

**TIMOTHY W. MONROE, P.E.**  
**President/Senior Environmental Engineer**

**EDUCATION:**

BS (Civil Engineering), N.C. State University, 1982

C&D Water Treatment, Tri-County Technical College, Anderson, S.C., 1988

C&D Biological Wastewater Treatment, Tri-County Technical College, Anderson, S.C., 1989

Burlington Industries Professional Development; Kepner-Tregoe Problem Analysis & Decision Making; Zenger-Miller Frontline Leadership, Career Training

**EXPERIENCE:**

Mr. Monroe is a principal of Leaf Environmental & Engineering, P.C. and has over 32 years experience in an array of environmental areas including air permitting and modeling, air emissions control equipment specification and installation, UST removal, soil and groundwater investigations, manufacturing facility environmental audits, NPDES and pre-treatment permitting, wastewater treatment operations, non-discharge permitting, Level I, II and III environmental site assessments, Corrective Action Plans and remediation of contaminated sites. With his many years of plant and project engineering experience, he brings to a project not just knowledge of environmental and OSHA regulations, but also experience finding solutions to issues that satisfy regulatory requirements while minimizing capital and operational costs.

In the area of OSHA compliance, Mr. Monroe's 15 years as a Plant and Project Engineer in the textile industry includes hands on experience with the development, installation, managing, and auditing of most all safety programs required by 29 CFR Part 1910, including, but not limited to, the following:

- Control of Hazardous Energy;
- Electrical Safety Related Work Practices;
- Hazard Communication;
- Hot Work;
- Permit Required Confined Spaces;
- Job Hazard Assessments;
- Accident Investigations;
- Process Safety Management of Highly Hazardous Chemicals

As a consultant, Mr. Monroe has completed OSHA compliance audits, control of hazardous energy and ignition source surveys, generated material safety data sheets, completed deflagration studies, completed Emergency Action Plans and created hazardous materials handling procedures for industrial clients.

Mr. Monroe has been heavily involved in compliance issues and audits for industrial facilities. As an onsite Environmental Engineer, he has been directly responsible for all facility and annual reporting including SARA 313, 312, and related submittals, emissions inventories, emergency response planning, as well as those required for air, NPDES, stormwater, and land application permits. He has been responsible for the management and operation of industrial wastewater treatment plants and has experience with Special Order applications and negotiations. His years working in textile manufacturing facilities includes experience in air pollution control equipment specification and installation, wastewater plant operations, asbestos management, solid and hazardous waste management, SPCC and SPPP development and management, emergency spill response, CFC management, and PCB contaminated material management and disposal.

Mr. Monroe has managed numerous projects with significant environmental ramifications such as industrial waste lagoon closure, asbestos-containing roof replacement, wastewater treatment equipment upgrading and repair, waste characterization and disposal, spill containment, boiler installation, asbestos insulation removal and repair, HCFC chiller installation, liquid carbon dioxide pH adjustment, textile finishing equipment installation and relocation, waste heat recovery, toxicity reduction, brine recovery and color removal pilot studies, stormwater control, energy management, waste minimization, aboveground tank installation, and industrial plant demolition and site cleanup.

#### **PROFESSIONAL TRAINING & CERTIFICATIONS:**

- NC Registered Professional Engineer #028331 (active)
- South Carolina Professional Engineer License #30575 (active)
- NC Land Application/Residuals Operator Certification #14780 (expired)
- NC Grade 1 Wastewater Treatment Plant Operator Certification #15476 (expired)
- OSHA 40-Hour Hazardous Waste Site Health and Safety Certification (up-to-date)
- Certified Stormwater BMP Inspection & Maintenance Professional #854 (current)