

Improve Waste Density

Increase Landfill Life

Construct to Plan

Build Outer Slopes
Exactly On Grade

Track Machine Performance

Receive Detailed
Performance Reports



GeoLogic
Computer Systems



GEOLOGIC ORION™ SYSTEM

The next generation of landfill GPS is here.





System Overview

The GeoLogic Orion™ Landfill System is a total landfill management solution powered by GCS: Density software. The Orion uses the most advanced, deflection-based software on the market to help landfills track their construction, compaction, and machine usage in real time.

The GeoLogic Orion™ system allows site managers to monitor daily practices and improve the efficiency of their machines. GeoLogic's patented real-time deflection method uses 2 cm accurate RTK GPS, and is the most accurate and most operator-friendly system available. The Orion is the only GPS system that can measure layer thickness and does not rely on pass counting and elevation change. These patented techniques ensure that GeoLogic is the only truly accurate GPS landfill system.

The Orion's patented on screen wheel tracks show the operators exactly where the machine has fully compacted the surface and where more compaction is needed. No other system clearly show the machines actual impact on the landfill surface.

Guiding Construction:

GPS-aided construction greatly reduces the time-consuming and expensive hassle of consulting surveyors. Operators using The Orion have constant access to the design information required to build to plan every time, eliminating costly accidental overbuild and under-fill, ensuring there is no wasted airspace.

Marking Special Waste:

The Orion allows you to mark the location of special waste, such as asbestos, sludge or any hazardous material and then export the data for your site engineers.

Site Management:

Density and volume reports assist managers in tracking compaction performance and provide immediate feedback on the effectiveness of operational changes.

Tracking Machine Performance:

The Orion allows you to view reports and statistics on individual machine movement and efficiency to evaluate machine performance.

Increasing Density

The GeoLogic Orion™ system was found to increase in-place waste density by 7-14% and in many of our customer sites we have seen density improvements greater than 25%. It increases the efficiency of your equipment and eliminates unnecessary machine usage, increasing your fuel savings and reducing machine wear.

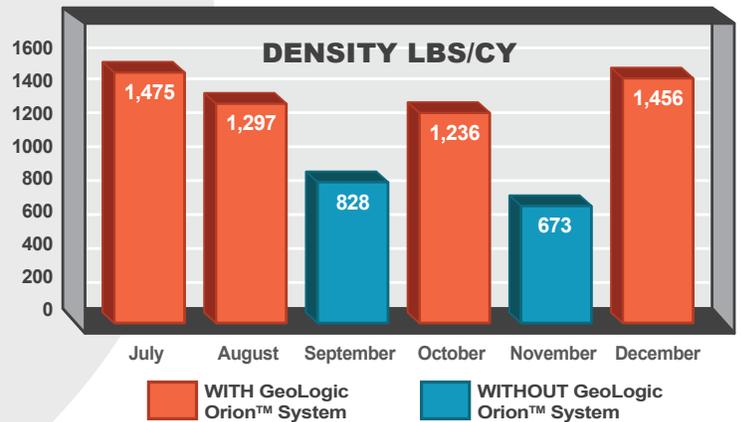


Figure: Sample of Outstanding Customer



United States Patent 8,718,941 United States Patent 8,370,067