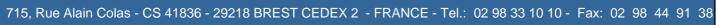


AMBES OIL DEPOT

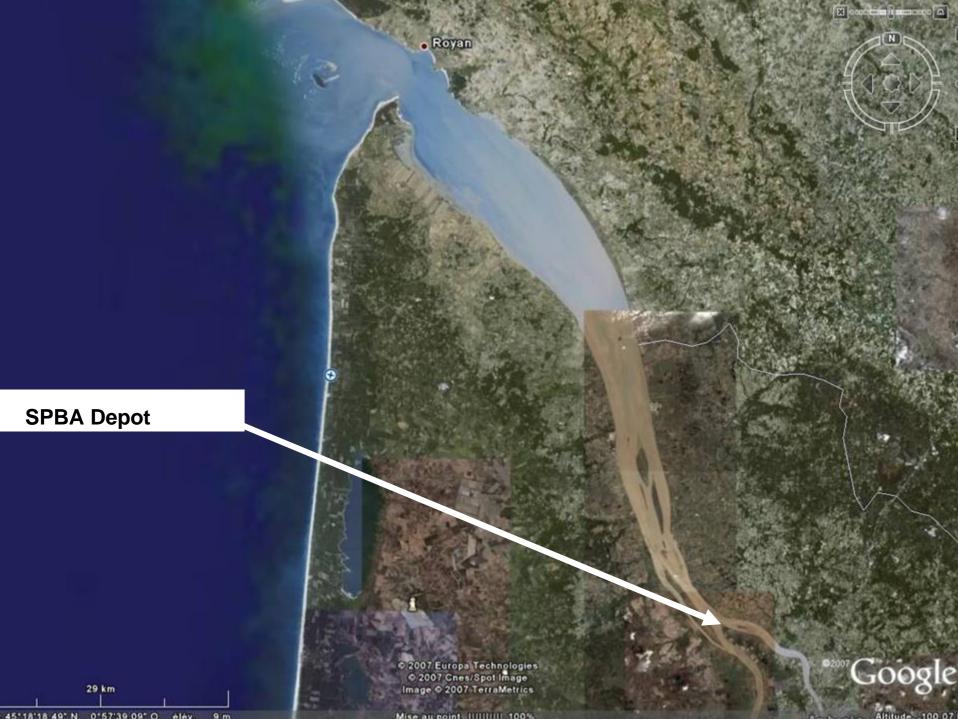


INFORMATION DAY OF CEDRE 22 MARCH 2007

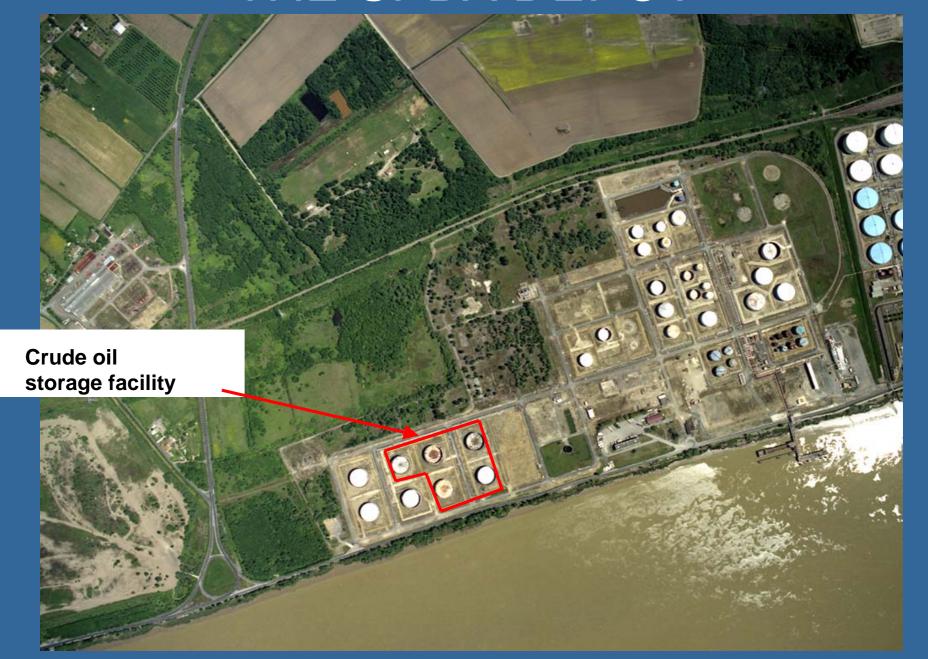
A. Guéna, M. Laurent, E. Poupon







THE SPBA DEPOT



Friday 12 January 2007 – 8am Rupture of tank 1602 Loss of 13,500 m³ of crude oil



Resistance of tank but wave effect

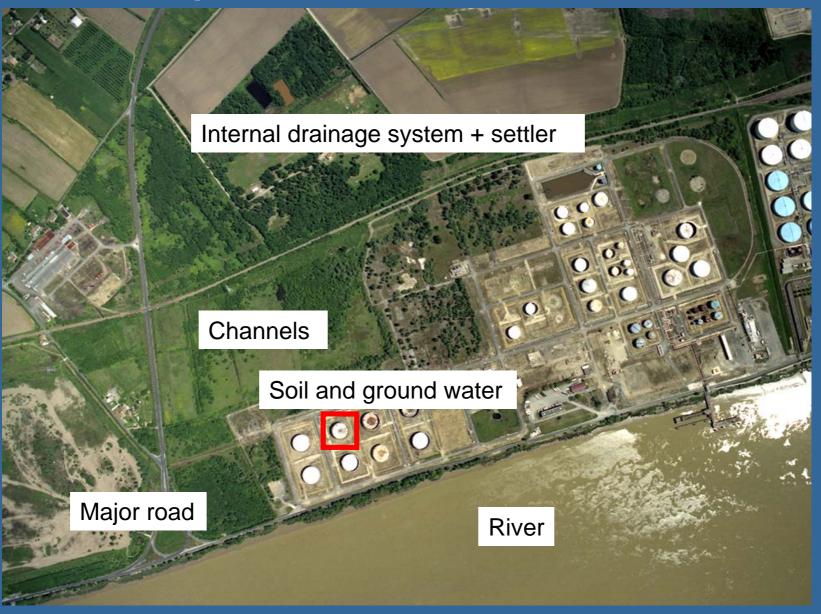








Impacts of the disaster







First measures taken by operator (IEP)

Alert authorities and Fire service

Application of a foaming agent

Evacuation of personnel and subcontractors

Request for closure of major road

Reflex actions of the Fire service

- Contact with the site leader and request activation of an operational response centre on site, led by the Fire service (60 firemen and 15 engines)
 - In parallel, fixed response centre at the Préfecture (up until 16/01 plus briefings)
 - Internal response centre at the Blayais power station
- Stop operations and cut the power.
- On site surveying: search for victims, network of atmospheric measures (H2S and explosimeter), spreading of foaming agent in the settling tank
- Evacuation of neighbouring companies (15 people accommodated at the town hall for the day)
- Aerial surveillance of the river
- Alert rail service, port of Bordeaux, neighbouring companies to stop traffic and activities

Actions of the Fire service Planned stage

- Pumping of oil from the retention basin
- Transfer of contents of the tanks of the retention basin outside the oil storage facility
- Digging of a drainage trench around the storage facility
- Containment, reduction of the spreading of oil
 - ▶ Transfer of the organisation of operations to the operator after 8 days.

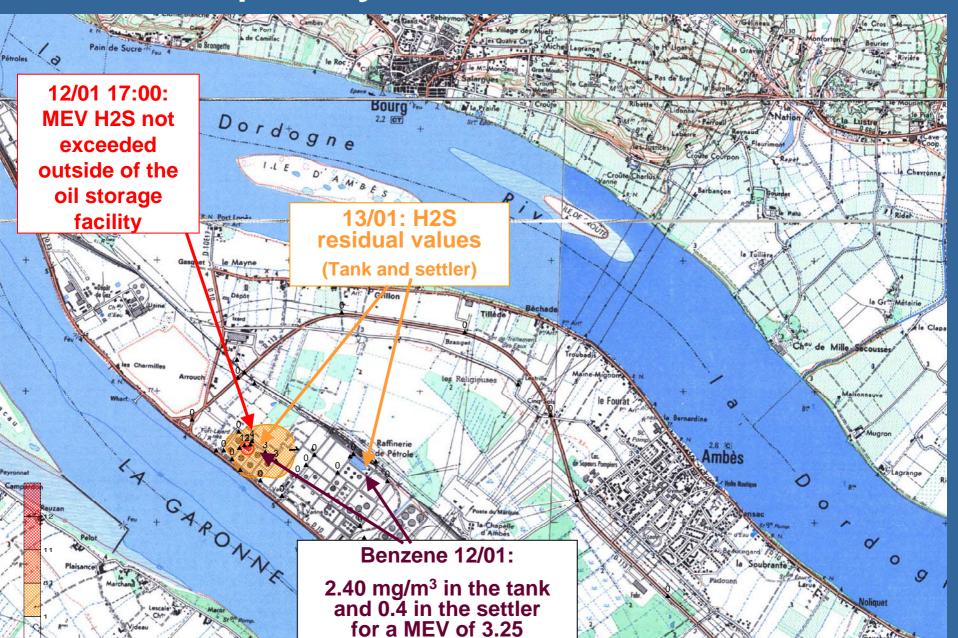
80 people day and night for the first 10 days

Monitor the air quality (explosimeter, H2S, BTEX)

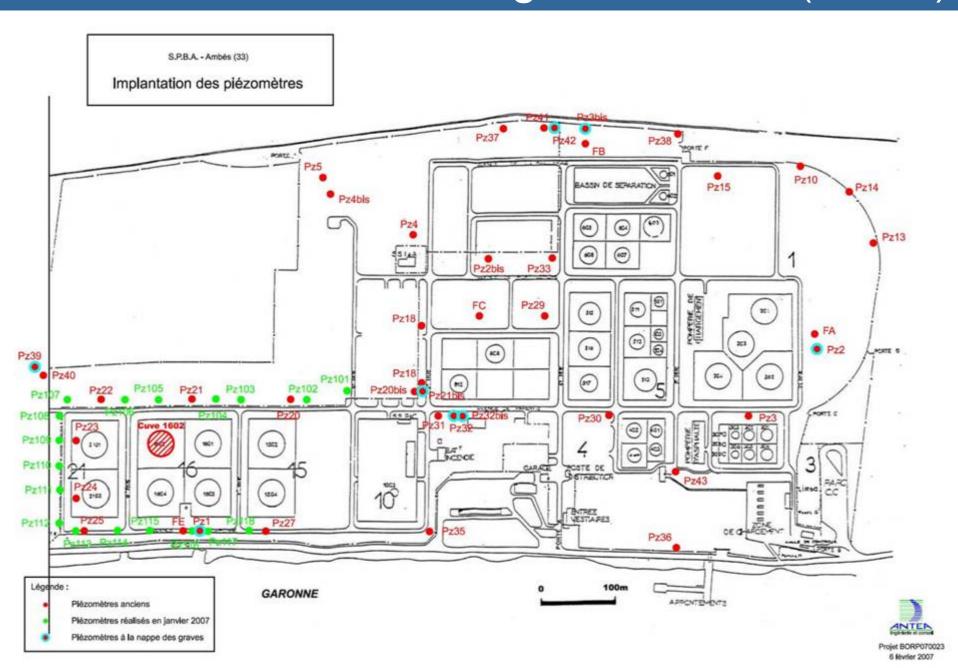


Foaming agent

Air quality (source: laboratoire SGS)



Pollution of the soil and ground water (Antéa)



Response offsite

GARONNE AND DORDOGNE

- Assess the initial situation: aerial observation
- Response to drifting slicks
- Pump and contain the potential sources of pollution
- Clean embankments roughly
- Monitor self-cleaning

CHANNELS

- Reduce spreading: makeshift booms
- Prune and cut back brushwood
- Mark out routes and protect the ground
- Recover floating pollutant
- Scythe and dispose of oiled vegetation
- Scrape and rinse the embankments



12 January 2007: 50 m³ of crude oil on the right bank of the Garonne, as the tide began to rise.



DRAGON 33 survey on 13.01.2007 (SDIS 33 / FOST)

"Between KmP 45 and KmP 35: sheen.

By KmP 35 (Blaye): stagnation of the pollutant on shoals.

From KmP 35 to KmP 10: free pollutant on the surface (trails of

hydrocarbons varying in size and concentration.

Upstream of KmP 10: sheen.

Dordogne: banks oiled as far as île de Croute."

Observations of 13 January 2007 to the right of the site



Aerial observations of 14 janvier 2007



RESPONSE TO DRIFTING SLICKS



Application of dispersant by coastal pilots (12/01/2007) + intervention of the buoy tender the Gascogne on 13/01/2007



Wille.

Sorbent boom deployment under wharfs to catch floating pollutant in both directions of the tidal current (began 14/01/2007)

Dynamic then manual recovery of floating pollutant (began 15/01/2007)

PUMPING AND CONTAINING POTENTIAL SOURCES OF POLLUTION



Pumping off accumulations of pollutant by the banks (began 12/01/2007)



Installation of a shore-sealing boom in front of the largest source of run-off (15/01/2007)



Sorbent boom deployment in front of pollutant run-off (began 14/01/2007)



Implementation of makeshift booms (straw + wire + geotextile) to reinforce the system (began 18/01/2007)

Creation of cofferdams to contain and recover the pollutant on the bank in areas where pollutant is released into the river (began 19/01/2007)

CLEANING EMBANKMENTS ROUGHLY

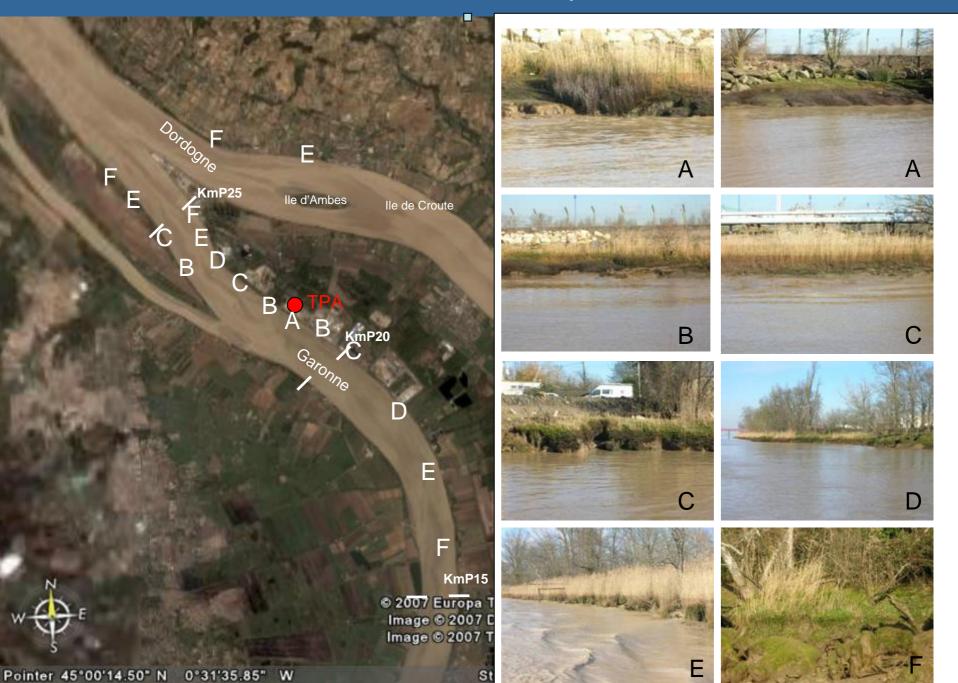


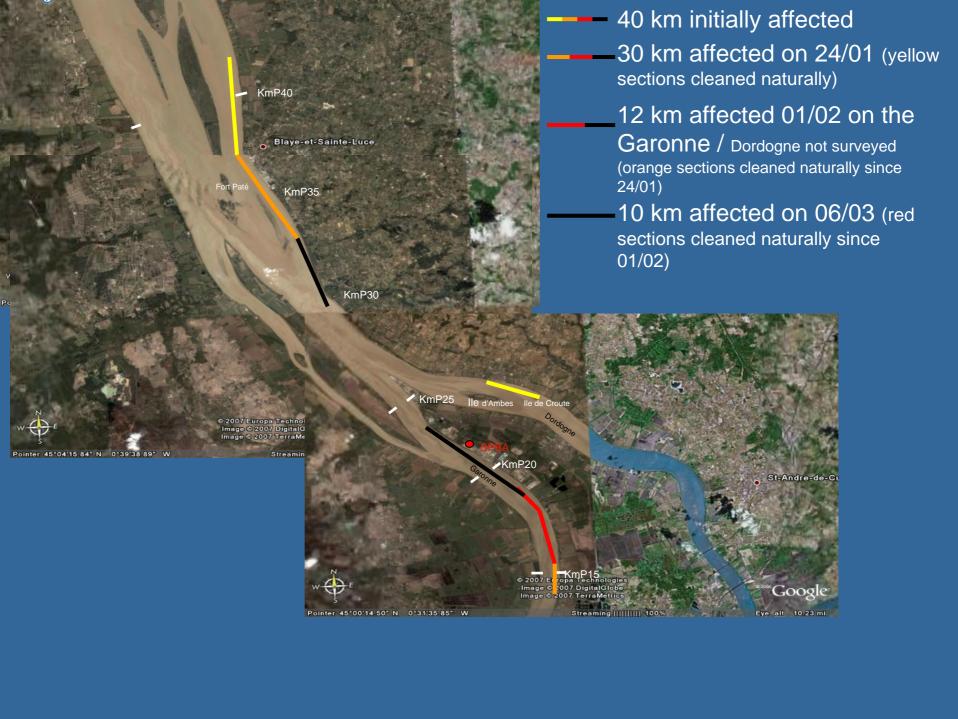
Manual collection of solid waste to prevent it from being remobilised by the tide (began 20/01/2007)

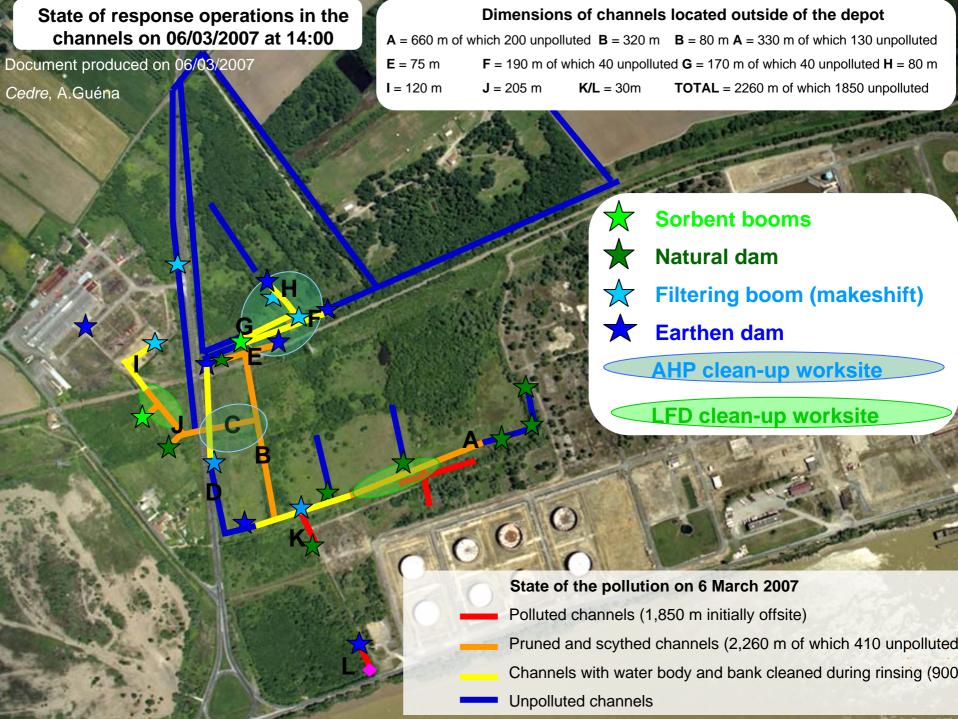


Creation of a vertical drain to conduct a spot test for pollutant soaked into the banks (began 20/01/2007)

MONITORING SELF-CLEANING: Nautical survey 13/01, 24/01, 01/02 and 06/03







STOPPING THE POLLUTION FROM SPREADING USING MAKESHIFT BOOMS







PRUNING AND CUTTING BACK BRUSHWOOD











MARKING OUT ROUTES AND PROTECTING THE GROUND









RECOVERING FLOATING POLLUTANT









SCYTHING, RECOVERING AND DISPOSING OF OILED VEGETATION FROM BANKS













SCRAPING AND RINSING BANKS, WITH USE OF SORBENTS



NEXT STEPS

- A dedicated project team
- Permanent dialogue with insurance experts
- Continuation of operations in the channels: closure of operations on 04/04/07
- Continuation of monitoring of natural cleaning of the banks of the Garonne: surveying on foot on 05/04/07
- Mapping of polluted ground and estimation of volumes (March 2007, Antéa)
- Excavation of soil and treatment (consultation)
- Resuming operations in oil storage facility (when?)
- Civil and penal investigations: procedures which are likely to be lengthy