

GREGORY P. MCCARRON, PE, CCP



Education

BS – Environmental Engineering, Rensselaer Polytechnic Institute, 1986

Professional Licenses

Professional Engineer – New York, Connecticut, Massachusetts, Rhode Island, New Hampshire, Maine, Virginia

Specialty Certifications

Certified Composting Professional, US Composting Council

Professional Affiliations

Solid Waste Association of North America
US Composting Council

Professional Experience

As a Vice President, Greg McCarron oversees SCS' nationwide organics management initiative, which includes edible food rescue, composting, and anaerobic digestion. Greg is SCS' National Expert on Organics and works closely with national, regional, and local clients. Since joining SCS in 1990, he has completed design, planning, permitting, regulatory support, construction oversight, system start-up, economic analysis, and technology assessment projects for municipal and private clients.

Projects typically involve feasibility studies, due diligence evaluations, facility siting, site investigations, environmental studies, permitting, design, and construction and operation services. Facilities have included compost facilities, landfills, landfill gas control facilities, and support facilities (e.g., roadways, stormwater, utilities). Other projects have included waste composition studies, compliance reports, and the preparation of various procurement documents.

Notable projects are described below.

Organics Management

Sonoma County, California, Compost Facility Design and Permitting. Project Manager responsible for the preparation of 30% design plans, initial public outreach documentation, and various technical studies to support the California Environmental Quality Act for a proposed compost site utilizing a covered ASP system. The proposed site is situated on top of a closed landfill and adjacent to an airport.

Barnstable County, Massachusetts, Compost Facility Feasibility Study. Project Manager responsible for preparation of a feasibility study for a regional coastal community compost facility that will process food waste and other organics into a usable end product. Tasks included a technology review for organics processing, site review, grants, and ownership models. Prepared an economic pro forma to estimate construction and operating costs. The initial facility was sized for 4 towns on Cape Cod.

Southeastern Connecticut Regional Resources Recovery Authority, Compost Facility Design and Permitting. Project Manager responsible for developing a food scrap compost facility, entailing several assignments, including a pilot test, a feasibility study, and local and state permitting. Provided aerated static pile compost equipment to conduct the pilot test. Prepared an economic pro forma to estimate construction and operating costs. Prepared permit applications for town zoning approval and CTDEEP approval. SCRRRA is made up of 12 towns in southeastern Connecticut.

Pierce County, Washington, Compost Facility Procurement. Technical Advisor responsible for vendor review and selection for expanding the composting facility at the Purdy Landfill. Tasks included RFP development, completion of 30% drawings, and evaluations through the bid and selection process.

Raleigh, North Carolina, Organics Management Feasibility Study. Technical Advisor responsible for preparation of a feasibility study that evaluated addition of food waste diversion services to the City's solid waste services. Evaluated options for organics collections within the City and options for processing the collected food waste.

McGill, South Carolina, Compost Facility Design and Permitting. Technical Advisor responsible for preparation of civil/site construction documents and the environmental permit applications for a biosolids composting facility. Tasks included topographic survey, geotechnical investigation, SCDHEC solid waste management permit application, stormwater permitting, and civil/site design.

FCC Environmental, California, Compost Facility Design and Permitting. Task Manager responsible for preparation of construction documents for new composting facility. Prepared process calculations and plans for a green waste-aerated static pile system and a food waste-covered static pile system. Provided remote monitoring and control system for the green waste system that allows for three modes of operation.

Blessings Blends, Delaware, Compost Facility Design. Project Manager responsible for the provision of design services for a poultry residual compost system, using in-building aerated static pile technology. Provided structural, mechanical, and electrical design plans. Provided remote monitoring and control system that allows for three modes of operation and monitors temperature and pressure to optimize the composting process.

Private Company, Florida, Compost Facility Design and Permitting. Project Manager responsible for provision of design services for a sugar residual compost system using open windrows. Prepared an economic pro forma to estimate construction and operating costs to allow evaluation of operating options, including aerated static pile and straddle turner configurations. Prepared civil design plans for zero stormwater discharge.

Chester County Solid Waste Authority, Pennsylvania, Evaluation of an Existing Compost Facility and Preparation of Grant Application. Project Director responsible for evaluating existing yard waste compost facility. Evaluated operating options, including aerated static pile and straddle turner configurations. Prepared process calculations and site plans for each option. Also prepared an application for funding via the United States Department of Agriculture Composting and Food Waste Reduction Cooperative Agreements FY2024. The Authority plans to install food scrap drop-off locations around the County (e.g., at libraries) to promote the diversion of food scraps from the landfill.

Tully Environmental, Inc., Pennsylvania, Compost Facility Design. Project Manager responsible for provision of design services for a biosolids compost system, using SG/Gore technology, for the Natural Soil Products facility. Provided structural, mechanical, and electrical design plans.

Private Company, New York, Anaerobic Digestion Facility Permitting. Project Manager responsible for preparation of solid waste and air permit modification applications for three anaerobic digester facilities. The owner will install renewable natural gas equipment at each facility to process the biogas. Existing biogas-fired engines will be retired or curtailed.

Private Companies, California and Nevada, Feasibility Study for Anaerobic Digestion. Technical Advisor responsible for preparation of a financial pro forma and letter report.

Private Company, Delaware and Maryland, Due Diligence Review for Anaerobic Digestion. Project Manager responsible for due diligence review of anaerobic digestion facilities for a potential investor. Reviewed process information/assumptions on existing operational facilities and facilities under construction, conducted site visits, and reviewed pro forma.

Private Company, Maryland, Compost Facility Design. Project Manager responsible for preparation of a conceptual design and layout of a large-size composting facility. Prepared process calculations and site plan to illustrate aerated static pile and windrow phases.

Santa Cruz County, California, Compost Facility Design and Permitting. Task Manager responsible for preparation of design plans and California Environmental Quality Act documents for a new composting facility. Prepared process calculations and plans for green and food waste aerated static pile systems.

Kittitas County Solid Waste Department, Washington, Compost Facility Design and Permitting. Task Manager responsible for preparation of construction documents for a hybrid composting facility. Prepared process calculations and plans to illustrate aerated static pile and windrow phases.

Los Alamos County, New Mexico, Compost Facility Design. Task Manager responsible for preparation of drawings for a hybrid composting facility. Prepared process calculations and plans to illustrate aerated static pile and windrow phases.

Chittenden Solid Waste District, Vermont, Design and Business Analysis for Expansion of a Compost Facility. Project Manager responsible for preparation of construction documents for expansion of a hybrid composting facility. Prepared process calculations and plans to illustrate the new windrow pad. Estimated the market need for organic transfer services and identified the level of District support needed.

Kern County, California, Compost Facility Design. Technical Advisor responsible for review of construction documents for a new composting facility. Prepared plans for a covered aerated static pile system using SG/Gore technology.

San Diego County, California, Compost Facility Design and Construction. Technical Advisor responsible for review of documents for the design and construction of a new composting facility. Prepared plans for a covered aerated static pile system, located on top of a landfill.

Private Company, North Carolina, Compost Facility Permitting. Project Director responsible for preparation of a Solid Waste Permit Application for a biosolids composting facility. Prepared erosion and sediment control documents, stormwater pollution prevention plan, and environmental justice documents.

Boulder County, Colorado, Compost Facility Design and Permitting. Task Manager responsible for provision of design services for a food scrap compost system using SG/Gore aerated static pile technology.

Grounds for a Peel, New York, Compost Facility Permitting. Project Manager responsible for preparing drawings and narratives for a State Registration for a composting facility. The facility accepted food scraps and used an aerated static pile system for processing.

Natural Grain, New York, Compost Facility Permitting. Project Manager responsible for preparing drawings and narratives for a State Registration for a composting facility.

Schenectady County, New York, Compost Facility Permitting. Project Manager responsible for preparing an operations and maintenance manual for a yard waste composting facility to support permit renewal.

Sullivan County, New York, Organics Management Feasibility Study. Project Manager for preparation of an organics management plan feasibility study that considered the diversion of organics from residential, commercial, and institutional generators and included a technology review for capture/collection and processing of organics. Tasks included siting, marketing, education, public outreach, and staff training.

Public Entities, Connecticut and Virginia, Compost Pilot Tests. Technical Advisor for two compost pilot tests, with test facilities in Virginia and Connecticut. Feedstocks included food scrap and biosolids. A total of five test batches were studied over 14 months.

Public and Private Entities, Massachusetts, Rhode Island, New Jersey, Windrow Compost Operations. Project Director for operations of six windrow compost facilities, managing yard, food, manure, and industrial food wastes. Tasks included site layout, permitting, and operations services, including provision and use of a truck-mounted mixer to mix food and leaves and a compost turner to turn the windrows.

Private Company, US Sites, Compost Standards and Regulatory Support. Project Manager for development of minimum, standard site criteria (design, construction, and operation) for compost production for a Fortune 1000 company. Provided regulatory support for various facilities operations.

Solid Waste Planning

Ontario County, New York, Transfer Station Study. Project Director for Solid Waste Management Program Assessment and Transfer Station Consolidation Study. Performed comprehensive review of existing County transfer station/convenience center system (including inventory of majority of County and Municipal solid waste facilities). Developed analysis report and program guide to assist with decisions regarding solid waste program and infrastructure development for County.

Development Authority of the North Country, New York, MRF Feasibility Study. Project Director for MRF feasibility study, considering installation of an MRF at one of three locations in the service area. Also, project manager for preparation of a solid waste management plan for Jefferson, St. Lawrence, and Lewis Counties in New York. Tasks included reviewing the current solid waste management system, reviewing solid waste management options, evaluating regulatory requirements, preparing cost estimates and life-cycle analyses, attending meetings and public hearings, and preparing a draft and final SWMP.

Landfill Engineering

New York City, New York, Closure Design for Fresh Kills Landfill. Project Manager for design of final cover, landfill gas, stormwater management systems, and preparation of construction documents. Project Manager responsible for designing the closure systems for Section 1/9 of the Fresh Kills Landfill (312 acres). Tasks included site investigations, wetlands studies, stormwater, wetlands, and solid waste permitting, design of final cover, landfill gas, and stormwater management systems, and preparation of construction documents for the closure. For prior project, tasks included design and engineering of Section 2/8 final closure, design and engineering of Section 3/4 final closure, permitting of stormwater management system, and design and engineering of Phase I stormwater management system.

Landfill Gas Management

Waste Management, Pennsylvania, LFG Processing. Project Manager for design and preparation of construction documents for landfill gas blower/dehydration station, including original system in 2017 and expansion in 2020. LFG is sent via a dedicated pipeline to the end user.

Publications and Presentations

McCarron, G. P. and Aldridge, D., “Designing a Sustainable Municipal Compost Facility,” Waste Advantage, August 2024.

McCarron, G. P. and Aldridge, D., “Planning and Development of a Public Compost Facility,” US Composting Council Conference, February 2024.

McCarron, G. P., “Compost Design and Technology,” Tennessee Compost Council State Chapter Conference, November 2023.

McCarron, G. P., “Organics Feasibility Study for Sullivan County,” New York Organics Summit, April 2023.