Landfill Design Services

Comprehensive landfill planning and design
Cornerstone provides comprehensive landfill planning and design services for all aspects of landfill development, including permitting, design engineering, construction, and operation. Our solid waste professionals emphasize efficient, compliant designs that accommodate growth.

Recognizing the physical, logistical, and regulatory aspects of each stage of a landfill’s lifecycle, our experts develop practical and cost-efficient designs that incorporate all necessary environmental monitoring and control systems.

Our base of experience in landfill permitting benefits from our nationwide presence and includes the full range of landfill projects, including greenfield landfill sites, horizontal or vertical landfill expansions, and modifications of existing permits to incorporate operational improvements or design enhancements.

Our experience includes municipal solid waste, construction and demolition, industrial, and hazardous waste landfills.

What Sets Cornerstone Apart?
- Proficiency with all aspects of landfill design and engineering – Industry-founding experts providing expertise in feasibility analysis, site characterization, facility design, permitting, and construction management.
- Practical, operationally efficient designs – Incorporating landfill sequencing to optimize present and future operations and accommodate future facility growth.
- Client focus – Listening to our clients’ needs and objectives and thoroughly understanding the daily and long term challenges that owners and operators face.
- Nationwide presence – Offering perspective and knowledge of local business and regulatory issues, we also incorporate successful regional, national, and international solutions.
- Providing sound yet balanced business and technical solutions. Working with our clients to find technical solutions that also improve their overall business standing.
- Incorporating innovative elements – Designing elements that maximize airspace, minimize the need for offsite leachate disposal, and optimize the location and configuration of site features, while saving space for future facilities.

Building lifetime relationships with our clients and employees
Landfill Design Services

Planning
- Master planning/feasibility analyses, including traffic, support structures and utilities
- Geotechnical and hydrogeologic site characterization and analysis
- Permitting
- Health and safety

Design
- Landfill baseliner
- Leachate collection and conveyance
- Overliner/piggyback systems
- Geosynthetics
- Reinforced walls/berms
- Leachate collection, storage and disposal
- Final cover (traditional and alternative)

Support
- Infrastructure (roadways, utilities, pumps, force mains) design
- Stormwater planning and design
- Operations sequencing and closure/post-closure financial assurance
- Construction phase services
- Air emissions analysis

Sustainability
- Bioreactor/leachate recirculation
- Biogas collection and control system design
- Landfill closure and reclamation

Recent Cornerstone Experience

Cornerstone prides itself on establishing close and productive relationships with our clients. A few recent examples of landfills for which we have provided a comprehensive range of services include:

City of Riverview, Michigan, Riverview Land Preserve (MI) – Landfill monitoring and inspection, construction forecasting, environmental monitoring, construction management and construction quality assurance (CQA), as well as leachate management and landfill gas system design.

Ocean County Landfill (NJ) – All core landfill and mission critical engineering services for this 300-acre private landfill since the 1980s, including designing and negotiating three major permit modifications and providing continued waste operations consulting.

Waste Management, Inc., El Coqui Landfill (PR) – Supporting the landfill’s ongoing strategic development, including development of new landfill footprint, landfill operations, and the implementation of final cover to minimize annual capital development costs.

Confidential Greenfield Landfill (AZ) – Under Cornerstone and for a prior firm, provided permitting, groundwater and landfill gas monitoring, preparation of cell design and construction documents, closure/post-closure cost estimates, construction management, and Title V air permitting.

Cape May County Municipal Utilities Authority, Cape May Landfill (NJ) – Providing engineering services for more than 15 years and instrumental in the design and implementation of two separate landfill reconfigurations/expansions with a total footprint of 115 acres; landfill is the first NJ landfill to use an all synthetic, double-composite landfill baseliner system.

Republic Services, Inc. Forest Lawn Landfill (MI) – Landfill design and permitting, landfill gas system, and air permitting and compliance services for two horizontal expansions, seven landfill cell construction projects, five landfill closure construction projects and numerous landfill gas system construction projects.

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

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