

A. Dallas Wait, Ph.D.

Principal

dwait@gradientcorp.com



Dr. Wait is a chemistry expert with more than 40 years of experience characterizing consumer products, evaluating the source and fate of chemicals in the environment, designing test method and quality assurance programs, interpreting data, and determining the validity and usability of chemistry measurements and sampling procedures. Dr. Wait directs Gradient's Data Quality Management practice, and his consultations often resolve data quality issues, aid in agency negotiations concerning data usability, and provide pivotal chemistry testimony.

More recently, his practice has expanded into the dietary supplement and food industries, resolving product adulteration and testing reliability issues. He is on the editorial board for two peer-reviewed journals, coauthored the second edition of US EPA's SW 846 RCRA Test Method Manual, and has published over 30 journal articles and two book chapters on the topic of data quality. Dr. Wait is a member of numerous scientific work groups and science advisory boards involved in developing and evaluating test methods and quality assurance programs. Dr. Wait was recently the Chair of US EPA's Environmental Laboratory Advisory Board (ELAB). Before joining Gradient in 1989, he was Technical Director, Vice President, and cofounder of ENSECO's ERCO Laboratory, a nationally prominent environmental laboratory involved, in part, with oil spill research, agency method development studies, aquatic toxicology GLP testing support, consumer product analysis, and site investigations.

Representative Projects

Data Quality Expert for Deepwater Horizon Spill: Evaluated the quality, reliability and usability of data produced for various investigations conducted in response to the Deepwater Horizon oil spill event. Most of the investigations were focused on anticipated Natural Resource Damage (NRD) claims.

Manufacturing Adulteration of Dietary Supplements: Investigated possible why dietary supplement adulteration by an ethanol manufacturing plant proposed to be constructed adjacent to supplement manufacturing facility.

Data Usability/Lab Fraud Assessment: Testified on benzene measurement and representative sampling issues associated with testing petroleum refinery process wastewaters regulated under NESHAP. Issues concerning fraudulent laboratory activities were significant in the case.

Steroids in Dietary Supplements: Conducted a forensic investigation into the presence and source of anabolic steroids in a dietary supplement.

US EPA Office of Water Peer Review: Peer reviewed documents detailing detection limit and quantitation concepts for regulatory analytical chemistry methods in response to a settlement agreement between various trade associations and US EPA.

PCB Data Usability/Sampling Assessment: Testified on data quality issues mainly associated with PCB analyses for numerous site investigations at an operating manufacturing facility.

PFAS Testing Program: Evaluated the potential presence and exposure of Per- and Polyfluoroalkyl Substances (PFAS) in paper waste sludge piles.

GRAS Panel Director: Established and directed a GRAS panel to assess the safety of caffeine in an energy drink supplement.

Areas of Expertise

- Consumer Product Characterization
- Natural Product Chemistry
- Environmental Chemistry & Forensics
- Data Quality & Usability
- Test Method Evaluation & Design
- Historical Analytical Chemistry Practices

Education

Ph.D., Organic Chemistry,
University of Rhode Island

B.S., Chemistry,
University of Rhode Island

Selected Publications

Verslycke, TA; **Wait, AD**. 2017. "Data quality in natural resource and environmental damage litigation." *Natural Resources & Environments* 31(4):15-19.

Wait, AD; Ramsey, C, Maney, J. 2015. "The Measurement Process." In *Introduction to Environmental Forensics, Third Edition*. (Eds.: Murphy BL, Morrisson, RD), Elsevier, Oxford, United Kingdom, p65-97.

Wait, AD; Reid, KR. 2012. "Defenseless without defensible data." *For the Defense* 54(1):78-83,88.

Wait, AD. 2010. "Data quality and transparency in the dietary supplement industry." *Food Drug Law J.* 65:471-487.

Wait, AD. 2002. "Challenges in producing defensible environmental chemistry measurements for litigation." *Environ. Claims J.* 14:415-454.

Wait, AD. 2001. "Environmental forensic chemistry and sound science in the courtroom." *Fordham Environ. Law J.* 12:293-325.

Wait, AD. 2000. "Evolution of organic analytical methods in environmental forensic chemistry." *Environ. Forensics* 1:37-46.



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One Beacon Street, 17th Floor, Boston, MA 02108 | 617-395-5000