2018: Great Lakes Basin Interstate Aquatic Invasive Species Surveillance Planning Meeting

NOAA Great Lakes Environmental Research Laboratory
4840 S. State Rd., Ann Arbor Michigan 48108
January 18–19

Thursday, January 18

12:00–1:00 **Lunch**

1:00–1:15 **Introductions**

1:15–3:00 **Review of key results from 2017 survey efforts**

- Basin wide summary from USFWS: sites surveyed, relative effort, significant or any note-worthy detections
- Plant survey effort (Tucker)
- Canadian Surveillance (Dave Mason)
- Asian carp eDNA surveys: methods, results, vision for the future (TBD)

3:00–3:30 **Break**

3:30–4:50 **Review new or imminent threats — relationship to regional priorities**

- Northern Snakehead (Oswego)
  - Summary or eDNA results (Chadderton/Tucker & Eastern region USFWS)
  - USFWS traditional sampling efforts: what where and how (Ted)
- Red Swamp crayfish — Michigan: distribution, age of population, potential for secondary spread (Herbst)
- Wisconsin — Lake Michigan Starry Stonewort survey results (Wakeman)
- Michigan aquatic plants (LeSage)
- Grass carp — habitat use and movement to inform survey effort (Herbst)
- Others?

6:30 **Optional group dinner**, location to be determined.

Friday, January 19

8:30–8:45 **Review yesterday**

8:45–10:00 **Advances in survey methods**

- USFWS: traditional sampling tools (TBD)
- Operational applications in high-throughput sequencing (HTS) — Michigan inland lakes study (Seth Herbst)

- USFWS — Whitney lab: update on genomic program and future applications of HTS
- EPA/TNC — brief update on HTS surveillance methods study: St Louis Estuary (Chadderton/Tucker)
- NZMS — detection methods and detection probabilities (Herbst)

10:00–10:30 **Break**

10:30–12:30 **Agreeing on site and species priorities for the 2018 survey program**

- Map last 2–3 years of survey effort against site priorities — identify gaps (TNC/USFWS)
- Lake by lake discussion to identify agreed set of priorities
  - USFWS: fish and inverts
  - TNC: plants

12:30–1:00 **Lunch**

1:00–1:30 **Communication protocol: what detections warrant regional communication**

- Traditional results
- eDNA results

1:30–2:15 **Managers eDNA workshop: planning discussion, aims of workshop**

- Attendance (who needs to be there)
- Issues to be covered
  - Methods (strengths and weaknesses)
  - Communication protocol

2:15–2:45 **Response exercise planning**

2:45–3:00 **Plant pathway risk assessment workshop: planning**

3:00 **Wrap up**