ANTHONY J. DIPUCCIO, P.E.

Education

B.S. - Civil Engineer, University of Cincinnati

Licenses

Professional Engineer - Ohio, Kentucky, Michigan

Affiliations

Present

American Society of Civil Engineers
Greater Cincinnati Chamber of Commerce
Hamilton County Solid Waste Management District – Organics Committee
Leadership Cincinnati Alumni
Solid Waste Association Of North America
– Landfill Gas Technical Committee
– Ohio Chapter Board Member

Past

American Planning Association
Anderson Township Planning and Zoning Commission
Hamilton County Rural Planning Commission
Hamilton County Solid Waste Management District – Policy Committee
Michigan Recycling Coalition
National Recycling Coalition
New Jersey Recycling Coalition
Ohio Alliance for the Environment
Society for Marketing Professional Services
Water Environment Federation

Professional Experience

Mr. DiPuccio provides SCS Engineers with a diversified and extensive background in environmental and civil engineering. He has performed both design and study projects in the areas of solid and hazardous waste, wastewater, water supply, and stormwater. Since joining SCS , many of his assignments have been in landfill gas use and management.

Landfill Gas Recovery and Control

Project Director for a landfill gas to electric project in central Michigan. Tasks included an evaluation of the gas recovery potential, potential gas purchasers, and potential purchasers of gas –derived energy. Landfill gas system design, preparation of request for bid documents and construction quality assurance services were provided.

Project Director for a landfill gas to electric project in southern Ohio. The tasks for a small municipal utility included an evaluation of the gas recovery potential, potential gas purchasers, and potential purchasers of electricity. Landfill gas system design, preparation of request for bid documents and construction quality assurance services were provided.

Project Director for a variety of services related to the landfill gas recovery system at a closed landfill in Cincinnati, Ohio. The recovered gas is a co-fired fuel with natural gas and coal for a boiler. Tasks included an evaluation of the existing system, header design, preparation of comprehensive as-built documents, update of the facility's explosive gas monitoring plan, and preparation of LFG system plans for inclusion in the landfill operator's annual report to Ohio EPA.

Project Director for the start-up and fine-tuning of a landfill gas system at a closed southwestern Ohio landfill. Mr. DiPuccio directed the determination of operating parameters, identification of flow rate and vacuums, monitoring, troubleshooting, and report preparation.

Project Director for LFG system monitoring services at a closed landfill in Cincinnati, Ohio. Initially, Mr. DiPuccio directed the project team in monthly monitoring of the gas probes and compilation of the monitoring data. Eventually the monitoring duties were assumed by the landfill staff, and the project team continued data compilation and produced monthly reports to be included in the landfill's submittals to the state regulatory agency.

Project director on the evaluation of an existing landfill gas recovery system at a landfill in southeast Michigan. Services included assessment of the physical capacity of the system, verification of existing flows and conditions, and evaluation of potential modifications to maximize recovery.

Project Director for the preparation of an updated explosive gas monitoring plan (EGMP) at a Dayton, Ohio landfill. Changes were needed for compliance with current Ohio EPA requirements.

Project Director for technical support on the execution of a settlement agreement between the operator of a closed Cincinnati, Ohio landfill and the local health agency. Mt. DiPuccio's project team developed a workplan and final design for immediate corrective measures (ICM) for LFG migration at the perimeter. A geotechnical investigation confirmed subsurface conditions. Mr. DiPuccio also directed construction management for the ICM.

Project Director on landfill gas assessments at landfills in Detroit and Belleville, Michigan. Services included data collection, estimation of LFG generation, inspection and monitoring, and on-site interviews. Mr. DiPuccio was responsible for assessing the condition of the existing LFG collection system, recommending improvements, and providing cost estimates for upgrades.

Project Director for the evaluation of landfill gas systems at 15 landfills in the northeastern U.S. The project incorporated a review of waste composition, receipts, and system performance, and included recommendations to enhance performance and eliminate off-site odors.

Project Director for landfill gas services at an Illinois site. The project team estimated gas generation and reviewed the design of the planned wellfield collection system. Design improvements were suggested to increase collection efficiency.

Project Director on a project to identify the source of gas migration and recommend remedial measures at a southwestern Ohio landfill. Landfill gas was collecting in a building at the site. A follow-on project provided a remediation plan designed to lower or eliminate landfill gas collecting in the building.

Project Director on a landfill gas management system design at a municipal landfill in southwestern Ohio. Mr. DiPuccio directed the preparation of design and construction drawings, construction observation, and field support during the construction phase.

Project Director for the design of a landfill gas supply line and recovery system at a landfill in Adrian, Michigan.

Project Director on a landfill gas system design at a landfill in Taymouth, Michigan. Mr. DiPuccio directed the design of the wellfield and header system, use of the landfill gas generation and recovery model, and design of a condensate separator system.

Project Director for an investigation at a landfill in Adrian, Michigan to evaluate the feasibility of expanding the existing gas collection system to the entire landfill, and using the gas to generate electricity. Tasks included collection and review of background data; field monitoring of well head performance, headers, condensate traps, and blower/flare stations; and reporting on the evaluation of the findings.

Project Director on the assessment of the landfill gas collection system at the Belleville Landfill in Belleville, Illinois. Mr. DiPuccio was responsible for evaluating the condition of the gas collection system, testing and monitoring system performance, and making recommendations for future gas utilization.

Project Director for the field verification, documentation, and certification of the landfill gas management system at Valley View landfill in Sulfur, Kentucky.

Project Director on a landfill gas pump test at a city landfill in Tremont, Ohio. Responsibilities included work plans for three test wells; installation of the wells and pressure probes; monitoring for methane and carbon dioxide content, water levels, and pressure; obtaining gas samples for laboratory analysis; and evaluating data to determine the feasibility of recovering gas for electric generation.

Project Manager and Chief Author in the preparation of a landfill gas recovery/utilization feasibility study in Cleveland, Ohio. This was a 1,000 ton per day facility, with approximately 2 million tons of municipal refuse in place. Testing included the installation of three test extraction wells, and eight monitoring probes. Pumping tests were performed over an approximate nine month period. Utilities were contacted and interviewed to determine the feasibility of electrical generation.

The final report investigated alternative end-uses including electrical generation, medium-Btu use for space heating, and upgrading to high-Btu gas and injection to natural gas pipelines.

Project Manager and Chief Designer of a landfill gas recovery/utilization system at the in Louisville, Kentucky. A pump test was performed and results were favorable. The decision was made to proceed with full scale design. Mr. DiPuccio was then responsible for leading the design effort including full-scale installation of extraction wells, header lines, blower facility and transmission to steam-generating boiler facility. Subsequently, Mr. DiPuccio assisted in contractor selection, as well as construction inspection and start-up/fine-tuning of the system.

Project Manager/Project Engineer on a demonstration project to determine landfill gas enhancement techniques in landfill simulators. Mr. DiPuccio assisted in design and construction of 16 landfill simulators at the Center Hill Laboratory in Cincinnati. This project monitored gas quantity and quality for four years to determine the most effective enhancement methods.

Project Manager/Project Engineer on a landfill gas control and utilization project in Pittsburgh, Pennsylvania. Designed and supervised installation of 14 gas monitoring probes. Monitored probes to determine hazards posed by migrating gases from a 1.5 million ton landfill to two existing midrise office buildings and proposed shopping mall. Installed two extraction wells and performed pump tests. Recommended active controls and coordinated with regulatory agencies. Designed controls and evaluated potential for gas utilization. System now protects a 200,000 sq ft shopping mall located atop this closed landfill.

Project Manager on numerous landfill gas migration control and utilization feasibility studies. These studies included installation and monitoring of probes to assess the extent of migration and pump test programs to evaluate the feasibility of landfill gas recovery. Sites investigated included the Anderson Township Landfill, Anderson, Ohio; City of Little Rock Landfill, Little Rock, Arkansas; South Pointe Development, Cincinnati, Ohio; and a landfill near the South Charleston Community Hospital in West Virginia.

Project Manager/Project Engineer on a landfill gas control project on Long Island, New York. Investigated landfill gas migration hazards via installation of wells and pump tests. Assisted in start-up of the recommended gas control system. Performed the design of a ground flare/incinerator for odor control and toxic gas destruction. Assisted in the construction and start-up/fine tuning of this odor control system.

Project Manager on design of various landfill gas control systems. He has directed the design of control systems including preparation of design drawings, specifications, and quantity take-offs. On such projects, Mr. DiPuccio has also directed the construction and start-up/fine tuning of the control system. Sites for which Mr. DiPuccio has performed these services include the Warner Hill Landfill, Cleveland, Ohio; Imperial Landfill, Pittsburgh, Pennsylvania; Industrial Excess Landfill, Uniontown, Ohio; Lyon Landfill, Detroit, Michigan, ELDA Landfill, Cincinnati, Ohio; Center Hill Landfill, Cincinnati, Ohio; Harvard Landfill, Cleveland, Ohio; and the Pinnacle Road Landfill in Dayton, Ohio.

Project Manager for explosive gas monitoring plans for nine municipal solid waste landfills in Ohio managed by a private waste management company. Ohio EPA required all active landfills to submit plans.

Project Manager in the preparation of an explosive gas monitoring plan for a city landfill in Ohio to meet requirements of the Ohio administrative code. Code required submittal of explosive gas monitoring system design, and monitoring, sampling, and reporting procedures. He interacted with the client and the Ohio EPA to facilitate acceptance of the plan.

Project Manager for a preliminary landfill gas investigation at a landfill in soutwestern Ohio. After collecting and reviewing background information, he managed the monitoring of shallow soils at the property boundary. Using these test results, he defined the extent of existing gas migration and made recommendations for control.

Project Manager on the design of a landfill gas control system for the City of Cincinnati's Center Hill Landfill and the adjacent City of Elmwood Landfill. He prepared plans, specifications and quantity take-offs.

Project Manager on a landfill gas migration assessment at the in Westerville, Ohio. He was responsible for collecting and reviewing background information, and locating, installing and monitoring probes. He assessed gas migration to on-site buildings and beyond the property boundary, and recommended control measures.

Project Manager for landfill gas monitoring at a landfill that received wastes from a major pulp and paper mill in Hamilton, Ohio. He provided technical assistance to SCS Field Services in the construction of the monitoring facilities.

Project Manager on an investigation of landfill gas at a sports center in suburban Cincinnati, Ohio. The former landfill housed a 2500 square foot building and sports facilities. He was responsible for field investigations, developing controls, and verifying the effectiveness of remedial gas control measures.

Project Manager for the determination of the extent of solid waste fill and landfill gas migration at a residential development near Cincinnati, Ohio. Mr. DiPuccio managed an in-depth record search, installation of test pits and testing for gas migration. He coordinated activities with the appropriate regulatory agencies.

Project Manager for a review of landfill gas control measures at a condominium development in Glenview, Illinois. Mr. DiPuccio was responsible for reviewing past reports on landfill gas control procedures and presenting an oral report of the findings.