

MITZI MILLER

*Vice President, Environmental Programs
Senior Data Validator
DQO/Systematic Planning Facilitator
TNI Lead Assessor, ISO 17025 Assessor*

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PROFESSIONAL SUMMARY

Ms. Miller is an environmental chemist and a highly experienced project manager with expertise in analytical chemistry and quality programs for environmental applications. She has 37 years of experience in analytical laboratory assessments and data quality audits and assessments.

Ms. Miller consulted with Louisiana Department of Environmental Quality assisting in establishment of their NELAC/TNI audit program in 2000. She continues to perform third party audits for Louisiana, Kansas, Florida, and Minnesota. She has previously performed third party TNI audits for Texas and Illinois. She averages 25 TNI audits a year. She is qualified in drinking water, non-potable and solid waste methods for chemistry, microbiology, whole effluent toxicity, and air.

In addition to TNI, she audits for an international accrediting body, A2LA. She has audited for A2LA since 1994. She is qualified for assessing chemistry, microbiology, food, petroleum, air, proficiency testing suppliers, certified reference material suppliers, stack testing, drugs and pharmaceuticals. She routinely works to establish criteria for new programs in support of A2LA.

Ms. Miller is active in TNI both as a member and former chairman of the PT Expert Committee and servers on several other committees. She has also chaired the Life Sciences Committee for A2LA, an ISO accrediting body.

Ms. Miller is an expert in implementation of the data quality objectives process (DQO) or Systematic Planning. She has taught the process to engineers and scientists since 1988. She has facilitated over 40 project efforts at various DOE sites. She facilitated the first reactor cocooning agreement at Hanford between DOE, the Washington Department of Ecology, and the contractor.

Ms. Miller is a recognized professional in the area of environmental data validation; she has a working knowledge of the rules, regulations, methods, and applications of the data that makes her an astute observer of environmental operations and the resulting environmental data. Her data validation services are in accordance with the most recent National Functional Guidelines and the SW-846 Quality Control (QC) Criteria for EPA methods, and project-specific requirements to ensure validity for use in risk assessments and conformance to quality requirements.

Ms. Miller has served as the project chemist managing evaluation of thousands of groundwater data sets for the first two Department of Energy ground water remediation reports at the Hanford Site. In that role she established and managed databases, data validation, and worked with those mapping hydrology and human and ecological risk assessment. She was also the project manager for four large remedial investigation reports for the Hanford site.

EXPERIENCE AND ACCOMPLISHMENTS

2009 – Present *Dade Moeller & Associates, Inc.*

Ms. Miller is Technical Director on the Dade Moeller Team supporting Deep Water Horizon Oil Spill and was responsible for setting the sample management office and operation to support NOAA from May 2010 to the present. This data is under continued legal scrutiny.

Ms. Miller teaches classes in ICP, ICP/MS, GC/MS data interpretation, ISO 17025, internal auditing, corrective action, TNI assessor refresher, and data validation.

Ms. Miller is responsible for identifying and planning environmental projects. In addition, she performs accreditation audits for environmental, food, materials, proficiency testing materials and reference materials. She manages environmental projects related to remediation, data validation, and laboratory quality improvements.

Ms. Miller has lead the data validation for the CMP Project both managing validation, writing procedures and performing validation and/or QA of agent, semivolatiles, PCB Congeners, and metals. She has performed QA of dioxin validation.

Ms. Miller audits environmental laboratories using ISO 17025, National Environmental Laboratory Accreditation, and Department of Defense criteria.

1992 – 2009 *Environmental Quality Management, Inc.(sold business to Dade Moeller & Assoc.)*

As Owner, President, and Principal Consultant, Ms. Miller:

- Managed Remedial Investigation reports for ground-water operable units at the U.S. Department of Energy (DOE) Hanford Site, and sampling and analysis planning for remediation of the first reactor cocooning at Hanford
- Facilitated more than 40 Data Quality Objectives (Systematic Planning) tasks at remediation sites.
- Routinely managed and acted as senior validator for private clients, litigation support, and DOE clients.
- Taught data validation to validators and taught summary of validation as part of an Environmental Planning and Quality Assurance (QA) Training Course for project managers.

Ms. Miller performed more than 60 A2LA audits based on ISO 17025. The audits included varied scopes typically covering more than 30 methods related to drinking water, clean water, Resource Conservation and Recovery Act of 1976 (RCRA), air, and lead. Ms. Miller used the A2LA Environmental Specific Criteria, which are based on the latest NELAC requirements, in addition to ISO 17025. She has also performed audits for chemical industrial laboratories such as petroleum. Technologies include, but are not limited to, GC/MS, GC, ICP, IC, GFAA, AA, titrations, microbiology, colorimetric, gravimetric, radiochemistry, electrodes demands, bioassay, air, and various wet chemical methods.

Ms. Miller performed more than 40 food, pharmaceutical, and biology audits for A2LA using ISO 17025 and Association of Official Analytical Chemists (AOAC) criteria. In addition, she has performed general chemical audits of petroleum, materials, and wine testing laboratories.

Ms. Miller supported two laboratory design efforts. She supported development of a conceptual design of a water quality laboratory providing layout for chemical and microbiology areas along with instrument space allocation, separation of the areas to prevent cross-contamination of samples, and other design details. In addition, she evaluated the instrumentation requirements and space requirements for a large radiochemical laboratory.

1990 – 1992 *Automated Compliance System*

Ms. Miller was Vice President of Project Data Management. She provided planning for implementation of Laboratory Information Management Systems for environmental and production laboratories. In addition, she provided information planning for corporations integrating field laboratory geological and decision support data.

1977 – 1990 *Martin Marietta Energy Systems*

Ms. Miller served as Program Manager, Section Manager, Group Manager, and Bench Chemist. She performed audits of more than 80 environmental laboratories. She successfully trained and managed a team of 15 laboratory and field sampling auditors for Navy and Air Force Remediation. Ms. Miller was Project Manager for a 133-person project that resulted in the first EPA Contract Laboratory Program (CLP) approval for a DOE laboratory in both organic and inorganic CLP methods. She managed a laboratory section of 28 people responsible for process support, process material certification, and troubleshooting material chemistry problems and organic environmental analyses.

Ms. Miller's responsibilities included the use of the Data Quality Objective (DQO) planning process, field sampling audits, laboratory audits, laboratory performance samples, review of work, sampling and QA plans, review of data validation, and review of data assessment. In addition, Ms. Miller developed a training course for RCRA/Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act Project Managers on choosing analytical methods, understanding QC in environmental analysis, data validation overview, and DQO development. She presented the course in all Navy Divisions and Hazardous Waste Remedial Action Program operations, both in-house and for clients.

EDUCATION/QUALIFICATIONS

B.S., Chemistry, University of Georgia, 1977.

Graduate courses in gas chromatography (GC)/mass spectrometry (MS) and statistics, University of Tennessee, 1984.

Massachusetts Institute of Technology, "Negotiating Environmental Agreements." Conflict Resolution, Research and Resource Institute, "In Pursuit of Promises: The Practitioner's Course in Collaborative Negotiations and Cooperative Problem Solving."

ISO 17025 Assessor for American Association for Laboratory Accreditation (A2LA) International Organization for Standardization (ISO) 17025; annual updates 1994–Present

Polychlorinated Biphenyl Regulations Training Course, 1999.

Certified Environmental Lead (Pb) Assessor, American Association for Laboratory Accreditation.

Certified Drinking Water Laboratory Assessor- Chemistry, U.S. Environmental Protection Agency (EPA), 1994 with one update

Certified Drinking Water Laboratory Assessor- Microbiology, U.S. Environmental Protection Agency (EPA), June 2004 with one update

NELAC Technical Training for Assessors: Whole Effluent Toxicity Whole Effluent Toxicity Provided by Advance Systems, Inc. March 2008

Lead Assessor, National Environmental Laboratory Accreditation Conference (NELAC) now TNI since 2000, with annual refresher training current as of Nov 2014.

AWARDS AND PROFESSIONAL AFFILIATIONS

Member, American Chemical Society, 1977 – present

Member, AOAC, 2006 – 2007

Chair, Life Sciences Committee, A2LA, 2004-2008

Assessor of the Year 2010 A2LA

Committee member of PT Expert Committee in The NELAC Institute, former committee chair

PUBLICATIONS

Primary project manager and author on numerous Remedial Investigation Reports, Sampling and Analysis Plans, QA Plans, and Data Quality Objective Process Reports.

Ms. Miller coauthored a training manual on EPA Method 1311, Toxicity Characteristic Leaching Procedure, teaching the course several times under contract with the EPA. In 1995 and 1996, Ms. Miller taught a course in organic data validation in EPA Region II and TNI Data Review for ICP, ICP/MS and GC/MS.