# Vapor Intrusion: Due Diligence Issues

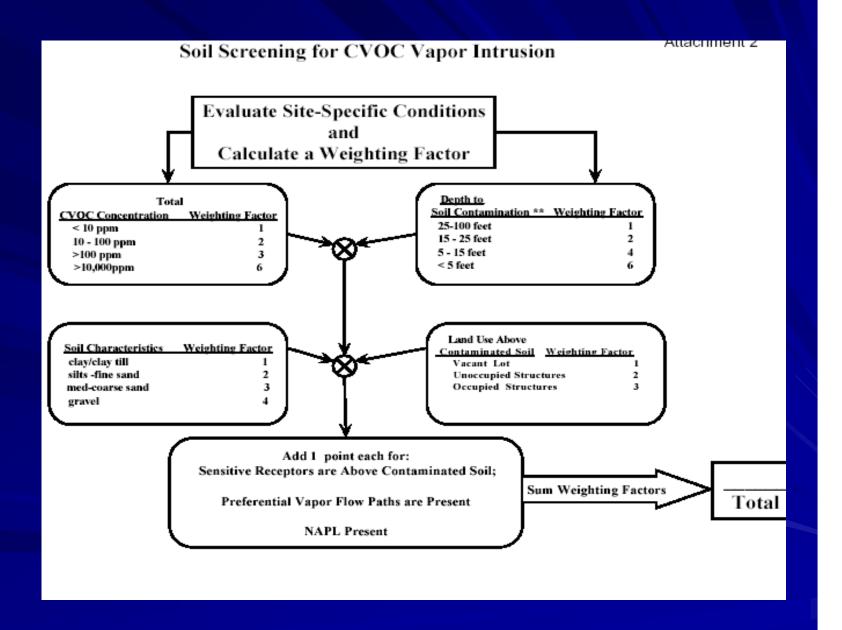
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# **Liability for Vapor Intrusion**

CERCLA
RCRA
UST
OSHA
State Remedial Programs
Common Law

#### **Prioritization Process**

# Four Weighting Factors Total CVOC concentrations Depth to Contamination Soil Characteristics Land Use (including adjacent land use) Numerical values scored for priority



#### New York VI Update

#### NYSDEC DER-13 Issued 10/18/06

- eliminates 100 foot brightline test
- adds 1 point to matrix for "sensitive receptors" above plume (day care, elder care, medical)
- 1 point for preferential pathways
- 421 Legacy Sites (remedial decisions prior to 01/01/03)
  - EPA lead on NPL Sites
  - PRP or NYSDEC initial screening

#### NY VI Update Cont'd

NYSDEC is halfway through initial screening

 9 regional offices to review at least 5 sites per year
 Sites will be ranked following initial screening

 NYSDEC Will Pursue Cost Recovery
 Does not distinguish between residential and non-residential use
 LUCs for undeveloped property
 Oil Spill Fund Evaluating VI

#### **BCP** Impacts

#### Participants

- address off-site impacts
- possible significant threat determinations

#### Volunteers

- address on-site sources
- Qualitative Off-site Sampling

### New York DOH VI Update

- NYSDOH Final Technical Guidance 10/2006
- Soil Gas and Modeling Insufficient for Pathway Elimination
- Decision Matrices Modified
  - Indoor Air Concentration Ranges Narrowed
  - Mitigation vs. Monitor modified



# Indoor Air Guidance Values

PCE 100 mcg/m3 (15 ppb)
 TCE 5 mcg/m3 (1 ppb)
 PCBs 1 mcg/m3

#### NYSDOH Matrix 1 (TCE)

More Stringent TCE Standard (indoor 5 ug/m3 or sub-slab 250 ug/m3)

May require reduction if indoor concentrations above background

# NYSDOH Matrix 2 (PCE)

- 100 ug/m3 is immediate action level and not no action.
- Concentrations above background require mitigation
- OSHA PELs Do Not Apply for Exposures To Chemicals Not Used in Workplace
   Identifies "preferred" mitigation methods

# **NYSDOH Guidance**

Detailed Protocols for Investigating, Monitoring and Mitigating VI

VI Pathway "MUST" be investigated if:

- Existing or likely subsurface source of VOCs, and
- Existing buildings or "possibility" that building may be "near" the subsurface source
   Whenever VOCs exceed GW Use classification?

#### Investigation Issues

# No Tier Approach Modeling May Not Be Sole Basis for Determining Exposure Potentials May be used to evaluate potential pathways Must be Pre-Approved

Must Incorporate Site-Specific Factors

- Modeling must be field verified

May Have To Investigate If Outdoor VOCs Above Background Levels

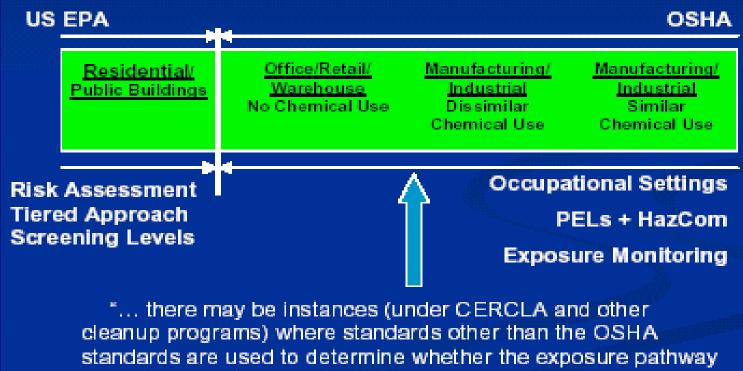
#### Sampling and Evaluation Issues

 Soil Vapor Alone May Not Be Used to Rule Out Further Sampling or Mitigation
 Contemporaneous Outdoor and Indoor Sampling with Soil Vapor
 Heating Season Sampling Required To Rule Out Exposure

Test outward to edge of plume

#### **OSHA** and **EPA/State** VI Jurisdictional Issue

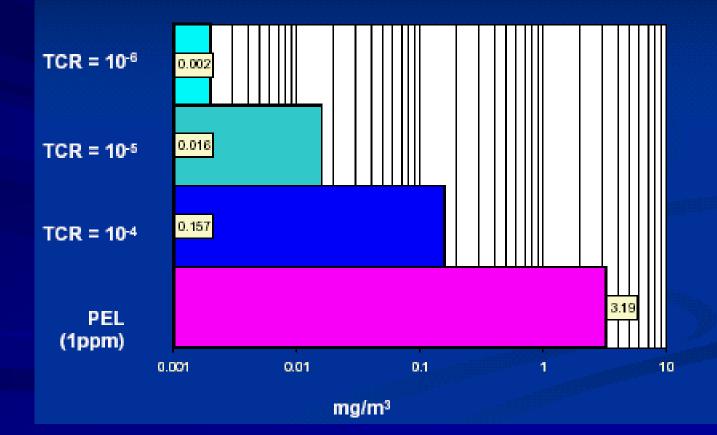
#### Federal Guidance

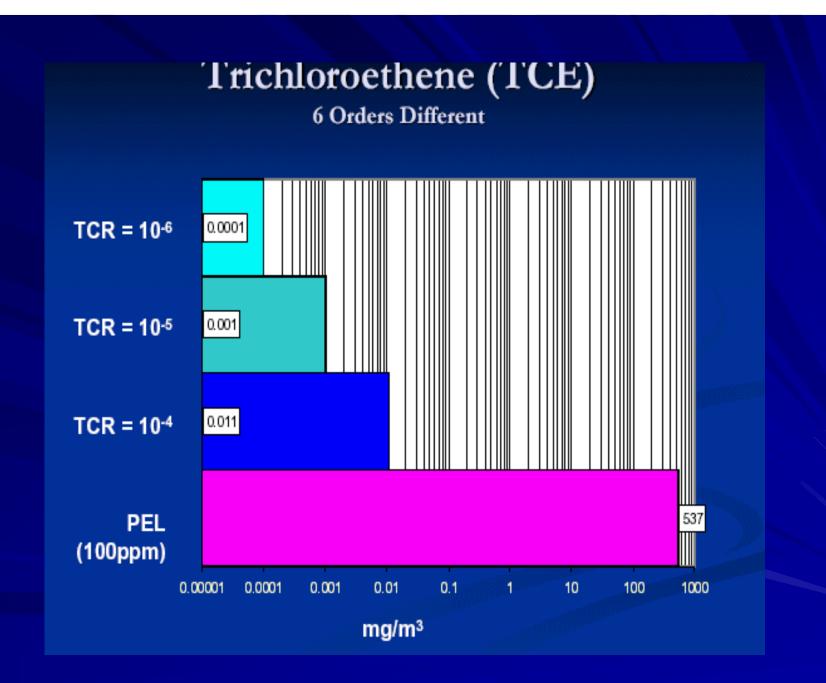


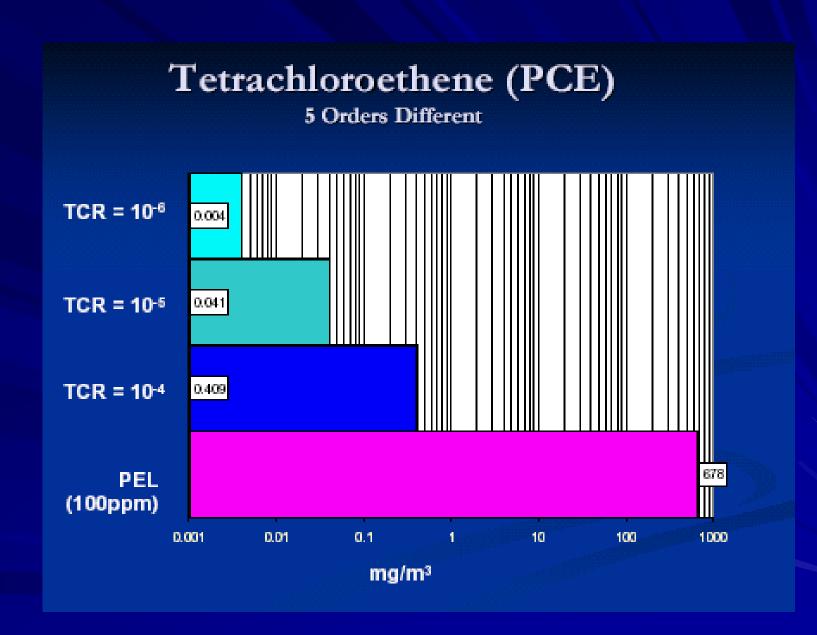
presents a risk to human health."

# EPA vs. OSHA PEL

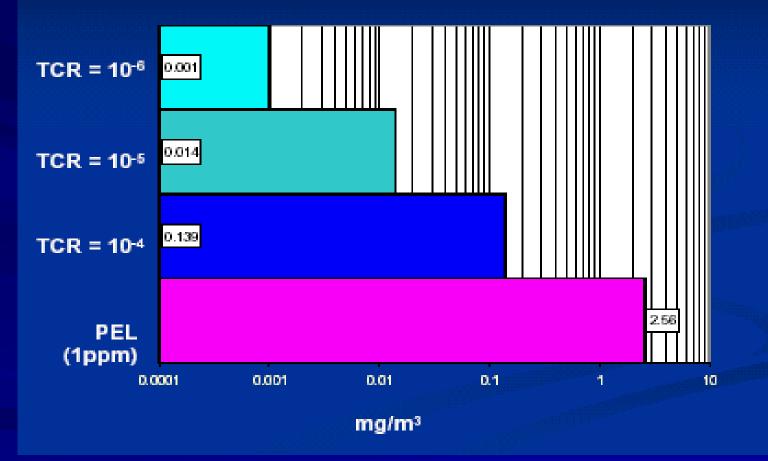
Benzene 3 Orders Different











#### **EPA-OSHA** Jurisdiction

#### EPA/OSHA MOU 11/23/90

- EPA authority includes
  - Significant adverse reactions to chemicals posing potential hazard to public health or environment
  - Accidental, unpermitted or deliberate releases beyond workplace
  - Violations of EPA regulations

#### **EPA-OSHA** Jurisdiction

#### VI Guidance

- Not apply to occupational exposures where contamination similar to chemicals being handled
- May apply in occupational settings where VI constituents no longer or never used in workplace, or where chemicals modified by degradation
- Change in use may trigger pathway reevaluation

PELs not ARARs

#### **OSHA-State Jurisdiction?**

 Supremacy Clause
 Express Preemption
 Implied Preemption-federal law occupies field or state law conflicts with federal law

#### **OSHA-State Jurisdiction?**

OSH Act § 18(a)- States not prevented from asserting jurisdiction under state law over occupational and health issues for which OSHA has not adopted a standard
 OSH Act §18(b)- States may assume responsibility for occupational safety and health issues thru approved-state

#### Diligence Issues

- Do Not Need Completed Pathway For Lenders To Walk Away!
- Appropriate Standard
  - OSHA (but beware of Haz Com and MM Requirements)
  - DOH
- Know State Program (COCs, vertical/horizontal, sampling vs. modeling)
- State Dry Cleaner Funds
- Disclosure
- Insurance (E&O, Reopeners, PLL for TP liability)
- Fixed Price Remediation (NFA address VI?)