

Rotary Kiln

R-97-01 / FORT LEWIS

LOW TEMPERATURE THERMAL DESORPTION OF TPH CONTAMINATED SOIL AT THE FORT LEWIS SITE AT A FIXED FACILITY IN TACOMA (WA).

Equipment

Contaminated soils were processed by a counter flow, direct fired LTDU (Low Temperature Desorption Unit) with nominal capacity of 35 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 and recycled oil were 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

15000

Volume

281250

Tonnage

450000

Number of Heating Tubes

Temperature Target

Heating duration

Treatment Targets

<50

Location

Future Use

Client

Partner

