

VDOT - Infiltration Trench

Route 10, Hopewell, Virginia - July 2004

The Problem

Runoff from this embankment and Route 10 in Hopewell, VA ran downhill, crossing the road above Bailey's Creek creating a major road problem which constantly had to be repaired.

Drainage of the embankment and road base would continue for days after a rainfall, as illustrated by this photo, taken five days after a storm.



The Solution

VDOT workers cut a ditch and installed RainTank in the swale. With 90% void surface area and 95% void internal area, RainTank was an ideal choice to capture and carry water to a safe discharge area.

Once the tanks were wrapped in fabric, the swale was backfilled with sand and graded, compacted and seeded.

Four weeks after the installation, this area received 14 inches of rain in less than 24 hours. The system worked perfectly while suffering virtually no erosion.



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