



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7  
901 NORTH 5TH STREET  
KANSAS CITY, KANSAS 66101

**MAY 24 2012**

Mr. Christopher Powers  
Project Manager  
General Services Administration  
1500 East Bannister Road  
Kansas City, Missouri 64131

Dear Mr. Powers:

The U.S. Environmental Protection Agency has reviewed the April 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report-Buildings 1 and 2 Report, dated April 12, 2012, for the General Services Administration Bannister Federal Complex, located at 1500 East Bannister Road, Kansas City, Missouri. This report adequately addressed the comments in our email dated April 25, 2012, and therefore, we are approving this report.

The conclusions presented in this report are provided as an enclosure to this letter. If you have any questions, please contact me at (913) 551-7566 or by e-mail at [Hammerschmidt.ron@epa.gov](mailto:Hammerschmidt.ron@epa.gov). If I am not available, please contact Ron King, Technical Lead, at (913) 551-7568.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald F. Hammerschmidt".

Ronald F. Hammerschmidt, Ph.D.  
Director  
Environmental Services Division

Enclosure

***Conclusions from the April 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report Buildings 1 and 2 Report, dated April 12, 2012***

1. Trichloroethene (TCE) was detected at concentrations above the cancer and non-cancer Site Specific Screening Levels (SSSLs) in sub-slab sample U19 (Fan Room 3B). TCE was identified in subslab samples W8 (Department of Commerce/DOC Warehouse Shower Room) and E23 (GSA Warehouse - Shower Room) at concentrations above the non-cancer SSSL.
2. Naphthalene was detected at a concentration above the SSSL (cancer risk) in sub-slab sample E23 (GSA Warehouse - Shower Room).
3. Sub-slab air monitoring results indicated a concentration of chloroform above the SSSL (cancer risk) in sub-slab sample OB27 (Basement Unoccupied Office Space).
4. Chloroform was detected above the SSSL (cancer risk) for the indoor air samples E23 (GSA Warehouse Former Shower Room) and OD8 (Pump Room #8).
5. TCE was detected above the SSSLs for cancer risk and/or non-cancer risk in indoor air samples W17 and associated duplicate sample (Former Mail Room), R17 (Veterans Affairs/VA Office Space), U17 (Department of Defense/DOD Office of Inspector General), P25 (Utility Room-Caged Area), Y18 (FEMA Office Space), R16 (South Freight Elevator), U19 (Fan Room 3B), AA17 (North Freight Elevator), E23 (GSA Warehouse Former Shower Room), and W8 (Department of Commerce/DOC Warehouse Former Shower Room).
6. Vinyl chloride was detected above the SSSLs (cancer risk and non-cancer risk) in indoor air sample R16 (South Freight Elevator).
7. 1,3-butadiene was detected above the SSSL in indoor air sample A19 (Cafeteria Far South Utility Room).
8. Benzene was detected above the SSSL (cancer risk) in indoor air samples OD8 (Pump Room #8), U19 (Fan Room 3B), AA17 (North Freight Elevator), Ambient South and Ambient West.
9. Naphthalene was detected above the SSSLs (cancer risk and non-cancer risk) in sub-slab sample E23 (GSA Warehouse Former Shower Room).
10. Cis-1,2-DCE was detected at a concentration above the SSSL (non-cancer risk) in indoor air sample R17 (Veterans Affairs/VA Office Space) and associated duplicate sample, R16 (South Freight Elevator), U19 (Fan Room 3B), W17 (Former Mail Room), and U17 (Department of Defense/DOD Office of Inspector General).
11. Ethylbenzene was detected above the SSSL (cancer risk) in indoor air sample P25 (Utility Room-Caged Area).
12. 1,2,4-trimethylbenzene was detected above the SSSL (non-cancer risk) in indoor air sample AA17 (North Freight Elevator).

13. Carbon tetrachloride was detected above the SSSL (cancer risk) in indoor air sample U17 (Department of Defense/DOD Office of Inspector General).
14. 1,4-dichlorobenzene was detected above the SSSL (cancer risk) in indoor air sample E23 (GSA Warehouse Former Shower Room).
15. 1,2-dichloroethane was detected above the SSSL (cancer risk) in indoor air sample A19 (Cafeteria Far South Utility Room).
16. Although some volatile organic compounds (VOCs) were detected at concentrations exceeding screening levels based on carcinogenic risks, these concentrations correspond to cancer risk values within EPA's target cancer risk range of  $1.0 \times 10^{-6}$  to  $1.0 \times 10^{-4}$  that is generally considered acceptable by the EPA.
17. The results indicate a non-cancer risk (based on maximum detection) above the hazard index (HI) of 1 for a cis-1,2-DCE concentration identified in indoor air samples R16 (South Freight Elevator). The results indicate a non-cancer risk (based on maximum detection) above the HI of 1 for TCE concentrations identified in indoor air samples W8 (Department of Commerce/DOC Warehouse Shower Room) and U17 (Department of Defense/DOD Office of Inspector General).
18. With the exception of the indoor air sample collected at R16 (South Freight Elevator), the indoor air samples collected did not exhibit VOC concentrations at levels above the Short-Term Risk-Based Screening Levels. Results indicate an exceedance of the Short-Term Risk-Based Screening Level for vinyl chloride in indoor air sample R16 (South Freight Elevator).
19. Sample locations exhibited total non-cancer risks greater than the EPA acceptable non-cancer HI of 1 at sample locations W17 (Former Mail Room) and associated duplicate sample, R17 (Veterans Affairs/VA Office Space), W8 (DOC Warehouse Former Shower Room), R16 (South Freight Elevator), AA17 (North Freight Elevator), U19 (Fan Room 3B), and U17 (Department of Defense/DOD Office of Inspector General).
20. The potential for groundwater impacts from the adjacent Department of Energy (DOE) facility chlorinated solvent impacted groundwater plume to impact the GSA BFC sub-slab and indoor air in the basement levels is possible. However, a direct correlation, due to lack of indoor air sampling and groundwater sampling data within the GSA controlled BFC facility, cannot be determined at this time.