

December 10, 2019

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 letter summarizes the results of the November 26, 2019 follow-up air monitoring of the Cape May Technical School MAC gym for airborne mercury vapors. Air monitoring for airborne mercury was conducted within the MAC gym from approximately 10:30 to 2:30 PM on November 26, 2019 using a Jerome J505 Atomic Fluorescence Spectroscopy Mercury Vapor Analyzer. Temperature and humidity were monitored over the same period using a TSI Q-Trak 7575 IAQ monitor. Findings revealed the following:

- Outdoor airborne mercury was at approximately 0.03 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).
- Airborne mercury monitoring with the MAC gym ranged 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 2:00 PM revealed average airborne mercury levels within the gym at 0.15  $\mu\text{g}/\text{m}^3$  and a maximum of 0.21  $\mu\text{g}/\text{m}^3$ . Average temperature during this monitoring period was 66°F.
- 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 0.0 to 0.08  $\mu\text{g}/\text{m}^3$ .

Based upon the above, airborne mercury levels within the MAC gym during our November 2019 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  $\mu\text{g}/\text{m}^3$ . Our next monitoring will be conducted in January 2020.

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*

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