

January 31, 2020

Ms. Paula J. Smith
Business Administrator
Cape May County Technical School District
188 Crest Haven Road
Cape May Court House, NJ 08210

Dear Ms. Smith,

This report summarizes the results of the January 27, 2020 follow-up air monitoring of the Cape May Technical School MAC gym. This report is a follow-up to our mercury screening reports of December 2020. Dr. Richard M. Lynch, Ph.D., CIH conducted this assessment.

Airborne Mercury Test Results

The MAC gym's overhead air handler was operating at the time of inspection. Operating parameters were reported at 24/7 occupied mode at set point 65°F.

Air Monitoring Findings revealed the following:

- Outdoor airborne mercury was measured at approximately 0.04 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) approximately equivalent to the lower detection limit for the J505 Mercury Vapor Monitor. Outdoor temperature was approximately 50°F@35% relative humidity at the time of monitoring.
- MAC Gym – Spot monitoring for mercury within the MAC gym revealed airborne mercury levels ranging between 0.10 and 0.16 $\mu\text{g}/\text{m}^3$.
- Continuous air monitoring conducted within the gym between approximately 11:00 AM and 2:30 PM revealed average airborne mercury levels within the gym at 0.16 $\mu\text{g}/\text{m}^3$ and a maximum of 0.22 $\mu\text{g}/\text{m}^3$. Average temperature during this monitoring period was 65°F (see figure #1).
- Airborne mercury levels in all surrounding areas including the boys and girls locker rooms, weight room, gym hallway and main hallway were approximately equivalent to outdoor levels, ranging between 0.00 to 0.08 $\mu\text{g}/\text{m}^3$.
- All airborne mercury levels in the gym, stage, locker rooms and hallways were substantially lower than the NJ Department of health Guideline of 0.8 $\mu\text{g}/\text{m}^3$.

Conclusions and Recommendations

Based upon the above, it is our professional opinion that the airborne mercury levels within the MAC gym during our January 2020 monthly air monitoring with the HVAC running in 24/7

occupied mode at 15% minimum outdoor air damper position ranged between 0.10 and 0.16 $\mu\text{g}/\text{m}^3$ were substantially lower than NJ Department of Health guideline of 0.8 $\mu\text{g}/\text{m}^3$.

Thank you for the opportunity to assist you with the evaluation. Please contact me with any questions at (856)764-3557.

Sincerely,

Richard M. Lynch

Richard M. Lynch, Ph.D., CIH, FAIHA, CMC, CMRS, CHFM

Certified Industrial Hygienist

Certified Microbial Consultant

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