

CASE HISTORY: Houston, Texas - Mill Scale Cleaning (Hydrocarbon Contamination)

March 2000:

North Star Steel, Inc., a manufacturer of drill pipe, called Synergistic Technologies, Inc. to clean approximately 90 cubic yards of mill scale (prilling produced from pipe production) and remove 8,000 gallons of wash water from their equipment wash rack.

It was Synergistic's job to move a skid-mounted cement mixer in place to be used as a washing machine upon the loading of approximately 6 to 8 yards of mill scale and 100 gallons of MicroSolv and freshwater (1 to 10 ratio). The process ran in 20 minute cycles, and then the washed media was unloaded into a front-end loader and removed to a staging area for air drying.

The initial background TPH (Total Petroleum Hydrocarbons) level was in excess of 35,000 ppm, and upon completion of the cycle, it was immediately reduced to less than 1,000 ppm. The mill scale was then sold to a cement company to be utilized in the manufacturing of reinforced concrete.

Synergistic then moved over to the wash rack and removed the wash water and loaded it in two 5,000 gallon poly holding tanks. Once the movement of the water was completed, MicroSolv was introduced into the holding tanks and rolled with a two-inch trash pump. Upon completion of the process, the TPH level was reduced from 15,000 ppm to less than 500 ppm in less than 24 hours.

Conclusion:

Synergistic Technologies, Inc. was able to reduce the high level of TPH in wash water and mill scale by over 95 % within a matter within a matter of hours, thereby turning a deficit into an asset.