



**Exponent**<sup>®</sup>  
Engineering & Scientific Consulting

## Deborah A. Truini

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### Professional Profile

Ms. Truini has 20 years' experience in the fields of environmental chemistry, consulting, and data quality management. Her areas of expertise include analytical inorganic and organic chemistry, quality assurance oversight, data validation and assessment, analytical laboratory auditing, forensic chemistry, and data interpretation and analysis. Ms. Truini has applied her expertise to a variety of environmental assessment programs, including hazardous waste site investigations and litigation support.

Ms. Truini has written and technically reviewed both inorganic and organic validation reports, as well as analytical chemistry standard operating procedures (SOPs). Ms. Truini has performed onsite audits of environmental testing laboratories throughout the country to assess technical competence, quality assurance and quality control procedures, and compliance with project-specific requirements. As part of these audits, Ms. Truini developed and refined comprehensive laboratory auditing checklists. Ms. Truini has provided technical support for metals and wet chemistry data review and methodology; advised on high-resolution methods, including PCBs, pesticides, and dioxins/furans; conducted data validation and assessment for a wide range of analytes, including volatile organics, semivolatile organics, PAHs, pesticides, pesticides by isotope dilution, PCBs, PCB congeners, TPH, EPH/VPH, dioxin/furans, and metals.

### Academic Credentials & Professional Honors

B.S., Chemistry, University of Wisconsin, LaCrosse, 1986

### Project Experience

Provided technical support and data review for a confidential client in New Jersey involving chromium-contaminated industrial waste. This project involved the review and evaluation of hundreds of soil samples for metals and hexavalent chromium.

Performed EPA Region II data validation and chemistry consulting in support of a confidential client in New Jersey. Developed project-specific validation worksheets and validated more than 1,000 environmental samples for PCB congeners, dioxins/furans, and high-resolution pesticides.

Performed data review for various speciated metals projects, which included speciated lead and mercury. Many of these projects included low-level mercury and methyl mercury.

Drafted methods for non-standard analyses performed under EPA's Delivery of Analytical Services (DAS) program and oversaw the qualification and selection of subcontract laboratories to perform DAS analyses.

Performed onsite audits of environmental testing laboratories throughout the country for various clients. Developed and refined comprehensive laboratory auditing checklists.

Performed data validations for organic, inorganic, and wet chemistry data (including review of data for volatile organics, semivolatile organics, PAHs, pesticides, pesticides by isotope dilution, PCBs, PCB congeners, TPH, EPH/VPH, dioxin/furans, metals, and wet chemistry) according to EPA Functional Guidelines and validation guidelines for specific EPA Regions (Regions I-V) and according to New York and New Jersey validation requirements in support of various remedial investigations.

Supervised a staff of 3-4 chemists in an inorganic laboratory, scheduled work flow to meet deadlines, and performed final technical review of data. Developed routine laboratory procedures and computer programs to aid in the electronic transfer of data from the instruments to the reporting programs.

Analyzed and reported environmental samples for metals by ICP-AES, CVAA, and graphite furnace, as well as wet chemistry analysis by standard and non-standard methods for various projects and clients.