

Novel Approaches to Decision- support & Stakeholder Engagement

Dave Jasinski, Vice President

Chesapeake Environmental Communications

Monitor Track
Berne Room
2:30-3:00pm

Novel approaches to decision support and stakeholder engagement



Dave Jasinski

Chesapeake Environmental Communications



Pat Calvert

James River Association



Dr. Robert Wood

NOAA, NCCOS

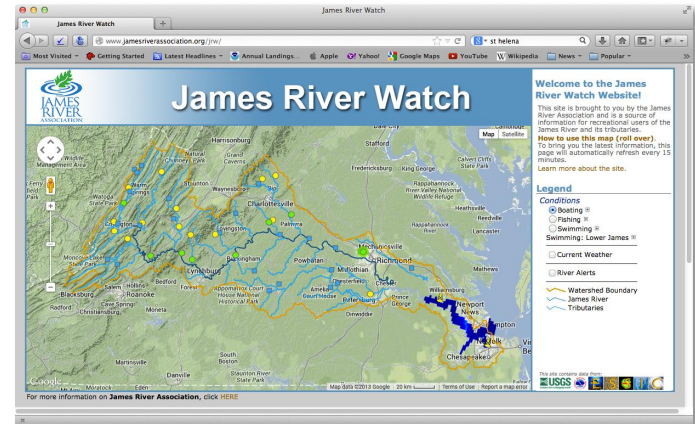


Paula Jasinski

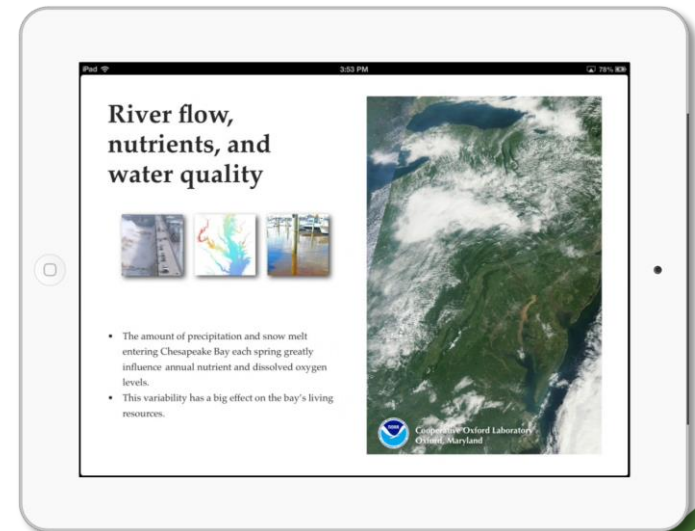
Chesapeake Environmental Communications

Tools for Decision Support and Engagement

The James River Watch –
*an interactive decision support
and public engagement tool
for the James River
Association.*



**Chesapeake Bay
Ecological Atlas** – *a custom
iBook for the iPad developed
for NOAA-NCCOS.*



The James River Watch

www.jamesriverassociation.org/jrw

- The James River Association wanted a web application that would be an information resource to recreational users of the James River.
- Phase 1 consisted of developing a map based data base driven site that automatically updated itself with the latest information on river conditions.
- In Phase 2, a password protected administration section was added that allows citizen monitoring data to be uploaded to the site for display on the map.



The James River Watch

www.jamesriverassociation.org/jrw

- We developed the site using Google Maps and a MySQL database. Both are opensource so there are no licenses to purchase and maintain.



- Data are pulled from the following sources every 15 minutes:

USGS – River height and flow for 46 stations

NWS – Air temperature data for 8 stations

NOAA – Wave height, wind speed and direction, and water temperature for 2 buoys.



The James River Watch

www.jamesriverassociation.org/jrw

- Through a password protected area, JRA monitoring volunteers can upload data, reports, site pictures, and bacteria plate pictures.
- Administrators are alerted with a text message when data are uploaded.
- Site administrators can approve uploaded data and make edits to the site.
- Since it's inception, the JRW has driven unprecedented traffic to the JRA website.





James River Watch

Welcome to the James River Watch Website!

This site is brought to you by the James River Association and is a source of information for recreational users of the James River and its tributaries.

How to use this map (roll over). To bring you the latest information, this page will automatically refresh every 15 minutes.

[Learn more about the site.](#)

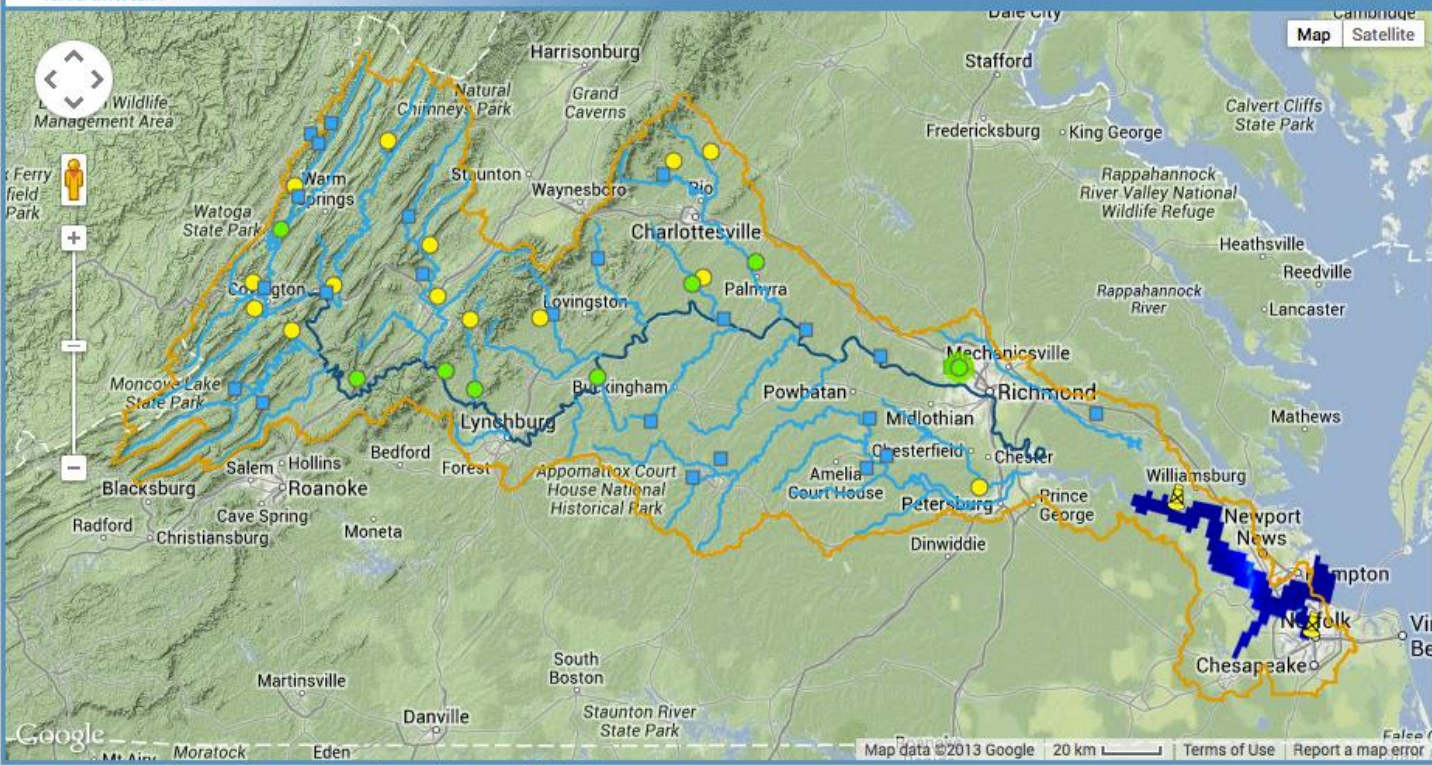
Legend

Conditions

- Boating
 - Fishing
 - Swimming
- Swimming: Lower James

- Current Weather
- River Alerts

- Watershed Boundary
- James River
- Tributaries



For more information on **James River Association**, click [HERE](#)





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Right Now River Height

Boating Conditions at: Piney River At Piney River, Va

October 28, 2013, 1:45 pm



Condition: **Low water levels, rain needed**

Status:

River Height: 2.22 ft

Air Temp: 65 °F

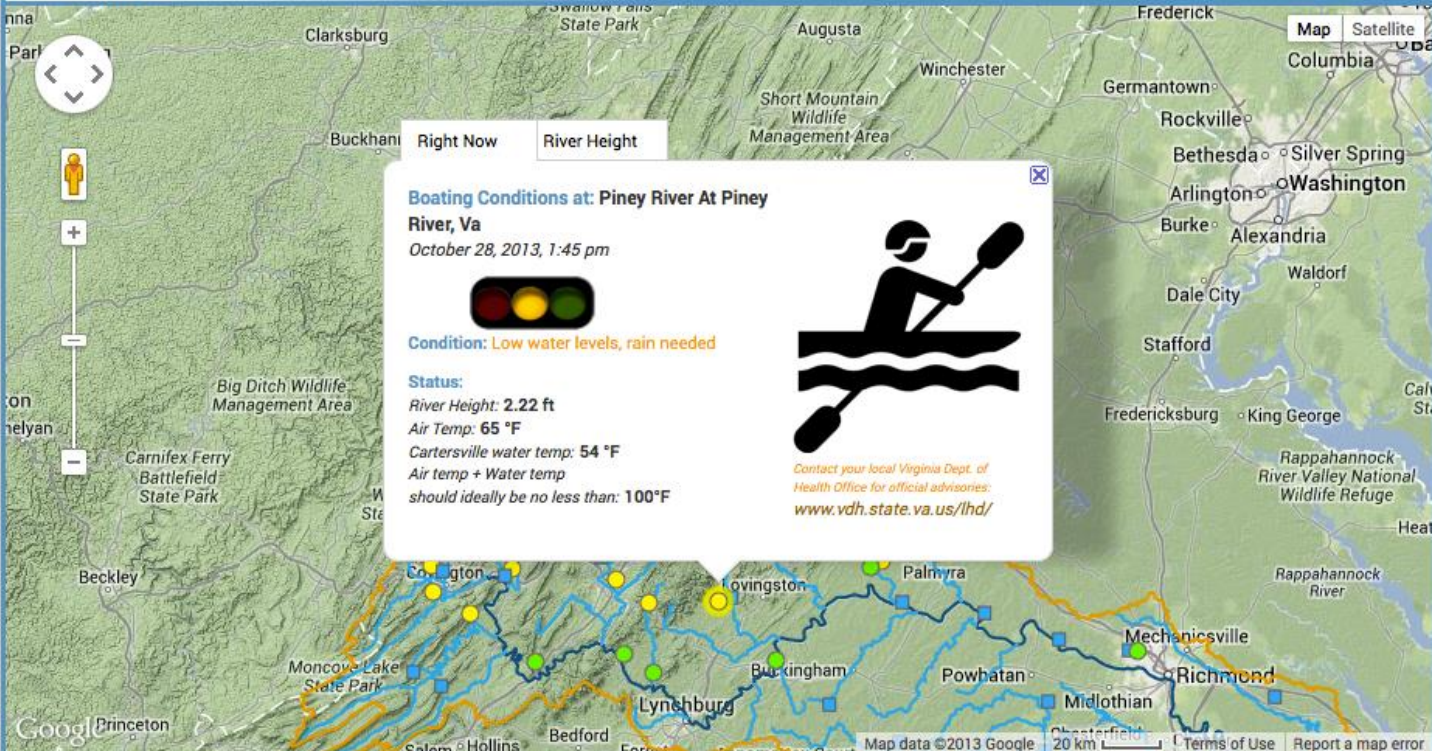
Cartersville water temp: 54 °F

Air temp + Water temp

should ideally be no less than: 100°F



Contact your local Virginia Dept. of Health Office for official advisories: www.vdh.state.va.us/llhd/



This site contains data from:



For more information on James River Association, click [HERE](#)





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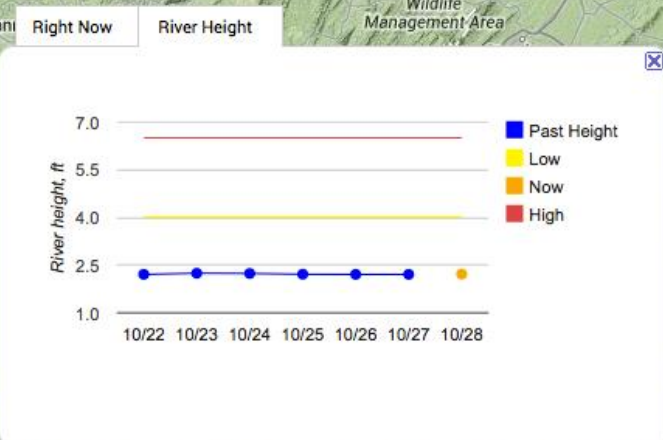
Conditions

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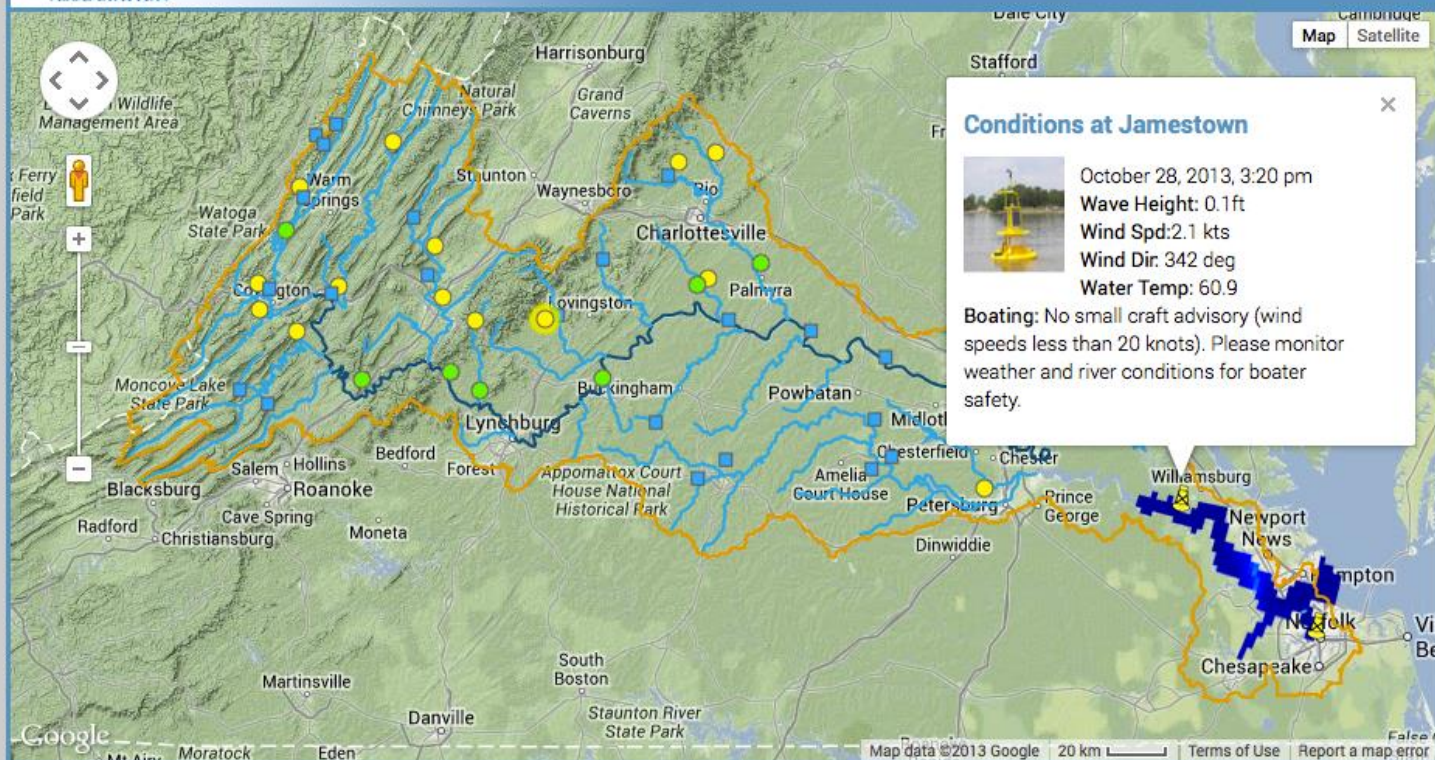


For more information on **James River Association**, click [HERE](#)





James River Watch



Conditions at Jamestown



October 28, 2013, 3:20 pm
 Wave Height: 0.1ft
 Wind Spd: 2.1 kts
 Wind Dir: 342 deg
 Water Temp: 60.9

Boating: No small craft advisory (wind speeds less than 20 knots). Please monitor weather and river conditions for boater safety.

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Legend

Conditions

- Boating
 - Upper & Middle James
 - High Caution | ● Caution | ● Fair | ■ NA
 - Lower James
 - No | ■ OK
 - Fishing
 - Swimming
- Swimming: Lower James

Current Weather

River Alerts

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Legend

Conditions

- Boating
 - Fishing
 - Swimming
- High Caution | Caution | Fair
 Swimming: Lower James

Current Weather

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This site contains data from:



Right Now Report Water Temp Bacteria

Swimming Conditions at: Pocahontas boat landing (Petersburg)(A02)
August 29, 2013, 10:00 am

Condition: High bacteria levels detected here on August 29, 2013, 10:00 am. Swimming highly cautioned.

Status:
 River Level*: 2.05 ft.
 Water Temperature: 77 °F
 Air Temp: 77 °F
 Air temp + Water temp should ideally be no less than: 100°F
 Turbidity: 1.83 NTU
 Bacteria: 300
 * Appomattox River At Matoaca, Va

- Please verify swimming regulations in this area.
 - Official advisories: www.vdh.state.va.us/lhd/
 - Swimming is not permitted at VA Dept of Game & Inland fisheries boat landings

Map data ©2013 Google 20 km Terms of Use Report a map error

For more information on James River Association, click [HERE](#)





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 - High Caution | ● Caution | ● Fair
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This site contains data from:



Condition Report for Pocahontas boat landing (Petersburg)(A02)

August 29, 2013, 10:00 am

The weather the past 48 hrs. has been warm with afternoon thunderstorms. Today it is cloudy with no wind. Compared to last week, there are very few butterflies, dragonflies and water striders. A few damselflies were noted. There were 2 large flocks of birds. 1 of Canada geese and one of a smaller black bird. The water itself has very little current today. It is very still. The water level is lower that the past few weeks.

Pocahontas boat landing (Petersburg)(A02)

For more information on **James River Association**, click [HERE](#)





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- Swimming
 - High Caution | ● Caution | ● Fair

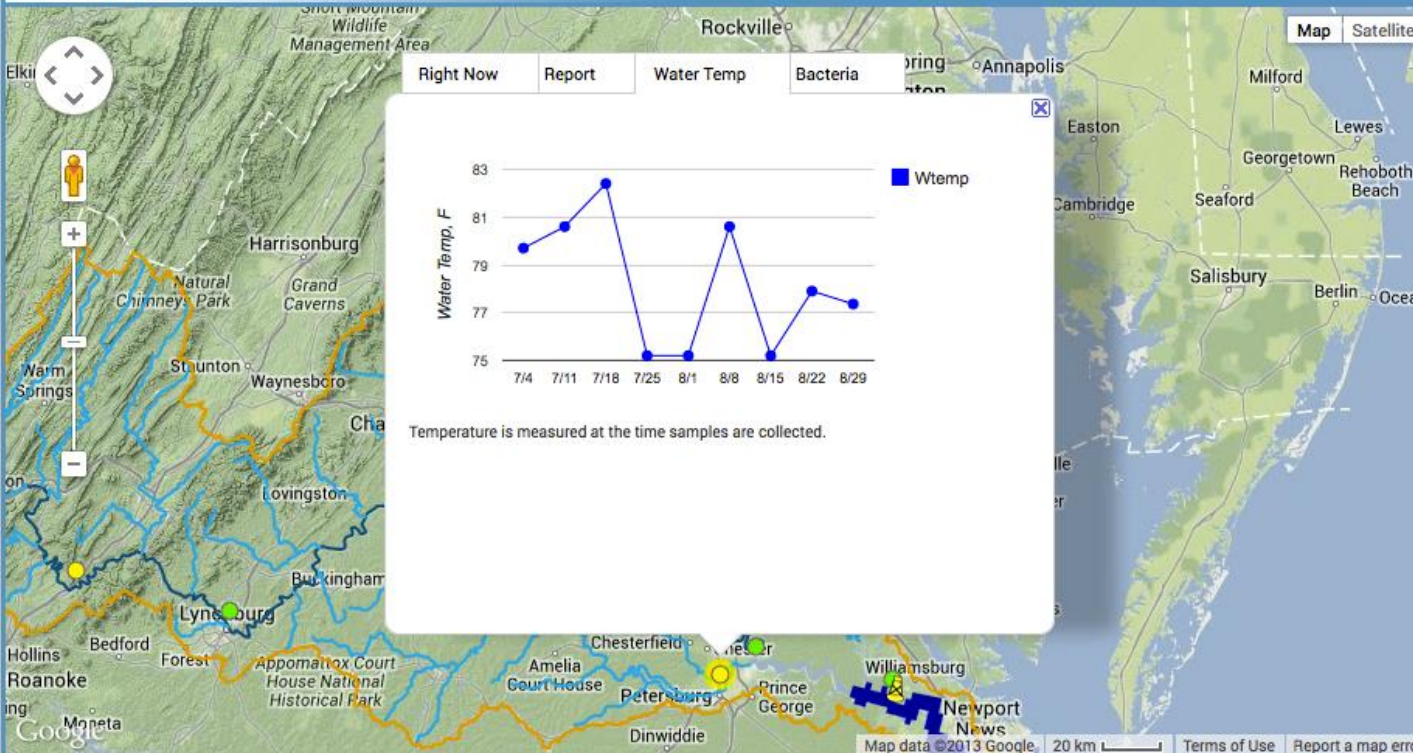
Swimming: Lower James

Current Weather

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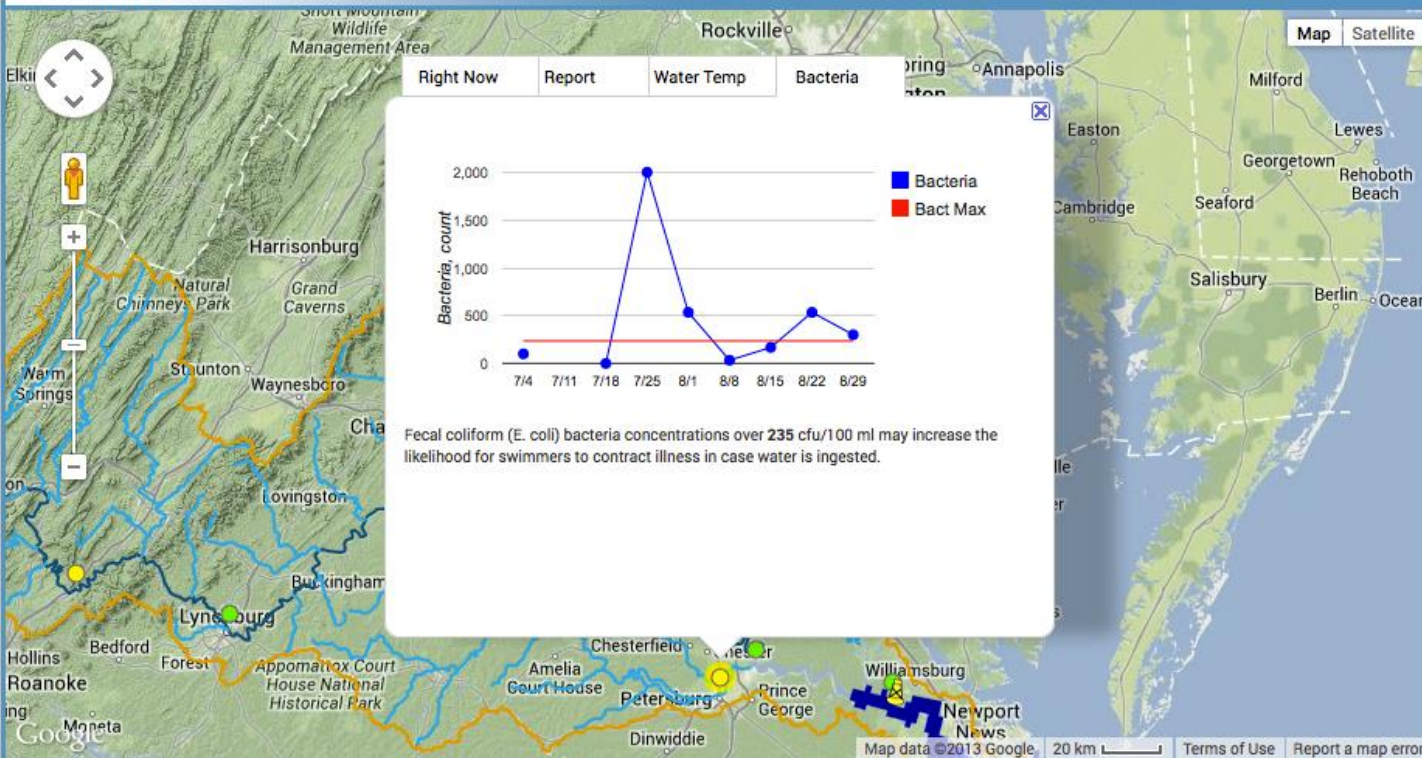
Conditions

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- Fishing
- Swimming
- High Caution | Caution | Fair
- Swimming: Lower James

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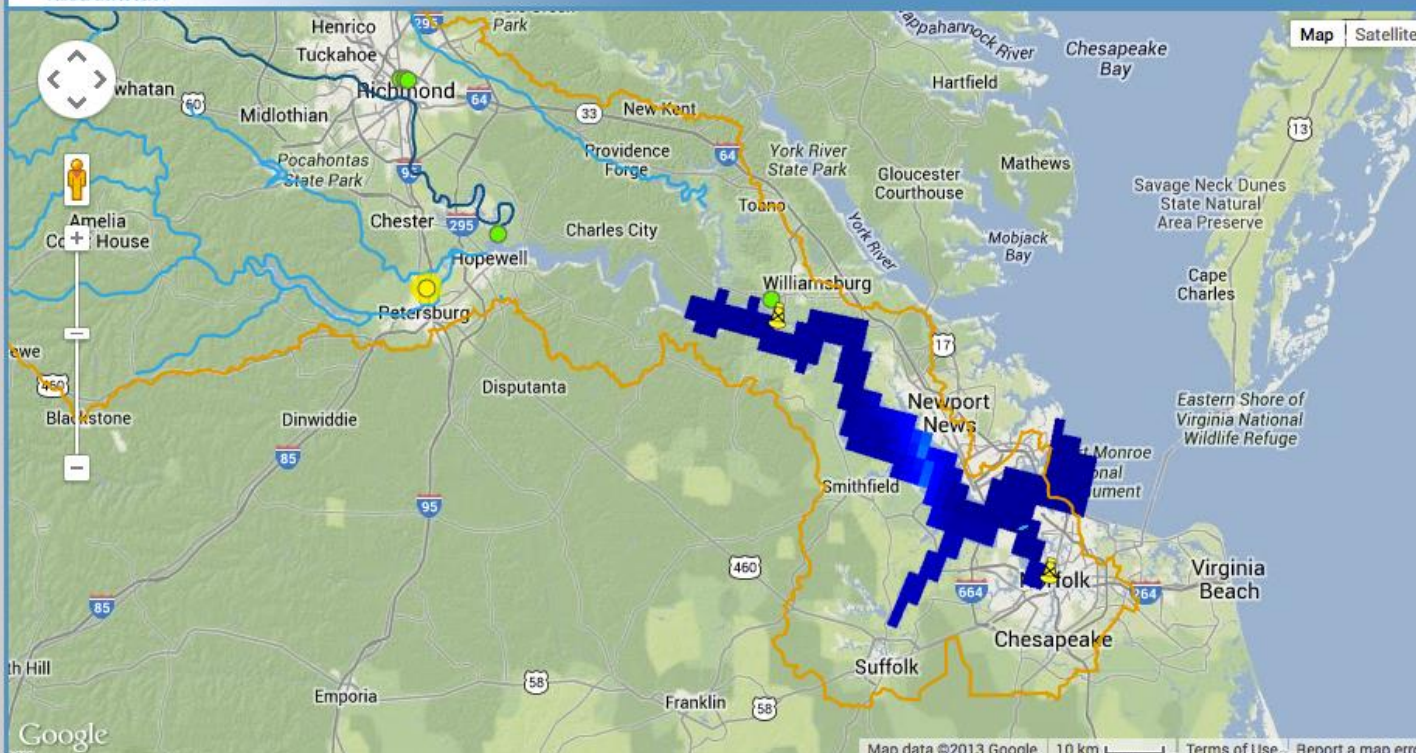
- Boating
- Fishing
- Swimming
 - High Caution | ● Caution | ● Fair
- Sea Nettle
 - 10/28/2013
 -
 - 0% Unlikely Possible 100% Likely
- Harmful Algae
 - 10/29/2013
 - 10/30/2013

Current Weather

River Alerts

- Watershed Boundary
- James River
- Tributaries

This site contains data from:



Map data ©2013 Google 10 km Terms of Use Report a map error

For more information on **James River Association**, click [HERE](#)





James River Watch

Welcome to the James River Watch administrative site!

Please log-in

This is a password protected area used only by JRA staff and invited guests. If you are a staff member or guest, please sign in using the username and password provided to you.

Login

Email address:

Password:

[Forgot password?](#)



James River Association
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9 South 12th Street, 4th Floor
Richmond, VA 23219





James River Watch

Welcome back, Dave Jasinski

What would you like to do today?

- Upload data
- View RiverRat Station data
- Download Data
- Download Images
- River Monitor Manual
- Data Log Sheet
- Split Sample Schedule

Admin Options

Manage People

- [Add::Edit MyJRW Members](#)
- [Email all members](#) or [click here to get a mail list.](#)

Manage JRW

- Approve Data Uploads
- **Alerts::** [Issue alert](#) | [Cancel alerts](#)
- **Add::**[Edit a Station](#)
- [Add VDH email](#) | [Remove VDH email\(s\)](#) | [NOTIFY VDH](#)
- **Update RiverRat Monitoring Status::** [RiverRat Monitoring is currently INACTIVE](#)

Your Profile

Name: Dave Jasinski

Title: contractor

email: dave@chesapeakeedata.com



MyJRW Options

- [MyJRW Home](#)
- [Edit Profile/Change Password](#)
- [Upload/Change Picture](#)
- [Logout](#)



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Richmond, VA 23219



JRW Data Upload

Dave, on this page you can upload the data for the Jamestown Beach (J05) station. If you have no data to enter for a parameter, please enter a -9 for that parameter. Water and Air temperatures should be in Celcius.

Date and Time Sample Taken

Click on Calendar. Please enter date AND time of sample collection. 24hr time please

Air Temperature (degrees C)

One decimal place please (0.0).

Water Temperature (degrees C)

One decimal place please (0.0).

Turbidity (NTU)

Two decimal places please (0.00).

Date and Time sample placed in Incubator

Click on Calendar. Please enter date AND time of sample incubation. 24hr time please

Plate Analysis Date/Time

Click on Calendar. Please enter date AND time of plate analysis. 24hr time please

Bacteria concentration (cfu/100ml; round UP to the nearest whole number (no decimal))

(whole number)

Agar Plate Image

no file selected

Upload agar plate picture

Fish Report Image

no file selected

Upload fish picture

Site Condition Image

Your Profile

Name: Dave Jasinski

Title: contractor

email: dave@chesapeakedata.com



MyJRW Options

- [MyJRW Home](#)
- [Edit Profile/Change Password](#)
- [Upload/Change Picture](#)
- [Logout](#)

Add an Alert

Dave, click on the segment or stream on the map where you would like to add an alert. Then type in a description of the alert. When you are ready to make a change, click the submit button.



Segment Advisory

Target Segment:

Target Segment ID:

Alert Type

- Negative
 Positive

Alert Description:

Stream Warning

Target Stream:

Target Stream ID:

Alert Type

- Negative
 Positive

Alert Description:

Name: Dave Jasinski
Title: contractor
email: dave@chesapeake.com



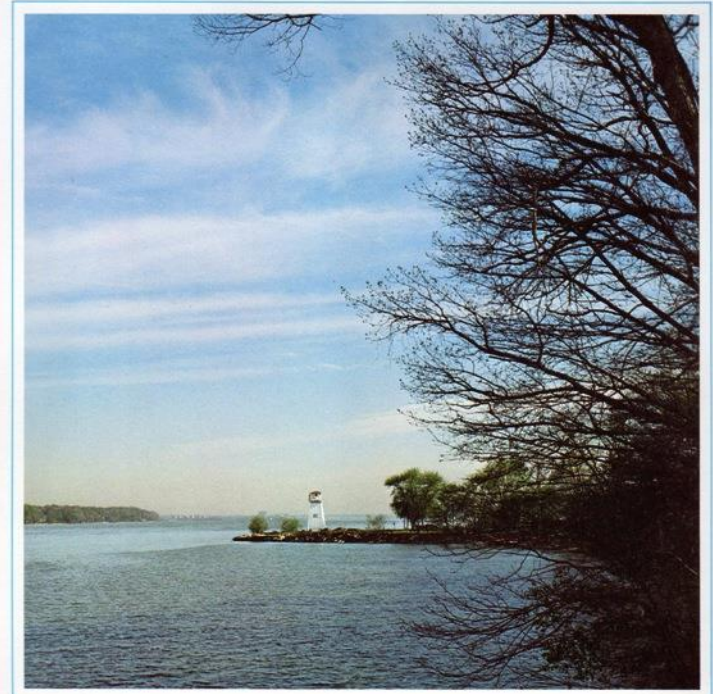
MyJRW Options

- MyJRW Home
- Edit Profile/Change Password
- Upload/Change Picture
- Logout

Chesapeake Bay Ecological Atlas

<http://www.chesapeakedata.com/Atlas/>

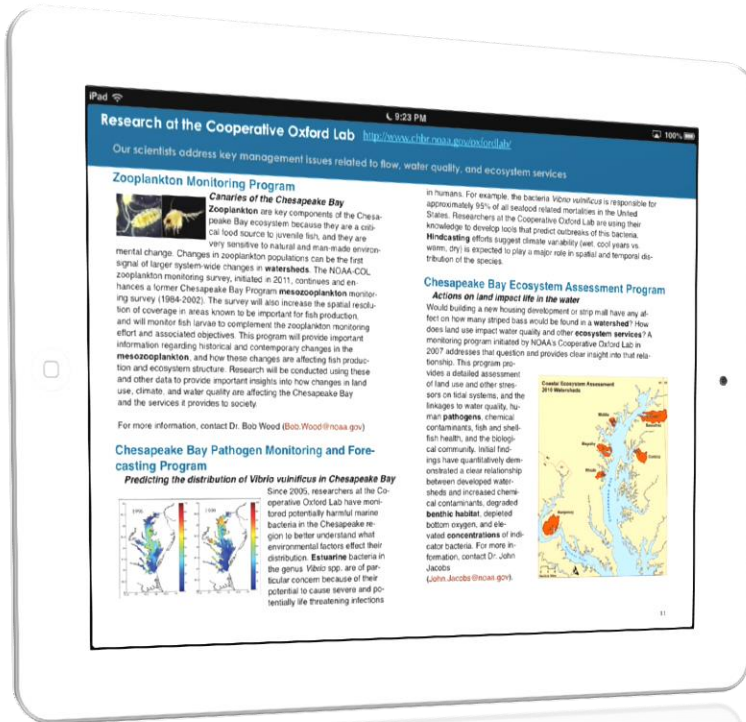
- Developed with the NOAA Cooperative Oxford Lab in Oxford, MD.
- A reference guide to the ecology of Chesapeake Bay
- Target audience is Middle School through environmental managers
- In a similar format to the "*Environmental Atlas of the Potomac Estuary*"



Environmental Atlas
of the
Potomac Estuary

Is it a NOAA marketing tool or an educational tool?

- Yes and Yes



Reaction to date

- Have previewed with several science teachers
- All immediately grasp the utility of such a resource
- NOAA “seal” carries weight
- Easily updated vs textbooks
- Excited at the possibility of just being able to teach from the iPad
- Like the idea of a web resource to get access to all content

