

ESTD

E-13-05 / KINKASI FULL SCALE

Context

The project took place in Kinkasi, Democratic Republic of Congo, on the site of an oil tanker Industrial. The floors were impacted by crude oil to average concentrations of 15,000 mg / kg.

Description

grit treatment impacted by the hydrocarbons was performed according to the method of the thermal battery; NSR IndustryTM, developed by TPS TECH. In first phase, a pilot was carried out on site in July / August 2012. It preceded the execution of the full scale which begins in late February 2013 and will involve the treatment of a minimum of 12 000 tonnes of impacted sands.

The pilot was carried out on a sandy mound of 60m³, equipped with heating tubes 5, 5 burners and exchanger tubes 2. The full scale will be realized on the basis of 6 batches of 2,000 tonnes each. The hot air from the batch being processed will be reused for pre-heating the batch n° 1 in order to optimize the processing time.

Treatment Target

After treatment (28 days of heating), the average concentration of the pilot samples showed a value of 3660 mg / kg sc, for a target of 5000 mg.kg ms. The goal has been reached.



This project was designed and built primarily by the team Haemers Technologies.

Key Facts

Contaminants
TPH

Max. Concentration
65000

Volume
190

Tonnage
12000

Heating Elements
234

Target Temperature
250

Heating Duration
30 days / batch

Treatment Target
<5000

Area
Industrial

Future Use
Industrial

Consultant
none

Date
2013





Key Facts

Contaminants

TPH

Max. Concentration

65000

Volume

190

Tonnage

350

Heating Elements

6

Target Temperature

250

Heating Duration

45

Treatment Target

<5000

Area

Industrial

Future Use

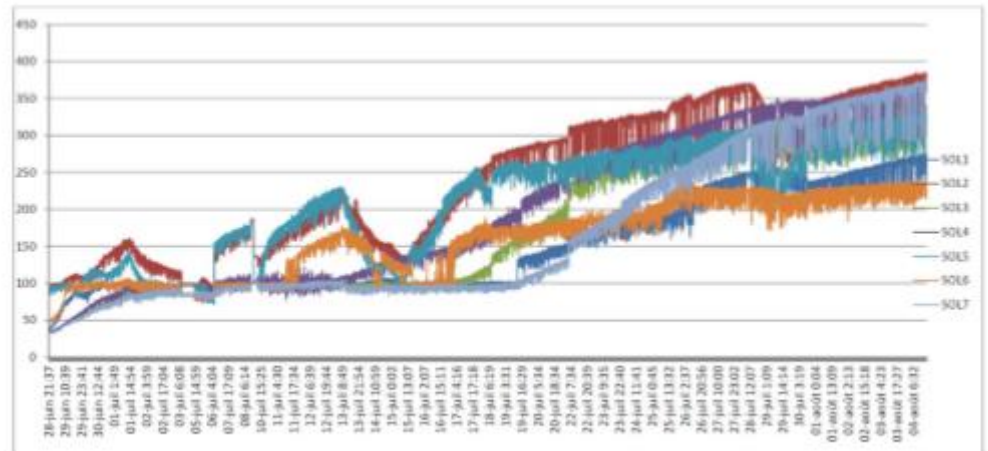
Industrial

Consultant

none

Date

2012



Smart Burners™ Pilot build-up:

