

Welcome

- Thank you for joining us this evening. We will get started shortly.
- We will be discussing the Former Conbraco Industries, Inc. property located at 701 Matthews-Mint Hill Rd
- If you have any questions, please place into the Q&A thread.



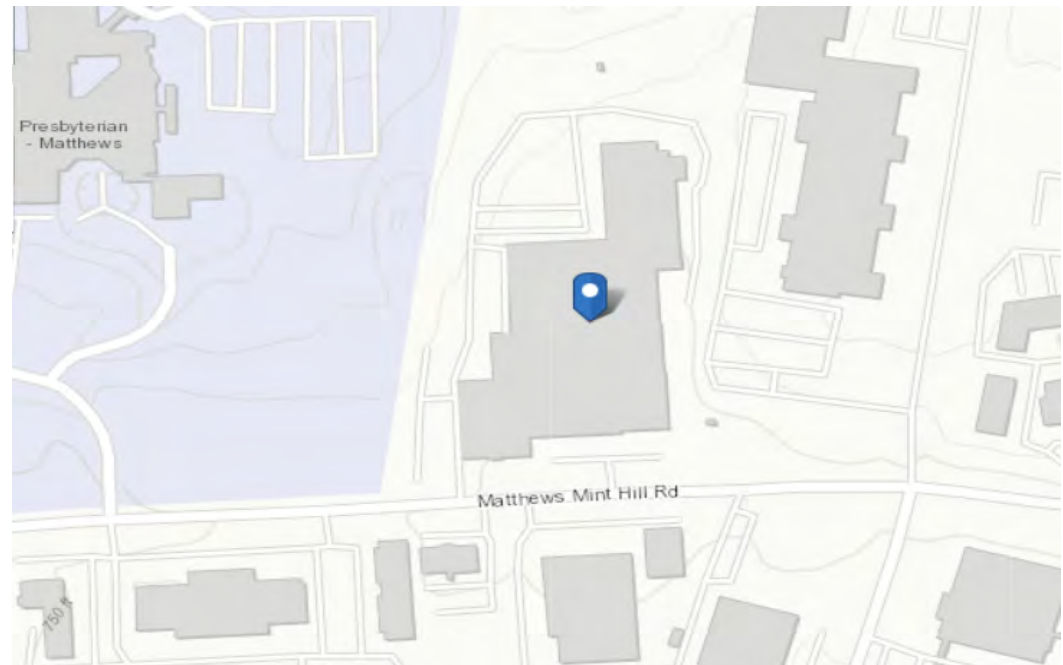
*Department of Environmental Quality
and Department of Health and Human Services
Former Conbraco Industries, Inc.*

October 4, 2021



Site History

- From approximately 1957 through 1998 Conbraco maintained a brass foundry operation.
- 1986 - 2021: DEQ and EPA involved for generator compliance related to hazardous waste management
- 1986-1989: Documents show use of TCE as a degreaser
- 2019 - Present: Site closure work including TCE assessment

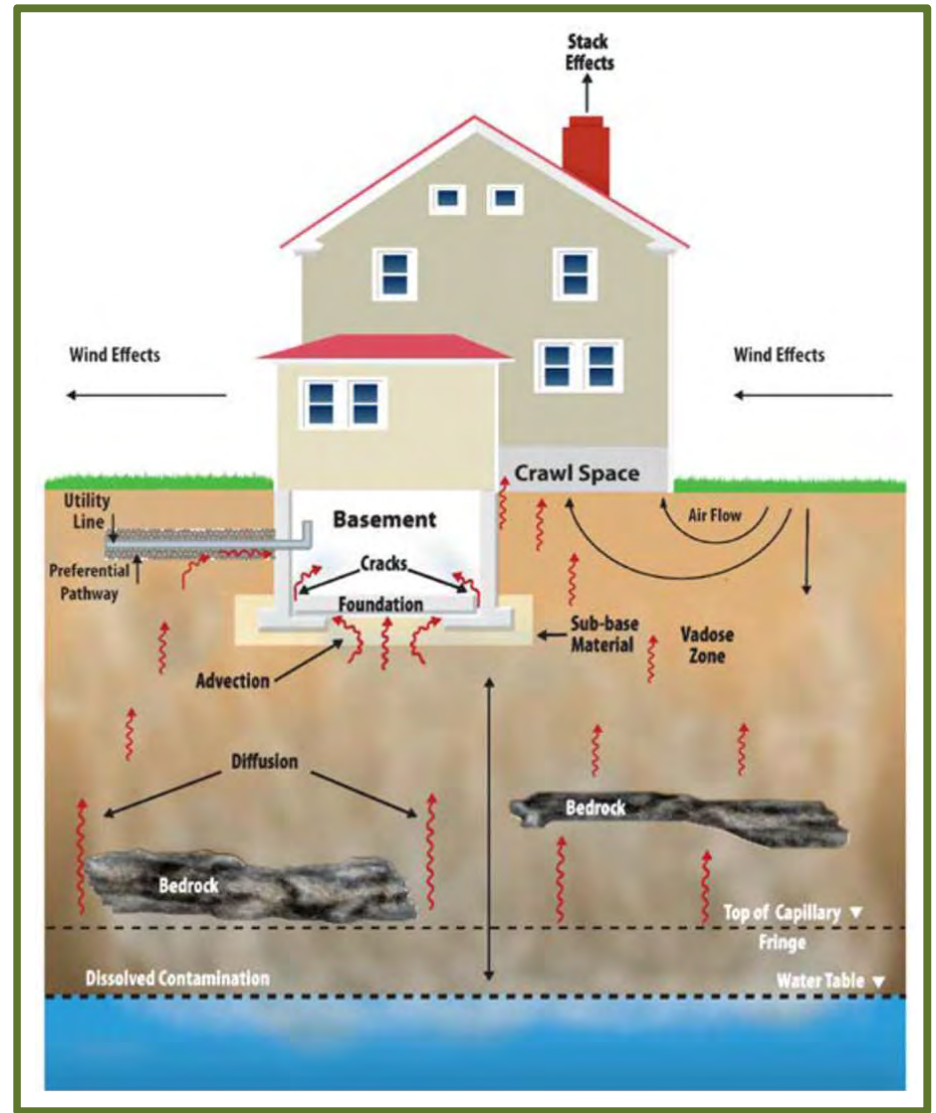


[NC DEQ Site Locator Tool](#)



What is Vapor Intrusion?

- Underground vapor entering the home
- Radon is most commonly recognized example



Source: "Overview of Vapor Intrusion" Fact Sheet, Agency for Toxic Substances and Disease Registry

What is TCE?

- TCE = Trichlorethylene or Trichloroethene
- TCE can turn into a gas easily (known as volatile), and it is colorless, nonflammable, and has a sweet odor (at higher concentrations).
- Industrial solvent (ex: metal degreaser)
- Some possible household sources:
 - Wood stains, varnishes, and finishes,
 - Adhesives,
 - Typewriter correction fluids,
 - Paint removers, and
 - Cleaners.



Possible human health risks for TCE

- Fetal heart malformations (change in heart growth and development)
 - Fetal heart develops during the first trimester
 - Short-term exposure – heart formation happens over an approximately three-week period
- Immune system effects
 - Long-term exposure (many years to a lifetime)
- Certain types of cancer
 - Kidney, liver, non-Hodgkin's lymphoma
 - Long-term exposure (many years to a lifetime)



Assessment Activities

- 1988 to 1990 - TCE originally detected in Groundwater Monitoring Wells
- 2004 – Consent Agreement between Conbraco and EPA for Site closure work related to Foundry sand waste
- 2020 (Dec.) – Reinstall monitoring wells
- 2021 (Jan.) – TCE identified in monitoring wells. TCE now a priority and focus of work at the site.
- 2021 (Aug.) – Additional monitoring wells installed. TCE found at elevated levels in groundwater
- 2021(Sept. 15th)– Indoor air testing for occupied areas of the building
- 2021(Sept-Oct) – Preliminary results for indoor air received and shared with building occupants
 - 16 of 17 samples were above action level of 8.8 ug/m³
 - Results ranged from 7.6 to 256 ug/m³



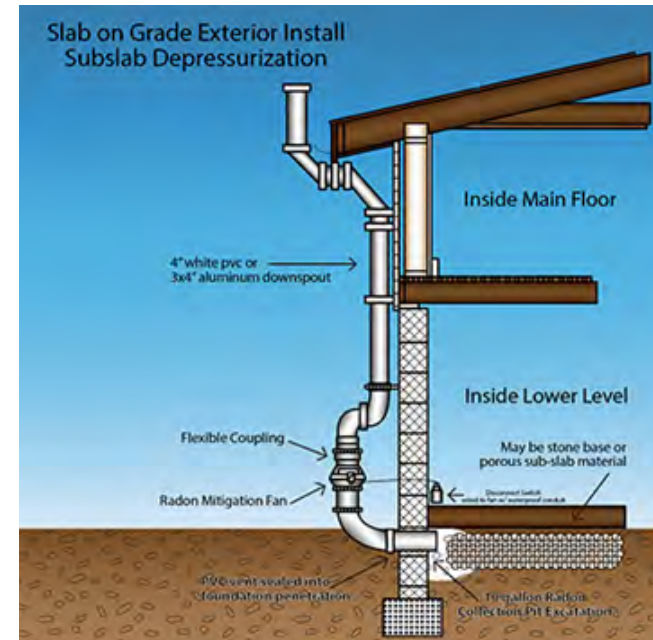
Next Steps and Interim Measures

Short-term solutions:

- Install Air Filter/Purification Units
- Resample Indoor Air
- Results below the action level will allow occupants to use the building again

Long-term solutions:

- Investigate TCE vapors below the building to develop a remediation plan.



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