

## innovative turf solutions

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### Metals Manufacturing Facilities

The USEPA has developed treatment requirements to mitigate storm water contamination in the metalworking industry. These requirements are implemented through Best Management Practices included within the state approved Storm Water Pollution Prevention Plan (SWPPP).

The current methods of reporting within the SWPPP are collecting rain water samples during storm events at designated points on the industry's property and then sent to a state certified lab for analysis.

Current filtration systems and methods have been ineffective in removing the “heavy metals” from the runoff water and only catch larger debris and sediment leaving the heavy metals and fines in the runoff water.



A combination of GeoHay Bales and Floc Bags were installed in the metals manufacturing facility to reduce their heavy metals in the stormwater runoff from the facility to be in compliance of current state limitations. Results with the reductions are shown below.

Contaminant	Before Treatment	After Treatment
NTU	370 mg/l	11 mg/l
Aluminum	6700 mg/l	970 mg/l
Copper	550 mg/l	30 mg/l
Iron	8300 mg/l	470 mg/l
Zinc	2200 mg/l	130 mg/l