



## LEARNING OBJECTIVES



- Discuss environmental occurrences that can impact parks and recreation activities.
- Learn what parks and recreation agencies did in 2018 in response to red tide, blue/green algae, king tides and high bacteria levels.
- Identify techniques to protect staff who are on the front lines of recovery and restoration efforts.

### Your Panelists

Jennifer Cirillo, Assistant Director of Palm Beach County Parks and Recreation jcirillo@pbcgov.org

Mark Lynch, Deputy Director of Martin County Parks and Recreation mlynch@martin.fl.us

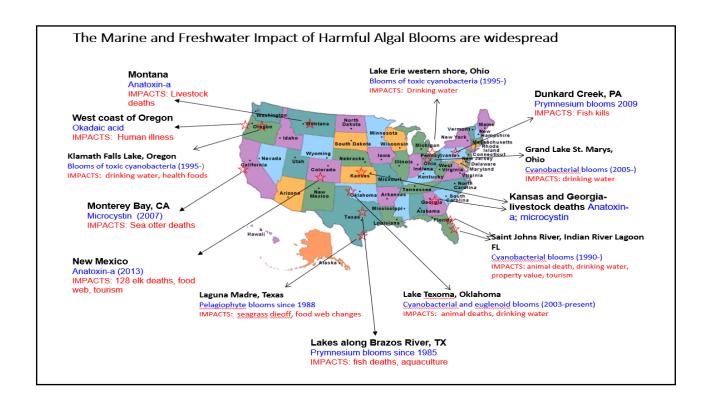


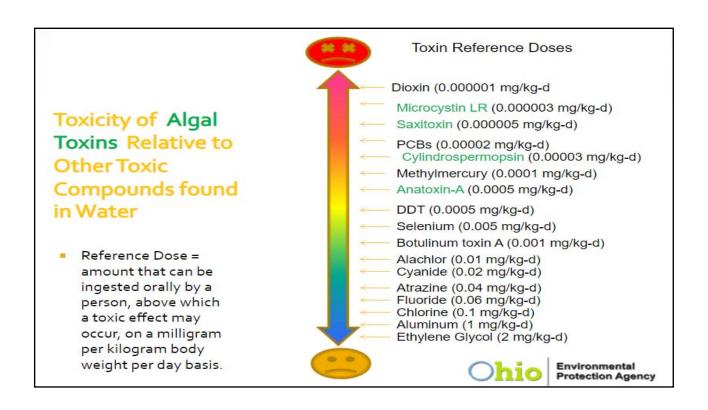
John Maehl, Ecosystem Restoration and Management Manager, Martin County Public Works <u>jmahel@martin.fl.us</u>

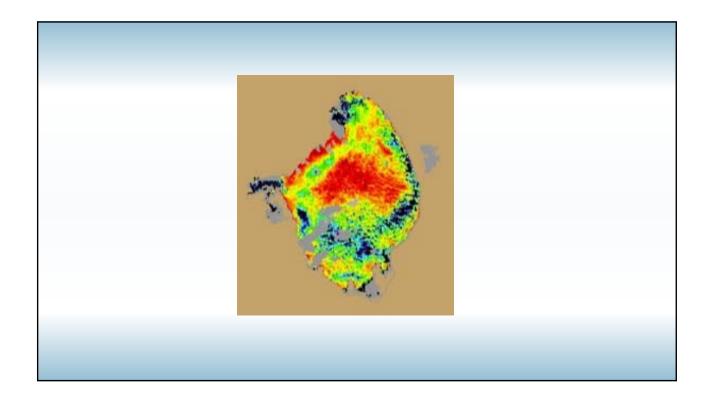
Nicole Rissler, Director of Sarasota County Parks, Recreation & Natural Resources <u>nrissler@scgov.net</u>

# Our Experiences



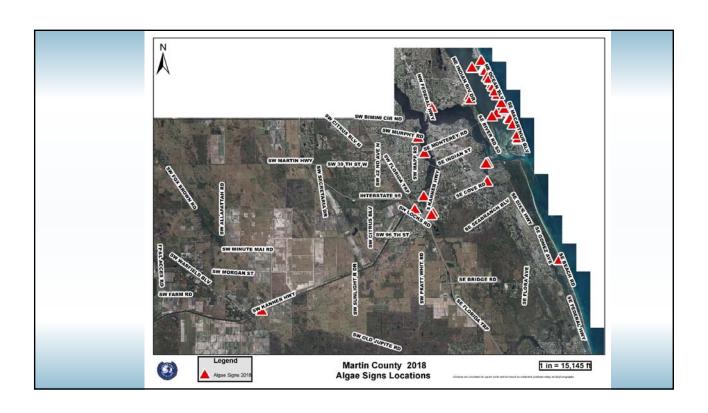


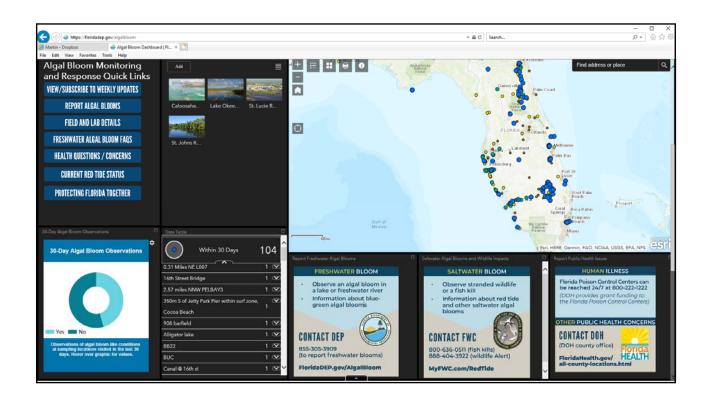
































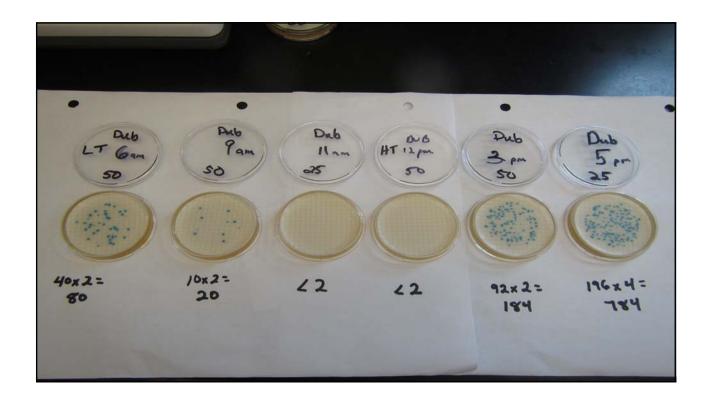






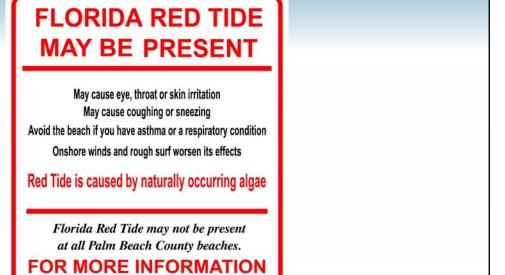












WWW.myfwc.com/redtidestatus



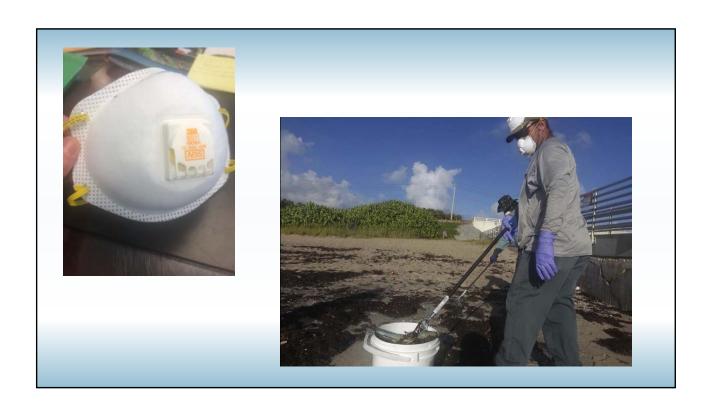


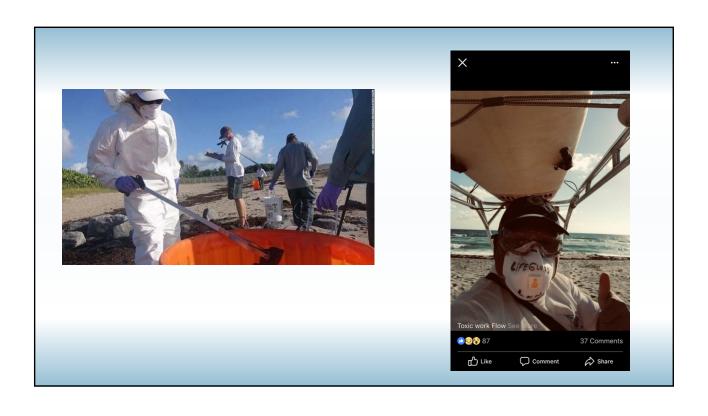


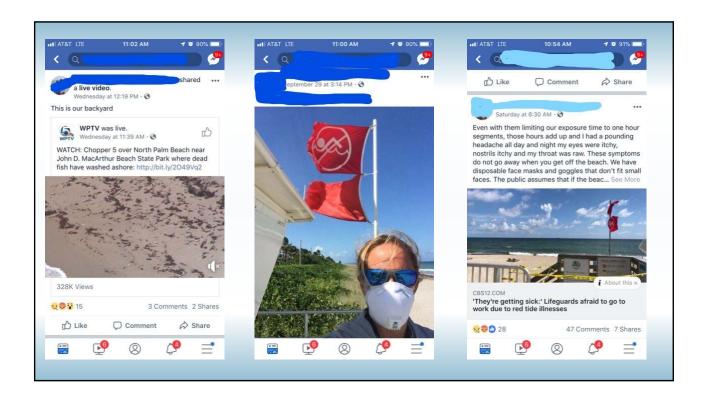
# Timing and Staffing

Milestone	Staff	Communication / Actionable Items	Emergency Management (EM) Heightened awareness / monitoring	
/isible algae	Ecosystems & Restoration staff participates in weekly calls with ACOE, SFWMD and other partner agencies.  Conversations with DEP and ACOE  Algae Response Team (BOCC, Stuart, Sewall's Point, Jupiter Island, FDOH and other members if necessary) meets regularly  Regular conversations and coordination with JIC	Facilitate community awareness meetings, if needed     Coordinate with partners on messaging     Determine call to action for residents     Coordinate with partners to create and post appropriate signage (with plan in place for tracking and removal)     Advocate for DEP testing     Track status with photo and video evidence     Continue writing and distributing press releases, as needed     Continue weekly water quality report and distribute to executive team, Board, EM and partners     Update water quality web page weekly, or as necessary     Provide updates to BOCC as needed     Continue to advocate for pulse discharges     Continue to advocate for pulse discharges     Continue output on the continue of the continue discharges to the continue discharges and other appropriate communications tools		
/isible algae, tests indicate <u>nicrocystins</u> present toxicity within acceptable imit)	Ecosystems & Restoration staff participates in weekly calls with ACOE, SFWMD and other partner agencies Conversations with DEP and ACOE continue Algae Response Team (BOCC, Stuart, Sewall's Point, Jupiter Island, FDOH and other members if necessary) continues to meet to review strategies, develop additional message points and consider next steps based on additional action required  Regular conversations and coordination with JIC	Post additional signage, if needed     Contract for additional testing, if necessary     Continue weekly water quality report and distribute to executive team, Board, EM and partners     Update water quality web page as necessary     Provide updates to BOCC as needed     Continue to advocate for pulse discharges     Continue visual and aerial observations     Continue tracking status with photo and video evidence     Continue writing and distributing press releases, as needed     Continue monitoring social media impressions     Continue education campaign though website, social media, AlgridMartin, notifications and other appropriate communications tools	Heightened awareness / monitoring     Discuss impacts of declaring a Local State of Emergency (LSE)	







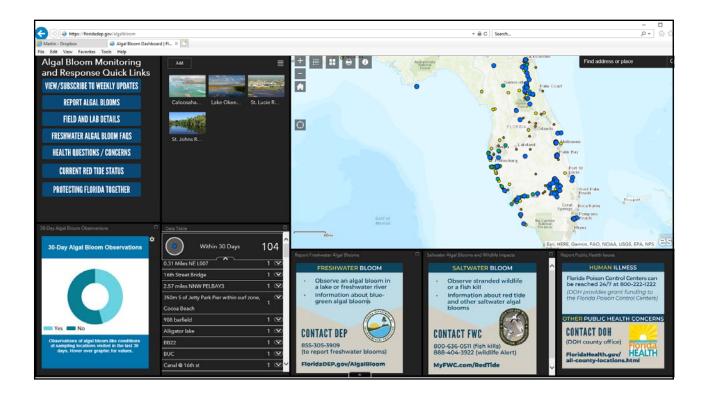


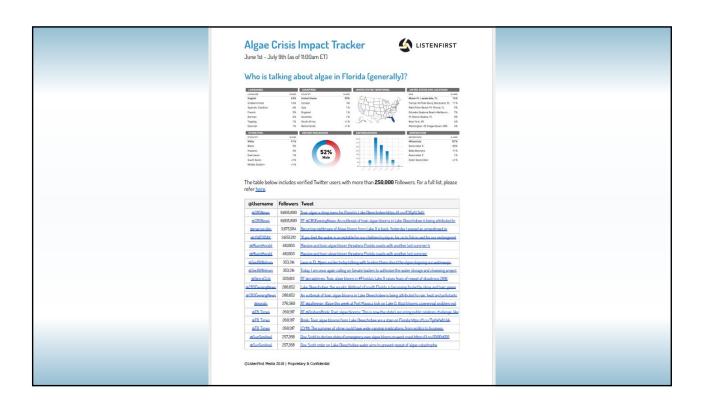






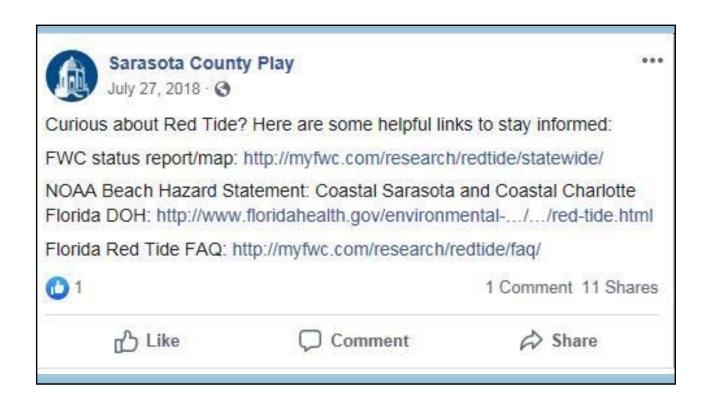








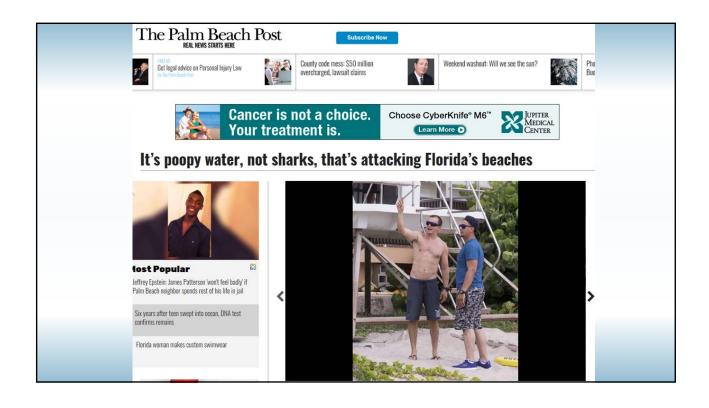












#### Press Release

Dato: 7/25/2019

#### Palm Beach County Saltwater Beach Monitoring Results

The Florida Department of Health Palm Beach County has been conducting saltware beach water quality sampling since August 5, 2002 as part of the Florida Healthy Reaches Monitoring Program. We are presently sampling thricen (13) basebes on a bi-weekly basis. The water samples are being examined for entercoose bacteria that normally inhabit the intestinal tract of humans and animals, and which may cause human disease, infections or raches. The presence of enteric bacteria is an indication of feed pollution, which may come from storm water runoff, pets and willilify, and human sewage. The purpose of the Healthy Beaches Monitoring Program is to determine Florida's beach water quality.

Date of Sample: 7/24/2019 7/22/2019

Site	Name	City	Enterococci	Water Quality	Status
1	Dubois Park	Jupiter	10	Unid	Satisfactory
2	Jupiter Beach Park	Jupiter	<10	Good	Satisfactory
3	Carlin Park	Jupiter	<10	Clood	Satisfactory
4	Riviera Beach	Riviera Beh	<10	Good	Satisfactory
.5	Phil Foster	Riviera Beh	<10	Cloud	Satisfactory
7	Palm Beach Municipal	Palm Beach	<10	Good	Satisfactory
8	Lake Worth- Kreusler	Lake Worth	<10	Good	Satisfactory
9	Ocean Inlet Park	Ocean Ridge	<10	Good	Satisfactory
10	Boynton Beach	Ocean Ridge	40	Mederate	Satisfactory
12	Sandoway-Delray Beh	Delray Reh	<10	Good	Satisfactory
13	Spanish River	Beca Raten	<10	Good	Satisfactory
14	South Inlet Park	Boca Raton	<10	Good	Satisfactory
15	Lantana Beach	Lantana	10	Good	Satisfactory

#### Water quality classifications are based upon:

nited Nation Environmental Protection Agency's (EPA's) recommended criteria for enforcesced in:

Cond = 0.55 Teteroscece per 100 millitates of marine water

Moleculars = 8.50 Enforcesced per 100 millitates of marine water

Pacer = 11 or greater Potencocceper 100 millitates of marine water

Facer = 11 or greater Potencocceper 100 millitates of marine water or 3.6 or greater enterocceci per 100ml of marine water as a geometric mean over a few meth priced.

An Advisory is issued for a beach that samples in the "Poor" range of the EPA standards. This should be considered a potential health risk to the building public.

If you should have any questions, please counter the Florida Department of Health in Palm Beach County at 1501307-5986, or visit the Department of Health's Internet Beach Water Quality website (www.dob.state.fl.m., click on the drop down arrow next to "Chouse Sobject" and then select "Brach Water



- The organism produces a toxin that can affect the central nervous systems of fish, birds, mammals, and other animals.
- At high concentrations (called blooms), the organism may discolor the water sometimes red, light or dark green, or brown.
- Red tides or harmful algal blooms (HABs) occur worldwide. K. brevis is found almost exclusively in the Gulf of Mexico but has been found on the east coast of Florida and off the coast of North Carolina.
- Red tide blooms can last days, weeks, or months and can also change daily due to wind conditions and water currents. Orshore winds normally bring it near the shore and offshore winds drive it out to sea.
- Red tide was first officially recorded in Florida in 1844.
- in 1844.

  7. A red tide bloom needs biology (the organisms), chemistry /natural or man-made nutrients for growth, and physics (concentrating and transport mechanisms). No single factor causes it. Tests are being conducted to see if coastal nutrients enhance or prolong blooms.
- Red tide can irritate the skin and breathing of some people. (See more about health effects on reverse.)
- Seafood from restaurants and hotels is monitored and is safe to eat. (See reverse.)

If you have a question or a health problem related to red tide, please call the Florida Poison Control Information Center at: 1-800-222-1222

www.myfwc.com/redticle
Red Tide Facts: www.start1.org
Current Beach Conditions:
www.thepalmbeaches.com/beach-conditions

## RED TIDE

- I Most people can sown in red tide, but it can cause aim intestion and burning syst. If your skin is easily intested, and did tide water. If you expense intestion, get out and thoroughly wash off with fresh water. Swimming near dead fish in one-commended.

  2. Symptoms from breathing red tide toxins usually include coughing, exeering, and transy year. For most people, symptoms are temporary when red tide toxins are in the art Neurop garded filter mask of the country o

#### SEAFOOD SAFETY TIPS:

- tide-free water and is monitored by the government.

  Reversional fishermen must be careful:

  Do not eat mollusia (clems or opster) taken from red tide waters, as they contain noise that cause a food poisoning called NSP Neurotoxic Shellfuh Poisoning).

  Finish caught five and healty can be exten filletted.

  Edible parts of other arimals commonly called shellfah forats, shrimp, and lobaters) are not affected by well did and can be exten. De not est the tamals (green stuff / hepatopancress).

  Use common sense-harvesting distressed or dead a inimals is not advised under any circumstances.









28

