SMITH+GARDNER
ENGINEERS

JOHN M. GARDNER, P.E.

Senior Project Manager - Raleigh, NC

Mr. Gardner has over 45 years' experience at more than 200 facilities across the U.S. His work is primarily in solid waste engineering and related fields with a particular emphasis in siting, design, permitting strategies, construction, operation, closure, and post-closure monitoring of solid waste management facilities including municipal, construction/demolition, industrial, and residual waste landfills. Mr. Gardner also specializes in environmental due diligence and forensic engineering / consulting.

Mr. Gardner's Geotechnical experience incorporates numerous civil structures including tanks, utilities, subway/light-rail transit, commercial buildings, roadways, bridges, and industrial plants and infrastructure. Geotechnical remediation experience includes foundation repair, failure analyses, railbed and slope rehabilitation, and natural/constructed embankment stabilization. Mining-related experience includes deep and surface coal and non-coal mine permitting, coal refuse disposal design/construction, and mine subsidence stabilization.

Mr. Gardner's environmental experience includes permitting and design related to site assessments, stormwater, wetlands, air quality, and groundwater studies. Mr. Gardner has performed numerous environmental due diligence activities for waste-related facility/properties in multiple states. His experience includes technical peer reviews of waste-related facilities encompassing greenfield and expansion projects for regional solid waste authorities and private industry. Private sector work has included complete solid waste planning, permitting and design projects for many of the country's past and present private solid waste disposal companies. Mr. Gardner has worked closely with private firm accountants and controllers in meeting requirements for closure and post closure asset retirement and budgeting to meet federal reporting requirements.

His Industrial/Residual Waste experience has included facility planning, design and construction in the pulp/paper, primary and secondary aluminum, chemical, steel, wall board, and power industries. Hazardous Landfill Permitting and Design experience has encompassed Part B applications for a number of chemical facilities, the steel industry, and Storm water/Closure plans.

Mr. Gardner has served as an expert on a number of cases for regional landfill facilities, private landfill sites, landfill construction costs, industrial site closure, hazardous waste (Superfund) site remediation, recycling facilities, CERCLA remediation, waste transfer/MRF facilities and oil/gas sites. Mr. Gardner currently serves as lead technical oversight for the USVI DPNR in the remediation of over 200 acres of former industrial property. He also has served as an environmental expert to the U.S. Environmental Protection Agency and the U.S. Department of Justice. Mr. Gardner provides senior technical review of solid waste applications and submittals to a number of states/U.S. Territory regulatory agencies.

His Construction Quality Assurance (CQA) and Certifying Engineer experience includes numerous solid waste landfill projects totaling over 20 Million square feet of single/double landfill liner and leachate collection/detection system construction as well as capping and cell construction of numerous, unlined facilities and site closures.

Academic Credentials:
B.S. Civil Engineering, 1981
University of Pittsburgh, Pittsburgh, PA

Duties:
2006 - Present - Vice President
2000 - Present - Board of Directors

Professional Credentials:
Professional Engineer - AL, CO, FL, GA, IN, KY, MD, MI, MS, NM, NC, OH, PA, SC, TN, TX, USVI, VA
Certification - The National Council of Examiners for Engineering and Surveying

Employment Record:
1996 - Present – Smith Gardner Inc.
1994 - 1996 - HDR Engineering, Inc.
1986 - 1994 - Almes & Associates, Inc.
1985 - 1986 - Fred C. Hart Associates, Inc.
1984 - 1985 - STS D'Appolonia, Ltd.
1981 - 1984 - D'Appolonia Consulting Engineers, Inc.
1974 - 1981 - Pittsburgh Testing Laboratory (summers)

Principal Areas of Expertise:
Waste Engineering
Geotechnical Engineering
Environmental Due Diligence

Professional Activities:
American Society of Civil Engineers
Treasurer, Pittsburgh Section, 1981-1984

Selected Publications & Presentations:
Gardner, John M. and Hand, Clayton (Metro Nashville Public Works Dept.), "Metro Thermal Ash Monofill Closure Cap, Stormwater Damage and Restoration Update", 45th Environmental Show of the South, Conference and Exhibition, Gatlinburg, TN, April 20-22, 2016.

Gardner, John M. "Engineering Experts 2020" Presented at Duke University, Durham, North Carolina, January 23, 2020.

Gardner, John M. , Smith, Bill (Tetra Tech), Mororsky, Ron (Alcoa Corp) "Use of Geosynthetics in Remediation of Bauxite Residue Disposal Area" Presented at Geosynthetics 2020, Charleston, SC, March 8-10, 2020.

Gardner, John M. Fearrington, John R., "Landfill Capping and Closure Costs: How Much is Enough?" Presented at the Tennessee Environmental Network Show of the South (TENSOS), May 10-12, 2023, Chattnooga, Tennessee

Gardner, John M., Jones, Matthew M., "Leachate Generation at a Class I Landfill: When is it Going to Stop?" Presented at the Tennessee Environmental Network Show of the South (TENSOS) May 15-17, 2024, Chattanooga, Tennessee