

Project Name

Landfill Post-Closure Maintenance

Client

Industrial Land Reclaiming, Inc.

Services Provided

- Evaluation of Development Alternatives
- Maintenance of Leachate and Gas Collection Systems
- Operation of Leachate Collection System
- Maintenance of Final Cover and Final Cover Vegetation
- Maintenance of Stormwater Management System
- Monitoring of Groundwater, Landfill Gas Migration, & Leachate Collection
- Maintenance & Monitoring of Disposal System



Project Description

Sadat Associates, Inc., was retained by the owners of the Industrial Land Reclaiming, Inc. (ILR) municipal landfill in 2005 to provide ongoing assistance in the post closure maintenance of the facility. The ILR landfill comprises approximately 160 acres and has a mound of waste extending over 100 feet in height. Closed and capped between 1985 and 1987, the landfill has both leachate collection and gas collection systems. Gas is sent to a nearby Utility authority.

Approach

SAI assisted the owners of ILR in evaluating a transaction by which a 40-acre portion of the landfill would be subdivided and sold to a warehouse developer. The warehouse developer submitted a revised Closure/ Post Closure Plan Remedial Investigation and Remedial Action Workplan. Since the landfill was already properly closed, the main concern was providing relief from landfill gas migration into the proposed 570,000 square foot warehouse. Minor waste relocation was also incorporated with the revised closure plan. The site development and subdivision plans were approved by Edison Township in the fall of 2007 and the necessary DEP permits were secured in late 2007. The property was transferred to the new owners early in 2008.

In October 2008, SAI took over the operation and maintenance of the Leachate management system at the site, in addition to the other post closure maintenance tasks that SAI performs for ILR to help them remain in compliance with all their permits and NJDEP requirements. The Leachate management system was designed and installed by another consultant in 2007. SAI took this task over in order to achieve design performance of the leachate management system, and to provide long-term maintenance during the 30 year post-closure period.

SAI manages all post closure activities at the site in accordance with the approved closure and post-closure plan. This includes maintenance of the final cover and final cover vegetation, maintenance of the



stormwater management system, groundwater monitoring, landfill gas migration monitoring, Leachate collection and disposal system maintenance and monitoring. SAI has also prepared and submitted a post-closure financial plan for all of these post-closure maintenance activities. SAI continues to assist ILR in these activities and in evaluating additional development concepts for the remainder of the property.