

RISK ASSESSMENT

TIER 1 (SCREENING LEVEL)

- Lookup tables
- Exposure = maximum offsite levels
- Simple dispersion modeling (MEI)
- No data - all assumptions
- Lower cost - high uncertainty
- *Conservative results - consistently over-estimates risk*

TIER 2 (MODERATE COMPLEXITY)

- Exposure = residential air levels
- More refined dispersion and exposure modeling (MIR)
- Moderate cost

TIER 3 (HIGH COMPLEXITY)

- Exposure = maximum offsite levels
- Detailed site-specific modeling (MIR)
- Complete study-specific data
- No assumptions
- Higher cost - lower uncertainty

Assess the risk, use the precautionary principle!