



# ACCOMACK COUNTY NORTHERN LANDFILL MSW LANDFILL

### LOCATION

Accomack County, VA

### OWNER

Accomack County

### ENGINEER

CHA Consulting, Inc.

### SIZE

10 Acres

### DATE COMPLETED

2017

### PROJECT DESCRIPTION

Accomack County chose ClosureTurf® for its landfill closure of Cell 2 based on proven performance as well as environmental and cost benefits. The product solved the landfill's sandy soil erosion issues, significantly reduced the short and long-term maintenance costs and minimized the carbon footprint of the landfill closure.

ClosureTurf was uniquely positioned to solve challenges posed by the Accomack County Northern Landfill, which is located on a peninsula-like area on the eastern edge of the Commonwealth of Virginia.

In this geographic region, sandy soils easily erode making it difficult to maintain a traditional vegetated cap. In fact, the traditional closure of previous cells experienced significant erosion during construction due to heavy rains typical of the eastern shore of Virginia.



ClosureTurf® allowed for a benchless design of the landfill's side slopes.



# ACCOMACK COUNTY NORTHERN LANDFILL

## KEY BENEFITS

- Eliminated the need for 20,000 cubic feet of barrier soil required for a traditional vegetated cap, saving 1,000 truck trips to move soil to the site, reducing the carbon footprint of the closure by 80%.
- Reduction in soil layer provided an additional two feet of airspace for waste disposal.
- Benchless design provided cost savings, made construction faster and improved the overall stability and erosion control.
- The use of ClosureTurf reduced project costs by eliminating the need for 20,000 cubic yards of soil to cover the geomembrane liner. This saved approximately 1,000 truck trips, improving safety and reducing the carbon footprint during construction by 80 percent. The benchless design also reduced costs associated with benches and/or diversion berms and allowed for a faster construction period.

- Significantly reduces the post-closure maintenance cost at this landfill.
- Provides an aesthetically pleasing facade as it is the first thing the public sees when arriving at the landfill.

Additionally, a traditional landfill closure requires post-closure maintenance activities, including storm water management, repairing erosion of the soil/vegetation barrier and mowing the grass on the cap. ClosureTurf will significantly reduce long-term maintenance costs over the life of the cover.

ClosureTurf looks like natural grass and is aesthetically pleasing. This is important because the north face of Accomack's Cell, which is covered with ClosureTurf, is the first thing the public sees when arriving at the landfill.



Snowfall on Accomack Landfill in 2017. ClosureTurf stands up to the harshest of conditions.



The use of ClosureTurf created an additional two feet of air space for waste disposal, providing a great economic benefit.