

Rotary Kiln

R-04-08 / ADELANTO - EXXON

LOW TEMPERATURE THERMAL DESORPTION OF TPH CONTAMINATED SOIL FROM VARIOUS GAS STATIONS IN SOUTHERN CALIFORNIA

Context

ExxonMobil owns and operates a large quantity of gas stations in Southern California. In accordance with their general environmental policies, as well as California State regulations, those gas stations need to be cleaned-up and put in accordance with current legislation.

Therefore, Exxon Mobil has remediated over 150 gas stations in Southern California in the last 10 years, where the TPH contaminated soil was sent for thermal treatment to the Adelanto (CA) facility, owned and operated by Deep Green / Haemers technologies.

Equipment

Contaminated soils were processed by a counter flow, direct fired LTDU (Low Temperature Desorption Unit) with nominal capacity of 70 tons (US) per hour. The equipment train included a pre-screener, belt scale conveyor, rotary dryer, fabric filter baghouse, thermal oxidizer, soil moisturizer, and radial stacker. Natural Gas was used as process fuel.



Key facts

Contaminants
TPH

Max. Concentration
20000

Volume
9375

Tonnage
15000

Number of Heating Tubes

Temperature Target

Heating duration

Treatment Targets
<50

Location

Future Use

Client

Partner

Consultant

Date
2004

