



State of New Jersey

DEPARTMENT OF HEALTH

CONSUMER, ENVIRONMENTAL AND OCCUPATIONAL HEALTH SERVICE

PO BOX 369

TRENTON, N.J. 08625-0369

[www.nj.gov/health](http://www.nj.gov/health)

PHILIP D. MURPHY  
Governor

SHEILA Y. OLIVER  
Lt. Governor

JUDITH M. PERSICILLI, RN, BSN, MA  
Acting Commissioner

September 12, 2019

Jeffrey Moore, Superintendent  
Hunterdon Central Regional High School District  
84 State Highway 31  
Flemington NJ 08822

**Re:** Hunterdon Central Regional High School  
Fieldhouse Gym  
84 State Highway 31  
Flemington NJ 08822  
Inspection No.: 1425020

Dear Dr. Moore:

Attached is a summary of the Indoor Air Quality monitoring performed at your facility on 08/21/2019 by a Compliance Safety and Health Officer from the PEOSH Program. Monitoring results did not indicate an exceedance of the Occupational Exposure Limit (OEL) value of 800 nanograms per cubic meter.

Based on the monitoring results, NJ PEOSH makes the following recommendations:

- Elevated mercury vapor readings were noted at the gymnastic equipment anchor point locations. The plastic barrier between the mercury-containing rubber flooring and the new wood floor was observed to be cut at these locations to allow for the installation of the anchor points. Sealing all anchor point locations is recommended to further reduce mercury vapors from off gassing into the gymnasium.
- Evaluate additional areas within the gymnasium where the plastic barrier may require sealing.
- Provide adequate ventilation within the gymnasium to aid in maintaining mercury vapor levels to below the OEL.
- Retain a professional environmental consultant experienced with evaluation and mitigation options regarding mercury-containing rubber flooring. The consultant should perform the necessary corrective actions above and conduct post-mitigation monitoring to ensure mercury vapors are maintained below the OEL within the gymnasium.

- Periodic monitoring of mercury vapor levels by a hired professional should be considered as long as the mercury-containing rubber floor remains in place.

This data shall be maintained in your files for at least two years, or until such time as another exposure assessment is performed. In addition, this data shall be made available upon request by an affected employee or designated representative as outlined in 29 CFR 1910.1020(e)(2) et seq.

Your action on behalf of safety and/or health in the workplace is sincerely appreciated.

Sincerely,



Glenn Pulliam, Program Manager  
Environmental and Occupational Health Assessment Program

cc: Union Representative  
Operations Manager  
Complainant





# Direct Reading Report

Thu, Aug 22, 2019 09:50 AM

Reporting ID	Activity/Visit Number	OIS Sampling Sheet Number		
0253410	1425020	351130		
Establishment Name		CSHO/Consultant Id	Sampling Date	
Hunterdon Central Regional High School		E8170	08/21/2019	
CSHO/Consultant Signature		Exposure Information	Number	Duration
			90	8 hour
Employee (Name, Address, Telephone Number) or Area Information			Exposure Frequency	
Hunterdon Central High School Fieldhouse Gym			5 days per week	
Job Title	Occupation Code	Weather Conditions	Photo(s)	
Teachers	EDUCATION TEACHERS			
		Interferences		
PPE (Type and Effectiveness)				
PPE Category	PPE Subcategory	PPE Effectiveness	Worn?	Description
Engineering Controls				
Control Category	Control Subcategory	Used?	Control Effectiveness	Description
Job Description, Operation, Work Location(s) and Ventilation				
Sampling Data				
Sampling Type	Area	Sample Purpose	Exposure assessment	Sample Status
Sample Devices				Draft
Analyze Samples for: (Indicate Which Samples to Include in Calculations)				
Substance Code	Substance Description			
1631	Mercury (Vapor) (as Hg)			
Direct Reading Data				
Total Time	Reading	Units <i>ng/m3</i>	Location & Remarks	
10:57:00 am	3	nanogram per sample	outside; breathing zone	
10:58:00 am	159	nanogram per sample	Field House Lobby; breathing zone	
11:00:00 am	389	nanogram per sample	Gym 1; breathing zone	



Direct Reading Data			
11:01:00 am	386	nanogram per sample	Gym 2; breathing zone
11:02:00 am	390	nanogram per sample	Gym 3; breathing zone
11:03:00 am	399	nanogram per sample	Gym 4; breathing zone
11:04:00 am	412	nanogram per sample	Gym 5; breathing zone
11:05:00 am	397	nanogram per sample	Gym 6; breathing zone
11:06:00 am	394	nanogram per sample	Gym 7; sampled above platform-blue mat; breathing zone
11:07:00 am	418	nanogram per sample	Gym 8; breathing zone
11:08:00 am	430	nanogram per sample	Gym 9; breathing zone
11:10:00 am	427	nanogram per sample	Gym 10; breathing zone
11:11:00 am	390	nanogram per sample	Gym 11; breathing zone
11:12:00 am	399	nanogram per sample	Gym 12; breathing zone
11:13:00 am	232	nanogram per sample	Michelle's Office; different flooring material ; breathing zone
11:17:00 am	126	nanogram per sample	Field House Rear Lobby; breathing zone
11:18:00 am	9	nanogram per sample	Outside; breathing zone

Exposure Summary													
Total Time	Read Out Value	Read Out Unit	OEL Value	OEL Unit	Severity	Citation Information							
						No Cit	FTA	Over Exp	Eng	PPE	Tmg.	Med	Other
21	430	nanogram per sample ng/m <sup>3</sup>	800	nanogr am per sample	.5375								

Additives(Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines	Case File Page	of
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I N S T R U M E N T	Pre-Sampling Calibration Records			Post-Sampling Calibration Records		
	Instrument(Type, Mfg. Model No., SN)		Results	Calibration Source		Location
	Location/T & BP	Calibration Source		Results		
	Initials	Date/Time		Initials	Date/Time	



# Direct Reading Report

Thu, Aug 22, 2019 09:54 AM

<b>Reporting ID</b>	<b>Activity/Visit Number</b>	<b>OIS Sampling Sheet Number</b>			
0253410	1425020	351136			
<b>Establishment Name</b>		<b>CSHO/Consultant Id</b>	<b>Sampling Date</b>		
Hunterdon Central Regional High School		E8170	08/21/2019		
<b>CSHO/Consultant Signature</b>		<b>Exposure Information</b>	<b>Number</b>	<b>Duration</b>	
			90	8 hour	
<b>Employee (Name, Address, Telephone Number) or Area Information</b>			<b>Exposure Frequency</b>		
Hunterdon Central High School Fieldhouse Gym			5 days per week		
<b>Job Title</b>	<b>Occupation Code</b>	<b>Weather Conditions</b>		<b>Photo(s)</b>	
Teachers	EDUCATION TEACHERS				
		<b>Interferences</b>			
<b>PPE (Type and Effectiveness)</b>					
<b>PPE Category</b>	<b>PPE Subcategory</b>	<b>PPE Effectiveness</b>	<b>Worn?</b>	<b>Description</b>	
<b>Engineering Controls</b>					
<b>Control Category</b>	<b>Control Subcategory</b>	<b>Used?</b>	<b>Control Effectiveness</b>	<b>Description</b>	
<b>Job Description, Operation, Work Location(s) and Ventilation</b>					
<b>Sampling Data</b>					
<b>Sampling Type</b>	<b>Area</b>	<b>Sample Purpose</b>	<b>Exposure assessment</b>	<b>Sample Status</b>	<b>Draft</b>
<b>Sample Devices</b>					
<b>Analyze Samples for:</b> <i>(Indicate Which Samples to Include in Calculations)</i>					
<b>Substance Code</b>	<b>Substance Description</b>				
1631	Mercury (Vapor) (as Hg)				
<b>Direct Reading Data</b>					
<b>Total Time</b>	<b>Reading</b>	<b>Units</b>	<b>Location &amp; Remarks</b>		
11:00:00 am	622	ng/m <sup>3</sup> nanogram per sample	Gym 1; floor level		
11:01:00 am	403	nanogram per sample	Gym 2; floor level		
11:02:00 am	459	nanogram per sample	Gym 3; floor level		



Direct Reading Data			
11:03:00 am	448	nanogram per sample	Gym 4; floor level
11:04:00 am	477	nanogram per sample	Gym 5; floor level
11:05:00 am	403	nanogram per sample	Gym 6; floor level
11:06:00 am	399	nanogram per sample	Gym 7; sampled above platform blue mat; floor level
11:07:00 am	502	nanogram per sample	Gym 8; floor level
11:08:00 am	489	nanogram per sample	Gym 9; floor level
11:10:00 am	599	nanogram per sample	Gym 10; floor level
11:11:00 am	443	nanogram per sample	Gym 11; floor level
11:12:00 am	443	nanogram per sample	Gym 12; floor level

Exposure Summary													
Total Time	Read Out Value	Read Out Unit	OEL Value	OEL Unit	Severity	Citation Information							
						No Cit	FTA	Over Exp	Eng	PPE	Tmg.	Med	Other
21	622	nanogram per sample ng/m <sup>3</sup>	800	nanogr am per sample	.7775								

Additives(Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines	Case File Page	of
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I N S T R U M E N T 1	Pre-Sampling Calibration Records			Post-Sampling Calibration Records		
	Instrument(Type, Mfg. Model No., SN)		Results	Calibration Source		Location
	Location/T & BP	Calibration Source		Results		
	Initials	Date/Time		Initials	Date/Time	



outside 2

Lobby 2

Lobby 1

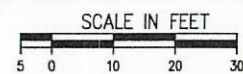
outside 1

(N)

(S)

Michelle's Office

G = Gym



Hunterdon Central  
High School -  
Field house Gym

