

ALISON E. RAY
Air Quality Field Technician



Educational Background

B.S., Business Administration, University of Florida

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Professional Experience

Ms. Ray joined STI in 2007 as an Air Quality Field Technician. She is responsible for installing, calibrating, and operating air quality and meteorological monitoring instruments and delivering high quality data to domestic and international government and industrial clients. She is also responsible for conducting performance audits. Ms. Ray is an expert in air sampling and analysis techniques, including those for continuous gaseous and particulate matter ambient monitoring, Federal Reference Method (FRM) particulate sampling, and air toxics sampling. Recently, she repaired and set up an e-BAM network around a bauxite mine in Jamaica, developed standard operating procedures, and trained mine staff on repair and operations procedures. She continues to support staff to operate air monitoring networks near several bauxite mines in Jamaica.

Ms. Ray has 17 years of experience in all aspects of ambient air monitoring, including network design, site selection and logistics, installation, routine operations, troubleshooting, auditing, data validation and reporting, and quality assurance. She is experienced in source testing, modeling and permitting, emission inventories, and workplace monitoring.

Prior to joining STI, Ms. Ray worked for Environmental Science and Engineering (ESE) and its successor, MACTEC, most recently as the sole field technician for the middle region of the State of Georgia Ambient Air Monitoring Network, the only state network to be operated by a private contractor. While under her care, the region achieved excellent data capture. She collected PM_{2.5}-integrated samples, speciated PM_{2.5}-integrated samples, PM₁₀-integrated samples, and air toxics samples. In addition, Ms. Ray operated continuous pollutant monitors, including FRM ozone, sulfur dioxide, oxides of nitrogen, and PM_{2.5} Tapered Oscillating Element Monitors monitors. She also worked five years as a field technician for the Clean Air Status and Trends Network (CASTNet), EPA's air quality and meteorological monitoring network consisting of over 50 stations with a primary objective of assessing the status and trends in sulfur and nitrogen pollutants; and served an additional year as the Coordinator of Field Operations for CASTNet. She was the lead technician for all aspects of workplace monitoring project field efforts for five years at a scientific research organization funded by the forest products industry. In that position, Ms. Ray provided assistance on a variety of source testing activities for the forest products industry, including PM_{2.5} source testing.

Ms. Ray is currently working with various industrial clients in Jamaica to bring their ambient monitoring programs into compliance with the regulations newly promulgated by the Natural Resources Conservation Authority.