

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 30, 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 **Central Middle School Gym**.

BACKGROUND

The gymnasium floor is a solid rubber-like polymer floor covering over concrete. Rubber-like polymers floors may have 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 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-CMS-1, near baseboard by hallway (northeast side) contained **370 mg/kg** (milligram per kilogram). This is equivalent to 370 ppm (parts per million).

Sample FL-CMS-2, under bleacher (southwest side) contained **360 mg/kg** (milligram per kilogram). This is equivalent to 360 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

10/18/2017

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

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 10/16/2017. The results are tabulated on the attached data pages for the following client designated project:

Central MS Gym

The reference number for these samples is EMSL Order #011708325. 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 LCS recovery for Mercury was outside of the method control limits (low), therefore the results may be biased low.

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

EMSL Order: 011708325

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: 10/16/17 9:00 AM

Project: Central MS Gym

Analytical Results

| <i>Client Sample Description</i> | | <i>Collected:</i> | | <i>Lab ID:</i> | | | | |
|---------------------------------------|------------------|--------------------------|----------------|----------------|------------------|----------------|----------------------|----------------|
| FL-CMS-1 Near Baseboard by Hallway | | 10/14/2017 7:50:00 AM | 011708325-0001 | | | | | |
| <i>Method</i> | <i>Parameter</i> | <i>Result</i> | <i>RL</i> | <i>Units</i> | <i>Prep Date</i> | <i>Analyst</i> | <i>Analysis Date</i> | <i>Analyst</i> |
| 7471B | Mercury | 370 | 23 | mg/Kg | 10/17/2017 | JS | 10/17/2017 | JS |
| <i>Client Sample Description</i> | | <i>Collected:</i> | | <i>Lab ID:</i> | | | | |
| FL-CMS-2 Under Bleacher | | 10/14/2017 7:55:00 AM | 011708325-0002 | | | | | |
| <i>Method</i> | <i>Parameter</i> | <i>Result</i> | <i>RL</i> | <i>Units</i> | <i>Prep Date</i> | <i>Analyst</i> | <i>Analysis Date</i> | <i>Analyst</i> |
| 7471B | Mercury | 360 | 22 | mg/Kg | 10/17/2017 | JS | 10/17/2017 | JS |

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit (Analytical)



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRADING

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

011708325

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

Order ID : 011708325

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| 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: <u>Central MS Gym</u> | | | | Email Results To: <u>mberta@aeroenvironmental.net</u> | | U.S. State where Samples Collected: NJ | |
| Number of Samples in Shipment: <u>2</u> | | Date of Shipment: <u>10/14/17</u> | | Purchase Order: | | Sampled By (Signature): <u>[Signature]</u> | |
| Standard Turnaround Time: <input type="checkbox"/> 2 Weeks | | The following TAT's are subject to lab approval: <input checked="" 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 | |
| Comments | | | | | | | |
| ① FL-CMS-1 | | | | X | | X | |
| ② FL-CMS-2 | | | | X | | X | |
| Released By (Signature) | | | | Date & Time | | Received By | |
| [Signature] | | | | 10/14/17 11:30am | | [Signature] 23.0 | |
| | | | | | | 10/16/17 09:00 | |
| 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: <u>Mercury Content</u> | | | | | | | |

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[Signature]