



July 25, 2019

Mr. Charles D. Schriver, III
Director of Facilities
Clayton Public Schools
350 E. Clinton Street
Clayton, NJ 08312

RE: Mercury Vapor Air Sampling – Worst Case Scenario
Clayton High School - Auxiliary Gymnasium
Epic Project Number: 19-2129

Dear Mr. Schriver:

Epic Environmental Services, LLC collected a total of four air samples plus two blanks on July 16, 2019 to assess mercury vapor concentrations in the Clayton High School Auxiliary Gymnasium (Aux Gym) and adjacent area (Weight Room). Sample collection was performed in accordance with the “Mercury Hazard in Schools from Rubber-like Polyurethane Floors - Health and Safety Guide” for “Worst Case Scenario” evaluation. The ventilation was not operating for a period of eight hours prior to sampling and during sampling. Temperatures in the sampling area were allowed to rise along with the outdoor temperatures. The maximum outdoor temperature during sampling was 90° F. These conditions represent a scenario where maximum levels of mercury vapor are expected to be generated from the rubberized flooring.

Samples were collected for a period of six hours. The Aux Gym was unoccupied while samples were being collected.

Samples were analyzed by EMSL analytical, Inc. using NIOSH Method 6009 for total mercury. Results were compared to the New Jersey Department of Health action limit criteria of 0.8 µg/m³.

Mercury vapor concentrations inside the Aux Gym were **above** the criteria of 0.8 µg/m³. It is recommended that the Aux Gym be closed should the ventilation malfunction and become inoperable. The Aux Gym should remain closed under these conditions until the ventilation issue is addressed.

Please note that the Aux Gym may be occupied with **no restrictions** when the ventilation system is operating normally.

It is recommended that semi-annual sampling of the Aux Gym be performed in order to document long term mercury exposure concentrations.

Please do not hesitate to contact me at 856-205-1077 should you have any questions.

The invoice for the project is attached.

Regards,

James Eberts
President

Michael Menz, CIH, CHMM
Certified Industrial Hygienist
Certification Number 10718

HEALTH

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SAFETY

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ENVIRONMENT

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Sampling Summary

Mercury Vapor – NIOSH Method 6009

July 16, 2019

<u>Sample Location</u>	<u>Result</u>	<u>Notes / Conditions</u>
Aux Gym by Exterior Wall FIRST ROUND RESULT*	1.7 µg/m ³ 0.34 µg/m ³	Sample Collected 5.0' above floor Temp 79° - 82° F over sampling time Ventilation SHUT DOWN Area Unoccupied Sample time 8:22 am – 2:42 pm
Aux Gym by Back Wall FIRST ROUND RESULT*	1.9 µg/m ³ 0.37 µg/m ³	Sample Collected 5.0' above floor Temp 79° - 82° F over sampling time Ventilation SHUT DOWN Area Unoccupied Sample time 8:23 am – 2:44 pm
Weight Room FIRST ROUND RESULT*	0.35 µg/m ³ 0.16 µg/m ³	Sample Collected 5.0' above floor Ventilation operating normally Room unoccupied Sample time 8:23 am – 2:44 pm
Outside by Gym Entrance FIRST ROUND RESULT*	< 0.13 µg/m ³ < 0.12 µg/m ³	Sample time 8:24 am – 2:40 pm
Field Blank 1	“NONE DETECTED”	
Field Blank 2	“NONE DETECTED”	
Outside Temperature	Maximum high 90° F	

* First round samples were collected with the ventilation operating normally and temperatures within the normal range.