

# CASE FILE



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SITE CIVIL IMPROVEMENT ↔ EROSION CONTROL ↔ SURFACE WATER QUALITY

Geopro® Learning Tool

September 26, 2008

## Allegan Municipal Airport, Allegan, MI

### Geopro® Matrix - performance from a hydraulic mulch

Airports and other large pavement areas often present special challenges to designers and contractors when establishing vegetation on the surrounding disturbed soil areas. Sheet and shallow concentrated flows deliver high stress conditions immediately adjacent to the pavement. And these stresses compound over grades that fall away from the pavement. Such were the conditions at *Allegan Municipal Airport* during the July 2008 vegetation re-establishment project phase following the construction and resurfacing of both a runway and taxiway.



Looking west from east end of taxiway

24 hrs after placement, followed by nearly 5 weeks of inconsequential precipitation, the **Geopro Matrix**-protected seed germinated and established. No remedial work was required to fill rills or gullies.

**Geopro Matrix** is composed of virgin wood fibers, recycled paper, organic reinforcing fibers and **Silt Stop**® binder. Simple in composition, easy to mix and shoot, yet dynamic in performance benefits, **Geopro Matrix** is well-suited for difficult to simple site applications. Additional information regarding this product is available on [our web site](#) or by contacting your *Regional Representative*.

**Silt Stop** is a trademark of Applied Polymer Systems, Inc.



Geopro Matrix - Application on east end of taxiway

To control these stresses and assist in vegetation establishment, *Diane Dukes & Company, Inc.* turned to **Geopro Matrix** hydraulic mulch to protect the near-pavement soils, drilled seed and fertilizer. In addition, **Geopro Matrix** provided the critical soil-seed-amendment protection on slopes receiving the pavement enhanced flows. Even with a moderate to heavy rain event within



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