
EDUARDO F. SMITH, P.E.

Education

B.S. – Civil Engineering, Georgia Institute of Technology
M.S. – Environmental Engineering, University of Florida

Professional Licenses

Registered Professional Engineer, Florida and South Carolina

Professional Experience

Eduardo Smith, Vice President of SCS Engineers, has over 20 years of environmental and civil engineering design and consulting experience in the areas of planning, permitting, design and construction involving contamination assessment and remediation, solid waste and storm water management, and water/natural resources. His long standing working relationships with many of the environmental regulators in South Florida has proven to be greatly beneficial to the clients he serves.

Mr. Smith's management and technical experience is demonstrated by his successful execution on some of the largest, highest-profile and environmentally sensitive projects in South Florida including the Old South Dade Landfill Closure Enhancement design/build project, and the Virginia Key, Homestead, Munisport (Biscayne Landing), and Peerless Landfill re-development projects in which he led the engineering and permitting.

Examples project experience, including prior to joining SCS Engineers, includes:

Environmental and Civil Design, Permitting and Consulting Services, Biscayne Landing, LLC and Oleta Partners, LLC, North Miami, Florida. *Principal.* For this 200-acre mixed use development project on a former landfill, provided environmental and civil engineering design including: storm water master planning, infrastructure design, landfill gas control, and other elements. Developed storm water system design integrated with the groundwater remediation system and landfill closure design. Also responsible for permitting through the SFWMD, DERM Water Control and Pollution Remediation Sections, the FDEP (Solid Waste Closure permitting), and local departments.

Groundwater Remediation Design/Build, Munisport Landfill, North Miami, Florida. *Project Director.* Provided groundwater assessment and remediation services addressing the onsite ammonia contamination at the site since 2007. Developed an approach to remediate the groundwater within the budget and approximately 25% of the O&M cost of other systems. Presented the approach to elected officials, municipal government leaders, and the regulatory agencies having jurisdiction and received conceptual approval. Prepared the Remedial Action Plan in accordance with the approved concept and currently conducting O&M and monitoring services.

Countyline (Former Peerless Landfill), Flagler Development Group, Miami, Florida.

Principal/Engineer-of-Record. Responsible for the overall Landfill Closure Plan for the proposed 500-acre commercial development on a former construction and demolition (C&D) debris landfill including: coordination and review of overall storm water management system for the final development; development of a comprehensive conceptual gas management plan for the site and the proposed buildings; coordination and permitting through local and State regulatory agencies; and coordinating with various consultants and engineers engaged in the project, including DRI and wetland coordination.

Virginia Key Landfill, City of Miami, Miami, Florida. *Project Manager/Engineer-of-Record.* For the 120-acre former Virginia Key Landfill re-development project, provided project management, technical oversight, engineering and permitting services related to the assessment and remedial action design. Also developed a conceptual closure design for the landfill.

Olinda Park, Miami-Dade County, Florida. *Principal.* For a 7.5-acre park developed a soil and groundwater assessment and remediation design, site civil design, park amenities design, and sampling plan that addressed the contaminants of concern. Also responsible for construction inspection and certification.

Annie Coleman Apartments, Miami-Dade County, Florida. *Principal.* For a 245-unit public housing development developed a work plan that accounted for removal of contaminated soil in a residential area. The project was completed in nine weeks with 1,900 cubic yards of soil removed from approximately 82,500 square feet of unpaved surfaces surrounding the public housing complex.

Landfill Closure and Redevelopment Permitting and Design/Build, City of Homestead, Florida.

Project Manager/Engineer-of-Record. For the 32-acre former Homestead Landfill re-development project, prepared and obtained approval of the Remedial Action Plan, landfill closure, storm water management, and gas collection and venting system design while integrating park amenities, including buildings and other facilities. Obtained approvals/permits from DERM's Water Control and Pollution Remediation Sections and the FDEP and construction certification. Also assisted the Owner in securing the funding for the project through negotiations with Miami-Dade County.

Parks Assessment and Corrective Action Plans, City of Miami, Miami, Florida. *Project Manager.* Serving as the overall Environmental Program Manager assessing and developing corrective action plans for several parks in which solid waste (incinerator ash) was deposited in the 1940s-1960s, and overseeing work of other consultants completing same. Because of the sensitivity and usage of the parks, work was completed in an expedited manner.

Old South Dade Landfill Closure, Groundwater Treatment and Permitting, Miami-Dade Department of Solid Waste Management, Florida. *Principal-In-Charge.* Engineer of Record for the Remedial Action Plan (RAP) and led permitting activities for the project. The design included sophisticated groundwater and contaminant transport modeling, including the effect of a semi-permeable.

Canal Sediment Characterization and Re-use Evaluation, City of Coral Gables, Florida.

Principal-in-Charge. As the environmental subconsultant on this canal dredging design project,

developed and implemented a work plan for sediment sampling and analysis in several City of Coral Gables waterways. The analytical parameters were based on adjacent current and historical land uses. Data evaluation was conducted by evaluating results with respect to soil cleanup target levels and considering certain applications in which the sediment may be utilized (with engineering or institutional controls, etc.).

Canal Conveyance Capacity Program, South Florida Water Management District, Florida.

Principal-in-Charge. Oversaw the SFWMD's South Region canal inspection and conveyance capacity assessment of over 100 miles of canals located in Broward and Miami-Dade Counties. The project included the field inspection, reporting of the existing condition of the canals, field survey and mapping of the canals' centerline profile, and preparation of a comprehensive report on the existing condition of the canals and recommendations for corrective repair and maintenance.

Class I Landfill Permitting, Waste Management Inc. of Florida, Medley, Florida.

Principal-In-Charge. Prepared design and supporting technical documentation for an Environmental Resource Permit (ERP) application for expansion of a Class I landfill's stormwater management system. Developed the plan for the hydrogeologic investigations to support the surface water and groundwater modeling parameters and oversaw their performance, including an aquifer performance test and falling head tests. Used the test results to estimate input parameters for use in an integrated stormwater/groundwater model. Served as the Engineer of Record for the stormwater management system expansion design.

Site Characterization, Assessment and Stormwater Design, The Lowell Dunn Company, Miami, Florida. *Principal.* Responsible for conducting a thorough site characterization to verify the extent of buried solid waste and assess groundwater quality at the site of a former quarry/lakefill where mixed-use development was proposed. Confirmed horizontal and vertical extent of waste and conducted groundwater assessment in phases to define the extent of contaminant plume. Prepared Site Characterization Report and designed a stormwater management concept for the development that would not exacerbate the contaminant plume at the site. The concept was approved by Miami-Dade DERM.

Site Assessment, Community Asphalt Corp., Miami, Florida. *Principal.* Conducted site assessment at the active lakefill site. Eliminated several metals from COC list using improved sampling methods. Conducted groundwater assessment in phases and performed a detailed characterization of the site geology to evaluate likely transport of contaminants in the aquifer. Also responsible for negotiating permit modifications to reduce the routine monitoring requirements by nearly one-half, and saving the client thousands of dollars each year.

Lakefill Permitting, The Lowell Dunn Company, Florida. *Principal.* Negotiated lakefill permit conditions with DERM and prepared permit applications for several lakefills. The work included running a stormwater model to demonstrate that filling of the lake or portion of the lake would not impact flooding off site during heavy storm events. Also conducted the baseline groundwater and surface water assessment as part of the application process.

Landfill Closure and Redevelopment Permitting and Design/Build, City of Homestead, Florida.

Project Manager/Engineer-of-Record. For the 32-acre former Homestead Landfill beneficial re-

use project, provided services related to the remedial action plan (RAP), developed landfill closure, stormwater management, and gas collection and venting system design while integrating park amenities, including buildings and other facilities into the closure design. During construction of the design/build project, will work with contractor in securing materials and will certify construction. Permitting consists of stormwater permits from DERM Water Control Section and the FDEP, and landfill closure and gas management system approval as part of the RAP through DERM Pollution Remediation Section. Also assisted the Owner in securing the funding for the project through negotiations with Miami-Dade County and their bond engineer.

C&D Landfill and Materials Recovery Facility Permitting Services, Confidential Client, Miami-Dade County, Florida. *Principal.* Throughout the permitting process, served as the Engineer of Record and the owner's agent for a construction and demolition debris (C&D) landfill and material recovery facility in south Miami-Dade County. The permits required for the project included an Environmental Resource Permit (ERP) from the Florida Dept. of Environmental Protection; and a Class VI stormwater permit, a Solid Waste Annual Operating permit and a permit to construct and operate a Solid Waste Management Facility from Miami-Dade County DERM. Also prepared stormwater and solid waste design documents, a groundwater monitoring plan and an operations and maintenance plan to support the permit applications. Served as an expert witness in hearings with the Miami-Dade Environmental Quality Control Board and in proceedings at the Board of County Commissioners.

Environmental Compliance Management and Facility Decommissioning, ChevronTexaco Global Aviation, Miami, Florida. *Principal.* Responsible for the environmental oversight of ChevronTexaco's aviation fueling facility at the MIA tank farm, including providing assistance with obtaining and renewing applicable local and state permits, including the transfer from an Individual NPDES to a Multi Sector Generic Permit. Also engineer of record for the SPCCP, FRP, Hurricane Preparedness Plan, and the Hazard Communication Plan and conducted periodic inspections of the facility to assess compliance with Best Management Practices (BMPs) for environmental issues. Coordinated and provided oversight for the removal eight USTs and decommissioning and demolition of the facility, including three 500,000+ gallon ASTs. Construction management services included the preparation of bid documents, solicitation, and construction oversight. Environmental consulting services included regulatory liaison and coordination, environmental sampling and analysis associated with the tank removals, an environmental exit audit, and the preparation of environmental closure reports.

Groundwater Remediation Bond Engineer Oversight, Miami-Dade County Solid Waste Department (as sub-consultant), Miami, Florida. *Principal.* Evaluated the landfill closure concept and cost developed by the engineer working for the developer of a project on a former Class I landfill where the County is partially funding the closure and remediation. Reviewed the groundwater remediation concept, results, and capital costs to develop an opinion of cost for the full-scale in-situ remediation system for treatment of ammonia-contaminated groundwater. Evaluated the results of the remediation pilot system to assess its effectiveness and likelihood of success in meeting regulatory criteria and its operability. Participated in negotiations to develop a final schedule of values to be used by the contractor. Reviewed monthly draw requests by the contractor.

Remedial Alternatives Investigation, Waste Management, Medley, Florida. *Principal.*

Evaluated the effectiveness of prior remedial actions for ammonia-contaminated groundwater at the 200+ acre Class I Landfill. Reviewed the remedial action plan and historical analytical data and performed a trend analysis in order to assess whether fluctuations in contaminant concentrations were influenced by the operation of the facility, natural features, or environmental conditions. Provided client with opinion of the plausible alternatives for the site. Performed remedial alternatives study and a bench-scale test of bio-sparging to determine if it would have the capability to reduce the contaminants below regulatory standards at this specific site. Also provided a scaled-up cost estimate for a full scale remediation system.

Subsurface Investigations, Office of Community and Economic Development (OCED) under Miami-Dade County Department of Environmental Resource Management (DERM) County-wide Contract, Miami-Dade County, Florida. *Principal-In-Charge.* Subsurface Contamination Assessment at 3-acre former lake-fill residential site. Contaminants of concern included lead and arsenic in soil. Developed and implemented sampling plan, and prepared a Site Assessment Report and Feasibility Study/Risk Management Plan. Using risk assessment principles, developed remedial approach resulting in potential savings of \$400,000 in cleanup costs.

Groundwater Treatment System, Gilbert Southern Corp., Miami International Airport, Florida. *Principal-In-Charge.* Contracted and supervised a \$6 million design, construction, and O&M project including a 500-gpm groundwater treatment system at the airport. Responsible for the daily operation and maintenance of the petroleum-contaminated construction dewatering effluent treatment system. The treatment system included more than 2,000 L.F. of influent piping; several high-flow, low-head hydraulic pumps; three 20,000-gallon equalization and settling tanks; air stripping towers; and activated carbon canisters. The effluent was permitted via NPDES permit. The system operated continuously for nearly two years, except for scheduled shut downs.

Petroleum Source Removal, Gilbert Southern Corp., Miami International Airport, Florida. *Principal-In-Charge.* Developed the work plans and managed the excavation of contaminated soil beneath the Concourse A overhead terminal walkway. Because column footers and active and inactive utilities were present, various sizes of heavy equipment were required to access the excavation areas. Active utilities had to be supported during excavation activities and the area was backfilled to specific densities to meet structural requirements. Free product was removed from the open excavation using vacuum tanker trucks.

Contaminated Soil Cleanup, Confidential Client, Two Sites on Miami River, Florida. *Project Principal.* Responsible for the remediation of an ecologically sensitive 10-acre site along the Miami River. Remediation consisted of the excavation and thermal treatment of more than 30,000 cubic yards of soil contaminated with bunker C and diesel fuel, and the removal and recovery of more than 500,000 gallons of petroleum-contaminated groundwater. Taken together, the remedial actions at these two sites represent the largest project conducted under the ATRP. Assessment activities included the installation of a number of soil borings and monitoring wells to delineate and quantify the extent of contamination. Due to the unusual fate and transport characteristics of the extremely weathered, low volatility bunker C fuel at the site, the assessment and remedial design activities were conducted in close cooperation with DERM to secure their technical support of each project component.

Phase II Environmental Assessments, Various Financial Institutions, Various Commercial Properties, South Florida. *Principal-In-Charge.* Directed the planning and implementation of more than 20 Phase II Assessments at retail, industrial, and other commercial sites throughout South Florida. Contamination included petroleum, heavy metals, pesticides, and chlorinated solvents in soil and groundwater. Several of the audits led to full-scale assessment and remediation. Reports were prepared for approval by several leading financial institutions, including Nations Bank, First Union, Barnett Bank and others.

Environmental Site Assessments, Various Clients, Various Sites, Florida. *Principal-In-Charge.* Performed technical and QA/QC review of more than 50 Phase I and II Assessment Reports for most statewide lending institutions.

Hazardous Waste Site Remediation, Various Clients, Various Sites, Southeast USA. *Project Manager.* Managed environmental projects associated with soil and/or groundwater contamination at RCRA permitted facilities. Performed intensive field studies, groundwater recovery system design, statistical analyses, and prepared detailed work plans, site assessment reports, remedial action plans and other technical reports for these sites.

RCRA Facility Investigation, Auburn University, Alabama. *Project Manager.* Performed RCRA Facility Investigation (RFI) for the University. Project included investigation of several solid waste management units including a former transformer storage area contaminated with PCBs; solid/hazardous waste dump; oil storage plant; and pesticide-contaminated landfill/dump.

RCRA Closure Assessments, Confidential Client, Various Sites, Florida. *Project Manager.* Performed assessments for the closure of RCRA-permitted surface impoundments for a large Florida utility provider.

Environmental Site Cleanup, Various Clients, South Florida. *Principal-In-Charge.* Provided manpower, budgeting, and technical reviews for \$4.5 million of environmental projects which included: RAPs, RAP Implementations, CAPs, CARs, hazardous waste management plans and designs, Phase I and II Assessments, and related assignments.

Lakefill Permitting, The Lowell Dunn Company, Florida. *Principal.* Negotiated lakefill permit conditions with DERM and prepared permit applications for several lakefills. The work included running a stormwater model to demonstrate that filling of the lake or portion of the lake would not impact flooding off site during heavy storm events. Also conducted the baseline groundwater and surface water assessment as part of the application process.

Recycled Material Permitting, Montenay Power Corp., Florida. *Principal.* Negotiated with DERM for the approval to reuse material recycled from a solid waste operation. The work included preparing a sampling plan, extensive statistical analysis, review of the waste processing operation and several meetings with key DERM decision makers to gain their approval for the reuse.

Old South Dade Landfill Park Conceptual Design, Miami-Dade County Department of Solid Waste Management (as a subconsultant), Florida. *Principal.* Assisted with design development, prepared cost estimates and lead pre-application meetings with local and state

environmental regulatory agencies for a multi-use park located on a closed landfill. The design includes over two miles of elevated boardwalk traversing a wetlands slough, several open water areas, a reconstructed wetlands area, several observation platforms, a 2,000 sq. ft. environmental education and renewable resource center, several miles of mountain bike trails, a xeriscape garden, a model airplane landing strip and associated facilities, and an interpretative footpath.

Resources Recovery Facility Capital Projects, Miami-Dade County Department of Solid Waste Management, Florida. *Principal-In-Charge.* Bond Engineer work for the Miami-Dade County Resources Recovery Facility Capital Projects. Projects include more than \$135 million in construction of new facility processing and air pollution control systems. The scope of services includes: monitoring and tracking of construction activities and schedules; witnessing, reviewing and approving performance tests; reviewing and approving scopes of work, contracts, and progress payments; participating in resolution of claims; and various other activities.

Resources Recovery Facility O&M Monitoring, Reporting, Contract Compliance, Miami-Dade County Department of Solid Waste Management, Florida. *Principal-In-Charge.* As the lead Bond Engineer, provided oversight of the management and operations aspects of the Miami-Dade County Resources Recovery Facility. The work included conducting routine and annual inspections of the facility and preparing an annual bond engineer's report detailing contract compliance, operational highlights and recommending operational or managerial changes. The work also included contract negotiations and independent evaluation of issues between the operator of the facility and the County (owner).

Countywide System Bond Engineer Services, Miami-Dade County Department of Solid Waste Management, Florida. *Principal.* Project included technical evaluations, financial assessments, facility inspections, operations and maintenance monitoring, and preparation of annual reports for the solid waste transfer and disposal system. The three million-ton-per-year system includes three regional transfer stations, a Class I (garbage) landfill, a Class III (trash) landfill, and a 3,000-ton-per-day (tpd) resource recovery facility, and several trash and recycling centers.

Evaluation/Optimization of County Transfer Operations, Miami-Dade County Department of Solid Waste Management, Florida. *Principal.* Project included a thorough assessment of the existing County transfer operations including fleet and station functions, waste types handled storage capacity, etc. Current cost of the system was evaluated on an aggregate and unit basis and cost-effectiveness parameters were developed and evaluated. Opportunities for improving system performance that would specifically decrease cost/ton/mile were evaluated and pilot programs recommended.

Value Analysis of Fleet Management for Collection and Disposal and Transfer Operations, Miami-Dade Department of Solid Waste Management, Florida. *Principal-in-Charge.* Assessment of Fleet Management practices to benchmark performance and assess possible cost savings through operational changes, reconfiguration of the fleet, and sale of surplus or obsolete equipment and spare parts.

Information Technology Master Plan, Miami-Dade County Department of Solid Waste Management, Florida. *Principal-in-Charge.* Evaluated the information technology needs of the department to determine the applicability of information technology solutions to business

processes. Also evaluated the Department's existing systems and IT infrastructure to recommend upgrades and solutions.

Infrastructure Design, Private Electrical Power Company, Multiple Sites throughout Miami-Dade and Lee Counties, Florida. *Design Principal/Engineer of Record.* Responsible for the preparation of site development designs for several new transmission substations and expansions to existing substations in Miami-Dade and Lee counties. Design scope includes paving, grading and drainage; water, sewer and fire service utility connections; right of way improvements; and other miscellaneous site civil requirements. Drainage designs have included exfiltration trench systems, dry retention systems, dry detention systems with control structures, and underground injection wells. Permitting services was provided for a variety of permits including DERM Class VI, FDEP ERP and UIC, SFWMD Water Use, County Health Department, Local Developer's Agreements, Local Site Plan and Building Permit reviews and FDOT Connection and Drainage Permits. Construction phase support services included preparing construction cost estimates; responding to contractor Requests for Information; reviewing shop drawings; inspections; and preparing final certifications.

Multiple Sites, FEMA/DERM, Miami-Dade County, Florida. *Design Principal.* Oversaw the preparation of designs for drainage improvements and roadway resurfacing/reconstruction at over 30 sites throughout the county as part of a \$400 million countywide program. Services included design preparation, cost estimating, and construction phase engineering.

North Dade Landfill, Vertical Expansion Feasibility Study, Miami, Florida. *Senior Engineer.* Conducted a study to evaluate the construction, operational and financial feasibility of vertically expanding the County's Class III North Dade Landfill. The study included an evaluation of design conditions, regulatory position and opinion, and cost analysis (capital costs compared to tipping fee revenue). The study revealed that expanding both cells at the landfill to approximately 270 feet would provide the DSWM an additional 18 years of disposal capacity and approximately \$300 million in additional tipping fees compared to approximately \$65 million in capital construction cost.

Environmental Cleanup, Compliance & Related Services For Miami Dade County Facilities, Miami, Florida. *Project Director.* Responsible for a multi-year contract by Miami-Dade County DERM to work with various County Departments on environmental assessment and remediation projects. The objective of the projects is to obtain site closure (NFA or NFA with Conditions) in accordance with State and County regulations.

New Residential Townhome Complex, Private Client, Miami-Dade County, Florida. *Design Principal.* Oversaw the design and permitting of site civil improvements for a 5 acre, 20 unit luxury townhome development. Design included paving, grading and drainage; water distribution and sewer collection; fire protection; and miscellaneous related activities. A new WASD regional lift station was also designed, along with approximately 800' of force main.

Stormwater System Improvements, Miami-Dade Aviation Department, MIA Bus Parking and Maintenance Facility, Miami-Dade County, Florida. *Design Principal.* Oversaw the design of drainage improvements at the bus parking and maintenance facility including paving, grading

and drainage, while minimizing impacts to existing soil and groundwater contamination at the site.

New Residential Luxury Homes Complex, Private Client, Broward County, Florida. Design *Principal/Engineer of Record*. Responsible for the design and permitting of site civil improvements for a 10-acre, nine luxury home development, and assisted with re-zoning and re-platting. Design included paving, grading and drainage; water distribution and sewer collection, with a private lift station; ROW improvements including roadway widening, sidewalks, drainage, lighting and landscaping; and miscellaneous related activities.

Medical Center Campus, The Hogan Group, Miami-Dade County, Florida. *Project Manager*. For development of a 15-acre new medical services building complex, Mr. Smith was responsible for conceptual design of the wastewater collection, water service for domestic and fire, and stormwater drainage including hydrologic/hydraulic modeling of alternatives.