



## **CASE STUDY**

### **FAZTEC INDUSTRIES RECYCLING & MATERIALS REPLACES WHEELWASH WITH A PORTABLE FODS REUSABLE CONSTRUCTION ENTRANCE**

#### **FAZTEC INDUSTRIES RECYCLING & MATERIALS**

Faztec Industries offers a wide range of construction site debris management services to contractors and industrial customers throughout the five boroughs of New York. Their services include roll-off containers, rubbish removal and hauling services as well as recycled aggregate materials. The plant located on the west side of Staten Island serves as both a transfer station for construction debris and a recycling operation. The site receives masonry debris, producing crushed aggregates as well as recovering metals.

#### **NPDES COMPLIANCE ON NEW YORK RECYCLING PLANT & TRANSFER STATION**

EPA regulations specify containment measures to prevent sources of pollution and sediment from being deposited into surface waters to protect water quality and wildlife. One requirement is the establishment of control measures to minimize sediment track-out onto off-site streets from vehicles as they exit the site. With daily loads exceeding 500 trucks, Faztec Industries carefully monitors all BMPs in use and explores potential improvements to ensure compliance.

For the last decade the site access on the North side of the plant utilized a diesel powered wheel wash to clean vehicle tires before they exit onto the roadway. The pressurized washing station employed a water recycling system to improve efficiency and reduce excess water in the area. After many years of use, Faztec Industries evaluated alternative solutions which could operate more effectively and reduce water that was pooled near the access points. Faztec Industries reached out to Essco Truck and Equipment to acquire an alternative BMP system which could improve the sediment containment on the North entrance.

#### **FODS CONSTRUCTION ENTRANCE BMP FOR INDUSTRIAL SITES**

Essco Truck & Equipment supplied the FODS Trackout Control System which was chosen to completely replace the diesel powered wheel wash system. The FODS system includes pyramid shaped protrusions on the surface which deform vehicle tires and dislodge debris from between the tread lugs. Because FODS is a passive mechanical system, it can be operated without a source of water or external energy.





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In addition, this system is portable and can be easily moved when trucks need to take an alternate route through the site. After installing this system, Faztec Industries noted an immediate improvement of sediment track-out containment and improved compliance with NPDES permit regulations. Essco Truck & Equipment supplied the FODS Trackout Control System which was chosen to completely replace the diesel powered wheel wash system. The FODS system includes pyramid shaped protrusions on the surface which deform vehicle tires and dislodge debris from between the tread lugs. Because FODS is a passive mechanical system, it can be operated without a source of water or external energy. In addition, this system is portable and can be easily moved when trucks need to take an alternate route through the site. After installing this system, Faztec Industries noted an immediate improvement of sediment track-out containment and improved compliance with NPDES permit regulations.

#### **EFFECTIVE MODERN BMP ENTRANCE**

After installing this effective trackout control system on the concrete access road on the North Entrance, Faztec Industries was able to reduce both operating and maintenance costs compared to other BMP techniques.

In the first month of using FODS, Faztec Industries was able to save \$3,250 worth of diesel fuel and \$1,250 worth of water. With an expected life span of 10 years, this one entrance will potentially save plant over \$500,000 in operating costs alone. The FODS Trackout Control

System has many applications for debris containment and are often used for construction sites where each phase requires the establishment of a new access point location. Similarly, Faztec Industries routinely reroutes traffic as materials accumulate around the lot. The mats can be anchored over dirt, concrete, and asphalt and can be transported using a standard utility trailer. This flexibility allows operators and contractors to relocate their entrance in under an hour to meet demands of the workload. Contractors using traditional rock stabilized entrances on their projects can calculate their ROI when switching to FODS.

