

# Vapor Intrusion Workgroup Update

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SAC Meeting  
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# Data Day Impressions

- MassDEP requested site-specific data from Workgroup participants
  - none was received
- MassDEP provided results from 35 Massachusetts sites
  - minimal site- or sample-specific information
- Andy Friedmann provided an overview of modelling
  - slides posted on blog
- Robbie Ettinger (GeoSyntec) discussed lessons learned from studies at 2 Sites
  - Raymark in Connecticut & DOD Site in Colorado
  - slides to follow



# Data Day Impressions

- **Discussion noted that modeling "can be valuable"**
- For current exposures...
  - when actual data can not be obtained or condition is confounded by inside source
  - when you can't gain access
  - to direct/target/prioritize sampling (and control sampling costs) at a large site
  - to document that you've sampled enough - that you know what's going on
  - to help make sense of measured indoor air data

# Data Day Impressions

- **Discussion also noted that modeling "can be valuable"**
  - For estimating potential future exposures
  - For determining remedial goals or levels for corrective action

# Data Day Impressions

- There is substantial variability in [*fill in the blank*]:
  - Temporal
  - Spatial
  - Analytical
  - Across sites
  - Within a site
  - Within a single building
- Therefore, not surprising that model results do not "predict" measured values

# Data Day Impressions

MassDEP Conclusions Based on Data Day and  
Presentation by Bill Wertz:

- J&E modeling, using conservative inputs that are not specific to a particular site, can provide a groundwater attenuation factor that is conservative for most, but not all, sites. Therefore, the J&E model is useful for developing GW-2 standards;
- There is no evidence to conclude that J&E modeling, using site-specific inputs, is useful in evaluating individual buildings; and
- The U.S. EPA VI database might allow for the development of generic alphas for soil gas screening.



# Data Day Impressions

- MassDEP has requested an intern to compile data from site files, including site characteristics
  - combined with the USEPA data, this information may be useful in developing guidance on the appropriate role of modeling in the site assessment and remediation process in Massachusetts
- MassDEP repeats its request for site data or RTNs for sites to include in the interns review
  - Excel template is still available on the website



# Regulatory Framework Subgroup

- Topics generating the most discussion to date:
  - Use of GW-2 Standards in determining the need for the vapor intrusion evaluations
  - Critical Exposure Pathways (CEPs)
    - relationship to closure
    - feasibility evaluations

# Regulatory Framework Subgroup

- Also covered:
  - SRM
  - role of facility operations
  - notification and public involvement

# Regulatory Framework Subgroup

What's next →

- Role of AULs in closure at vapor intrusion sites
  - When are they appropriate?
  - When are they required under the MCP?
  - When are they not required under the MCP?

# Assessment Subgroup

- Topics generating the most discussion to date:
  - Use of J&E modeling to assess vapor intrusion at individual buildings
  - Need to sample indoor air
  - Sampling - locations, frequency, and duration

# Assessment Subgroup

**What's next** ———>

- Weight of Evidence Evaluation
  - When can you conclude pathway complete/incomplete?
  - Use of Typical Indoor Air Concentrations
  - Use of data from outdoor air, indoor air, and subsurface

# Mitigation Subgroup Meeting

- Updates to the Source Remediation section
- Incorporation of comments from Workgroup participants
- Inclusion of MCP citations and discussion of regulatory issues involving mitigation
- Updated information to the Institutional Controls section

## What's next... Big picture

- Upcoming sub-group meetings (Boston/Worcester):
  - Regulatory Framework – June 2 at 9:00 AM
  - Assessment – June 4 at 9:00
  - Mitigation – June 4 at 1:00
- Big Group Meeting – June 18 at 9:30 **(Boston Only!)**
- No meetings scheduled for the summer !
  - MassDEP will be editing the draft for distribution in September



## About the Blog....

Please be aware that the material posted on this blog is DRAFT, being made available **ONLY** as part of the policy development process to inform and direct discussion. The material is not final and is very likely to be significantly revised before it becomes final.

**Therefore, the material here cannot be quoted or cited as MassDEP guidance at this time.**



## More about the Blog....

- The June (most recent) versions of the sections will be left for review at any time
- The blog will still be available for receiving comments and data
- If significant changes in the schedule occur, e-mails will be sent to the group and the information will be posted on the blog



