



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 4**  
**61 Forsyth Street, SW**  
**Atlanta, GA 30303-8960**

October 13, 2021

**MEMORANDUM**

**SUBJECT:** Validated Indoor Air Samples Data Review  
Conbraco, North Carolina

**FROM:** Sydney Chan, Life Scientist  
Scientific Support Section

**TO:** Kevin Greaney, LCRD  
Corrective Action and Permitting Section

**THRU:** Tim Frederick, Chief  
Scientific Support Section

Per the request of the project manager, Scientific Support Section (SSS) staff has reviewed and evaluated the validated indoor air samples collected at the Conbraco Facility in September 2021. Indoor air samples were analyzed at Pace Analytical Laboratories via Method TO-15. All contaminants were compared to their respective Vapor Intrusion Screening Level (VISL) equal to a carcinogenic risk of  $1 \times 10^{-6}$  or Hazard Quotient equal to 0.1 for a commercial exposure scenario. Note that multiple contaminant reporting limits were above their respective screening levels. SSS did not include any contaminant that was not detected above the reporting limit.

Fourteen (14) indoor air samples, one duplicate, and one background sample were collected during the sampling event. Samples with contaminant concentrations that exceeded their respective VISL were then entered into the online vapor intrusion screening calculator ([https://epa-visl.ornl.gov/cgi-bin/visl\\_search](https://epa-visl.ornl.gov/cgi-bin/visl_search)) to calculate the associated risk. Twelve of the fourteen samples resulted in an unacceptable risk, all driven by trichloroethylene.

When evaluating a vapor intrusion pathway, SSS recommends subslab/soil gas, indoor air, and ambient air should be collected concurrently. Using historical groundwater data collected around the Conbraco facility, it is plausible that the elevated indoor air concentrations are the result of a completed vapor intrusion pathway. Until a full vapor intrusion study can be completed, SSS recommends limiting exposure in the building.

Please feel free to contact me at 404-562-8907 or [chan.sydney@epa.gov](mailto:chan.sydney@epa.gov) for any questions or concerns.