



Construction Quality Assurance Services

Ensuring proper operations - now and into the future

Proper construction with the owner's interest in mind

Cornerstone Environmental Group complements its facility design and permitting expertise with construction quality assurance (CQA) services. Our CQA teams provide oversight, construction monitoring, and engineering certification on all aspects of solid waste facility construction, including landfill baseliner with natural soil and geosynthetic materials, landfill gas and leachate management systems, final covers, and waste transfer stations. We also verify that installation of temporary management systems and controls is completed in compliance with applicable permits or regulatory guidance.

As the owner's on-site representative, we serve as a central point of communication, coordinating between earthwork contractors, geosynthetic installers, surveyors, and testing laboratories.

In the field, our technicians and construction monitors document construction and, guide construction to verify that the site's environmental and control features function properly upon completion.

Our CQA technicians also monitor contractor operations, manage geosynthetic material testing programs, conduct density testing of soil and clay liners, and prepare sampling programs for borrow areas to determine that the proposed material will meet the project specifications.



What Sets Cornerstone Apart?



• **Superior staff with a focus on clients** – Cornerstone's fundamental strength is its people, who share a philosophy rooted in providing superior service to our clients and facilitating the completion of construction projects on time and under budget.

• **Landfill design expertise** – With a long history of landfill design, our staff understands the individual components of landfill construction, and has developed proficiency in CQA tasks through a continual cycle of design, construction, and refinement.

• **Thirty years of solid waste regulatory knowledge** – Our staff's participation with regulatory agencies in the development of solid waste regulation gives us comprehensive understanding of the reason for construction requirements and experience in ensuring a facility will perform without incident once completed.



• **Excellent health and safety record** – We follow stringent health and safety procedures and are proud of our incident-free record in the field.



For more information, call
Mark Swyka (East) - (877) 294-9070
Steve Wintheiser (Central) - (877) 633-5520
Garth Bowers (West) - (877) 633-5520

Building lifetime relationships with our clients and employees.





CQA Services Provided



- Construction management and construction administration
- Construction monitors for oversight of materials installation
- Submittal review and management (shop drawings, quantity, payment, laboratory testing results)

- Test methods approval and observation
- Review of field and laboratory geotechnical and geosynthetic QA/QC testing
- Routine monitoring of contractor's sediment and erosion control practices
- Review of Contractor's Health and Safety Plan
- Preparation of a Health and Safety Plan for on-site Cornerstone personnel
- Review of contractor's work schedule
- Field testing and observation of the geomembrane
- Preparation of construction certification reports



Recent Cornerstone Experience

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



Orange County Department of Public Works (NY) – Construction support services, including management, oversight, and certification of a 675-ton per day transfer station/materials recovery facility (MRF) that includes a 15,000 square foot (sq ft) transfer station building, and an 8,000 sq ft recyclables handling pavilion.

Westside Transload LLC (NJ) – CQA and certification services for a construction and demolition (C&D) waste transfer-by-rail facility, including a 1,200-ton per day rail access C&D waste transfer/materials recovery building, a scale house/office building, and a recycling facility.

City of Riverview, Riverview Land Preserve (MI) – CQA services for the 13-acre Cell 5 liner system, the 2007 30-well LFG field expansion, and leachate system improvements, including forcemain, lift station, and gravity sewers.



Waste Management, Inc., Stony Hollow Landfill (OH) – CQA services for the installation of a dual contained leachate discharge pipe connecting an existing sanitary landfill underground leachate storage tank to an existing municipality sanitary sewer.

Allied Waste, Apache Junction Landfill (AZ) – CQA and certification services for the construction of a new landfill cell, constructed with a single composite liner over a 3.3-acre cell, including geocomposite drainage layer and leachate collection and recovery system piping.



For more information, e-mail info@cornerstoneeg.com or visit www.cornerstoneeg.com

