

October 15, 2026

Mr. Kelvin White
Director, Facilities
North Plainfield School District
33 Mountain Avenue
North Plainfield, NJ 07060

Dear Mr. White,

This report summarizes the results of our October 7, 2026 1st Quarter mercury air monitoring of the Somerset Intermediate School gym for mercury vapors. Evaluation criteria and methods are identical to those previously reported and will not be repeated herein.

I. Methods

The following methods were followed during this assessment:

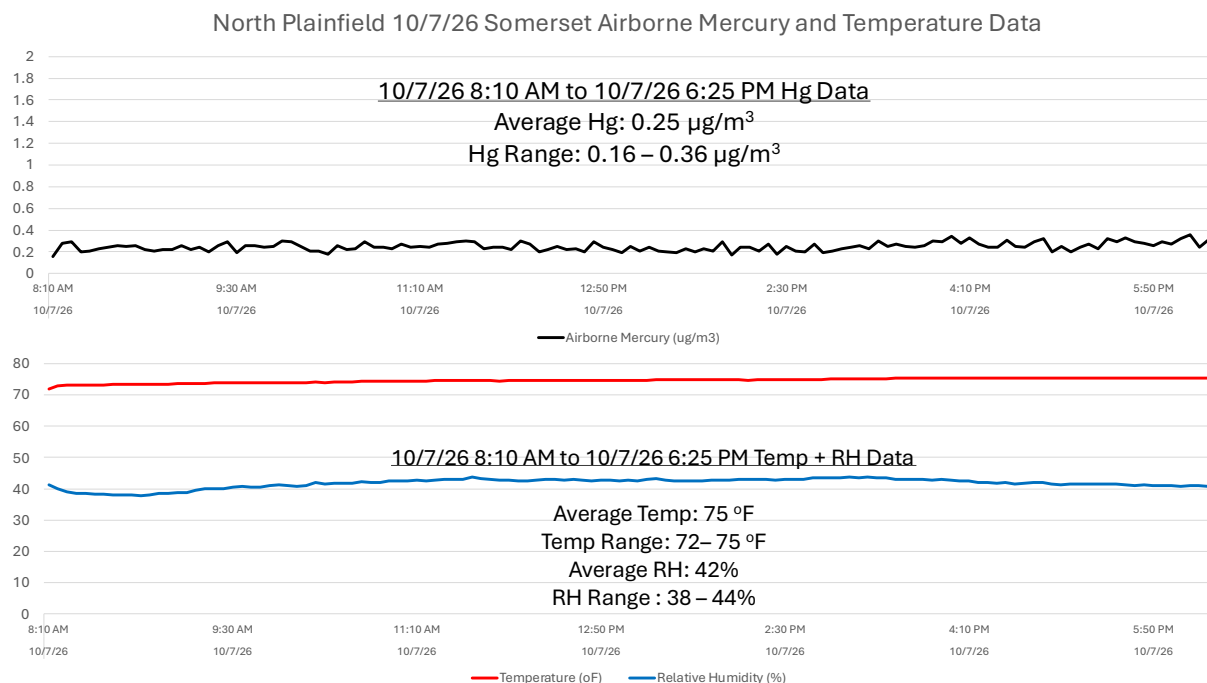
1. Continuous air monitoring was conducted over an approximate 10-hour period within the gym during normal occupancy by students and staff between approximately 8:10 AM on to 6:25PM on October 7, 2026.
2. All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection limit of $0.05 \mu\text{g}/\text{m}^3$ which reads as low as $0.00 \mu\text{g}/\text{m}^3$ with a resolution of 0.01.
3. Temperature and humidity were monitored over the same period using a TSI Q-Trak 7575 IAQ monitor.

II. Findings

Findings revealed the following:

- Outdoor airborne mercury was measured at approximately 0.01 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The outdoor temperature ranged between 45-69 °F during the inspection period.
- Airborne mercury levels measured in the gym **averaged $0.25 \mu\text{g}/\text{m}^3$ (range 0.16 to $0.36 \mu\text{g}/\text{m}^3$); well below the NJDOH Guideline of $0.8 \mu\text{g}/\text{m}^3$.**
- Gym temperature averaged approximately 75°F (range 72-75°F).

Figure #1 below shows details of continuous monitoring results.



III. Conclusions and Recommendations

The 1st Quarter October 7, 2026 routine mercury monitoring of the Somerset Intermediate School gym revealed that **airborne mercury averaged $0.25 \mu\text{g}/\text{m}^3$** . Despite air conditioner chillers functioning optimally and gym temperatures higher than normal, airborne mercury levels **were lower than the NJ Department of Health guideline of $0.8 \mu\text{g}/\text{m}^3$** .

Recommendations

1. Continue efforts to repair the gym's HVAC cooling system. To the extent possible, lower gym thermostat settings to approximately 70°F to reduce airborne mercury levels.
2. Until the cooling system is repaired open fresh air dampers to increase outdoor air introduction rates, cool outdoor weather conditions permitting.
3. Continue routine non-abrasive floor cleaning to remove accumulated dusts.

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, CMC, CMRS, CHFM

President - Environmental Safety Management Corporation - www.esmcorp.com

Certified Industrial Hygienist

Certified Microbial Consultant

Certified Microbial Remediation Supervisor

Certified Healthcare Facility Manager

NJ Licensed Indoor Environmental Consultant