

# Great Lakes Interstate Prevention, Early Detection and Rapid Response Core Team Surveillance & Phase III Planning Meeting

March 21-22, 2019  
Great Lakes Commission  
1300 Victors Way, Suite 1350; Ann Arbor, Michigan 48108

## Remote Participation Information

### Thursday:

<https://www.gotomeet.me/erikajensen/ais-project-team-meetings---march-21>

United States: +1 (669) 224-3319; Access Code: 619-435-581

Canada: +1 (647) 497-9373; Access Code: 619-435-581

### Friday:

<https://www.gotomeet.me/erikajensen/ais-project-team-meetings---march-22>

United States: +1 (571) 317-3116; Access Code: 218-797-469

Canada: +1 (647) 497-9373; Access Code: 218-797-469

## Desired outcomes

- Develop metrics for and refine surveillance content on Blue Accounting website
- Learn outcomes from 2018 surveillance efforts
- Agree on priorities and next steps for regional surveillance efforts
- Understand relevant related surveillance projects
- Wrap-up phase II items
- Kick-off phase III work plan

## Pre-Work

- Review the detection/surveillance information on the Blue Accounting AIS website:  
<https://www.blueaccounting.org/issue/aquatic-invasive-species>
- Review draft aquatic plant pathway risk assessment report (provided via email on 3/7/19)

## Draft Agenda

All times Eastern

### Day 1: Thursday, March 21, 2019

#### \*\*\*Joint Session with Blue Accounting AIS Pilot Meeting\*\*\*

**10:15 a.m.**      **Quick introductions and purpose of joint session**

**10:30 a.m.**      **Review and share feedback on surveillance content on website**

- User exercise

- 11:15 a.m. Metrics Discussion: Surveillance and response**
- Review current goal, strategies and metrics
  - Present additional examples and existing data
  - Brainstorm and prioritize additional possible metrics
    - Site-specific vs. regional measures
    - What is the ultimate measure(s) of success?
    - What are the interim measures/processes that demonstrate progress toward the ultimate measure(s)?
    - Is there information available to support tracking progress on the metrics?
- 12:30 p.m. Working lunch**
- 1:00 p.m. IEDRR Meeting Start Up**
- Review meeting purpose, desired outcomes, agenda
- 1:15 p.m. Results from 2018 survey efforts**
- **1:15-2:15** USFWS surveillance effort: how, where and what was found (Brian Elkington et al. )
  - State programs:
    - **2:15-2:30** Michigan Red Swamp crayfish (Seth Herbst)
    - **2:30-2:40** Michigan aquatic plant delimitation efforts (Sarah LeSage)
  - **2:40-3:00** TNC aquatic plant survey effort (Andrew Tucker)
- 3:00 p.m. Break**
- 3:15 p.m. New methods, detections or imminent threats**
- **3:15-3:35** Great Lakes shipping network model. Assessing the relative role of key ports in the secondary spread of AIS: Implication for surveillance site prioritization (Jake Kvistad and Jon Bossenbroek)
  - **3:35-3:50** Results of risk assessment for newly detect nonnative species in Great Lakes (Rochelle Sturtevant and Felix Martinez)
  - **3:50-4:05** Range expansion of *Tinca tinca* (tench) in the lower Great Lakes – St. Lawrence River (Olivier Morissette)
  - **4:05-4:20** Refined crayfish trap trials (Brad Smith)
  - **4:20-4:30** Questions and Discussion
- 4:30 p.m. Wrap-up Day 1 and plan for Day 2**
- 6:00 p.m. Optional Group Dinner at Isalita**  
341 E Liberty St  
Menu: <http://www.isalita.com/menu-1>

**Day 2: Friday, March 22, 2019**

**8:30 a.m.      Agenda review**

**8:35 a.m.      Advances in genomic surveillance methods**

- **8:35-8:55** USFWS targeted eDNA Surveillance 2018 Results and Program Update (Emy Monroe)
- **8:55-9:10** Multi-marker Metabarcoding of Ichthyotow Samples (Katie Bockrath)
- **9:10-9:35** Comparing eDNA and traditional surveys of diversity and relative abundance: Implications for invasive fish (Seth Herbst et al)
- **9:35-10:00** Assessing the efficacy of eDNA and metabarcoding to survey fish communities in a complex Great Lakes estuary (Chelsea Hatzenbuehler et al.)

**10:00 – 10:15 a.m.      Break**

- **10:15-10:30** EPA efforts related to surveillance of invertebrates (Trebitz et al)
- **10:30-10:50** Predicting eDNA transport and degradation in flowing waters: application of a conservation tool using integrated experimental, field, and modeling approaches (Ariel Shogren)
- **10:50 -11:00** NYSDEC eDNA lab (Steven Pearson)
- Wrap up discussion – next steps?

**11:10 a.m.      Site and species priorities for the 2019 surveillance efforts**

**12:00 p.m.      Working lunch**

**1:00 p.m.      Phase II Wrap-Up**

- Status of Surveillance Framework and Response Plan (and associated manuscripts)
- Aquatic Plant Pathway Risk Assessment Report

**1:30 p.m.      Phase III Kick-off**

- Communications protocol
- Response exercise
- Future regional surveillance meetings

**3:00 p.m.      Adjourn**