

### Kraft Foods - Capri Sun Warehouse Addition Granite City, Illinois



**Description:** 360,000 square foot manufacturing facility addition requiring three to eight feet of new fill to raise site grade out of Mississippi River flood plain. Design floor slab pressure was 700 psf.

**Subsurface Conditions:** Eight to 15 feet of soft to firm alluvial silty clay, clay, and clayey silt underlain by medium dense to dense silty sand. Groundwater was encountered near the ground surface.

**Design Details:** *Geopier*® soil reinforcing elements were installed on a 14-foot grid pattern beneath the building footprint. The elements were used to support five feet of new lime-stabilized fill above the *Geopier* zone as well as the slab on-grade. An elaborate testing program was performed at the site including settlement monitoring and pressure plate measurements. A total of 2,100 *Geopier* elements were installed by Foundation Service Corporation in approximately one month, saving the owner between \$250,000 and \$500,000 compared to the alternative options.

**Geopier Designer & Installer:** GFC - Midsouth; Foundation Service Corporation

**General Contractor:** The Korte Company

**Owner:** Kraft Foods, Inc.

**Geotechnical Engineer:** Phillip Environmental

**Structural Engineer:** LJB, Inc.

**Reference:** Mr. Allen Minks, PE - SCI Engineering (636) 949-8200