



PORT OF ANTWERP

POLLUTION

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POLLUTION PORT OF ANTWERP AGENDA



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2. CRITICAL POINTS REGARDING POLLUTION
3. REGULATIONS
4. RESPONSE PLAN
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POLLUTION PORT OF ANTWERP



Some data on the Port of Antwerp

- Surface: 13.057 ha (20.000 soccer fields)
- Quay length: 156 kms
- Road length: 400 kms
- Rail: 1.113 kms
- Locks: 6
- Tank storage: 9.600.337 m³
- Covered storage: 542 ha
- Ship movements: 16.406 seagoing + 61.356 inland

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POLLUTION PORT OF ANTWERP



Some data on the Port of Antwerp

- Handled volumes (2008): 190 mio. mt.
- Containers: 101.4 mio.
- General cargo: 17 mio.
- Ro/ro: 4.4 mio.
- Liquids: 39.3 mio.
- Dry bulk: 27.3 mio.
- Largest petrochemical plant in Europe
- Largest fruit port in Europe
- Largest wood products port in Europe
- Largest steel products port in Europe

POLLUTION PORT OF ANTWERP



Critical Points regarding pollution

- River Scheldt / Antwerp port
- Locks
- Non tidal docks
- Separation of docks and quaysides
- Dense shipping
- High level of control/shipping guidance
- Infrastructure
- Services (bunkering/waste disposal)

Possible causes

- Marine incidents (collision/sinking/capsizing)
- Overflows:
 - human error, coordination ship/quay or ship to ship
 - equipment: maintenance/wear & tear or default/vice
- Accidental spills or pollution coming from landside
- Illegal waste disposal
- Residue on hulls









Regulations

Port regulation – art. 8:

- a/ all vessels calling the port must be safe and sound, fit for the intended use
- b/ harbour master can impose additional conditions in respect of safety and environment protection
- c/ 'problem' vessels are prohibited to sail/moor unless specific permission is granted by the harbour master after clearance / certificate issued by a Court Surveyor (Nautical Commission)

Port regulation – art. 23:

- a/ it is prohibited to throw/dump or let flow any object or liquids in the harbour (unless prior permission by harbour master)
- b/ the port user who infringes the above rule is liable for all costs and consequences

REGULATIONS

Instructions/information in case of water pollution:

- a/ information to the harbour master;
- b/ polluted vessels are halted – sailing permission can only be obtained with certificate from court surveyor (nautical commission)

Measures to be taken:

- a/ limit the consequences with the use of booms
- b/ cleaning of ship, shore, infrastructure, water at their costs and risks
- c/ skimming of polluted water – delivery at approved disposal site
- d/ certificate of court surveyor (Nautical Commission)
- FAILING WHICH: harbour master/port authority take measures at costs and risks of polluter.

Regulations

- 'Waste' according to 'Erika' ruling European Court of Justice 24.06.2008
- Art. 1384 civil code: Port Authority is liable for defaults of the waterways; innocent third parties can invoke this in case of pollution

POLLUTION PORT OF ANTWERP

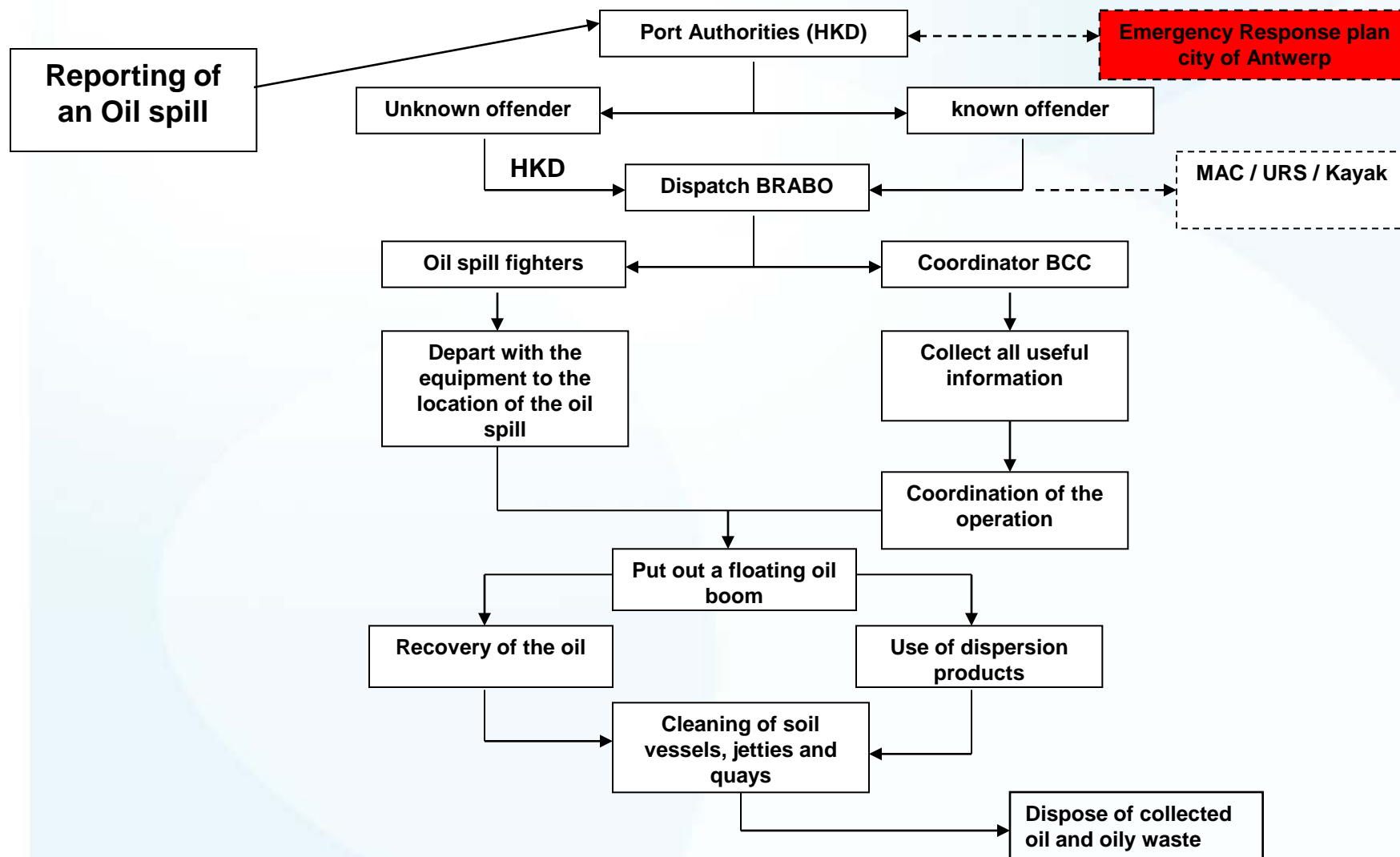
RESPONSE PLAN



Emergency services	FASE 1		FASE 2		FASE 3		FASE 4	
	information	action	information	action	information	action	information	action
Company fire brigade		X		X		X		X
Town fire brigade		X		X		X		X
Police		X		X		X		X
Harbour Captain-commander		X		X		X		X
Technical services harbour	X			X		X		X
Town Mayor (council)	X			X		X		X
CLW (air & water)	X			X		X		X
Office of the public prosecutor	X			X		X		X
Public health department	X			X		X		X
OCMW (public welfare)	X			X		X		X
Medical - social services	X			X		X		X
Harbour management	X			X		X		X
Harbour tugboats	X			X		X		X
Federal police	X			X		X		X
Civil protection			X			X		X
URS			X			X		X
Brabo & BCC			X			X		X
Antwerp sea services			X			X		X
Shipping commissioner			X			X		X
Red Cross					X			X
Governor					X			X
Navy					X			X
Army					X			X
Sailors' home					X			X

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RESPONSE PLAN



Harbour Master / Court Surveyor (nautical commission)

Polluter pays and polluter has to clean/resolve the pollution and consequences.

FAILING WHICH: Harbour Master takes control public / private services.

Court surveyor: certificate – de facto leading role:

- independent
- powers of a court
- act in full transparency and in 'joint survey'
- ideal for fact finding / contemporary evidence
- issue of detailed reports

Materials

- BOOMS / OIL SCREENS
- OIL / WASTE / POLLUTED WATER RECOVERY VESSELS
- DETERGENTS AND OIL DISPERSION
- LAND EQUIPMENT AND TRANSPORTATION
- WASTE DISPOSAL FACILITIES
- WAITING DOCKS/QUAYS

POLLUTION PORT OF ANTWERP

MATERIALS

Oil booms

Example: 500 m Light Oil Boom 750

9 ton pulling power

25 / 50 m. sections

Also: absorbing oil booms



POLLUTION PORT OF ANTWERP

m.v. POLLUTION FIGHTER I



POLLUTION PORT OF ANTWERP

m.v. OLIEZUIGER II



POLLUTION PORT OF ANTWERP



SOME ISSUES / TAKE AWAY POINTS

For port users: be informed, be assisted by local agents, surveyors, contingency plans, work with the system.

For insurers:

- **Hull and P&I insurers**
- **work with the system, appoint surveyors/lawyer, inform insureds, be prepared to issue insurance confirmations and put up security.**

Critical points:

Infrastructure and coordination can always be improved;

Liability issues - limitations;

Payment / security for pollution clean up works and contractors.