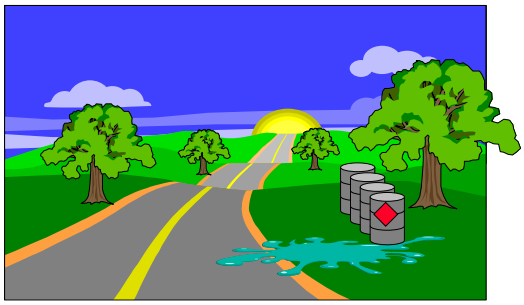
Basic HazMat Control



Module 6

Basic Hazmat Control

OBJECTIVES

1. Identify the material
2. Select and use proper ppe
3. Stop the release at source

MUST BE DONE SAFELY & NO CONTACT WITH MATERIAL

4. Confine spill to immediate area

DEFENSIVE ACTIONS

NO NO NO

NO CONTACT WITH MATERIAL

OFFENSIVE ACTIONS

TECHNICIAN OR SPECIALIST TRAINED PERSONNEL ONLY

CONTACT WITH MATERIAL MAY BE REQUIRED

Methods of Control

PHYSICAL METHODS

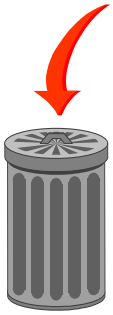
- ABSORPTION
- COVERING
- DIKES, DAMS, DIVERSIONS, RETENTION
- OVERPACK
- PLUG / PATCH
- VAPOR SUPPRESSION
- VENTING

ABSORPTION

THE PROCESS IN WHICH MATERIALS HOLD LIQUIDS THROUGH THE PROCESS OF WETTING.

AN INCREASE IN THE VOLUME OF THE SORBATE/SORBENT SYSTEM THROUGH THE PROCESS OF SWELLING.

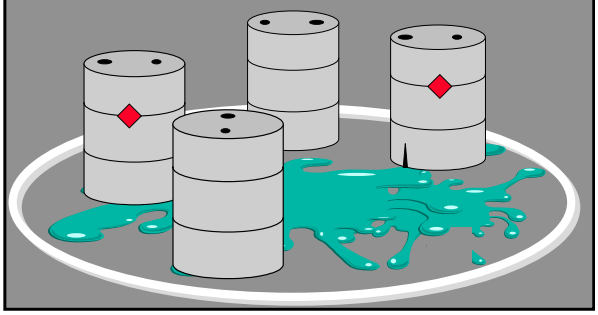
COVERING

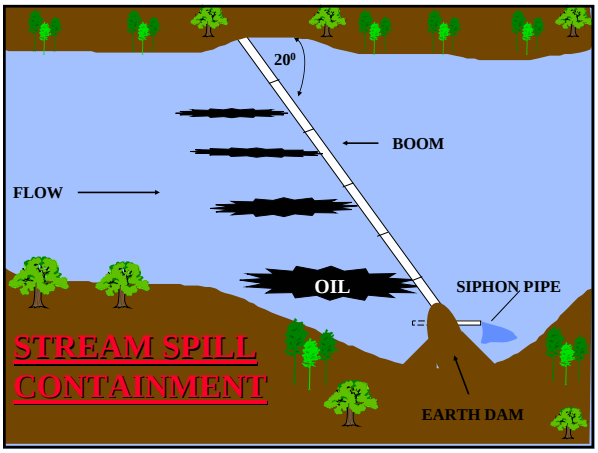


IT CAN BE USED TO REDUCE VAPOR PRODUCTION FROM SPILLED LIQUIDS.

DIKED MATERIAL

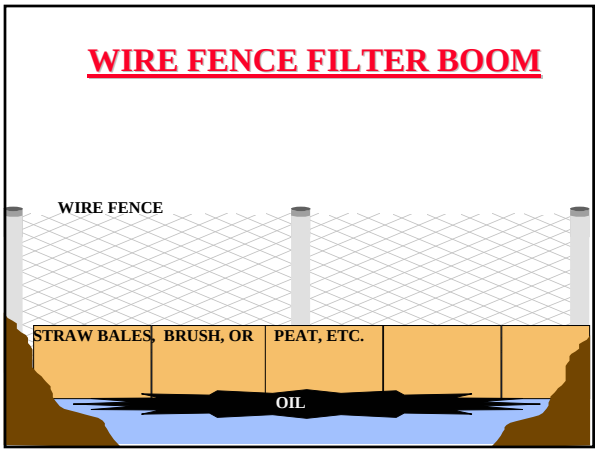
USE OF PHYSICAL BARRIERS TO PREVENT OR REDUCE THE QUANTITY OF LIQUID FLOWING INTO THE ENVIRONMENT

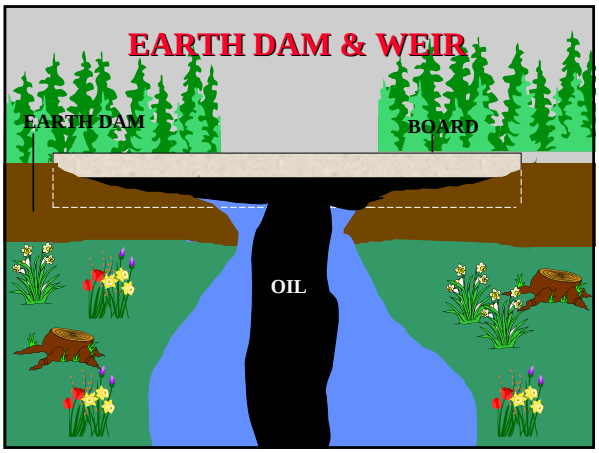


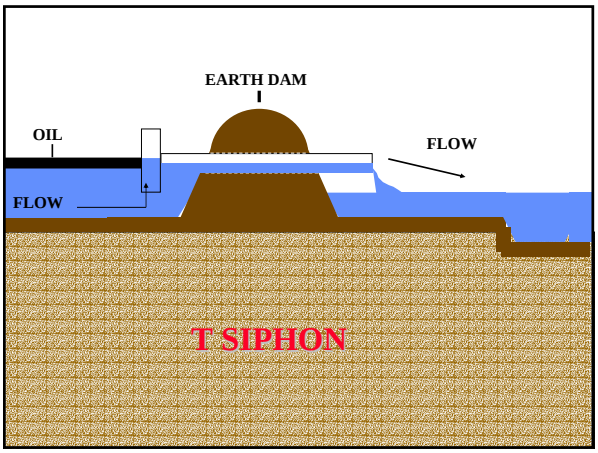


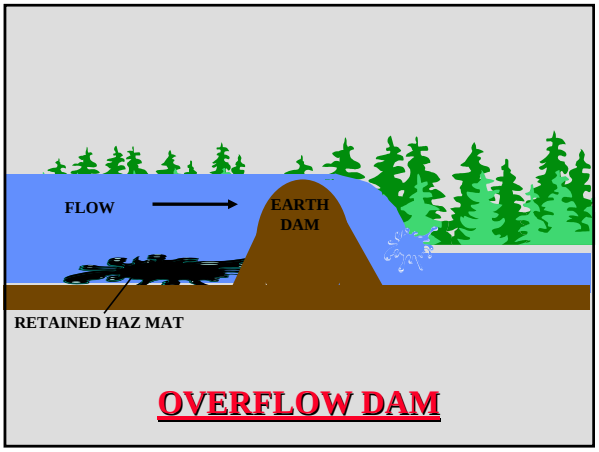
STREAM SPILL CONTAINMENT

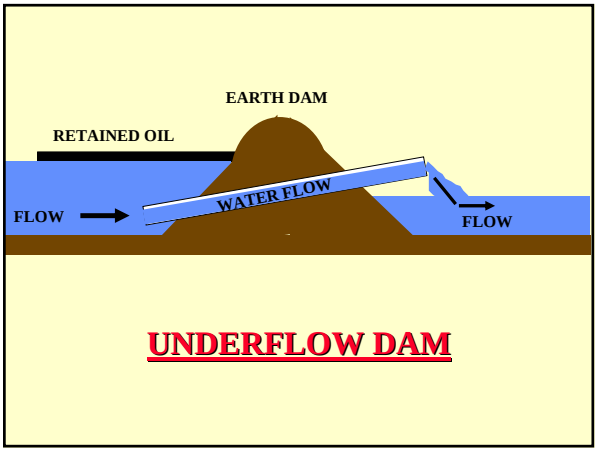
WIRE FENCE FILTER BOOM



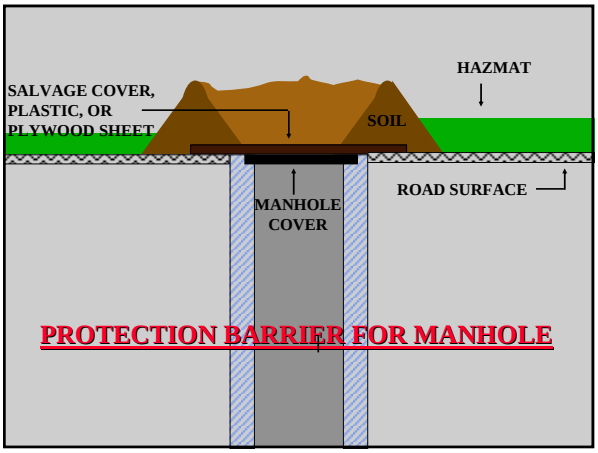

EARTH DAM & WEIR
EARTH DAM
BOARD
OIL

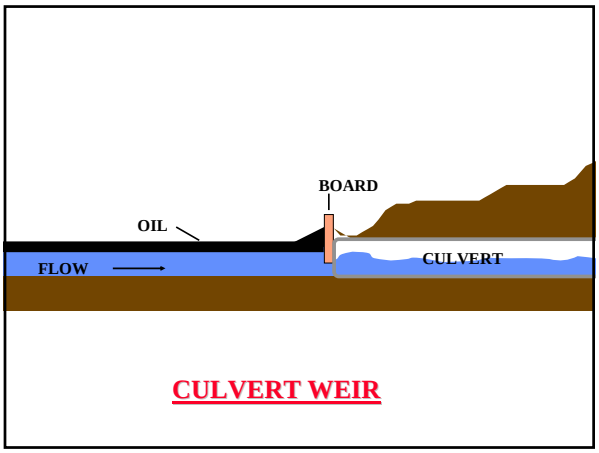

EARTH DAM
OIL
FLOW
FLOW
T SIPHON


FLOW
EARTH DAM
RETAINED HAZ MAT
OVERFLOW DAM

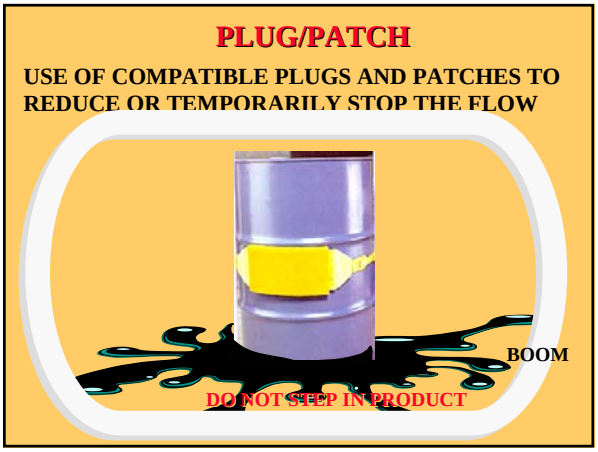

EARTH DAM
RETAINED OIL
FLOW
WATER FLOW
FLOW
UNDERFLOW DAM

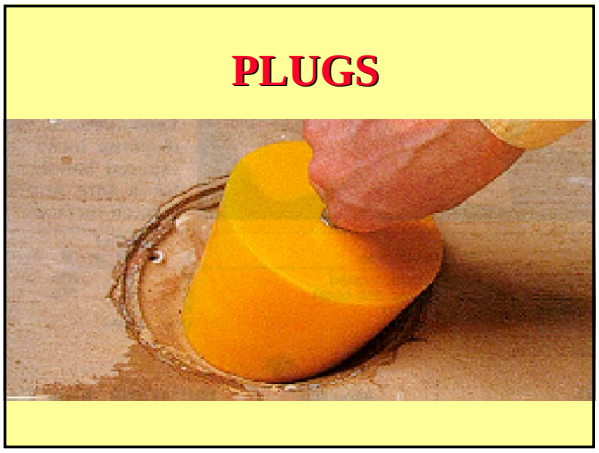

Underflow Dam


SALVAGE COVER, PLASTIC, OR PLYWOOD SHEET
HAZMAT
SOIL
ROAD SURFACE
MANHOLE COVER
PROTECTION BARRIER FOR MANHOLE



CULVERT WEIR



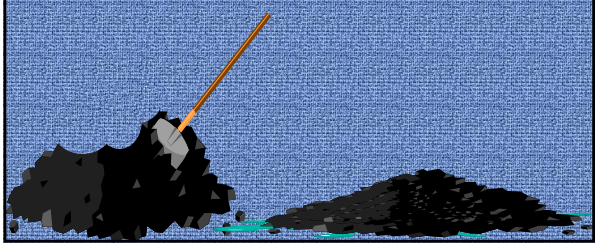


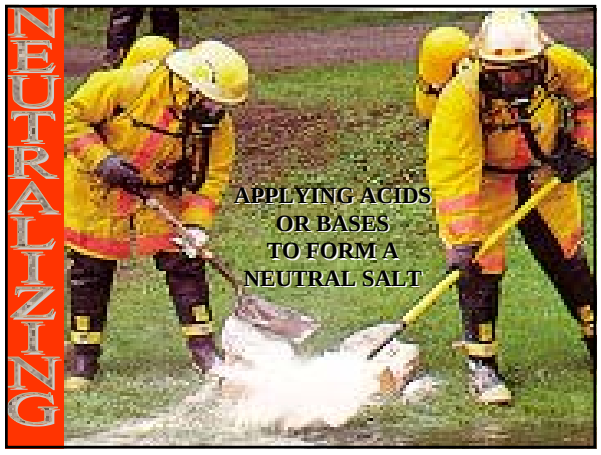
Methods of Control

CHEMICAL METHODS
- ADSORPTION
- GELATION
- NEUTRALIZATION
- DISPERSION
- CONTROLLED BURNING

ADSORPTION

THE PROCESS IN WHICH A HAZARDOUS LIQUID INTERACTS WITH A SOLID SORBENT.





Controlled Burning