Likelihood of Release (LR)

- Observed Release
- Potential to Release by Overland Flow
  - Containment
  - Runoff
    - Rainfall
    - Drainage Area
    - Soil Group
  - Distance to Surface Water

- Potential to Release by Flood
  - Containment (Flood)
  - Flood Frequency

Drinking Water

Waste Characteristics (WC)
- Toxicity/Persistence
  - Chronic
  - Carcinogenic
  - Acute
- Persistence
  - Half-life
  - Kow

Hazardous Waste Quantity
- Hazardous Constituent Quantity
- Hazardous Wastestream Quantity
- Volume
- Area

Targets (T)
- Nearest Intake Population
- Level I Concentrations
- Level II Concentrations
- Potential Contamination Resources

Human Food Chain

Waste Characteristics (WC)
- Toxicity/Persistence/Bioaccumulation
  - Toxicity
    - Chronic
    - Carcinogenic
    - Acute
  - Persistence
    - Half-life
    - Kow

Hazardous Waste Quantity
- Hazardous Constituent Quantity
- Hazardous Wastestream Quantity
- Volume
- Area

Targets (T)
- Food Chain Individual Population
  - Level I Concentrations
    - Human Food Chain Production
  - Level II Concentrations
    - Human Food Chain Production
- Potential Human Food Chain Contamination
  - Human Food Chain Production

Environmental

Waste Characteristics (WC)
- Ecosystem Toxicity/Persistence/Bioaccumulation
  - Ecosystem Toxicity
    - Ambient Water Quality Criteria
    - Ambient Aquatic Life Advisory Concentrations
  - Persistence
    - Half-life
    - Kow

Hazardous Waste Quantity
- Hazardous Constituent Quantity
- Hazardous Wastestream Quantity
- Volume
- Area

Targets (T)
- Sensitive Environments
  - Level I Concentrations
  - Level II Concentrations
  - Potential Contamination

FIGURE 4-1
OVERVIEW OF SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT