

# Julie C. Lemay, M.P.H.

## Senior Environmental Health Scientist

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Ms. Lemay is an environmental health scientist with extensive experience in human health risk assessment under federal and state regulations, epidemiology, exposure assessment, and managing databases for risk assessment and literature review projects. She also performs critical review of ecotoxicology and human epidemiology studies and provides technical support for toxic tort cases. Before joining Gradient, Ms. Lemay worked as a health assessor for the Massachusetts Department of Public Health, where she conducted public health assessments on landfills, waste sites, and other areas of public concern.

### Representative Projects

**Human Health Risk Assessment:** Led the human health risk assessment and developed risk-based cleanup goals for a former manufactured gas site and adjoining residential and commercial properties in an urban area in North Dakota.

**Air Monitoring Data Analysis:** On behalf of a solid waste facility, evaluated community ambient air monitoring data and potential odor impacts with respect to potential exposures in residents near a non-hazardous waste landfill.

**Consumer Product Risk Assessment and Risk Communication:** Conducted hazard and risk assessments to determine safety of specific ingredients in personal care products. Developed fact sheets to communicate findings to consumers.

**Epidemiological Review and Analysis:** On behalf of a trade organization, reviewed epidemiology studies assessing associations between bisphenol A (BPA) and several health effects.

**Cost Allocation Risk Assessment Support:** Provided guidance and risk assessment support on behalf of a cooperating PRP Group at a tidal waterway and marsh Superfund site to develop a fair and scientifically justified allocation of investigation and remediation costs.

**Regulatory Comment and Risk Communication:** Provided written and oral comments to state governments on exposure and risk associated with crumb rubber products and their bearing on regulations for the use of synthetic turf.

**Ecotoxicological Evaluation:** Developed a streamlined, yet environmentally-protective, approach for a global pharmaceutical company. Estimated Predicated No Effect Concentrations (PNECs) for Active Pharmaceutical Ingredients (APIs) that lack environmental toxicity data.

### Areas of Expertise

- Human Health Risk Assessment
- Epidemiology
- Exposure Assessment
- Risk Communication
- Public Health
- Data Analysis and Interpretation

### Education

M.P.H., Environmental Health, Boston University School of Public Health

B.A., Political Science and Environmental Science, College of the Holy Cross

OSHA-Certified 40 Hours of Training in Hazardous Waste Operations and Emergency Response

### Selected Publications and Presentations

Peterson, MK; **Lemay, JC**; Pacheco Shubin, S; Prueitt, RL. 2018. "Comprehensive multipathway risk assessment of chemicals associated with recycled ("crumb") rubber in synthetic turf fields." *Environ. Res.* 160:256-268. doi: 10.1016/j.envres.2017.09.019.

Goodman, J; **Lemay, J**; Mattuck, R; Mayfield, D; Verslycke, T; Zhang, J; Zu, K. 2016. "Chapter 4. Health risk assessment." *In Environmental Science Deskbook, Release #14.* (Ed.: Conrad, JW Jr.), Thomson Reuters, Eagan, MN, 61p.

Goodman, JE; Prueitt, RL; Sax, SN; Lynch, HN; Zu, Ke; **Lemay, JC**; King, JM; Venditti, FJ. 2014. "Weight-of-evidence evaluation of short-term ozone exposure and cardiovascular effects." *Crit. Rev. Toxicol.* 44(9):725-790.

**Lemay, JC**; Prueitt, RL; Hixon, ML; Goodman, JE. 2013. "Distinguishing between Risks and Hazards: A Case Study of Bisphenol A." Presented at SRA Annual Meeting, Baltimore, MD, December 8-11.

