



Conestoga-Rovers & Associates **Project Summary**

KEY PROJECT ELEMENTS

- Design/Build
- Waste Consolidation
- RCRA Cap Construction

METAMORA LANDFILL CAP CONSTRUCTION LAPEER COUNTY, MICHIGAN



CLIENT: PRP GROUP
DURATION: 2000 - 2001
COST: \$4.6 MILLION

The Metamora Landfill is a former municipal landfill located within an inactive sand and gravel pit. During its operation, drummed industrial waste was disposed in two separate disposal areas. In 1989, under the direction of the Michigan Department of Environmental Quality (MDEQ), a significant amount of drums of hazardous wastes were transported to off-site thermal destruction facilities. The remaining drums were staged on an on-site drum storage pad.

In 1991, a group of Potentially Responsible Parties (PRPs) negotiated to complete the drum removal program and the final Remedial Design/Remedial Action (RD/RA) for the landfill. CRA was initially retained to provide technical assistance to the PRPs through a review of the Remedial Investigation/Feasibility Study (RI/FS) and RD/RA. The results of CRA's review led to the re-evaluation of the planned remedial activities. A site-wide remedial program was subsequently adopted.

CRA was then retained to complete the RD/RA for the site-wide remedy which included a landfill cap, groundwater extraction/treatment system, and incineration of 10,000 drums. Implementation of the final drum removal portion commenced in November 1993 and was completed in late 1994. The implementation of the final remedy involved the design and construction of a multi-layered cap. CRA initiated the design of the cap in October 2000. The design was finalized in April 2001 at the same time that construction commenced. CRA Services, the construction division of CRA, was retained to implement this phase of the project. The cap construction/design included the consolidation of waste materials, implementation of a Soil Erosion and Sediment Control Plan, construction of a 25-acre, multi-layer, RCRA cap, seeding and landscaping, and construction of an access road.

Construction activities were completed in October 2001. The project was performed within the schedule milestones specified within the consent decree.

The final scope of the remedy represents a saving on the order of \$20 to \$30 million compared to the initial concept that was being implemented by the State.

GENERAL INQUIRIES:
info@CRAworld.com

WEB SITE:
www.CRAworld.com