# Vessel Sewage Management Strategies



Webcast sponsored by EPA's Watershed Academy in partnership with the Coastal States Organization (CSO)





#### Monday, November 2, 2020, 2:30pm – 4:30pm Eastern

#### **Speakers:**

- Kelsey Watts-FitzGerald, Biologist, Vessels, Marinas, and Ports, Office of Wetlands, Oceans and Watersheds, EPA
- Kate Hughes Brown, BIG/CVA Program Coordinator, Connecticut Department of Energy and Environmental Protection, Boating Division
- · Jenny East, Outreach Coordinator, Oregon State University, Oregon Sea Grant

## Watershed Academy Webcast

#### www.epa/gov/watershedacademy

- The slides for today's presentations are posted.
- A recording will be posted within the next month.

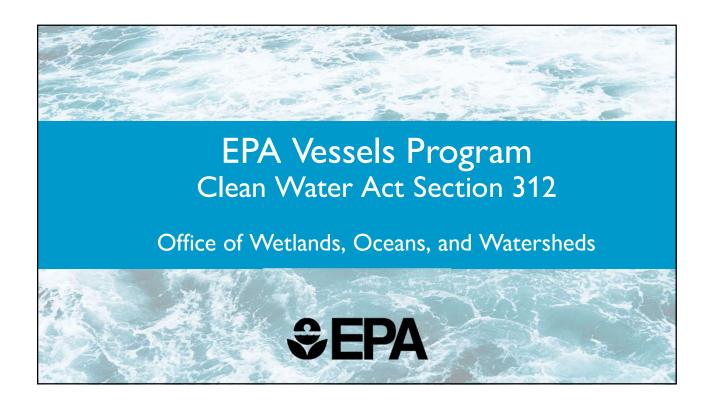
## Webcast Logistics

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# **Audience Polling**

#### Speakers

- Kelsey Watts-FitzGerald, Vessels, Marinas, and Ports, Office of Wetlands, Oceans, and Watersheds, EPA
- Kate Hughes Brown, BIG/CVA Program Coordinator, Connecticut Department of Energy and Environmental Protection, Boating Division
- Jenny East, Oregon State University, Outreach Coordinator, Oregon Sea Grant

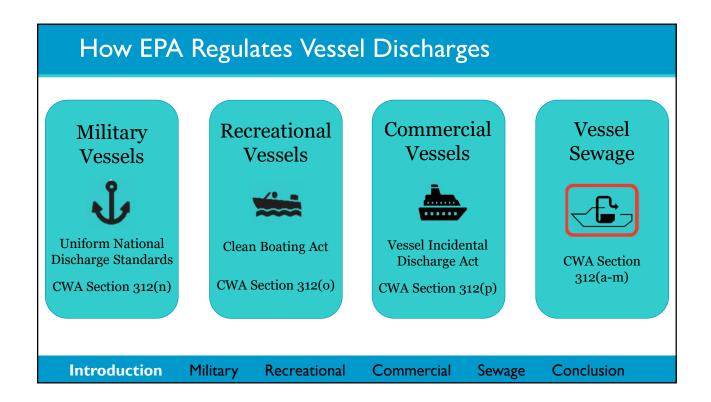


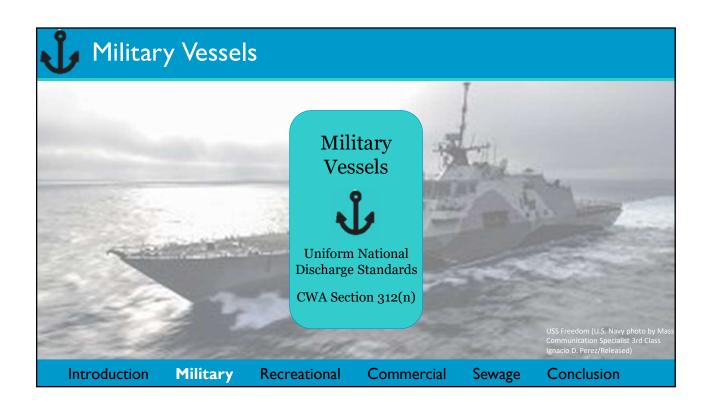
#### Vessels and the Environment



Discharges from vessels have the potential to negatively impact water quality through the release of nutrients, metals, aquatic nuisance species, and bacteria, among other pollutants.

The **Clean Water Act** provides the statutory framework under which EPA protects human health and aquatic ecosystems.





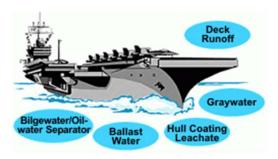




#### Military Vessels

EPA and the Department of Defense (DoD) have identified 25 incidental discharges from vessels of the Armed Forces that require control and are establishing standards through a series of rulemakings.

The performance standards being developed will reduce environmental impacts, stimulate the development of improved pollution control devices, and provide national consistency.



Introduction

**Military** 

Recreational

Commercial

Sewage

Conclusion



### Military Vessels

Of the 25 regulated discharges, 11 standards are already in effect, with 11 more expected to enter into force in the summer of 2021.

The three remaining discharges are clean ballast, compensated fuel ballast, and dirty ballast.



USS Henry M. Jackson (U.S. Navy photo by Mass Communication Specialist 2nd Class Amanda R. Gray/Released)

Introduction

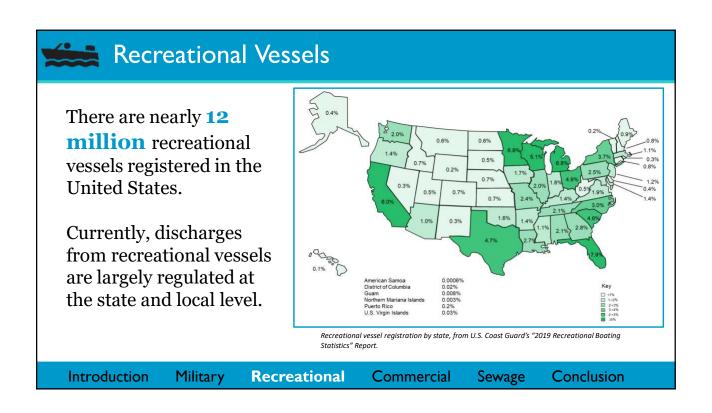
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#### Recreational Vessels

The Clean Boating Act (2008) directs EPA to develop nationally-applicable management practices for discharges from recreational vessels.

Once established, state and local governments will be able to maintain or establish requirements that are more stringent, and vessel owners will need to comply with the most stringent requirement.







#### Commercial Vessels

EPA regulates a domestic and international commercial vessel population of approximately **82,000 vessels**.

Historically, many of these vessels were permitted to discharge under EPA's Vessel General Permit (VGP) established under Clean Water Act section 402.



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#### Commercial Vessels

The Vessel Incidental Discharge Act (VIDA), signed in December 2018, restructures how EPA and the U.S. Coast Guard (USCG) regulate incidental discharges, primarily from commercial vessels, into waters of the U.S. and the contiguous zone.

EPA is developing new national standards of performance for commercial vessel discharges, after which the USCG will develop corresponding implementing regulations.



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#### Commercial Vessels

Once the VIDA regulations are final, the new requirements will replace the current 2013 Vessel General Permit requirements<sup>1</sup> and the USCG ballast water requirements.<sup>2</sup>



- <sup>1</sup> Clean Water Act section 402
- <sup>2</sup> Nonindigenous Aquatic Nuisance Prevention and Control Act

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#### Commercial Vessels

#### **ENGAGEMENT OPPORTUNITY**

EPA is currently soliciting public comment on the Agency's proposed national standards of performance for VIDA.

For more information, visit EPA's website at <a href="https://www.epa.gov/vessels-marinas-and-ports">https://www.epa.gov/vessels-marinas-and-ports</a>, then click on "Commercial Vessels."







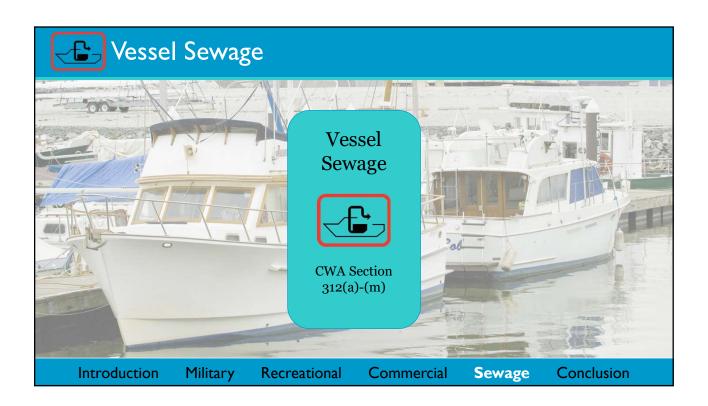
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Sewage introduces pathogens, nutrients, and other pollutants.

#### **Impairs Water Quality**

Sewage increases nutrient levels, decreases water clarity and oxygen levels, and alters pH.

This can impact the health and survival of many species.

#### **Spreads Disease**

Sewage introduces viruses and bacteria to waterbodies. Swimmers exposed to contaminated water can become ill.

People can also become sick from eating shellfish contaminated by sewage.



### Environmental Impacts of Vessel Sewage

Increased nutrients can lead to proliferation of macroalgae and epiphytes, which can shade out seagrass meadows (Duarte, 1995).





Connection between coral disease and sewage contamination on reefs (Sutherland et al., 2010).

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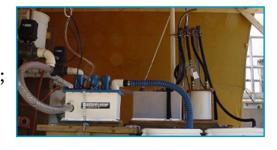
### Clean Water Act Section 312

Untreated sewage discharges from vessels are prohibited in U.S. navigable waters.

All vessels with installed toilets must operate a USCG-certified marine

sanitation device (MSD), a device that treats or stores sewage.

EPA sets treatment standards for MSDs; USCG approves and certifies MSDs.



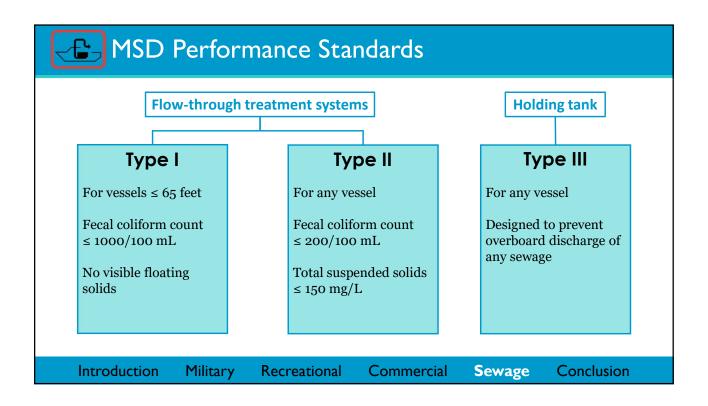
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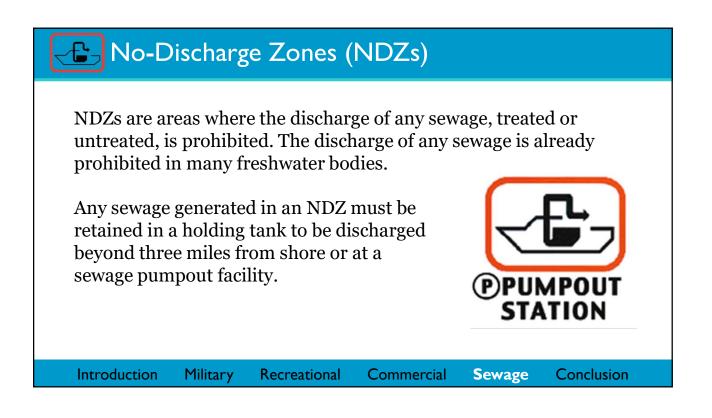
**Military** 

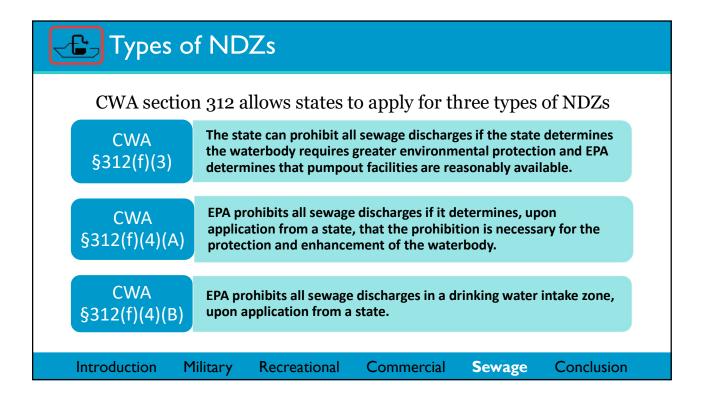
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**Sewage** 



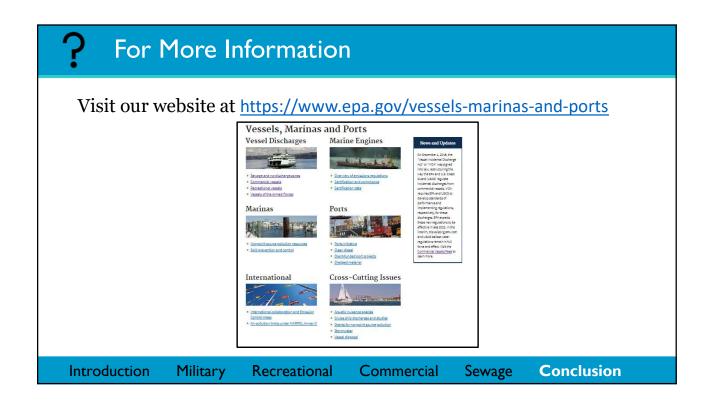






The **Clean Vessel Act** grant program provides funds for the construction, renovation, operation, and maintenance of pumpout and waste reception facilities for recreational boaters, as well as for educational programs related to proper disposal of sewage.

- Administered by the U.S. Fish and Wildlife Service
- Nationally-competitive process
- States, the District of Columbia and the U.S. Insular Areas designated agencies may apply for grants
- Funds are provided annually from the Sport Fish Restoration and Boating Trust Fund
- In FY20, over \$19 million was allocated from the program





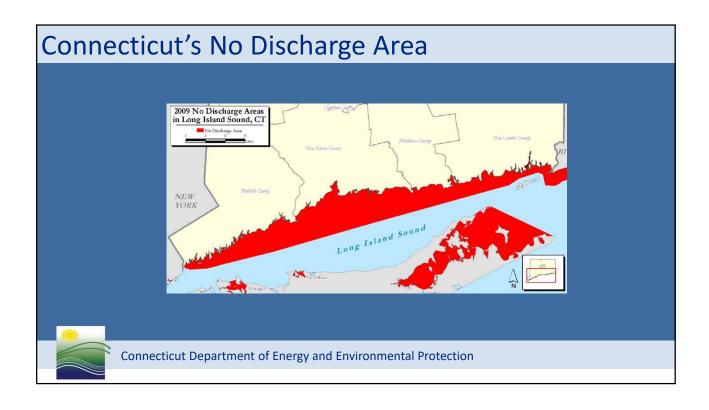


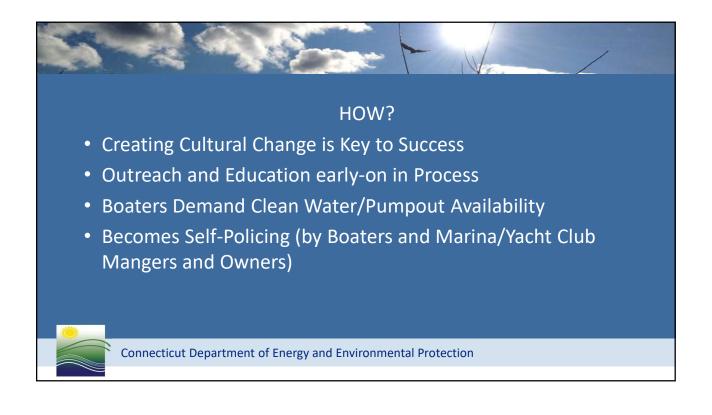
# Connecticut Clean Vessel Act Program and Long Island Sound No Discharge Area

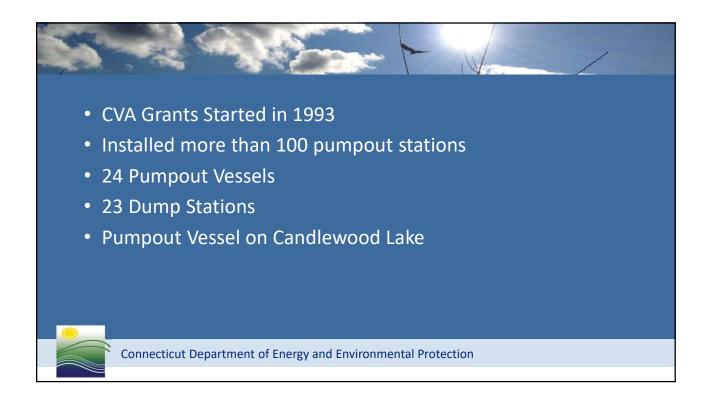
October 2020 Kate Hughes Brown BIG/CVA Program Coordinator DEEP Boating Division

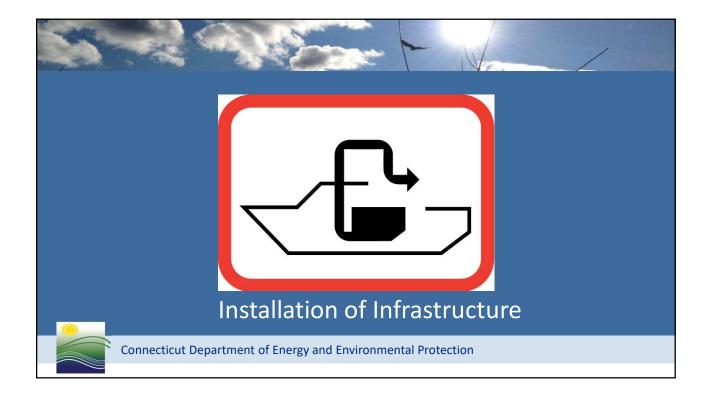


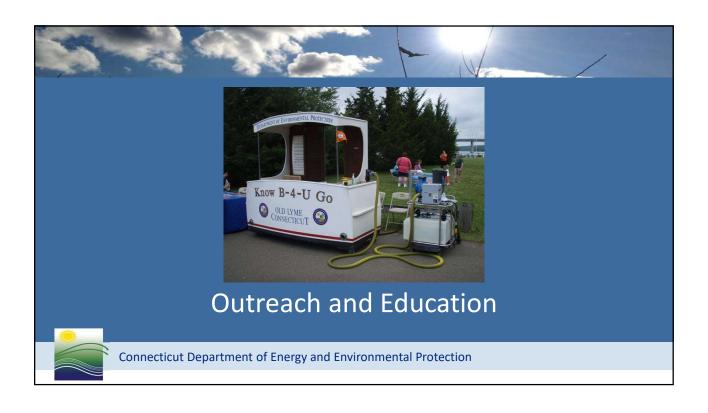
Connecticut Department of Energy and Environmental Protection



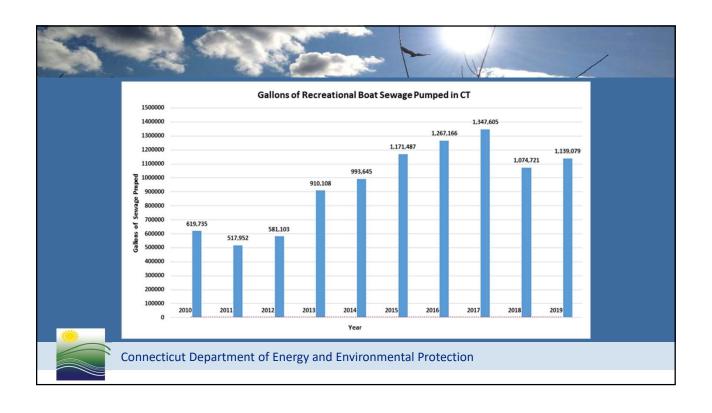


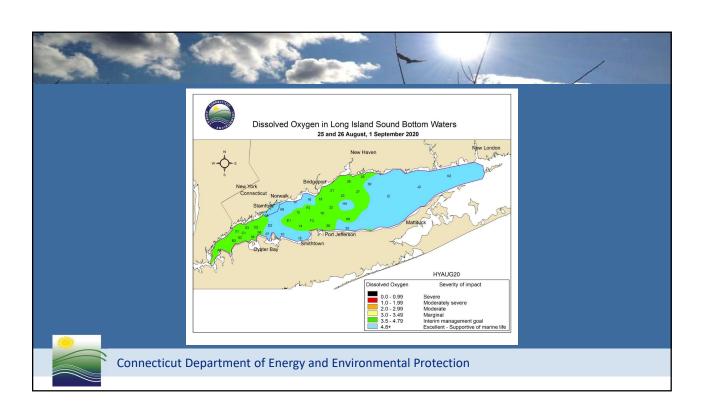


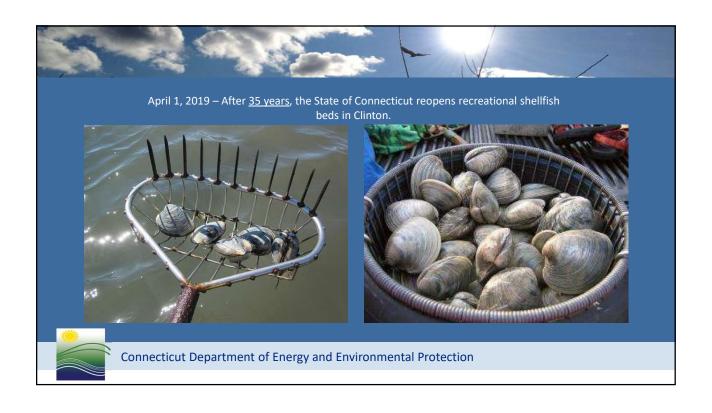


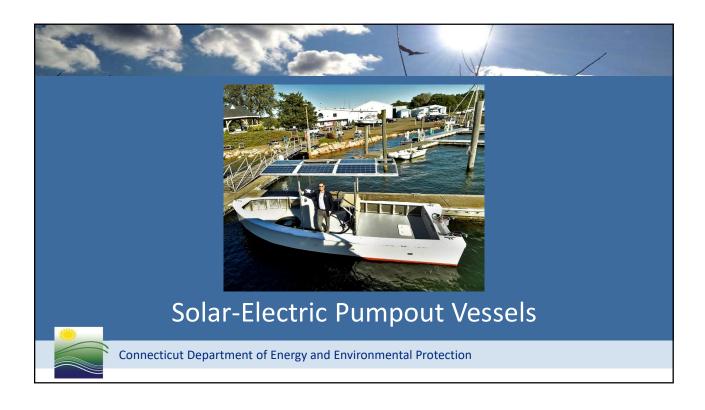










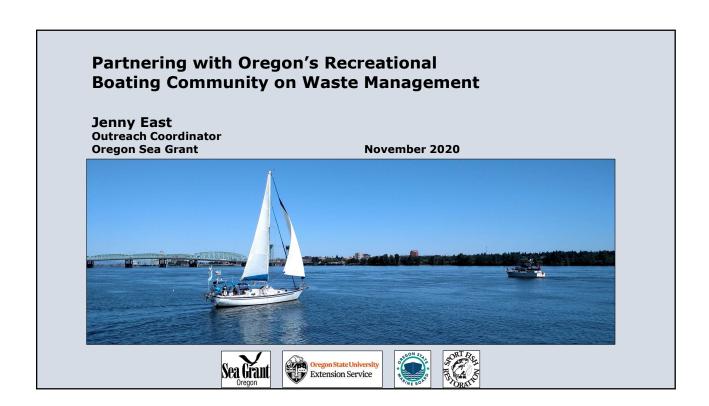


## Questions?

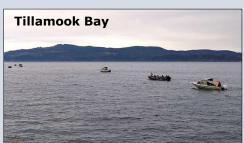
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Connecticut Department of Energy and Environmental Protection



#### **Oregon's Coastal and Inland Waterways**









# Clean Vessel Act Grant Program Partnerships







USFWS Division of Wildlife and Sport Fish Restoration

State Agency

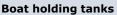
- Ports
- State, county, and city parks and recreation
- Federal agencies (for example: Forest Service)
- Tribal nations
- Private marinas



#### **Waste Disposal Facilities**

#### **Pumpout Station**







**Dump Station** 



**Portable toilets** 

48 pumpouts are free for boater use

60 portable toilet dump stations (Free and \$)

No endorsement of products shown is granted or implied by USFWS, OSMB, or OSU.

#### **Oregon's Floating Restrooms**



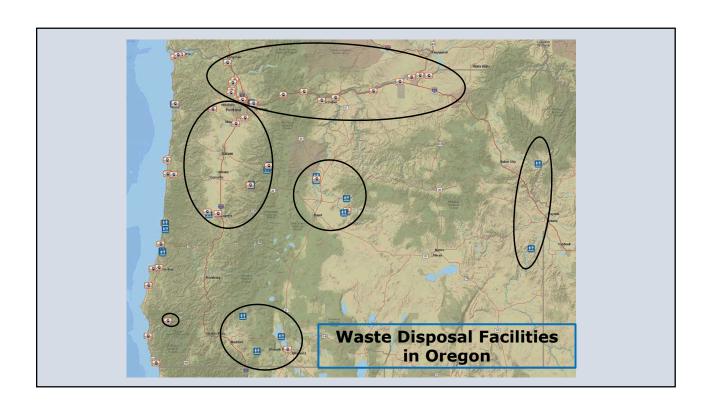


24 floating restrooms

Each unit holds up to 1000 gallons of sewage

Anchored in coastal bays, lakes, rivers





# Talking with boaters about human waste disposal

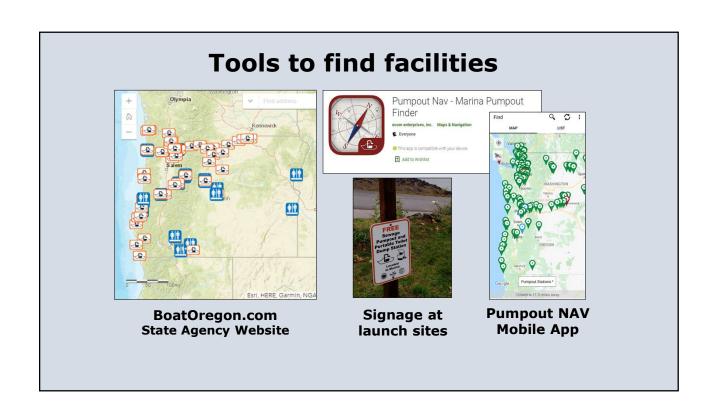








Positive, proactive, and focused on the desired behavior



#### **Pollution Prevention is a Team Effort**





#### **Working with Staff at Marinas**

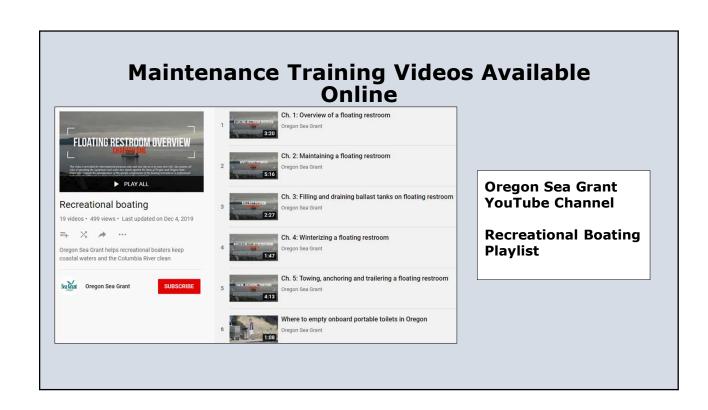






#### **Purpose of the site visits:**

- Hear feedback about boater use
- · Learn about issues with equipment performance
- · Assist staff with maintenance training







# Questions?

### Speaker Contact Information

**Kelsey Watts-FitzGerald**, Vessels, Marinas, and Ports, Office of Wetlands, Oceans, and Watersheds, EPA

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# Participation Certificate

- If you would like to obtain a participation certificate you can access the PDF in the **Handouts** section of your control panel.
- You can type each of the attendees names into the PDF and print the certificates.

# Watershed Academy Webcasts

More webcasts coming soon!

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# Thank You!