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## Rosemary Mattuck, M.S.

### Senior Environmental Engineer

Ms. Mattuck is an environmental engineer, specializing in human health risk assessments, exposure modeling, blood lead modeling, and technical support for toxic tort and product liability cases. She has performed Proposition 65 evaluations for numerous products, including toys, foods, beverages, and industrial products. Ms. Mattuck has over 20 years of experience evaluating health risks at waste sites, including copper and lead smelters. In previous consulting positions, she planned and implemented remedial investigations at hazardous waste sites, prepared feasibility studies and environmental permits, and conducted environmental due diligence assessments.

### Selected Projects

**Proposition 65 (Prop 65) Evaluation of Styrene in an Industrial Product:** Evaluated potential worker exposure to styrene from an industrial product. Conducted wipe testing and off-gas testing and modeled worker exposure to styrene *via* inhalation and incidental ingestion. Compared estimated intakes to the Prop 65 Safe Harbor Limit.

**Risk Assessments for Former Manufacturing Plant:** Conducted human health risk assessments for five sites associated with a former paint manufacturing plant. Evaluated worker and residential exposures to constituents in multiple environmental media. Calculated remedial goals to support feasibility studies. Prepared reports, responded to US EPA comments, and presented results at agency meetings.

**Prop 65 Evaluation of Lead in Imported Food:** Performed an exposure evaluation for exposure to lead in a line of imported food products. Coordinated the analytical testing and conducted a statistical evaluation to determine consumption amounts for the food type at issue. Compared expected lead intake to the Safe Harbor Limit for lead and assisted in settlement negotiations.

**Prop 65 Evaluation of Lead in Baby Food:** Modeled blood lead concentrations to quantify the impact of intermittent ingestion of lead in baby food, juice, and packaged fruit.

**Risk Assessment Near Copper Smelter:** For the New Mexico Environment Department, performed a multipathway human health risk assessment to evaluate exposure to metals present in various media due to past smelter emissions and windblown dust from tailings ponds. Attended public meetings with a community group.

**Lead Exposure in Imported Toys:** Evaluated potential lead exposures to children from contact with imported toys with lead-based paint exceeding US CPSC limits. Performed blood lead modeling to evaluate the effect on blood lead levels from ingestion of lead in the surface coating. Evaluated dermal contact using the results of wipe tests, and developed analysis methods to evaluate lead leaching into saliva under a mouthing scenario.

### Areas of Expertise

- Risk Assessment
- Exposure Assessment
- Blood Lead Modeling
- California Proposition 65
- Product Safety

### Services

- Exposure & Risk Assessment
- Product Safety Assessment
- California Proposition 65
- Renewables
- Food & Beverages
- Food Packaging

### Education

- M.S., Civil (Environmental) Engineering, University of Connecticut
- B.A., Chemistry, University of Vermont

### Selected Publications and Presentations

**Mattuck, R.** July 17, 2018. "Evaluating Exposure to Lead in Food Under CA Proposition 65." Presented at the IFT18 Annual Meeting & Food Expo, Chicago, IL.

**Mattuck, R;** Liu, X; Greenberg, GI. 2017. "Exposures to Styrene from Food Packaging Under CA Proposition 65." Poster presented at the Society for Risk Analysis (SRA) Annual Meeting, Arlington, VA, December 11-13.

Seeley, M; **Mattuck, R;** Beck, BD. 2017. "Evaluating the impact of US EPA's proposed blood lead model revisions on soil remediation levels." *Toxicologist* 156 (1):200. Abstract 1848. Presented at the Society of Toxicology (SOT) 56th Annual Meeting, Baltimore, MD, March 12-16.

**Mattuck, R.** 2016. "Comparison of Risk-based Concentrations Derived for Pesticides in Drinking Water with US EPA Human Health Benchmarks." Poster presented at the Society for Risk Analysis (SRA) Annual Meeting, San Diego, CA. December 12-14.