

HC-2000 Reduces Odors at Soy Protein & Decaying Organics at Derailment Site

Location: Northwestern Georgia

Client: Major Railroad

Contract Amount: \$40,000

PROBLEM

Remtech was engaged by a railroad to remediate a derailment site where soy protein, flour, and rice had been released. Organics began to decay liberating offensive odors to residents and leachates threatened a nearby stream.

SOLUTION

The following remedial action was implemented by Remtech Engineers:

Pumped 1,000 gallons of leachate from a leachate pool and treated with two granular activated carbon filters in series and released to stormwater ditch.

Excavated 470 tons of pond sediment, soil, and ballast and staged in biopile on north end of site. Straw bales were placed on downgradient side of pile for erosion control and the pile was covered with plastic.

Treated approximately one-acre of residual soils with powdered activated carbon and HC-2000. Odors and flies were dramatically reduced following the completion of excavation operations and application of the odor control agents. The area was also treated with powdered agricultural lime to further reduce odors.

A decision was made by the railroad to dispose of the biopile material rather than degrade on site to avoid potential residential complaints. Twenty-nine truck loads were hauled from the site and disposed at a landfill.

COST/BENEFITS

Nuisance odors were reduced and avoided further residential complaints.



Derailment Site



Leachates Treated with Activated Carbon Filters



Organic Laden Soils Extracted From Site



Carbon, Lime, and HC-2000 Odor Control



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