

**The Technical Review Workgroup for Metals and Asbestos
Lead Committee Annual Report:
Accomplishments and Activities for Calendar Year 2012**

Members

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Larry Zaragoza (OSRTI)
Michele Mahoney (OSRTI)

TRW Lead Committee Accomplishments of CY 2012

Reports and Guidance Development on Lead Risk Assessment

1. ***OSWER Desk Statement on Status of Superfund Soil Lead Policy:*** Supported the development of outreach materials related to the CDC recommendations for blood lead reference value. Materials are under review by OSRTI management.
2. ***Background Soil:*** Working with USGS to evaluate data to make recommendations about background concentrations of lead in soil. The USGS data will be posted on the Lead TRW website.
3. ***Residential Lead Sites Handbook:*** Preparing updates to the risk management guidance based on feedback from user community and updated science. Document is in final draft review.
4. ***M_{SD}:*** Evaluated and found the existing data to be inadequate. Coordinating review of Bunker Hill M_{SD} data with TerraGraphics (SAS code for MSD data analysis). The data is undergoing data review.
5. ***Particle Size and Sieving Analysis:*** Preparing an updated recommendation based on literature search and analysis on the particle size fraction that adheres to a child's hands. The final document will be posted the TRW website.
6. ***Urban Gardening Subcommittee:*** Preparing a recommendation regarding soil levels of lead that trigger best management practices. This project involves Intra- and Inter-Agency coordination, and to date, has involved guests from ATSDR and USDA, as well as academia. The final document will be posted to the TRW website.
7. ***Phosphate Amendment:*** Coordinating with TRW Bioavailability Committee to develop a state of the science review. The manuscript will be submitted for a peer review publication.
8. ***ATSDR-EPA Lead Strategy & Pilot Study Subcommittee:*** Coordinating with ATSDR and Regions on collaborative approach to lead sites.
9. ***IEUBK Model Variable Review:*** Updating exposure variables (i.e., ventilation rate, dietary lead exposure, water lead concentration, water consumption, and bioavailability) in the IEUBK model based on literature review. The final variables will be update the IEUBK model and posted to the TRW website.
10. ***IEUBK Model User Manual:*** Updating the IEUBK Model User Manual including development of an online version. The final document will be posted to the TRW website.

11. ***OHHRRAF Lead Panel:*** Participated in a panel discussion at OSWER Human Health Regional Risk Assessment Forum (OHHRRAF) concerning the updated CDC blood lead reference value.
12. ***TRW Lead Committee Webpage Update:*** Updated the TRW Lead Committee webpage.

Communication, Training, and Outreach

1. ***Hotline:*** Responded to 83 requests for assistance in CY 2012. Of these calls, approximately 70% requests were from state and federal agencies and the remainder from other sources (public, non-governmental organizations, and engineering and consulting firms). Several requests (n=7) were from outside the U.S. (University of Queensland, Australia, Canada, etc.). Approximately 50% of the requests concerned the IEUBK model or the Adult Lead Methodology. Of the remainder, the majority of the requests pertained to gardening, exposure, screening levels/policy, or guidance-related questions.
2. ***Presentations/Training:*** Supported development of a TRW Lead Committee training video and IEUBK Model Training. Participated in Clu-In webinars; OHHRRAF conference in Denver, CO in July; NARPM conference in Las Vegas in October; 2012 ISES Conference in Seattle in October. Participated in an information exchange and provided training on the IEUBK model with China (in conjunction with the National Resource Defense Council) in September.
3. ***Website:*** Updated self-guided training slides on lead risk assessment available via the internet; updated responses to frequent questions (compiled from inquiries made to the TRW Lead Committee hotline). Implemented changes to make the TRW Page part of the One EPA Lead Site.
4. ***Lead Committee Annual Meeting:*** Held December 3 – December 6, 2012 at the Region 4 Office in Atlanta, GA. Members of the Lead Committee met to work on projects and plan activities for 2013.

Coordination with Regions, EPA Program Offices, and Other Federal Agencies

Regional Support

1. ***Region 2 Sherwin Williams Site:*** Addressed questions from Region 2 concerning goose meal (dietary) exposure. Also, made recommendations on hot spots at Sherwin Williams site in New Jersey.
2. ***Region 3 Price Battery & Principal Threat Waste:*** The Committee discussed principal threat waste (PTW) and lead mobility issues. Also, discussed results of soil kitchen sample results in relation to urban gardening and urban background

soil lead levels with Region 3 and OSRTI's Site Assessment & Remedy Decisions Branch.

3. **Region 8 Anaconda Proposed Plan:** The committee reviewed the feasibility study for lead in residential soils and lead and arsenic in residential dust for the community soils operable unit at the Anaconda Smelter NPL Site. Also, reviewed and responded to the Region 8 technical memorandum on lead risk assessment. Supported Golden Colorado urban gardening consultation and made a presentation to the Regional Mining Team.

Other EPA Program Offices

4. **Office of Children's Health Protection (OCHP):** Provided information to Regional Risk Assessors regarding the Children's Health Protection Advisory Committee (CHPAC) regarding childhood lead poisoning prevention to Lisa Jackson. Provided response to CHPAC to inform the Agency action and reaction to the new public health advice coming from CDC concerning update to the blood lead reference value.
http://yosemite.epa.gov/ochp/ochpweb.nsf/content/CHPAC_Comments.htm
5. **National Center for Environmental Assessment (NCEA):** Coordinated soil-dust exposure analysis and water consumption discussions with Exposure Factors Handbook (EFH) workgroup. Also, shared the methodology for the ventilation rate analysis.
6. **Office of Brownfields and Land Revitalization:** Initiated exposure pathway analysis for lead exposure from urban gardening.
7. **Center for Disease Control and Prevention (CDC):** Provided a summary and information to Regional Risk Assessors regarding the new public health advice coming from CDC and the Advisory Committee (ACCLPP) concerning the lower blood lead reference value in children. Provided talking points of the implications for the Superfund program for OSRTI management to present to the ACCLPP.
http://www.cdc.gov/nceh/lead/acclpp/acclpp_main.htm
8. **U.S. Department of Agriculture (USDA):** Invited USDA representative to participate in a workgroup discussion of exposure pathways for urban gardening.
9. **Agency for Toxic Substances and Disease Registry (ATSDR):** Coordinated with ATSDR to align the response to the CDC blood lead reference value. Also participated in discussions regarding urban gardening.
10. **U.S. Geological Survey (USGS):** Coordinated with USGS to obtain data from the study on background soil lead.

Coordination with Other Nongovernment Groups

1. ***TerraGraphics***: The Committee is working with TerraGraphics to coordinate a site specific assessment of lead concentration in soil and dust data from Bunker Hill/Coeur d' Alene Basin.
2. ***Health Canada***: The Committee reviewed a Health Canada document regarding particle size analysis.
3. ***Indiana Department of Environmental Management (IDEM)***: The Committee assisted IDEM regarding IEUBK model and lead modeling questions.
4. ***National Resource Defense Council (NRDC)***: Participated in an information exchange and provided training on the IEUBK model with visiting Chinese delegates (in conjunction with the NRDC) in September.
5. ***Kansas State University (KSU)***: KSU representative participated in workgroup discussion by providing data regarding exposure pathways for urban gardening where lead is a contaminant in the soil.