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**Disclaimer**



Welcome

## Welcome to the CLU-IN Internet Seminar

### *Contaminated Sediments Virtual Workshop Session 2 – Risk Assessment*

*Sponsored by: US EPA Office of Research and Development (ORD)'s Office of Science Policy*

Delivered: October 30, 2019, 1:00 PM - 2:30 PM, EDT (17:00-18:30 GMT)

**Instructors:**

- Ned Black, US EPA Region 9
- Lawrence Burkhard, US EPA Office of Research and Development
- Sharon Thoms, US EPA Region 4

**Moderator:**

- James Rice, ICF
- Jean M Balent, US EPA Office of Superfund Remediation and Technology Innovation



# Webinar Overview

## Welcome to the Contaminated Sediments Virtual Workshop Series

Session 1	October 21	Site Characterization (recording available)
<b>Session 2</b>	<b>October 30</b>	<b>Risk Assessment</b>
Session 3	November 13	Innovative & Established Remediation Technologies
Session 4	November 20	Long-term Monitoring



Today!

### About the Series

This virtual workshop series will provide interactive discussions between subject matter experts and workshop participants. Each virtual session will feature brief topic introductions by panelists followed by facilitated panelist and participant discussions which will include opportunities for questions and answers, brainstorming, identification of concerns and research needs.

### Webinar Objectives

- Describe the latest conceptual approaches to each technical area
- Offer methodologies, tools and case study illustrations that address each of these concepts
- Solicit participant input to how these approaches can be revised to produce better, faster and cheaper outcomes



## Webinar Overview

# What obstacles do you encounter when conducting risk assessments at contaminated sediment sites?

Use the blank space at the bottom of your screen to enter a word or short phrase.

You can click on the "+1" button if you want to agree with someone else's response.

The responses will be ranked by popularity (# of respondents selecting this choice).



# Webinar Overview

## Why “dig in” to Contaminated Sediments?

Contaminated sediments present unique challenges

- Multiple sources
- Difficult to control
- Large diffuse areas
- Dynamic conditions
- Higher remediation costs
- Unique resources are contained in the sediment/surface water ecosystem

Systematic and coordinated efforts are needed to address contaminated sediments effectively

- Robust CSMs build a strong framework for future actions
- Current and relevant toxicological information inform risk assessments
- Strategically defined cleanup goals and effective remedial actions
- Accurate and efficient monitoring to measure and optimize remedy effectiveness



## Today's Topic: Risk Assessment

### Toxicity Bioassays: A Useful Line of Evidence in Ecological Risk Assessment

- Ned Black, EPA Region 9

### Ecological Considerations: Bioaccumulation Assessment (Focus: Organic Chemicals)

- Lawrence Burkhard, EPA ORD

### Sediment Benchmarks Use in Screening and Recent Advances

- Sharon Thoms, EPA Region 4