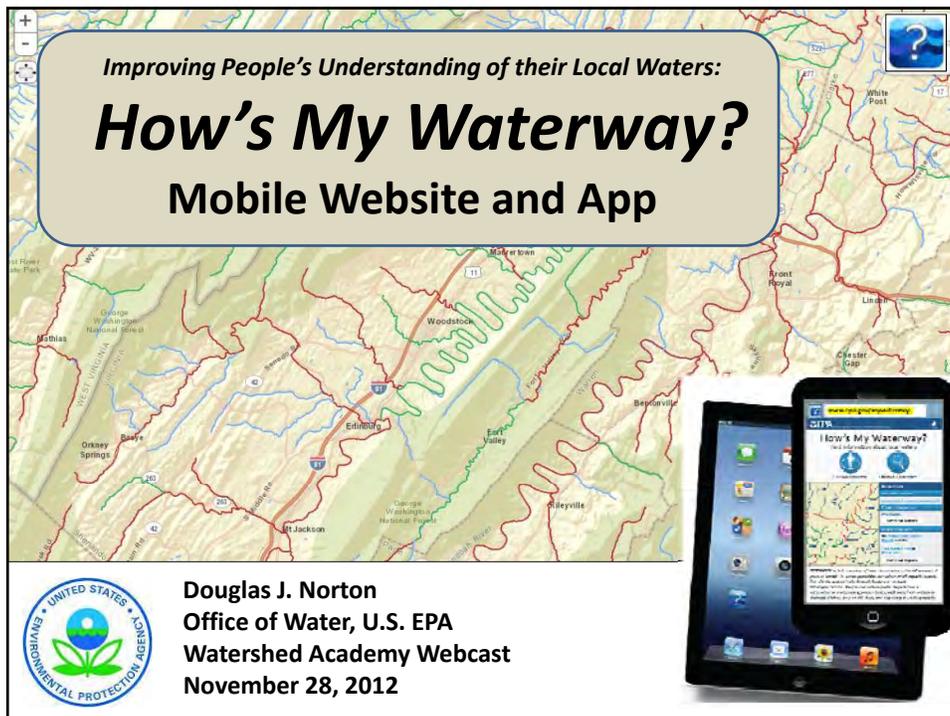
- How's My Waterway app
- Swim Guide and Drink Guide apps
- Riverview app



*Improving People's Understanding of their Local Waters:*

## **How's My Waterway?**

**Mobile Website and App**



**Douglas J. Norton**  
Office of Water, U.S. EPA  
Watershed Academy Webcast  
November 28, 2012

## Have you ever wondered:

“Is our local lake clean and healthy?”

“Have the streams in my neighborhood ever been tested for pollution?”

“If my dog drinks from this pond, can that be harmful to him?”

**“Is there any risk to my kids if they play in the creek?”**

“How can water pollution damage human health or harm the economy?”

**“Is anyone doing anything to fix water pollution problems?”**



... in fact, the information to answer questions like these has been publicly available for many years due to the Clean Water Act:

- States test their waters for pollution
- EPA compiles the results nationally
- Clean-up plans are developed and funded



**But,**  
complex scientific data bases are difficult for most people to use – and their questions can go unanswered.



**How's My Waterway**  
[www.epa.gov/mywaterway](http://www.epa.gov/mywaterway)

EPA's Office of Water designed **How's My Waterway** to help the public get their answers:

- an easy to use web tool
- focus on local waters
- instant results
- map or list format
- plain-English descriptions
- uses, but clarifies, the same scientific data States report to EPA.

*see how it works...*



United States Environmental Protection Agency

**How's My Waterway?**  
 Find information about local waters

Use My Location    Choose a Location

Learn the condition of local streams, lakes and other waters anywhere in the US... quickly and in plain language. See if your local waterway was checked for pollution, what was found, and what is being done. The source of this information is a US Environmental Protection Agency (EPA) database of State water quality monitoring reports provided under the Clean Water Act.

About How's My Waterway

Related Links

Help

EPA Home | Privacy | Contact

**EPA** United States Environmental Protection Agency

## How's My Waterway?

Find information about local waters

**SMART PHONES OR TABLETS start here:**

Tap this symbol. In a few seconds a list of the lakes, rivers and streams within about 5 miles will appear along with basic information on their condition.

Use My Location    Choose a Location

and other waters anywhere in the US... quickly and in plain language. See if your local waterway and what is being done. The source of this information is a US Environmental Protection Agency monitoring reports provided under the Clean Water Act.

About How's My Waterway

Related Links

Help

EPA Home | Privacy | Contact

**EPA** United States Environmental Protection Agency

## How's My Waterway?

Find information about local waters

Use My Location    Choose a Location

**COMPUTERS, SMART PHONES, TABLETS start here:**

Click on this symbol to start a search for the condition of local waterways anywhere in the U.S.

Learn the condition of local streams, lakes and other waters anywhere in the US... quickly and in plain language. See if your local waterway and what is being done. The source of this information is a US Environmental Protection Agency monitoring reports provided under the Clean Water Act.

About How's My Waterway

Related Links

Help

EPA Home | Privacy | Contact

EPA United States Environmental Protection Agency

How's My Waterway?

Enter a zipcode or city/state for the condition of waterways within five miles of its center.

Enter zipcode or city/state

About How's My Waterway

Related Links

Help

**SEARCH PAGE:**  
Enter any zip code or place name and state to get information about the condition of waterways within a five mile radius of its center.

EPA Home | Privacy | Contact

EPA United States Environmental Protection Agency

How's My Waterway?

Waters Nearest 40289, KY

Show Map

South Fork Beargrass Creek	ASSESSED 2009   POLLUTED 2009	0.70mi
Unnamed Waters	UNASSESSED   CONDITION UNKNOWN	1.09mi
Middle Fork Beargrass Creek	ASSESSED 2008   POLLUTED 2008	3.32mi
Unnamed Waters	ASSESSED 2009   POLLUTED 2009	3.56mi
Fern Creek	ASSESSED 2008   POLLUTED 2008	4.99mi
Weicher Creek	UNASSESSED   CONDITION UNKNOWN	5.30mi
Beargrass Creek	ASSESSED 2009   POLLUTED 2009	5.30mi
Unnamed Waters	ASSESSED 2008   POLLUTED 2008	5.48mi

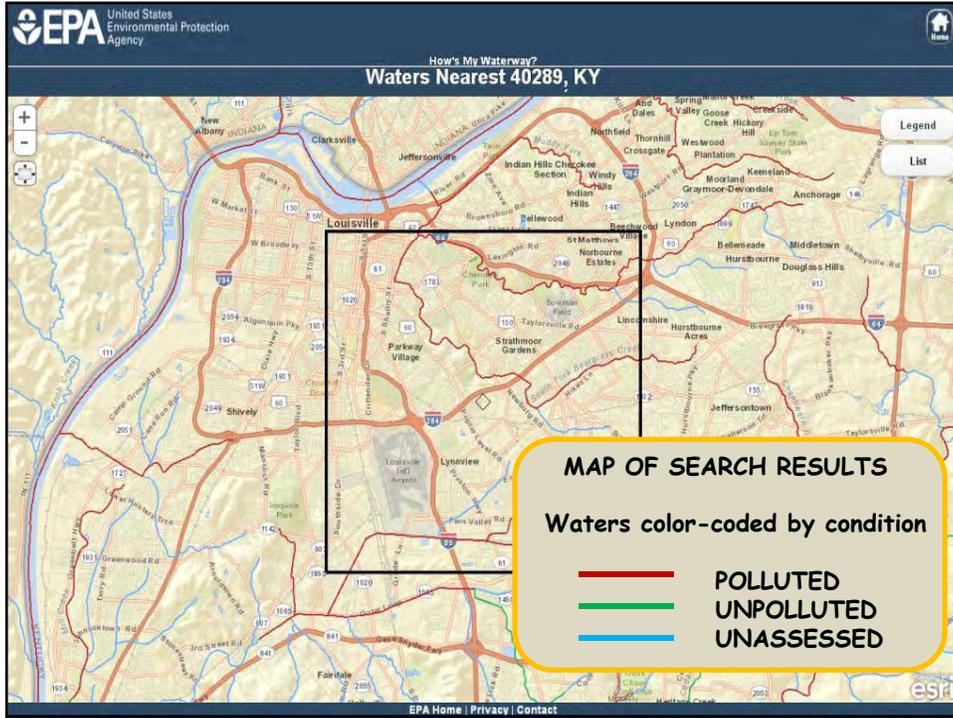
Show Map

New Search Related Links

About How's My Waterway

**SEARCH RESULTS:**  
Waters within your search area, including reporting dates, condition, and when tested

**CLICK FOR MAP VIEW OF SAME SEARCH AREA...**



**WATERWAY-SPECIFIC DETAILS**

**STATUS:** when last assessed, condition reported

**POLLUTION:** types of pollutants reported at problem levels (with plain-English descriptions)

**PROGRESS:** clean-up plans and projects done by States and EPA

\* Links to the technical reports are available for advanced users

The screenshot shows the following page structure:

- Reported Condition:** Assessed 2010 / Listed as polluted 2010. Includes a link to Technical Reports.
- Pollution Categories:**
  - METALS:** Includes a link to Technical Report.
  - BACTERIA AND OTHER MICROBES:** Includes a link to Technical Reports.
  - NITROGEN AND PHOSPHORUS:** Includes a link to Technical Reports.
- What's Being Done:** No Polluted Runoff Control Projects available. Includes a link to TMDL Cleanup Plan for BACTERIA AND OTHER MICROBES.

Yellow arrows point from the explanatory text to the corresponding links in the screenshot.

**EPA** United States Environmental Protection Agency

How's My Waterway?

## Bacteria and Other Microbes (Pathogens)

**BACTERIA AND OTHER MICROBES (pathogens)** are potentially disease-causing organisms from human or animal wastes that enter waters through septic tank leaks or sewage discharges, farm and feedlot manure runoff after rain, boat discharges, and pet and wildlife waste. People can become ill by eating contaminated fish or shellfish or swimming in waters with high levels of these microbes.

**What you can do:** People can help reduce pathogen contamination by never dumping animal or boat waste in a waterway, fixing leaky septic tanks, picking up pet waste, and avoiding manure application close to shorelines or drainage ditches. Read more about pathogens in waterways and drinking water and health risks from pathogens.

**Summary:** Disease-causing bacteria and other microbes (viruses and protozoa) are called pathogens, and they usually come from human or animal waste. They are the most commonly reported cause of water pollution nationwide, with over 10,300 waters identified. These microbes enter US waterways from both man-made and natural sources, and can affect human and animal health as well as several beneficial uses. They reach the water directly in urban and suburban areas from wastewater treatment plants, sewer overflows, failing sewer lines, slaughterhouses, and meat processing facilities; tanning, textile, and pulp and paper factories; fish and shellfish processing facilities; sewer treatment plants; and other sources. Other sources include livestock manure from barnyards, pastures, range, and feedlot manure storage, and wildlife sources. The health risks they represent, can change rapidly due to environmental conditions. Life-threatening illnesses are caused mainly by swallowing pathogens, contact with the water or eating contaminated fish or shellfish. Live waterways can cause significant economic losses due to beach closures and other impacts. In some cases, they can be treated but require advanced treatment.

Notice: Some links on this page contain...

EPA Home | Privacy | Contact

**PLAIN-ENGLISH WATER POLLUTANT DESCRIPTIONS for non-technical users:**

- What it is
- Where it usually comes from
- Human health and economic effects
- How it harms the environment
- What people can do to help

What the Pollutants Mean

Imported From IE | How's My Water... | How's My Water... | How's My Water... | How's My Water... | How's My Water...

"How's My Waterway?" Pollutant summaries [www.epa.gov/mywaterway](http://www.epa.gov/mywaterway) doc. no. EPA841-R-12-104, June 2012

### SUMMARIES OF WATER POLLUTION REPORTING CATEGORIES

The following pages include brief summaries of 34 general reporting categories used to organize EPA data on polluted waters. The "plain English" name and the corresponding EPA database attribute name are provided in the table below. These summaries were developed to clarify what each category means.

"How's My Waterway?" Plain English Category Name (see <a href="http://www.epa.gov/mywaterway">www.epa.gov/mywaterway</a> )	ATTAINS EPA Database Attribute Name (LW_PARENT_CAUSE_NAME) (see <a href="http://epa.gov/waters/lw/">http://epa.gov/waters/lw/</a> )
Abnormal Flow	FLOW ALTERATIONS
Acidity	PH/ACIDITY/CAUSTIC CONDITIONS
Ammonia	AMMONIA
Bacteria and Other Microbes	PATHOGENS
Biological Poisons	BIOTOXINS
Cause Unknown	CAUSE UNKNOWN
Chlorine	CHLORINE
Degraded Aquatic Life	CAUSE LIFE
Degraded Habitat	HABITAT
Dioxins	DIOXINS
Excess Algae	ALGAL GROWTH
Excess Aquatic Weeds	INDIQUINONES
Excess Sediment	SEDIMENT
Fish Kills	CAUSE LIFE
Fish Unsafe to Eat	FISH CONSUMPTION ADVISORY
Low Oxygen	ORGANIC ENRICHMENT/OXYGEN DEPLETION
Mercury	MERCURY
Metals	METALS (OTHER THAN MERCURY)
Murky Water	TURBIDITY
Nitrogen and Phosphorus	NUTRIENTS
Nuisance Plants or Animals (Foreign)	NUISANCE EXOTIC SPECIES
Nuisance Plants or Animals (Native)	NUISANCE NATIVE SPECIES
Oil and Grease	OIL AND GREASE
PCBs	POLYCHLORINATED BIPHENYLS (PCBS)
Pesticides	PESTICIDES
Polluted, Other Cause	OTHER CAUSE
Radiation	RADIATION
Salts	SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES/SULFATES
Taste, Color and Odor	TASTE, COLOR, AND ODOR
Temperature	TEMPERATURE
Total Toxic Chemicals	TOTAL TOXICS

**20 PAGE DOCUMENT CONTAINS ALL 34 CATEGORY DESCRIPTIONS**

start | Microsoft Office | 11:25 AM

U.S. ENVIRONMENTAL PROTECTION AGENCY

## Watershed Assessment, Tracking & Environmental Results

Report Address | Contact Us Search: All EPA This Area

You are here: EPA Home » Water » WATERS » Water Quality Assessment and TMDL Information » Waterbody Quality Assessment Report

Return to home page

### 2008 Waterbody Report for South Fork Of Beargrass Creek 0.0 To 2.7

On This Page

- Causes of Impairment
- TMDLs That Apply to This Waterbody
- Previous Causes of Impairment Now Attaining All Uses

State: Kentucky  
 Waterbody ID: KY503905\_01  
 Location: Mouth To Concrete Section  
 State Waterbody Type: Stream/Creek/River, River  
 EPA Waterbody Type: Rivers and Streams  
 Water Size: 2.7, 2.7  
 Units: miles  
 Watershed Name: Silver-Little Kentucky

Waterbody History Report

Data are also available for these years: 2010 2006 2004 2002

Click on the waterbody for an interactive map

Facilities Questions

- About This Database (Integrated Report)
- Assessing Water Quality (Questions and Answers)
- Integrated Reporting

TECHNICAL REPORTS buttons lead you into the technical databases online for much greater detail (e.g., the TMDL document)

Causes of Impairment for Reporting Year 2008

Cause of Impairment	Cause of Impairment Group	State TMDL
Cadmium	Metals (other than Mercury)	TMDL need
Fecal Coliform	Pathogens	TMDL need
Nutrient/Eutrophication Biological Indicators	Nutrients	TMDL need
Organic Enrichment (Sewage) Biological Indicators	Organic Enrichment/Oxygen Depletion	TMDL need

TMDLs That Apply to this waterbody

TMDL Document Name	TMDL	TMDL Pollutant Description	TMDL Pollutant Source Type	Cause(s) of Impairment Addressed
Development Of Fecal Coliform Tmdls, Six Stream Segments Within The Beargrass Creek Watershed	Feb-02-2002	Pathogens	Point/Nonpoint Source	Fecal Coliform; Pathogens

Final Total Maximum Daily Load for Fecal Coliform Six Stream Segments within the Beargrass Creek Watershed Jefferson County, Kentucky (December, 2011)

Top of page

United States Environmental Protection Agency

now's my waterway?

### Related Links

The following links to other websites provide more detailed information about the condition of your local waters and some of the actions taken to restore or protect them. Additional information also exists beyond these EPA sources.

Notice: Some links on this page contain content that has not been formatted for mobile devices.

About How's My Waterway	What the Pollutants Mean
Assessed and Polluted Waters Database	Pollutant Discharges With Permits
Beach Closings	Drinking Water
NARS National Water Monitoring	Healthy Waters and Watersheds
Fish Advisories	Polluted Runoff Control Projects
National Fish Habitat Partnership	What You Can Do

RELATED LINKS TO OTHER POPULAR WATER TOPICS

- Beach closure information
- Drinking water quality information
- Fish habitat improvement projects
- Fish consumption advisories
- How to contact water pollution programs

EPA Home | Privacy | Contact



Fish Advisories

www.epa.gov/water/standards/guidance/fish/shellfish/fishconsumptionadvisories/index.cfm

EPA United States Environmental Protection Agency

LEARN THE ISSUES | SCIENCE & TECHNOLOGY | LAWS & REGULATIONS | ABOUT EPA

Advanced Search A-Z Index

**Water: Fish Advisories** [Contact Us](#) [Share](#)

You are here: [Water](#) > [Science & Technology](#) > [Surface Water Standards & Guidance](#) > [Fish & Shellfish](#) > [Fish Consumption Advisories](#)

## Fish Consumption Advisories

**Fish Advisories Quick Finder**

<a href="#">Fish Consumption Advisories Home</a>	<a href="#">General Information</a>	<a href="#">Technical Information</a>	<a href="#">Advisories Where You Live</a>	<a href="#">Advanced Interactive Maps &amp; Searches</a>
--	-------------------------------------	---------------------------------------	---	--

Fish are a lean, low-calorie source of protein. However, some fish may contain chemicals that could pose health risks. When contaminant levels are unsafe, consumption advisories may recommend that people limit or avoid eating certain species of fish caught in certain places.

Every year since 1993, the EPA has made available to the public a compendium of information on locally issued fish advisories and safe eating guidelines. This information is provided to EPA by states, U.S. territories, Indian tribes, and local governments who issue fish consumption advisories and safe eating guidelines to inform people about the recommended level of consumption for fish caught in local waters.

Welcome to the EPA's Fish Consumption Advisory website. This website is divided into two main areas: a [General Advisory Information](#) area and a [Technical Advisory Information](#) area.



### General Advisory Information

Learn more about fish advisories, such as:

- Healthy Eating of the Fish You Catch
- Advisories Where You Live
- Joint Federal Advisory for Mercury in Fish
- Frequently Asked Questions and Answers

[Go to General Advisory Information pages.](#)

### Technical Advisory Information

View more technical and scientific fish advisory information, such as:

- Advanced Fish Advisory and Tissue Searches
- Fish Advisory Newsletter
- NFA Factsheet
- Fish Forum



start | InBox | Microsoft Office | Fish Consump...

Pollutant Discharges With Permits

www.epa.gov/water/standards/guidance/fish/shellfish/fishconsumptionadvisories/index.cfm

EPA United States Environmental Protection Agency

LEARN THE ISSUES | SCIENCE & TECHNOLOGY | LAWS & REGULATIONS | ABOUT EPA

ALL EPA THIS AREA Advanced Search

You are here: [PA Home](#) > [DMR](#) > [Pollutant Loading Tool](#)

## Discharge Monitoring Report (DMR) Pollutant Loading Tool

[EC Search](#) [TR Search](#) [Facility Search](#) [Advanced Search](#) [Data Explorer](#) [Everyday Searches](#) [About Us](#) [Contact Us](#) [Feedback](#)

**Note:** The tool uses discharge monitoring report (DMR) data from ICIS-NPDES and PCS to calculate pollutant discharge amounts. EPA has verified the accuracy of the tool's calculations. EPA has also performed a limited review of the underlying data that has focused on facilities with the largest amounts of pollutant discharges. Due to the large amount of DMR data, additional errors exist in ICIS-NPDES and PCS. Please see the User's Guide on page 11 and the Frequently Asked Questions section, and the Instructions page for instructions on how to use the tool and how to correct errors in ICIS-NPDES and PCS. Please send an email to [imprtding@epa.gov](mailto:imprtding@epa.gov) with any comments or questions about the tool. The tool also uses wastewater pollutant discharge data from the Toxic Release Inventory (TRI).

### Overview

The Discharge Monitoring Report (DMR) Pollutant Loading Tool is a new tool designed to help you determine **who is discharging, what pollutants they are discharging and how much, and where they are discharging.** The tool calculates pollutant loadings from permit and DMR data from EPA's Permit Compliance System (PCS) and Integrated Compliance Information System for the National Pollutant Discharge Elimination System (ICIS-NPDES). Data is available for the years 2007 through 2010. Pollutant loadings are presented as pounds per year and as toxic-weighted pounds per year to account for variations in toxicity among pollutants. The tool ranks dischargers, industries, and watersheds based on pollutant mass and toxicity, and presents "top ten" lists to help you determine which discharges are important, which facilities and industries are producing these discharges, and which watersheds are impacted.

The tool also includes wastewater pollutant discharge data from EPA's Toxic Release Inventory (TRI). Data is available for the years 2007 through 2010. Users can search TRI data to find the facilities with the largest pollutant discharges to surface waters or sewage treatment plants (i.e. a Publicly-Owned Treatment Works - POTW). Users can also compare the DMR data search results against TRI data search results and vice versa. The tool clearly labels the source of data when displaying search results but does not mix TRI or DMR data when calculating pollutant discharges.

If this is your first time using the tool then you might want to start with the [EC Search](#) (DMR data) or the [TRI Search](#) (TRI data). If you need more flexibility with your searches you might want to try the [Advanced Search](#) (DMR data). If you have additional questions or would like more information about the tool, you can access more detailed information in the [User Guides/Tool Documents](#) tab.

Read on to learn more about:

- [How to Navigate the Tool](#)
- [Loading Tool Data Sources](#)
- [Data Scope and Limitations](#)
- [2010 Data Release and Timing](#)

**Jump to a DMR Loading Tool Search**

EC Search	Data Explorer
TR Search	Advanced Search

start | InBox | Microsoft Office | DMR Pollutant L...

What You Can Do

Imported From | How's My Waterway | How's My Waterway | How's My Waterway | How's My Waterway | How's My Waterway

EPA Visual Think Environmental Protection Agency

Learn The Issues | Science & Technology | Laws & Regulations | About EPA

Water: Adopt Your Watershed

You are here: [Water](#) > [What You Can Do](#) > [Adopt Your Watershed](#)

### Adopt Your Watershed

EPA's Adopt Your Watershed program challenges you to leave your community by taking part in activities to protect and restore your local watershed.

Visit our on-line Adopt Your Watershed program to learn about opportunities for monitoring, stream cleaning, stream restoration, and more. Simply click on your state to find a list of organizations.

If you can't find a group to join, you can also include a Watershed Steward in your watershed. Simply click on the "Add a Watershed Steward" link to add your watershed group to the list.

\*The full Adopt Your Watershed program is available for download. (Right click - and download)

**United We Serve**

#### What YOU Can Do

**A Watershed Steward**

1. Become a volunteer stream steward, help identify pollution, and help identify ways to clean up the stream.
2. Organize your own stream cleanup campaign (Visit [International Coastal Cleanup](#) for more information.)
3. Build a Rain Garden.

State	State Water Program URL
1 Alabama	<a href="http://ladem.alabama.gov/programs/water">http://ladem.alabama.gov/programs/water</a>
2 Alaska	<a href="http://www.dec.state.ak.us/water">http://www.dec.state.ak.us/water</a>
3 American Samoa	<a href="http://asepa.gov/water-program.asp">http://asepa.gov/water-program.asp</a>
4 Arizona	<a href="http://www.azdeq.gov/environ/water">http://www.azdeq.gov/environ/water</a>
5 Arkansas	<a href="http://www.azdeq.state.ar.us/water">http://www.azdeq.state.ar.us/water</a>
6 California	<a href="http://www.waterboards.ca.gov/">http://www.waterboards.ca.gov/</a>
7 Colorado	<a href="http://www.cdphs.state.co.us/op/wqcc">http://www.cdphs.state.co.us/op/wqcc</a>
8 Connecticut	<a href="http://www.ct.gov/dep/cwp/view.asp?a=2719&amp;q=325520&amp;depNav_GID=1654">http://www.ct.gov/dep/cwp/view.asp?a=2719&amp;q=325520&amp;depNav_GID=1654</a>
9 Delaware	<a href="http://www.dnrec.state.de.us/water2000">http://www.dnrec.state.de.us/water2000</a>
10 District of Columbia	<a href="http://ddoe.dc.gov/service/water-district">http://ddoe.dc.gov/service/water-district</a>
11 Florida	<a href="http://www.dep.state.fl.us/water">http://www.dep.state.fl.us/water</a>
12 Georgia	<a href="http://www.gaepd.org/Documents/index_water.html">http://www.gaepd.org/Documents/index_water.html</a>
13 Guam	<a href="http://epa.guam.gov/">http://epa.guam.gov/</a>
14 Hawaii	<a href="http://hawaii.gov/health/environmental/environmental/water/index.html">http://hawaii.gov/health/environmental/environmental/water/index.html</a>
15 Idaho	<a href="http://www.deq.idaho.gov/water-quality.aspx">http://www.deq.idaho.gov/water-quality.aspx</a>
16 Illinois	<a href="http://www.epa.state.il.us/water">http://www.epa.state.il.us/water</a>
17 Indiana	<a href="http://www.in.gov/idem/nps/">http://www.in.gov/idem/nps/</a>
18 Iowa	<a href="http://www.igsb.uiowa.edu/wqm">http://www.igsb.uiowa.edu/wqm</a>
19 Kansas	<a href="http://www.kdheks.gov/water/index.html">http://www.kdheks.gov/water/index.html</a>

How's My Waterway?

### Waters Nearest Selected Location

**How's My Waterway** went public on **October 18, 2012**

**40<sup>th</sup> Anniversary of the Clean Water Act**

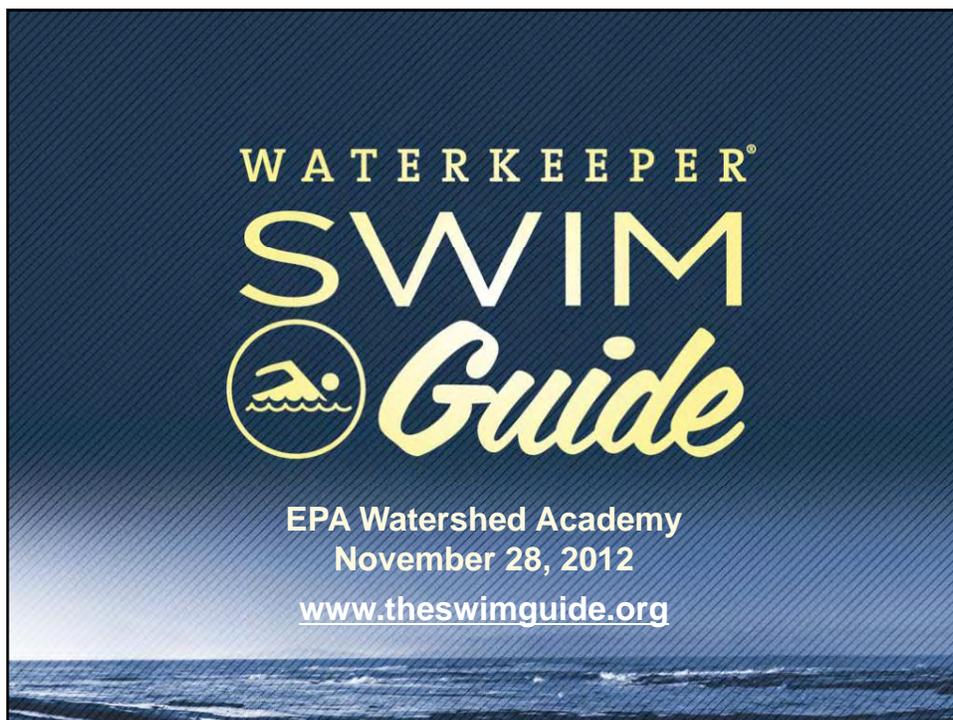
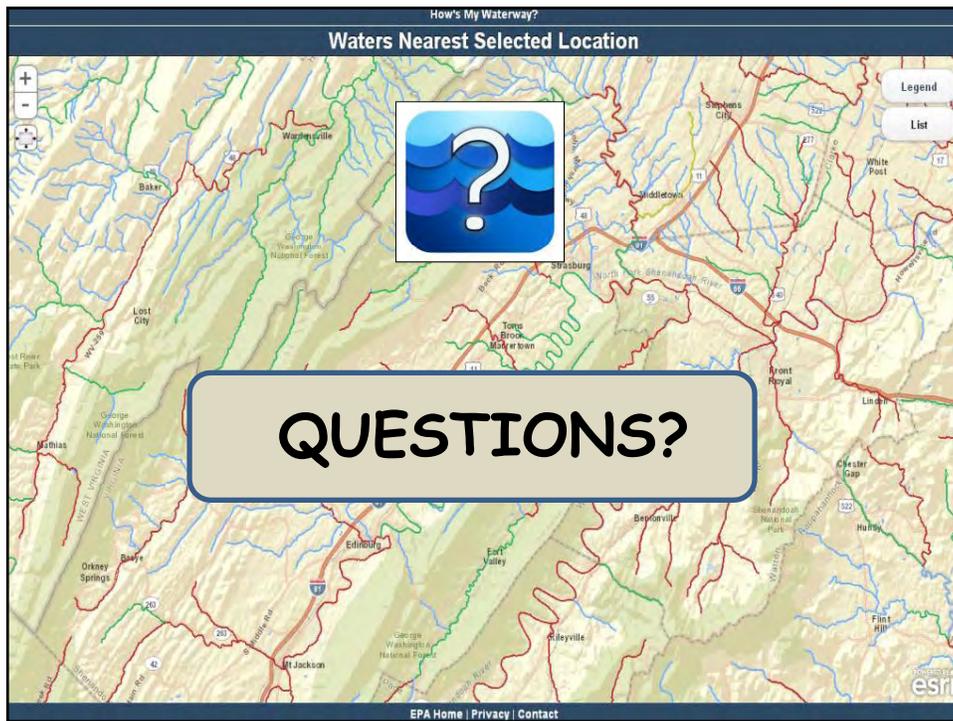
-----

**One month later, a Google Search on "How's My Waterway" returns over 1 million results**

Visit *How's My Waterway* at: [www.epa.gov/mywaterway](http://www.epa.gov/mywaterway)

For questions or comments, contact: <http://water.epa.gov/contactus.cfm>.

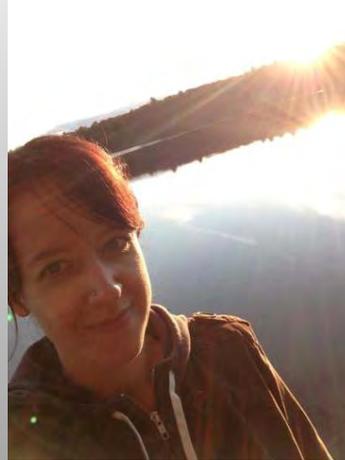
EPA Home | Privacy | Contact





# HELLO

- Krystyn Tully, Vice President & Co-Founder
- Lake Ontario Waterkeeper, formed in 2001. For a lake where you can swim, drink, and fish.
- Affiliated with Waterkeeper Alliance ([www.waterkeeper.org](http://www.waterkeeper.org))
- [krystyn@waterkeeper.ca](mailto:krystyn@waterkeeper.ca)  
@krystynt on Twitter



# Agenda

- Why Swim Guide?
- What is Swim Guide?
- How does Swim Guide work?
- What does the future look like?



## People Love Beaches

- Every year ...
  - 2/3 of Canadians swim in freshwater lakes, rivers
  - Americans make 2-billion trips to the beach
  - Roughly 8-million people swim in the Great Lakes
- The average beachgoer spends up to \$50 per visit
- There are more than 4,000 designated “beaches” in Canada and the USA, including freshwater and river sites



## THEY Need Our Help

- 6,189 lost swimming days on Great Lakes in 2011 due to water quality problems
- 4/5 people will be deterred by advisories or warning signs when they go to the beach this year
- An estimated 3.5-million people in Canada and the USA will get sick after bathing in polluted waters this year
- Closed beaches are indicators of other major environmental problems

## HOW IT STARTED

- #1 question we are asked: Is it safe to swim in Lake Ontario?
- No centralized list of beaches
- No consistent water quality information reporting practice
- No data designed for public consumption



## The Need

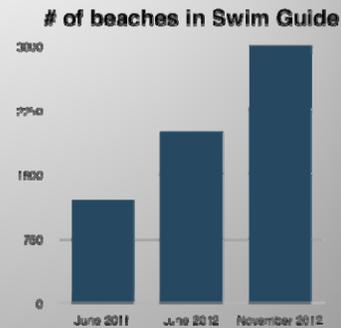
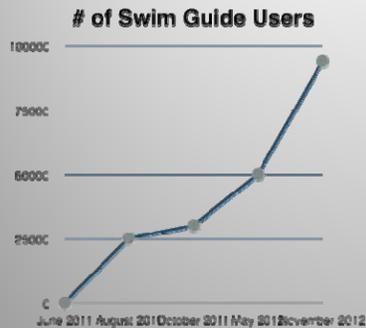
- One reliable, easy-to-understand index of official beaches to help people find places to swim
- Water quality data as close to real-time as possible; historical information when no current data available
- Data that serves the user and ignores political jurisdictions
- Increased awareness for important beach monitoring programs



# Swim Guide



# PUBLIC RESPONSE



“Whether you plan to take a dip in Lake Ontario, Sauble, Wasaga Beach or anywhere in between this Civic Holiday long weekend, downloading this app is a great idea.” - Toronto Standard App of the Week

“Terrific” - LA Times | “Essential app for summer” - USA Today



## USER DATA

- **Pollution reports** submitted by beach-goers provide grassroots eyes and ears
- **Traffic statistics** help us identify beaches used by large numbers of people to focus education and outreach efforts
- **Historical water quality results** identify chronic problems or unusual trends so we can target restoration and protection efforts for maximum effectiveness



## App as a Tool

- **Facilitates more collaboration** to add swimming areas, improve beach descriptions, recognize organizations working on beach issues
- **Facilitates public education** to ensure every trip to the beach is a positive, safe and memorable experience
- **Inspires stronger beach protection policies** and incentives to help identify, discuss, and resolve water quality problems



## Our Goals

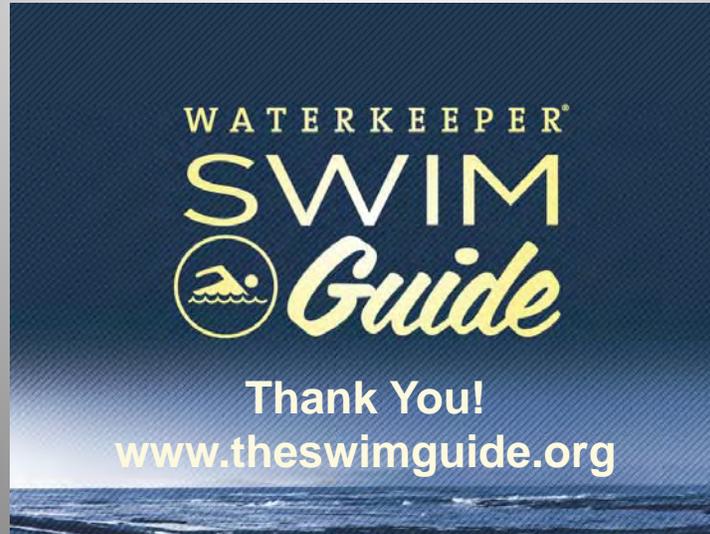
- **Short-term protection** → Show people where it is safe to swim so they can reduce their exposure to pollution
- **Medium-term protection** → Identify sources of pollution, then act to restore and maintain beach areas
- **Long-term protection** → Strengthen the connection between people and their shorelines, empower them to defend clean water

## What's Next?

- **More beaches**
- **More apps!** The new Waterkeeper Drink Guide is available for iPhone/iPod and shows drinking water advisories across Canada.



# Questions

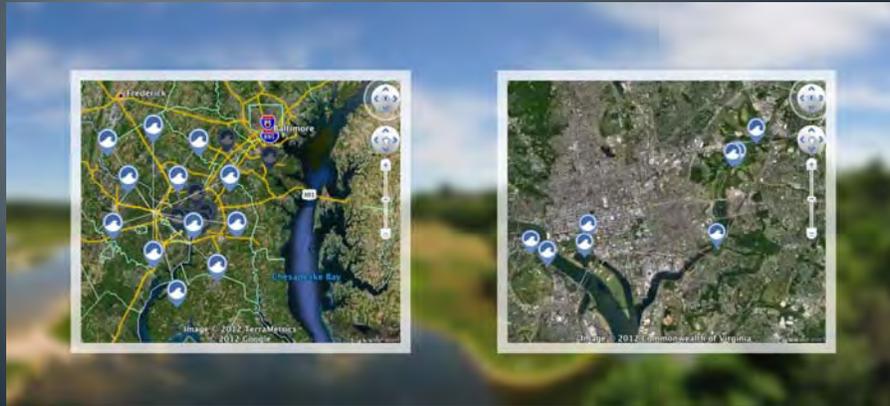


# The Riverview Project



*Jared R Criscuolo, Co-founder & Executive  
Director*

# History and Project Scope



## Partners

*Investors, In Kind*

*Promotional*



# Partners

*Federal Agencies*

*Non-Profits*



# The Riverview Project Mobile App



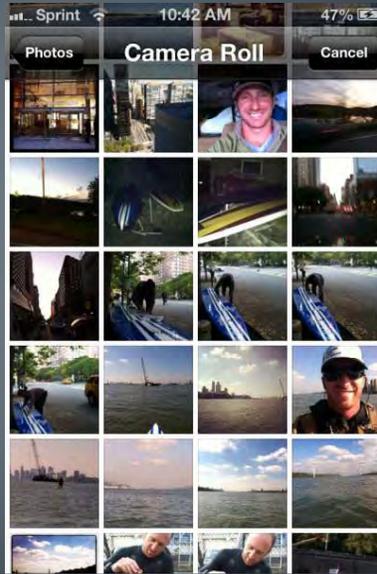
## Gathering Images of Rivers



## Choose Your Picture Source



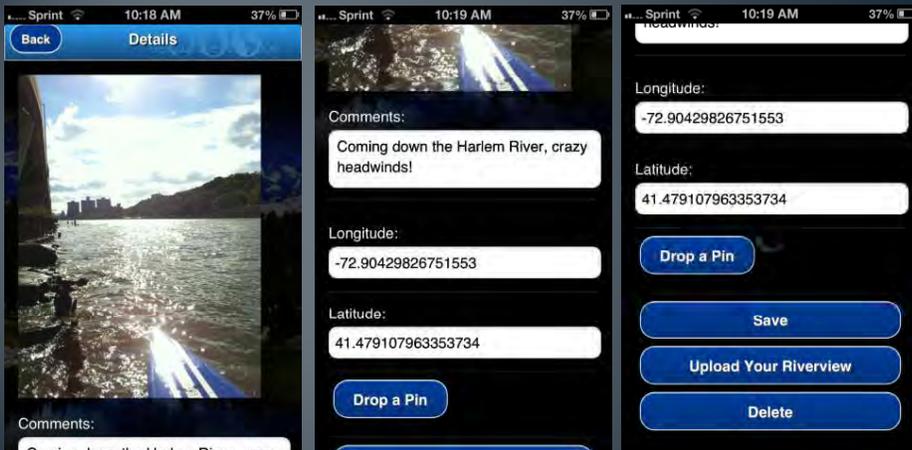
## Choose a Photo



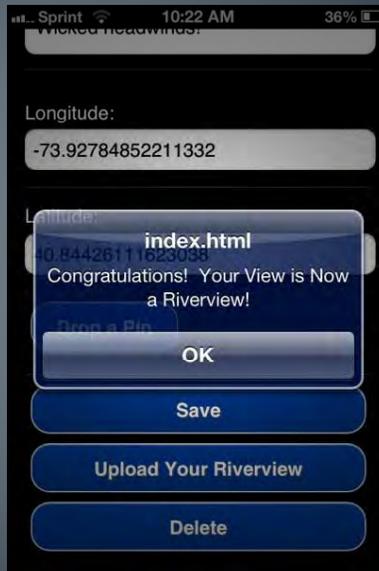
## Choose a Picture to Upload



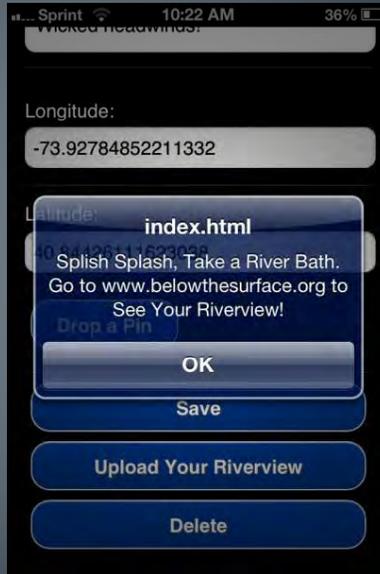
# Upload Location and Comments



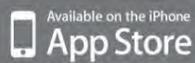
# Confirmation of Your "Riverview"



## Where to See your Map



## Download the App and Paddle!



*Jared@belowthesurface.org*

# Questions?

## Speaker Contact Information



**Douglas J. Norton**

[norton.douglas@epa.gov](mailto:norton.douglas@epa.gov)

Environmental Scientist, Watershed Branch, U.S. EPA's Office of Wetlands, Oceans and Watersheds



**Krystyn Tully**

[krystyn@waterkeeper.ca](mailto:krystyn@waterkeeper.ca)

Vice President, Lake Ontario Waterkeeper



**Jared Robinson Criscuolo**

[jared@belowthesurface.org](mailto:jared@belowthesurface.org)

Founder and Executive Director, Below the Surface

## Next Watershed Academy Webcast



Check back in January for the next Webcast

Information will be posted at  
**[www.epa.gov/watershedwebcasts](http://www.epa.gov/watershedwebcasts)**

## Participation Certificate

If you would like to obtain participation certificates type the link below into your web browser:

<http://water.epa.gov/learn/training/wacademy/upload/2012-11-28-certificate.pdf>

You can type each of the attendees names into the PDF and print the certificates.