



EMC SQUARED® SYSTEM

TOTAL ENVIRONMENTAL RESTORATION CONTRACT (TERC) AT FORT ORD



Total Environmental Restoration Contract (TERC) at Fort Ord US Army Corps of Engineers Monterey, California

Cost saving military base closures have been accomplished by significant environmental remediation requirements as these facilities are prepared for conversion to private sector utilization. The US Army Corps of Engineers is managing a Total Environmental Restoration Contract (TERC) at Fort Ord, California, adjacent to Monterey Bay. In one phase of the project old landfills were excavated and consolidated within a single newly constructed landfill cell. The access and haul roads traversed sand dunes as they connected various work sites and the road alignment was a constant series of hills and curves. With an extended construction schedule and haul of 600 daily trips by dump trucks, an innovative road building program was used incorporating products that would stabilize the aggregate base rock surfacing materials and leave them clean of contaminants so that aggregate materials are reusable for other road requirements once the access roads and haul roads were ripped up and removed at the completion of their use.



The roads were constructed with an aggregate base rock incorporating some crushed concrete material. This aggregate mixture was treated upon placement with EMC SQUARED® Stabilizer, a low cost concentrated liquid stabilizer, to strengthen the structural section. The compacted surfaces were then treated with a light armor coat spray application of an environmentally friendly emulsion treatment to further bind the surface and provide dust control. The contractor maintained the haul roads with light sprays of the emulsion treatment applied as needed with their water truck from a bulk storage tank located on site. The haul road functioned as an efficient production tool and operations staff report that this combination treatment “worked great”. The contractor was able to operate their access and haul roads for over a year without a single dust complaint. Haul trucks operated at nearly 100 percent availability, clearly demonstrating the cost-effectiveness of these advanced road construction product technologies on haul equipment efficiency.

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