



Air Quality Services

Cost-effective services and solutions that achieve air quality compliance while supporting business operations

Diverse Staff with Hands-on Experience

Cornerstone provides air quality services that focus on achieving compliance in a cost-effective manner, while supporting our clients' business operations. We have assisted clients in the solid waste, industrial, pharmaceutical, and chemical process industries. Our range of clients includes iron and steel, printing, petroleum refining, utilities, petrochemicals, food manufacturing, surface coating, synthetic organic chemicals, synthetic rubber, and other chemical process sectors.

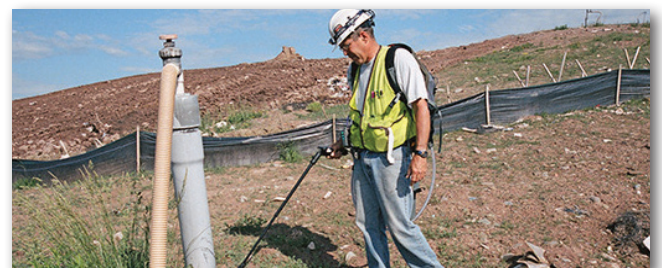
The company's air quality services personnel include a diverse mix of mechanical, chemical, civil, and environmental engineers, working alongside air pollution specialists with a depth of experience in all areas of air quality services. Many of our engineers have worked in industrial plants and have extensive hands-on experience in examining production processes from the perspective of emissions and byproducts.

As part of our air quality services, Cornerstone serves carbon trading markets by representing biogas owners selling greenhouse gas (GHG) emission reduction credits produced when methane in the biogas is destroyed or used in a beneficial way. Examples include fueling an electrical generation facility, powering a factory, or heating a greenhouse. Cornerstone serves as a key partner in several collaborative projects between landfills, energy developers, and the carbon emissions trading market. In addition, Cornerstone has developed feasibility studies and evaluation reports to advise clients on selling GHG emission reduction credits.

Recently, Cornerstone expanded its GHG capabilities to assist clients with state GHG reporting requirements and prepare for federal mandatory GHG emissions reporting.

What Sets Cornerstone Apart?

- Senior air personnel with 125 years of combined experience – Cornerstone's senior air staff is intimately familiar with the federal Clean Air Act and numerous state air programs, ensuring that our recommendations are tried and tested.
- Comprehensive services – Cornerstone's professionals have expertise in a full range of air quality services, from permitting to testing of new installations, as well as fluent knowledge of ongoing facility operating requirements.
- Client focus – Listening to our clients' needs and objectives and thoroughly understanding the daily and long-term challenges that owners and operators face.
- Long-term planning focus – Cornerstone strives to assist clients with their long-term planning needs, minimizing unknown variables and reactionary decision making, which costs valuable resources.
- Providing sound yet balanced business and technical solutions – Working with our clients to find technical solutions that also improve their overall business standing.
- Extensive regulatory experience – Several of Cornerstone's professionals are former regulators, and this background gives us an awareness of regulatory obstacles, fosters a smooth process and open communications, and aids in receiving timely regulatory approvals and acceptance.



Air Quality Services Provided

Permitting

- Air permitting - NSR (state-specific minor source and PSD/NNSR) and Title V
- Best Available Control Technology (BACT)/Lowest Achievable Emission Rate (LAER) evaluations/state-specific BACT/BAT
- Atmospheric dispersion modeling (toxics, NSR/PSD, state-specific requirements)
- Emission inventories

Compliance

- Air toxics health risk assessments
- NSPS/NESHAP/permit compliance support
- Compliance assessments/facility audits
- Source emissions testing review and oversight
- Greenhouse gas (GHG) services

Support Services

- LFG collection and control system O&M
- Ambient air monitoring/monitoring plan development
- Community awareness/public relations support
- Pollution prevention planning
- Risk management plan development and review
- Environmental information management systems



Recent Cornerstone Experience

Cornerstone prides itself on establishing close and productive relationships with its clients. A few recent examples of our air quality services assignments include:

Solid Waste Authority of Central Ohio (OH) – Title V, NSPS, and NESHAPs compliance reporting and assistance, multi-facility carbon footprint analyses, carbon credit calculations/assistance, synthetic minor permit to install application (avoiding PSD major source status), permit revocations and Title V permit application.

Ohio Facilities – Comprehensive air compliance services are provided at 21 Ohio facilities. Services include PSD/NNSR, Title V, NSPS, NESHAPs, and Ohio specific permitting/routine compliance.

Republic Services, Inc. (various states) – Assisted with determining the air compliance status of more than 250 facilities in 21 states. Analyses included emission unit inventories, individual state research and final reports, and findings provided in a master electronic dataset.

US Energy to Biogas Energy Solutions, LLC (IL) – PSD/NNSR facility planning evaluations for two independent alternative energy facilities. Evaluation included baseline emission unit inventories, comparative analyses of multiple power generation methods/alternatives, long-term emissions predictions and a condensed version of the PSD/NNSR requirements.

USEPA contractor (AZ) – Subcontractor on contract for oversight of a remediation effort for a large industrial facility. Services included ambient air monitoring, ambient air data analysis and support for a myriad of air related topics.



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