

LNAPL SKIMMING/ D-16-03 FLAWINNE (BE)

Origin of the incident

Crack in the filling conduit of storage tanks.

Pollution description

On a surface of a few acres, a diesel free phase of a few centimeters, with a migration of the free phase towards the nearby canal.

Geography and nature of the terrain

- Along a canal
- Fill, sand, silt, clay and rocks

Variability of the groundwater

- Average depth of aquifer 4.0 m below ground level
- Variability of aquifer +/-1 m

Solution implemented

- Emergency response shortly after discovering the incident.
- Delivery and implementation of a pumping unit DS 500-12 accompanied by a 1m³ outdoor storage IBC.
- Placement of a floating dam on the canal with free phase suction using a SKIMMER 600.
- Digging of 6 open pits with a 4.5 m depth, of which 4 were subsequently lined. Wells were equipped with 2 SKIM 4-25 moved from well to well according to the needs. The pits were equipped with SKIMMER 600.
- Recovery of HC in the excavations, no draw-down in the first phase. Subsequently, drawdown was set up to block migration towards the canal.

Results

- Over a period of 8 months, recovery of 6M³ of pure product.
- 90% of the total volume were recovered during the first 4 months.



Key words

Pollutant
Diesel

Nb of Wells
6 wells

Depth
4 m

Pumping Unit
DS 500-12

Skimmers
SKIM 4-25
SKIMMER 600

Location
Flawinne, Belgium

Client
JOASSIN

Date
2013-2016