DISCLAIMER

Notice: This presentation has been provided as part of a U.S. Environmental Protection Agency webinar. The document does not constitute EPA policy. Mention of trade names or commercial products does not constitute endorsement or recommendation for use. Links to non-EPA web sites do not imply any official EPA endorsement of or a responsibility for the opinions, ideas, data, or products presented at those locations or guarantee the validity of the information provided. Links to non-EPA servers are provided solely as a pointer to information that might be useful to EPA staff and the public.
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
Welcome to the Contaminated Sediments Virtual Workshop Series

<table>
<thead>
<tr>
<th>Session 1</th>
<th>October 21</th>
<th>Site Characterization (recording available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 2</td>
<td>October 30</td>
<td>Risk Assessment</td>
</tr>
<tr>
<td>Session 3</td>
<td>November 13</td>
<td>Innovative &amp; Established Remediation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Technologies</td>
</tr>
<tr>
<td>Session 4</td>
<td>November 20</td>
<td>Long-term Monitoring</td>
</tr>
</tbody>
</table>

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
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).
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