

**AERO ENVIRONMENTAL SERVICES, INC.**

ENGINEERING • CONSULTING • TESTING

275 Route 10 East, Suite 220-306, Succasunna, NJ 07876

Telephone (973) 920-9061

Fax (973) 529-0335

October 6, 2017

Ms. Robin Tedesco  
Business Administrator  
Parsippany Troy Hills School District  
PO Box 52  
Parsippany, NJ 07054

AERO Environmental Services Inc. (AERO) was contracted by the Parsippany-Troy Hills School District to collect bulk samples of a suspect mercury containing polymer floor in the Gymnasium.

**BACKGROUND**

The gymnasium floor is a solid rubber-like polymer floor covering over concrete. The floor was installed during the mid-1980's. A specific installation date is unknown.

Typical rubber-like polymers floors installed at the time used mercury as a catalyst when mixing the polymer to form the floor covering.

**DISCUSSION**

Two (2) bulk samples were collected from the gym floor. Each sample collected was approximately 1 inch by 1 inch. The samples were collected from behind the southside and northside bleachers near the wall. The samples were submitted to EMSL Analytical, Inc. for analysis for mercury content.

**CONCLUSIONS**

Based on the results, **both samples confirm the rubber-like polymer floor contains mercury.**

Sample FL-PHS-1, southside behind bleacher contained **150 mg/kg** (milligram per kilogram). This is equivalent to 150 ppm (parts per million).


Sample FL-PHS-2, northside behind bleacher contained **160 mg/kg** (milligram per kilogram). This is equivalent to 160 ppm (parts per million).

**RECOMMENDATIONS**

It is unknown what the current exposure levels are to students and staff. A sampling strategy with air monitoring should be conducted. Sampling should be conducted under several different building conditions. Indoor mercury emission levels may change based on room temperature or HVAC ventilation rates. This can cause exposure levels to be different during different times of the year.

If there are any questions regarding this report, please contact me right away.

Sincerely,



Michael S Berta  
Manager EHS

Attachments

EMSL Analysis Report with Chain of Custody



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**1 Pondsides Drive**  
**Ledgewood, NJ 07852**

10/5/2017

Phone: (973) 920-9061  
Fax: (973) 529-0335

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 9/22/2017. The results are tabulated on the attached data pages for the following client designated project:

**PHS Main Gym Floor**

The reference number for these samples is EMSL Order #011707661. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry  
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 011707661

CustomerID: AERO50

CustomerPO:

ProjectID:

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**1 Pondsides Drive**  
**Ledgewood, NJ 07852**

Phone: (973) 920-9061  
 Fax: (973) 529-0335  
 Received: 09/22/17 9:40 AM

Project: PHS Main Gym Floor

**Analytical Results**

**Client Sample Description** FL PHS-1  
 Southside Behind Bleacher  
**Collected:** 9/21/2017  
**Lab ID:** 011707661-0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
7471B	Mercury	150	9.4	mg/Kg	10/4/2017	JS	10/4/2017	JS

**Client Sample Description** FL PHS-2  
 North Side Behind Bleacher  
**Collected:** 9/21/2017  
**Lab ID:** 011707661-0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
7471B	Mercury	160	8.9	mg/Kg	10/4/2017	JS	10/4/2017	JS

**Definitions:**

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

011707661

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

OrderID: 011707661

Report To Contact Name: Michael Berta				Bill To Company: AERO Environmental Services Inc.			
Company Name: AERO Environmental Services Inc.				Attention To: Michael Berta			
Street: 275 Rt 10 East, 220-306				Street: 275 Rt 10 East, 220-306			
City: Succasunna		State/Province: NJ		Zip/Postal Code: 07876		City: Succasunna	
State/Province: NJ		Zip/Postal Code: 07876		City: Succasunna		State/Province: NJ	
Phone: 973 920 9061		Fax: 973 529 0335		Phone: 973 920 9061		Fax: 973 529 0335	
Project Name: PHS main Gym Floor				Email Results To: mberta@aeroenvironmental.net		U.S. State where Samples Collected: NJ	
Number of Samples in Shipment: 2		Date of Shipment: 9/21/17		Purchase Order:		Sampled By (Signature): <i>M Berta</i>	
Standard Turnaround Time: <input checked="" type="checkbox"/> 2 Weeks		The following TAT's are subject to lab approval: <input type="checkbox"/> 1 Week <input type="checkbox"/> 4 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day					
Failure to complete will hinder processing of samples				Matrix		Preservative	
				W=Water S=Soil A=Air SL=Sludge O= Other		1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	
Client Sample ID				Comp		Grab	
Date/Time				Date/Time		List Test(s) Needed	
① FL PHS-1				X		9/21/17 850	
② FL PHS-2				X		9/21/17 915	
Released By (Signature)				Date & Time		Received By	
<i>M Berta</i>				9/21/17 1510		<i>[Signature]</i>	
						20.8°C	
						9/22/17 09:40	
Please indicate reporting requirements: <input checked="" type="checkbox"/> Results Only <input type="checkbox"/> Results and QC <input type="checkbox"/> Reduced Deliverables <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other _____							
Instructions or Comments:							

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\*per Michael B: analyze for total Hg on 9/22 10:25

'FL PHS-1' = 10.6g  
'FL PHS-2' = 17.8g

②  
aFs 9/22