

MRBP Coordination Meeting

March 3-5, 2020

Lower Colorado River Authority

[McKinney Roughs Nature Park](#)

1884 Hwy 71 West

Cedar Creek, TX 78612

Remote Participation

866-871-6232; 54540655#

[Click here for Webex](#)

(No password is required)

Agenda

Tuesday Morning - Wildflower Hall

MRBP Coordination Meeting

8:15 – Registration

8:30 – Call to order and introductions (Eric Fischer)

8:45 – Welcome by TPWD (Tim Birdsong)

9:00 – AIS Priorities in Texas (Monica McGarrity)

9:45 – USGS NAS database updates and improvements (Matt Nielson)

10:15 – Break

10:30 – Report from Live Release Project (Tim Campbell)

11:00 – Informational Updates (10 minutes each)

- MICRA/MRBP (Greg Conover)
- ANSTF and Panel Principals (Eric Fischer)
- AFWA Invasive Species Committee (Kim Bogenschutz)

11:30 – Lunch - *On your own*

Tuesday Afternoon – Wildflower Hall

eDNA for Managers Workshop

1:00 - Welcome and introductions (Duane Chapman)

- Cathy Richter: eDNA definitions and resources (handouts)

1:10 - Applications for eDNA analysis and emerging standards

- Katie Bockrath: Evolution of the USFWS Asian carp monitoring program
- Adam Sepulveda: Applications of eDNA for zebra mussels

- Peter Sorenson: eDNA as a predictor of common carp density
- 1:50 Panel discussion questions (Discussion leaders Katie Bockrath and (TBD))
- What are the most useful applications of eDNA for managers? (relative abundance; spawning activity; effectiveness of management actions; rapid detection; biosecurity support; habitat selection; screening for new invasives; monitoring effects of invasions?)
 - What management questions is eDNA not suited for? (age structure, etc.?)
 - What are the strengths and limitations of eDNA analysis?
 - What potential future applications would be most useful? (eRNA, etc.?)
- 2:30 Break
- 2:45 Data interpretation
- Chris Merkes: Limits of detection (LOD) and limits of quantification (LOQ)
 - Cathy Richter: Boring but important technical details (log-normal distributions, units for reporting, concentration vs percent detection)
 - Adam Sepulveda: Occupancy modeling shiny app, determining sample sizes, incorporating communication plan and action plan into experimental design
- 3:30 Panel discussion questions (Discussion leaders Adam Sepulveda and Chris Merkes)
- What is a useful eDNA data format for managers?
 - How can eDNA data be best visualized for the NAS database?
 - What does a single positive eDNA sample mean?
 - How can structured decision making incorporate eDNA results?
 - A fun game – bring an example of misinterpretation of eDNA data from the media
- 4:15 Wrap-up and future research needs
- 5:00 Adjourn

Wednesday Morning – Wildflower Hall

eDNA for Managers Workshop

8:15 - Reconvene

8:30 - Experimental design

- Choosing numbers of sites, samples, and qPCR replicates; positive and negative controls; sampling over space and time; occupancy modeling to guide sample numbers; commercial alternatives for sample analysis; case study

9:15 – Panel discussion

10:00 – Break

10:15 – Sample collection methods

- Water collection, centrifugation, filtration, sample volumes; sample preservation; field controls; contamination prevention measures; commercial alternatives for sample collection, preservation, and rapid analysis; choosing sampling methods; case study

11:00 – Panel discussion

11:45 – Wrap-up and future research needs

12:00 – Adjourn

Wednesday Afternoon – *Wildflower Hall*

MRBP Coordination Meeting

1:00 – Great Lakes and St. Lawrence Seaway Governors and Premiers AIS Task Force (Kevin Irons)

1:30 – Recovering Americas Wildlife Act (Jen Mock Schaeffer)

2:00 – Committee Breakouts: Outreach and Education, Prevention and Control, Research and Risk Assessment

- Discuss on-going work within the basin
- Discuss emerging issues
- Identify needs

5:00 – Adjourn

Thursday Morning - *Learning Center*

MRBP Coordination Meeting

8:15 – Reconvene

8:30 – Committee Reports (Committee Chairs)

- Outreach and Education
- Prevention and Control
- Research and Risk Assessment

9:15 – 2020 Work plan (All)

9:30 – ANSTF recommendations (All)

9:45 – Schedule next MRBP meeting (All)

10:00 – Break

10:15 – Review of Asian Carp Sampling Workshop Videography Project (Tim Campbell)

10:30 – Overview of results from different Asian carp capture gears (Scott Collins and Nathan Lederman)

- Group discussion: next steps

11:30 – Adjourn