



# Solid Waste Engineering



LOCKWOOD KESSLER & BARTLETT INC.

*LKB has been providing solid waste management services to municipal and private clients for over 40 years.*

As a truly multidisciplinary company, we provide full service cost-effective solutions to our clients from a project's inception to completion. From the initial planning and permitting of landfills and transfer stations to groundwater remediation, landfill closure and site redevelopment, LKB is familiar with all aspects of solid waste management and any potential client need that may arise due to changing regulations. Our municipal and private clients have, and continue to, benefit from our cost-effective and innovative solutions.



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## *Landfill Design and Permitting*

Due to the various regulations and public involvement that can affect any landfill project, it is essential to retain a knowledgeable firm when embarking on this type of project. LKB has been in the forefront of designing and permitting landfills and is familiar with all the 6 NYCRR Part 360 requirements having designed multiple elements for new and expanded landfills.

Some of the essential systems and plans that may be necessary include: double and composite liner leachate collection systems and treatment facilities; landfill gas collection, treatment (H<sub>2</sub>S removal) and flaring systems; fill sequencing plans; hydrogeologic investigation plans; post-closure monitoring plans; contingency plans; environmental monitoring plans; operation and maintenance manuals; CQA/CQC plans and reports; seismic analysis reports; and public outreach programs.

In addition to these systems and plans, LKB enhances its offerings further to include infrastructure design services for scale houses, access roads, utilities (water/sewer/electric) and SCADA instrumentation systems. While permitting is an inherently important aspect of landfill design, we help our clients through the complete process, including preparation of contract documents, construction management and startup.



# Transfer Stations and Material Recycling Facilities

Communities are required to prepare Integrated Solid Waste Management plans, which may include collecting recyclable materials or more efficient means of transporting MSW. LKB provides the full range of services required for the development, permitting, design and retrofit of transfer stations and material recycling facilities.

Services that we have provided include permitting, design of structural, mechanical and electrical elements, construction management, surveying, startup and acceptance testing and condition surveys. LKB has also worked with many municipalities on the preparation of solid waste management and recycling plans, as well as waste-to-energy analyses and options.



*Town of Oyster Bay Transfer Station, Town of Oyster Bay, NY.*



*Westchester County MRF, Westchester County, NY.*



*Merrick Landfill/Norman J. Levy & Preserve, Town of Hempstead, NY.*

## Landfill Closure and Remediation

The closure and/or remediation of an old landfill is an extremely delicate process requiring experienced staff and corporate expertise. LKB has been providing landfill closure and remediation services for over 20 years.

We have first hand experience in assisting municipalities and private operators in Consent Order Negotiations with governing agencies; designing groundwater remediation systems; providing construction management for groundwater recovery and treatment facilities; capping and slurry wall installations; design of cap and end use plans; post-closure monitoring of landfill gas, groundwater and surface water; preparing EQBA funding applications; and interfacing with CACs.

The post-closure planning is an important facet when faced with a redevelopment option for a closed landfill. LKB can aid a community with this decision. In developing landfill end-use plans, we can offer the community new recreational facilities on inexpensive real estate, thus lowering the cost of community development and enhancement.

*Fresh Kills Landfill Slurry Wall and Site Work,  
New York City Department of Sanitation.*



*Ground Water Treatment Facility and On-Site Laboratory,  
Town of Oyster Bay, NY.*

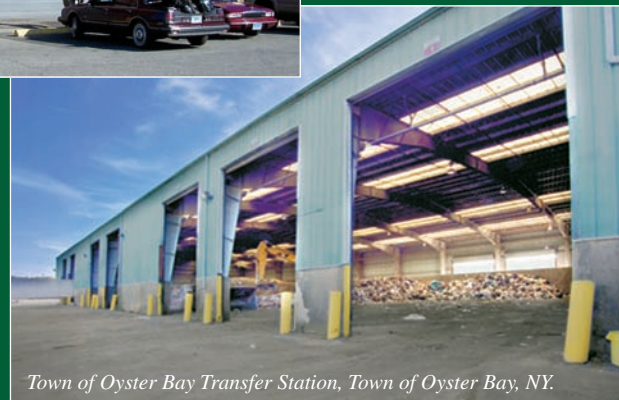
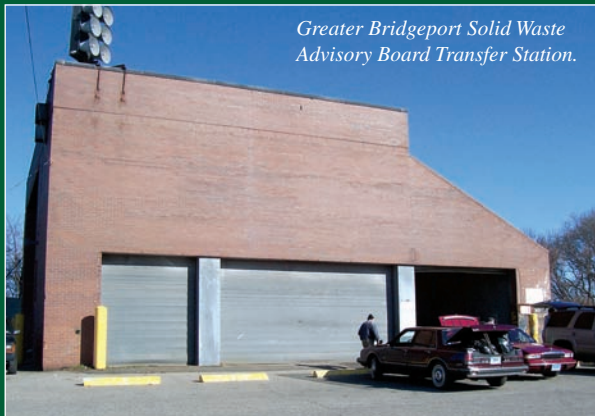


*Town of Islip Resource Recovery Agency, Blydenburgh Landfill Gas System Manifold Valve Pit.*



*Pond and aerating windmill on top of the Merrick Landfill/Norman J. Levy Park & Preserve conversion.*

*Greater Bridgeport Solid Waste Advisory Board Transfer Station.*



*Town of Oyster Bay Transfer Station, Town of Oyster Bay, NY.*



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