ESTD/ E-19-10
SAINT-NAZAIRE (FR)

Context & Project Description

This site was part of a rehabilitation project in an urban area of the city of Saint-Nazaire (France). The contamination of the site was presumably caused by the previous activities of a gas plant. Two ESTD piles (respectively 1.500m³ and 2000m³ of soil) were built to treat the contaminated soil.

Equipment

75 Gas Fired burners with the reburn technology.

Treatment target

Hydrocarbons C10-C40 < 2.250 mg/kg
BTEX < 1.6 mg/kg
PAH < 500 mg/kg

Monitoring

Soil temperature in cold points
Soil Pressure
Burner combustion gases
Chimney Emissions (with activated carbon filter)

Planning

October 2019 to February 2020 for pile 1
November 2020 to January 2021 for pile 2

Conclusion

All the soil was remediated from its original pollution, with all samples below targets.

Key words

Contaminants
THC (C10-C40)
BTEX
PAH

Max. concentration
C10-C40: 33.000 mg/kg DM
BTEX: 20 mg/kg DM
HAP: 12.000 mg/kg DM

Volume
3.500 m³

Tonnage
6720 T

Nb of heating tubes
75

Temperature Target
250°C

Project duration
65 days per pile

Treatment targets
C10-C40: 2.250 mg/kg
BTEX: 1,6 mg/kg
HAP: 500 mg/kg

Location
Saint-Nazaire, France

Future Use
Commercial Area

Client
/

Partner
Séché Eco Services

Consultant
/

Date
2019-2021