

STABILIZATION OF FINAL CLOSURE CAP FOR HAZARDOUS WASTE LANDFILL

Compacted soil treated with **EMC SQUARED®** Stabilizer provides for the final cover of closure caps on hazardous waste disposal cells located in an arid desert environment, east of San Diego and just north of the border with Baja California, Mexico. Due to the lack of rainfall, vegetative cover is not a feasible option for a long term erosion control at this state-of-the-art facility in Westmorland, California. As an alternative, an innovative soil stabilization technology was submitted for regulatory approval by IT Corporation. Based upon a review of stabilization projects developed by Soil Stabilization Products Company (SSPCo), the State of California permitted erosion resistant final covers consisting of twelve inches of soil stabilized with treatment technology recommended by SSPCo.



The locally available soils used for the soil covers are categorized as silty and sandy clays. A total of two feet of compacted soil is placed over the geosynthetic membrane barrier systems. Specifications call for placement of the cover soil in two lifts, each compacted to a minimum thickness of twelve inches by sheepsfoot rollers. The top twelve inch lift is treated with the **EMC SQUARED** Stabilizer. The final surface is trimmed, compacted with a smooth drum roller, and then additionally protected by an erosion resistant spray treatment also provided by Soil Stabilization Products Company. Similar to other landfill facilities and environmental remediation sites where SSPCo products are often utilized to solve a variety of requirements such as stabilization of unpaved roads, erosion control, and dust control, this hazardous waste disposal facility operator also uses SSPCo products to address permit requirements for dust control and erosion control treatment of other working areas at the site.



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