

Rotary Kiln

R-03-05 / COLDBAY

THERMAL DESORPTION OF TPH CONTAMINATED SOIL
FOR ARCO, LOS ANGELES (CA-USA)

Context

ARCO 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, ARCO has remediated over 100 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.

Treatment/Clean Up Targets

The soil to be treated contained TPH concentrations up to 15,000 ppm. All soils were cleaned down to a-less than 50 ppm TPH. Air emissions were in accordance with the local air permit conditions. (Air permit is available on www.deep-green.com in the permit section.)



Key facts

Contaminants

TPH

Max. Concentration

17500

Volume

10625

Tonnage

17000

Number of Heating Tubes

Temperature Target

Heating duration

Treatment Targets

<20

Location

Future Use

Client

Partner

