

**Technical Review Workgroup for Metals and Asbestos
Lead Committee Annual Report:
Accomplishments and Activities for Calendar Year 2021**

Full Members

Region 1

Mary Ballew
Courtney Carroll

Office of Research and Development (ORD)

Kirk Scheckel
James Brown (co-chair)

Region 2

Julie McPherson

**Office of Superfund Remediation and
Technology Innovation (OSRTI)**

Michele Burgess (co-chair, on detail)
Matt Lambert (co-chair, acting)

Region 3

Linda Watson

Environmental Response Team

Mike Beuthe
Kelly O'Neal

Region 4

Kevin Koporec

Utah Department of Environmental Quality

Scott Everett

Region 5

Andrew Podowski
Keith Fusinski

**Agency for Toxic Substances and Disease
Registry (ATSDR)**

Steve Jones

Region 6

Ghassan Khoury

Region 7

Todd Phillips

Region 8

Charles Partridge

Region 9

Sophia Serda (co-chair)

Region 10

Marc Stifelman

TRW Lead Committee Accomplishments of 2021

Reports and Guidance on Lead Risk Assessment (completed and active projects)

1. **Updates to the Integrated Exposure Uptake Biokinetic Model (IEUBK) and Supporting Documentation (May 2021):** The Lead Committee completed peer-reviewed updates to the IEUBK model and supporting documentation for version 2. The updates to the IEUBK model documentation for version 2 include updated variable values, reflect the latest version of the model software and technical and user support documentation.
2. **Update to the IEUBK Model:** The Lead Committee completed development and testing of the IEUBK model version 2.0 software. This latest version incorporates all recommendations by the Lead Committee. Because the latest Visual Studio compiler was used to build the executable IEUBK file, the software is fully compatible with Windows 10.
3. **Updates to the Integrated Exposure Uptake Biokinetic Model (IEUBK) Documentation:** The Lead Committee submitted updates to the IEUBK model documentation for version 2 to OSRTI Management for review. The updates to the IEUBK model documentation for version 2 include updated variable values and reflect the latest version of the model software.
4. **Revised Guidance for Sample Collection for In Vitro Bioaccessibility Assay for Arsenic and Lead in Soil and Applications of Relative Bioavailability Data in Human Health Risk Assessment:** The Lead Committee supported the Bioavailability Committee with revision of the *In Vitro* Bioaccessibility Sampling Guidance. This supplemental guidance is intended for regional risk assessors and regional risk managers to assist them with developing sampling plans for site soil relative bioavailability (RBA) assessments and application of bioavailability data to risk assessments. The update covers data quality objectives, sampling planning, prospective and retrospective analyses, frequently asked questions, and case studies.
5. **Video Training:** The third IEUBK video has been completed (<https://www.youtube.com/watch?v=2r1rtQXOjCE>). This video features interviews with EPA staff in Region 8 who discuss using the IEUBK model to assess risk for intermittent exposure scenarios (e.g., child recreators or trespassers). Training at OSC Readiness, training at OHHRRAF meeting, and other trainings are in development.
6. **OLEM Soil Lead Policy:** The Lead Committee provided scientific and technical supported to OSRTI in evaluating alternatives and application of the IEUBK model using a target blood lead of 3.5 µg/dL.

Communication, Training, and Outreach

1. **Hotline:** The TRW Lead Committee responds to questions from inquiries made either by telephone to the TRW Lead Committee hotline (toll-free 1-866-282-8622) or via pbhelp@epa.gov. There were 57 hotline inquiries in 2021. Of these, 54 pertained to lead risk assessment requests for assistance in 2021. Requests were received from the following groups:

- a. 36 requests were from state and federal agencies;
- b. 2 were from outside the US; and
- c. 16 requests were from other sources (public, non-governmental organizations, and engineering and consulting firms).

Most of the requests pertained to the IEUBK model, including installation and use, exposure scenarios, screening levels/policy, or guidance-related questions.

2. Presentations/Training:

The TRW Lead Committee is preparing an update to the 2003 supplemental guidance in assessing intermittent exposures to lead as well as a spreadsheet calculator tool.

- 3. **Website:** The TRW continues to support the TRW Lead Committee website as a source of information and supplemental guidance for risk assessors and other stakeholders.
- 4. **Charter:** The TRW Charter (2018) was not revised in 2021.
- 5. **Lead Committee Planning Meeting:** Virtual planning meetings in fall of 2021.

Coordination/Support with States, Regions, EPA Program Offices, and Other Federal Agencies

Region 5: Reviewed and provided feedback for the ASARCO Taylor Springs Superfund Site in Taylor Springs Illinois and the Sandoval Zinc Superfund Site in Sandoval Illinois. The consultations concerned the use of the residential and non-residential screening levels as cleanup targets and using site-specific soil lead bioavailability information.

Region 6: Provided a consultation and comments for Operable Unit 5 (Sediments and Surface Water) of the Tar Creek Superfund Site in Ottawa County, Oklahoma. The consultation concerned the methodology for an assessment of risk for various exposure pathways for Tribes and the general public. In addition, members of the tribes for the Tar Creek site made a presentation to the TRW Lead Committee.

Region 8: Reviewed and provided feedback on the Human Health Preliminary Remedial Action Objectives for the Barker-Hughesville Mining District Superfund Site in Montana. The review comments addressed concerns related to terminology, documentation, and using IVBA information for the determination of PRGs.

Coordination with Other Nongovernment Groups

No activity.

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TRW Lead Committee Plans for 2022

1. **IEUBK Model version 2 Software Training:** Training is planned for 2022 to support release of version 2 of the IEUBK model software, including training at the OHHRRAF-ERAF meeting.
2. **Residential Lead-Contaminated Sites Handbook:** Support updates and release of the revised version, including training as needed.
3. **Support the soft release of ORD's All Ages Lead Model (AALM):** Review and provide comments on the new version of the AALM.
4. **Supplemental Guidance for Assessing Background for Lead Sites:** Review and update the guidance on characterizing background for lead at Superfund sites.
5. **Supplemental Guidance on Assessing Lead Risk for Urban Areas:** Develop guidance on assessing lead risk for Superfund sites in urban areas.
6. **TRW Committee Business**
 - a. **Annual Meeting.** In person meeting planned for spring 2022.
 - b. **Annual Report.** Release the Calendar Year 2019 and 2020 Lead Committee Annual Reports.