

What is Vapor Intrusion (VI)?

- Introduction

What is the Nature of VI?

- Inhalation pathway
- Low concentrations
- Often below odor thresholds

What compounds can cause a VI issue?

- Michigan's definition
- Henry's Law

Examples of Volatiles

- Hydrocarbons
 - Chlorinated
 - Petroleum
- Semi-volatiles
- Others

Types of Facilities where volatiles may be present

- Chlorinated
- Petroleum
- Semi-volatiles
- Others

What is the issue?

- How do you evaluate for it?
- What do you compare it to?

How do you evaluate for it?

- Sampling
 - Soil
 - Groundwater
 - Soil gas
 - Sub-slab soil gas
 - Indoor air
- Modeling
 - Johnson and Ettinger Model
 - Common input parameters
 - Other inputs
- Empirical evidence

What do you compare it to?

- Residential or nonresidential
- MIOSHA

When do I need to worry about VI?

- Preliminary screening distances
- Petroleum hydrocarbons
- Other

Response Actions

- Source area remediation
- Institutional controls
- Building controls

Assistance and additional guidance

- Guidance documents
- Brownfields and redevelopment
- RRD Points of Contact