



Customer: Norfolk Southern Corp.

## Headworks® Bar Screen Takes on Railway's Bottle Cap Challenge

Norfolk Southern Corporation is an environmentally conscious company. They pride themselves on the fact that every one of their trains can take up to 300 truckloads of freight off of our congested highways! But as a company, they go much further in being Green. Their policy for creating a better environment includes efforts to adopt clean technologies at their facilities. Recently they improved the treatment of stormwater runoff which collects at their fuel servicing area in Knoxville Tennessee.

Norfolk Southern looked to a consultant to draw up a solution for this problem. The engineering consultant, Bob Stolt of Consoer Townsend Envirodyne Engineers ("CTE Engineers"), evaluated the situation. The large concrete servicing area at the yard collects oil, fuel, sand, water, residue and other debris.

Mr. Stolt recommended Headworks® to manufacture and install their Bar Screen to

collect the solid debris. Small bottle caps were of special concern to the filtering process, so ¼" bar screen opening was specified to keep them from obstructing the process.

The screen drops the solids debris into a hopper to avoid clogs as the water travels to the treatment plant. The Norfolk CTE Screenings System incorporates a Headworks Bar Screen in a Black Box™, an integrated enclosure system that takes the place of external channels. The MS screen was designed to pivot up in the Box to a horizontal position for easy maintenance and servicing.

Mr. Bob Ford, General Foreman of the Locomotive Shop at the Yard said of the screen, "We are just tickled to death with the screen! It's doing a great job. We don't have to do anything – it just takes care of itself. We have no maintenance issues."



### KEY FACTS

- Channel Depth: 5'
- Channel Width: 2'
- Q max: .5 MGD

