DEPARTMENT OF THE AIR FORCE
711TH HUMAN PERFORMANCE WING (AFRL)
WRIGHT-PATTERSON AFB OHIO

04 Aug 2023

MEMORANDUM FOR RECORD

FROM: USAFSAM/CC
2510 Fifth Street, Bldg 840
Wright-Patterson AFB OH 45433

SUBJECT: Results of PCB environmental air and surface swipe samples, Malmstrom AFB, June 2023

EXECUTIVE SUMMARY

A team of Bioenvironmental experts from the USAF School of Aerospace Medicine (USAFSAM)/Defense Centers for Public Health – Dayton, performed environmental sampling at Malmstrom AFB from 22 June – 29 June 2023 as part of the continued efforts to investigate cancer concerns in the Missile Community. A large range of air, water, soil and surface samples were collected and sent for analysis. This memo summarizes the air and surface swipe sampling results for PCBs. Additional results for other environmental samples collected will be reported separately, as these are still being analyzed and are not yet available.

A total of two (2) air samples and twenty (20) swipe samples were collected at each Missile Alert Facility (MAF) location. In total, 30 air samples and 300 swipe samples were collected. One air sample was collected within each underground Launch Control Center (LCC) and a second air sample was collected in the above ground topside support building. No PCBs were detected in any of the air samples. All PCB swipe samples were conducted in the underground LCCs. Swipe samples were conducted across a range of locations in the LCC. These locations included common touch areas and areas where known or suspected PCB containing equipment was currently or historically installed. A total of 300 surface swipe samples were collected, with 21 demonstrating detectable levels of PCBs. Of these 21 swipe samples, 19 are below the 40 Code of Federal Regulation (CFR) 761 acceptable levels after cleaning of high-occupancy areas.

The results are presented in the tables below.

Table 1: PCB Air Sampling Results

MAF	Results
All (15) LCC and (15) topside support buildings	No PCBs detected in any of the 30 air samples

Table 2: PCB Swipe Sampling Results

LCC	Results
8 LCCs	No PCBs detected in any of the 20 swipes collected per LCC (160 total).
5 LCCs	PCBs detected in 10/100 total samples collected across the 5 LCCs. All results below the 40 Code of Federal Regulation (CFR) 761.61 and 761.79 acceptable levels after cleanup activities.
2 LCCs	PCBs were detected in 11/40 total samples across the 2 LCCs. Nine (9) were below and two (2) were *above* the 40 Code of Federal Regulation (CFR) 761.61 and 761.79 acceptable levels after cleanup activities.

The USAF School of Aerospace Medicine is dedicated to the continued investigation of cancer concerns in the missile community. Our team will work with appropriate leadership and agencies to help further investigate, advise, and assist in developing clean-up, follow-up and medical recommendations based on the above findings. Our continued efforts will assure that a thorough look at all environmental and occupational hazards is conducted in order to guide a comprehensive and holistic response, including future recommended actions.

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