

SCOPE OF PROJECT

Metro Waste Authority (MWA) retained **BARKER LEMAR** to develop an application to allow MWA to see real-time cut/fill calculations for their landfill property. The application needed to be accessible inside an assigned MWA vehicle and be operator- and environmentally-friendly. Recently, this process was completed and **BARKER LEMAR** was tasked to add an additional unit and expand the existing application. The new system will incorporate area tracking and location navigation in addition to integrating the captured data with the existing geographic information system (GIS).



IMPLEMENTATION

BARKER LEMAR met with MWA to design a plan to create a user-friendly system that allows MWA staff to see the cut/fill levels of the landfill. The application runs on a touch screen tablet PC mounted into the compactor and connected to a survey-grade global positioning system (GPS). At startup, the system displays a map of the facility, the location of the vehicle, and the appropriate cut/fill calculations. It also allows the operator to monitor cut/fill in real time, as opposed to working off irregular surveying and management monitoring. The application also allows the user to track areas on the map and to set and find waypoints. Future expansion involves wireless technology to simplify operator involvement and increase data availability.



SERVICES

Custom programming of both desktop and tablet PC applications; customized report generation to allow internal review and compliance recordkeeping; integration into the existing GIS system; GPS integration.

TIMELINE

Project Start Date: February 2003

Project Completed: Ongoing