Case Studies Using Apollo Greenzyme™ Technology

Client: Pilot plant studies of K-waste (K-049) from TWI Inc.

Operator: Joint programs by TWI Inc. and Syndetix Inc.

Location: Syndetix plant in Mesquite, New Mexico.


Problems: A pilot plant study for cleanup of an aged slop oil tank, which contained about 600 barrels of K-049 wastes. This waste was comprised of about 80% by volume of heavily aged hydrocarbons, with 20% by volume of bottom water and sediments. The waste had a high viscosity, similar to 15 degree API crude, with high solid content and solid precipitations.

Solutions Apollo Greenzyme™ AG-280 (3% solution) was added to the slop oil tank with rigorous mixing and agitation, followed by solid-liquid separation and oil-water separation using the Apollo oil-water separator.

Results: After the treatment process, effluent water and oil samples were collected from Apollo oil-water separator for laboratory analysis; the solid sediments were cleanup during the Greenzyme process for land disposal.

This field test was a complete success. The formal laboratory analysis shows the complete recovery of hydrocarbon oil and Apollo Greenzyme™ solution, as well as cleaned solid sediment, which meets legal land disposal permits.