

A Honolulu brownfield, cleared for redevelopment.

25,000 tons of fuel-impacted soil treated on site in Honolulu and reused as backfill, clearing the way for the property transfer and commercial redevelopment.

TANK FARM BROWNFIELD · HONOLULU · HAWAII

25K tons
Treated, 16,000 m³

250 m³/day
Sustained production

100 %
Reused on site as backfill

THE WORK

A full on-site low-temperature thermal desorption train: weigh-scale feed system, rotary drum desorber, baghouse filtration, thermal oxidizer and treated-soil handling, with operating temperatures logged through the campaign.

The feedstock was difficult, heterogeneous sand, coral, ash and debris including material excavated below groundwater. Operations ran two 12-hour shifts with three operators per shift, taking roughly one day in fourteen for planned maintenance.

PROJECT RECORD

CLIENT	Property owner, through the prime environmental consultant
SITE	Former tank farm brownfield, Honolulu, Hawaii
EQUIPMENT	RS-20 low-temperature thermal desorption train with thermal oxidizer
SCHEDULE	An eight-month program, mobilization to demobilization
PERMITTING	Hawaii DOH Permit 0682-01-N

NELSON ROLE	Thermal remediation subcontractor: plant, crew and operations
CONTAMINANTS	Gasoline, jet fuel and diesel hydrocarbons with PAHs and solvents
VOLUME	25,000 tons (16,000 m³) at approx. 250 m³/day (approx. USD $2 million)
CRITERIA	100 mg/kg TPH-gasoline · 500 diesel · 500 oil
RESULT	All soil below criteria and reused on site. Property transfer completed

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