



## Vapor Intrusion Assessment:

Phase II Characterization Data Evaluation Report Mound, Ohio, Site  
(September 2025)

### AT A GLANCE

Soil gas sampling effort identified areas where concentrations of vapor-forming chemicals in soil vapor occur at levels that could result in potential exposures from vapor intrusion (VI) to potential future buildings.

#### Key points

- The current buildings in the Mound Business Park are not at risk to vapor intrusion from residual contamination left by previous site activities.
- Three discrete areas were found to have concentrations of vapor-forming chemicals in soil vapor at levels that could result in potential exposures from vapor intrusion (VI) if buildings were constructed on top of them in the future.
- VI does not pose a health risk in any current buildings.

### What did this study examine?

This study sampled seven areas that had been identified in the Phase I Assessment Report for evaluation to determine the occurrence and concentration (if present) of vapor-forming chemicals in soil vapor.

### What's important about this study?

If vapor-forming chemicals migrate into a building, they can become concentrated in the enclosed space and pose a risk to human health. This is referred to as Vapor Intrusion or VI.

### What we learned

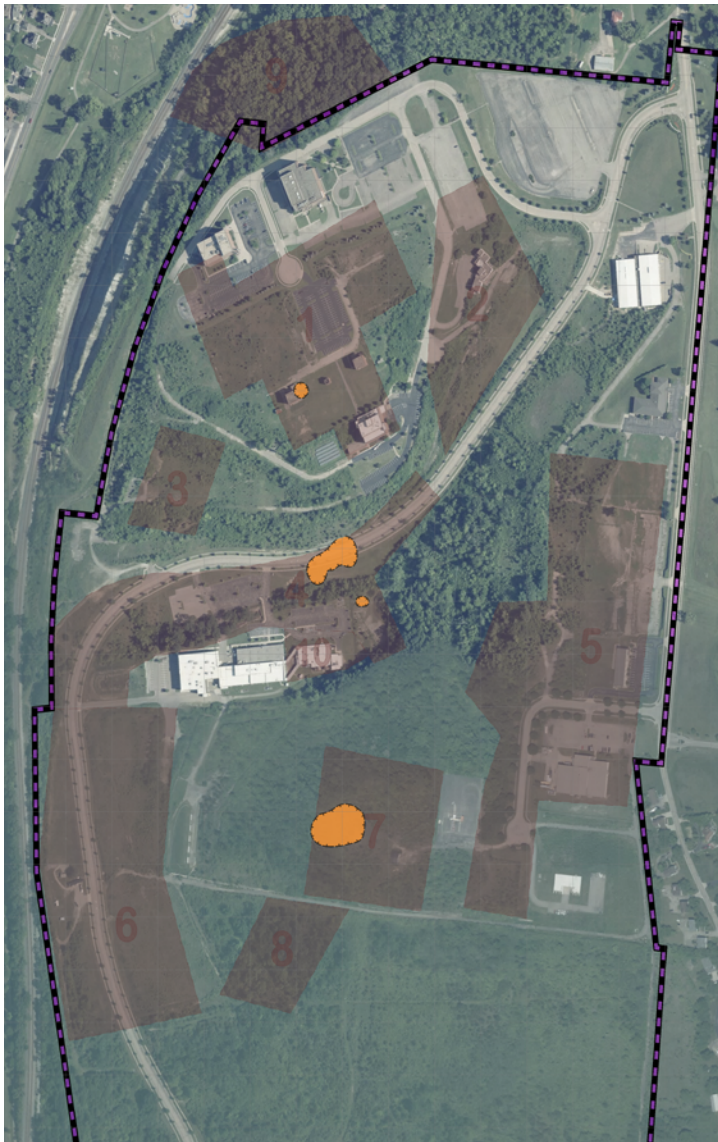
Three areas were identified where concentrations of vapor-forming chemicals in soil vapor occur at levels that could result in unacceptable exposures from VI to future occupants.

The vapor-forming chemicals identified at the Mound Business Park are volatile organic compounds (VOCs), namely trichloroethene (TCE), tetrachloroethene, and vinyl chloride (VC).

### Terms to know

**Vapor Intrusion (VI)** occurs when there is a migration of vapor-forming chemicals from any subsurface source into an overlying building.

**Volatile organic compounds (VOCs)** are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short- and long-term adverse health effects.



Areas of elevated vapor-forming chemicals at the Mound Business Park.

## More information

For more on the previous screening of historical soil, groundwater, and soil-gas data, see *Vapor Intrusion Assessment: Phase I Preliminary Screening and Conceptual Model for the Mound, Ohio, Site*, available at <https://lmpublicsearch.lm.doe.gov/SiteDocs/MND%201012.pdf>

A detailed description of the U.S. Department of Energy's sampling for vapor-forming chemicals at the Mound Business Park is provided in the *Vapor Intrusion Assessment: Phase II Characterization Data Evaluation Report, Mound, Ohio, Site*: [https://lmpublicsearch.lm.doe.gov/lmsites/51728\\_vaporintrusion.pdf](https://lmpublicsearch.lm.doe.gov/lmsites/51728_vaporintrusion.pdf)

For additional information visit the Vapor Intrusion FAQs page: <https://www.energy.gov/lm/articles/vapor-intrusion-faqs>

Learn more about **vapor intrusion** from the U.S. Environmental Protection Agency at <https://www.epa.gov/vaporintrusion/what-vapor-intrusion>

Learn more about **volatile organic compounds** from the U.S. Environmental Protection Agency at <https://www.epa.gov/indoor-air-quality-iaq/what-are-volatile-organic-compounds-vocs>

## Contact Information

**In case of an emergency at the site, contact 911.**

LM toll-free emergency hotline: (877) 695-5322

Site-specific documents related to the **Mound Site, Ohio**, are available on the LM website at: [www.energy.gov/lm/mound-ohio-site](http://www.energy.gov/lm/mound-ohio-site).

For more information about LM activities at the Mound Site, Ohio, contact:

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