



October 23, 2019

Mr. Lawrence Lore
Director of Facilities
South Harrison Township Board of Education
904 Mullica Hill Road, PO Box 112
Harrisonville, NJ 08039

RE: Concrete Floor Waste Classification Sampling
South Harrison Twp. Elementary School All Purpose Room
Epic Project Number: 19-3376

Dear Mr. Lore:

Epic Environmental Services, LLC performed concrete corings in three locations in the South Harrison Twp. Elementary School All Purpose Room (APR). The corings were necessary to assess whether mercury has leached into the concrete from the rubberized flooring, and if the concrete would be hazardous waste if removed.

A total of three 4" diameter corings were made on September 30, 2019 to an average depth of 3". The top ¼ inch from each coring was submitted to EMSL Analytical, Inc. for EPA "TCLP" Method 1311/7470A mercury analysis. The analysis predicts how the material would act in a landfill in order to estimate how much contaminant, in this case mercury, would leach into the environment. A result of 0.2 mg/L or above is considered failing, meaning the material would be classified as a hazardous waste if removed. A result below 0.2 mg/L confirms the material can be landfilled as non-hazardous construction waste.

The mercury concentration in two of the samples of the top ¼ inch were **ABOVE** the 0.2 mg/L threshold. A summary of the analytical results is found below:

<u>Coring/Sample Location</u>	<u>Mercury Concentration</u>	<u>Classification</u>
APR near Stage	0.025 mg/L	NON-HAZARDOUS
APR Center by Wall	0.29 mg/L	HAZARDOUS
APR near Water Coolers	0.23 mg/L	HAZARDOUS

With this information, it will be documented that the concrete subfloor is contaminated from the surface to a depth of ¼ inch. It is recommended that the contaminated material be removed along with the flooring and disposed of as hazardous waste.

Samples from ¼ inch to ½ inch from each coring were submitted for EPA "TCLP" Method 1311/7470A mercury analysis on October 12, 2019. Mercury concentrations in each sample from ¼ inch to ½ inch were **BELOW** the 0.2 mg/L threshold. A summary of the analytical results is found below:

<u>Coring/Sample Location</u>	<u>Mercury Concentration</u>	<u>Classification</u>
APR near Stage	< 0.020 mg/L (None Detected)	NON-HAZARDOUS
APR Center by Wall	0.011 mg/L	NON-HAZARDOUS
APR near Water Coolers	0.0075 mg/L	NON-HAZARDOUS

With this information, it will be documented that concrete below ¼ inch is not contaminated and can stay in place should the floor be removed.

HEALTH

Epic Environmental Services, LLC
Tele: 856.205.1077

SAFETY

1930 Brown Road
www.epicenviro.com

ENVIRONMENT

Newfield, New Jersey 08344
Fax: 856.205.0413

At this time, no additional sampling of the APR concrete floor is recommended. Any waste generated by removing the top ¼ inch of the **concrete floor** must be treated as mercury-contaminated **hazardous waste**. Please be reminded that earlier testing confirmed that the rubberized flooring shall be treated as hazardous waste if removed.

All analytical documentation is attached.

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

The invoice for the completed project is attached.

Regards,



James Eberts
President



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn: **James Eberts**
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344

10/9/2019

Phone: (856) 205-1077
Fax: (856) 205-0413

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 10/1/2019. The results are tabulated on the attached data pages for the following client designated project:

S. Harrison Elementary School - Gym Concrete

The reference number for these samples is EMSL Order #011912384. 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 amount of sample -0003 provided to the laboratory for TCLP analysis was less than the recommended minimum amount of 100 grams (EPA SW-846 Method 1311).

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: 011912384

CustomerID: EPIC62

CustomerPO: 19-3376

ProjectID:

Attn: **James Eberts**
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344

Phone: (856) 205-1077
Fax: (856) 205-0413
Received: 10/01/19 11:30 AM

Project: **S. Harrison Elementary School Concrete****Analytical Results**

Client Sample Description SHES-TCLP-01
APR-Near Stage
Collected: 9/30/2019
1:00:00 PM
Lab ID: 011912384-0001

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	0.025		0.0020 mg/L	10/8/2019 SW	10/08/19 0:00 SW
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Client Sample Description SHES-TCLP-02
APR-Center by Wall
Collected: 9/30/2019
1:30:00 PM
Lab ID: 011912384-0002

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	0.29		0.020 mg/L	10/8/2019 SW	10/08/19 0:00 SW
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Above 0.2 mg/L regulatory limit

Client Sample Description SHES-TCLP-03
APR-Water Fountains
Collected: 9/30/2019
2:00:00 PM
Lab ID: 011912384-0003

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	0.23		0.010 mg/L	10/8/2019 SW	10/08/19 0:00 SW
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Above 0.2 mg/L regulatory limit

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

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

RL - Reporting Limit (Analytical)

D - Dilution

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

011912384



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS & TRAINING
EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS & TRAINING

Report To Contact Name: James Eberts		Bill To Company: Epic Environmental Services, LLC	
Company Name: Epic Environmental Services, LLC		Attention To: James Eberts	
Street: 1930 Brown Road		Street: 1930 Brown Road	
City: Newfield	State/Province: NJ	City: Newfield	State/Province: NJ
Phone: 856-205-1077	Fax: 856-205-0413	Phone: 856-205-1077	Fax: 856-205-0413
Project Name: S. Harrison Elementary School - Gym Concrete		Purchase Order: 19-3376	
U.S. State where Samples Collected: NJ		Date of Shipment: 10/1/2019	
Sample for Compliance? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, NPDES? <input type="checkbox"/> Other (Specify):			
Samples Collected by: EMSL <input type="checkbox"/> Client <input checked="" type="checkbox"/> check one		Samples Received Chilled (Y/N)	
Standard Turnaround Time: <input type="checkbox"/> 2 Weeks		<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			
Client Sample ID	Comp	Grab	Collect Date/Time
SHES-TCLP-01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9/30/19 1300
SHES-TCLP-02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10/1/19 1330
SHES-TCLP-03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10/1/19 1400
	<input type="checkbox"/>	<input type="checkbox"/>	End
Released By (Signature)		Date & Time	
Jan. F. C.		10/1/19	
Received By		Date & Time	
[Signature]		10/1/19 11:30a	
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		Note: Field pH and Field Temperature are tested on the same day as the date of sample collection.	
Instructions or Comments: Sample # 393g 10/1 BC email client			

(Lab) Received Temperature: °C

per client email proceed 10/2 BC



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

**James Eberts
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344**

10/21/2019

Phone: (856) 205-1077

Fax: (856) 205-0413

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 10/14/2019. The results are tabulated on the attached data pages for the following client designated project:

S. Harrison Elementary School - APR

The reference number for these samples is EMSL Order #011912971. 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

EMSL Order: 011912971

CustomerID: EPIC62

CustomerPO:

ProjectID:

Attn: **James Eberts**
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344

Phone: (856) 205-1077
 Fax: (856) 205-0413
 Received: 10/14/19 11:05 AM

Project: **S. Harrison Elementary School - APR****Analytical Results**

Client Sample Description SH-TCLP-01A
 APR, by stage 1/4-1/2" **Collected:** 12/11/2019 **Lab ID:** 011912971-0001

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	ND		0.0020 mg/L	10/21/2019 SW	10/21/19 0:00 SW
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Client Sample Description SH-TCLP-02A
 APR, Center by wall 1/4-1/2" **Collected:** 12/11/2019 **Lab ID:** 011912971-0002

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	0.011		0.0020 mg/L	10/21/2019 SW	10/21/19 0:00 SW
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Client Sample Description SH-TCLP-03A
 APR by fountains 1/4-1/2" **Collected:** 12/11/2019 **Lab ID:** 011912971-0003

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

TCLP 1311/7470A	Mercury	0.0075		0.0020 mg/L	10/21/2019 SW	10/21/19 0:00 SW
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Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

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

RL - Reporting Limit (Analytical)

D - Dilution



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only):

011912971

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Report To Contact Name: James Eberts				Bill To Company: Epic Environmental Services, LLC						
Company Name: Epic Environmental Services, LLC				Attention To: James Eberts						
Street: 1930 Brown Road				Street: 1930 Brown Road						
City: Newfield		State/Province: NJ		City: Newfield		State/Province: NJ				
Phone : 856-205-1077		Fax : 856-205-0413		Phone: 856-205-1077		Fax: 856-205-0413				
Project Name: S. Harrison Elementary School - APR				Email Results To: jeberts@epicenviro.com						
U.S. State where Samples Collected: NJ				Purchase Order:						
Number of Samples in Shipment: 3				Date of Shipment: 12/14/19						
Sample for Compliance? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, NPDES? <input type="checkbox"/> Other (Specify):										
Samples Collected by: EMSL <input type="checkbox"/> Client <input checked="" type="checkbox"/> check one				Samples Received Chilled (Y/N)						
Standard Turnaround Time: <input type="checkbox"/> 2 Weeks				The following TATs 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										
Client Sample ID	Comp	Grab	Collect Date/Time	Matrix	Preservative	TCLP Mercury	List Test(s) Needed			Comments
							Field pH	Field Temp. Deg C	Field Test Time	
SH-TCLP-01A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12/14/19	O	NONE	X				APR, by Stage 1/4-1/2
SH-TCLP-02A	<input type="checkbox"/>	<input checked="" type="checkbox"/>		O	NONE	X				APR, Center by Wall 1/4-1/2
SH-TCLP-03A	<input type="checkbox"/>	<input checked="" type="checkbox"/>		O	NONE	X				APR by Fountains 1/4-1/2
	<input type="checkbox"/>	<input type="checkbox"/>								
Released By (Signature)		Date & Time		Received By		Date & Time				
[Signature]		12/14/19		[Signature]		10-14-19 11:03				
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:										
Note: Field pH and Field Temperature are tested on the same day as the date of sample collection.										

(Lab) Received Temperature: _____ °C

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