



July 17, 2019

School District of Philadelphia  
Office of Environmental Management & Services  
440 North Broad Street  
3<sup>rd</sup> Floor – Portal C  
Philadelphia, PA 19130

**Attention:** Mr. Brian Joseph

**Reference:** Lead Safe Certification Letter  
Chester A. Arthur Elementary School  
2001 Christian Street, Philadelphia, PA  
Criterion's Project Number: **191806**

Dear Mr. Joseph,

Criterion Laboratories, Inc. provided Lead Stabilization Oversight at the Chester A. Arthur Elementary School located at 2001 Christian Street, Philadelphia, PA. The stabilization scope of work was developed based on the Lead Safe Certification Assessment of the damaged paint observed and confirmed as lead-based paint by XRF analysis. The assessment scope was limited to the interior, below the suspended ceiling/enclosed ceiling, and student/teacher occupied areas only.

Mr. Jonathan McKinnon, a certified lead dust sampling technician performed the oversight activities during the stabilization on July 9, 2019. This letter certifies that the Chester A. Arthur Elementary school is deemed "Lead Safe" and is valid only up to the day of the stabilization activities.

Please contact me if you have any questions at (215) 244-1300, extension 1035.

Sincerely,

Ananth K. Vinjamuri  
Project Manager

Attachments include:

- Appendix A. Scope of Work Table**
- Appendix B. EPA Checklist Table**
- Appendix C. Oversight Table**
- Appendix D. Sample Results Table**
- Appendix E. Photographs**
- Appendix F. Environmental Firm Certification Documentation of Training**
- Appendix G. Paint Contractor Certifications or Documentation of Training**



# ***Summary of Paint & Plaster Stabilization Activities***



***Field  
Services***

**At:**

**#2480– Chester A. Arthur Elementary School  
2001 Christian Street  
Philadelphia, PA 19146**

**For:**

**Mr. Brian Joseph  
Environmental Services Manager  
School District of Philadelphia  
Office of Environmental Management &  
Services  
440 North Broad Street, 3<sup>rd</sup> Floor – Portal C  
Philadelphia, PA 19130**



***Lab  
Services***

**Prepared By:**

**Mr. Ananth K. Vinjamuri  
Project Manager**

**Report Date:**

**July 17, 2019**

**Project Number:**

**191806**

**Date of Project:**

**July 9, 2019**



***Training  
Services***

**Summary of Paint and Plaster Stabilization Activities**  
**School Name: Chester A. Arthur Elementary School**  
**Address: 2001 Christian Street**  
**Philadelphia, PA 19146**  
**UCLS #: 2480**

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## **I. INTRODUCTION**

Criterion Laboratories, Inc. (Criterion), was requested by the School District of Philadelphia's Office of Environmental Management Services (OEMS) to perform oversight and clearance testing during a paint and plaster stabilization project being performed by the School District Painters at Chester A. Arthur Elementary School located at 2001 Christian Street in Philadelphia, PA (the "School"). The purpose of the oversight was to document that all parts of the US Environmental Protection Agency (EPA) Lead Renovation, Repair and Painting rules were being followed and documented.

## **II. METHODS EXECUTIVE SUMMARY**

### **A. Preliminary Steps**

#### **i. Parent and Staff Notifications**

Parents and staff were notified of the paint and plaster project by mail several weeks prior to the commencement of the project. Additionally, prior to the start of the project, parent and staff meetings were held by OEMS, Maintenance, and Operations to explain the process of the paint and plaster projects and to field any questions or concerns.

#### **ii. Decluttering**

Classrooms, closets and other storage areas were decluttered prior to the commencement of stabilization work. Coordination of the decluttering activities was made between teachers and facilities staff to ensure that outdated and unneeded academic materials were discarded, and that resources were provided to assist in the decluttering tasks such as support staff for heavy lifting and/or moving large furniture and additional recycling dumpsters.

#### **iii. Wall Hangings**

Posters, bulletin boards, framed art and other wall hangings were removed prior to the commencement of the paint stabilization project. This was coordinated with teachers by the Operations Division at the kick-off meeting, and during the phasing of the project, with the help of the Principal.

#### **iv. Swing Space**

Swing space was identified prior to the commencement of stabilization work to ensure that classrooms were available during the school year. A plan was created on a school-by-school basis to relocate students and teachers from classrooms during the course of this work. All work areas were scheduled for cleaning by facilities staff after the paint stabilization work was completed by Maintenance Painting Staff.

## **v. Facilities Building Cleaning Staff Training**

Facilities Building Cleaning Staff were provided with information about this project and expectations for post-cleaning, including use of wet-wipes and HEPA vacuums.

### **B. Pre-Cleaning**

On an as-needed basis, for areas such as cluttered storage closets, that required extensive movement of materials, HEPA vacuuming, and wet-wiping prior to paint and plaster stabilization, the Maintenance Environmental staff performed a pre-cleaning in advance of stabilization work. The intent of this task was to provide a clean work area prior to decluttering and stabilization.

Additionally, post-cleaning was conducted by facilities staff after paint and plaster stabilization was completed. This included the HEPA vacuuming and wet-wiping of all horizontal surfaces and polishing floors.

### **C. Paint & Plaster Stabilization Procedures**

Paint and plaster stabilization work complied with the EPA's Lead RRP rule. All staff conducting this work were trained and/or certified as Lead RRP workers.

The following procedures were followed:

#### **i. Work Practices**

- Isolate work areas to restrict dust from impacting adjacent areas.
- Post signs/notifications as per EPA Lead RRP.
- Place "walk-off" pads at all access points into/out of work area.
- Seal all openings [windows, doors, and HVAC system registers/grilles] inside work areas as per direction from on-site environmental monitors and consistent with the EPA Lead RRP rules & guidelines.
- Workers are to wear disposable clothing and foot coverings while inside work areas and will not leave work areas wearing disposable clothing.
- Move/cover all remaining objects in work area to protect them. Including all open bins, shelves and boxes in the classroom.
- Employ/Erect "portable" dust containment barrier systems to limit the size of work areas requiring post-cleaning and limit testing and exposure.
- Place plastic floor coverings to extend at least 6 feet out from vertical surfaces being stabilized unless utilizing vertical barriers/containment systems.
- Perform all paint stabilization work in compliance with the EPA Lead RRP rules & guidelines and as per the directions of on-site environmental monitors to minimize dust contamination.
- Take all steps necessary to ensure that no dust or debris leaves the work area while the work is being performed.
- Use precautions to ensure that all employees, tools, and other items, including the exteriors of waste containers, are free of dust and debris before leaving the work area.

- Collect all paint chips & debris, fold up plastic floor coverings and any other plastic sheeting used on horizontal surfaces, without dispersing dust or debris and dispose of the material in heavy duty plastic waste bags.
- Do not use power tools.
- Do not use dry sweeping with brooms.
- Do use water/misting during stabilization to minimize dust.
- Do use HEPA vacuums and wet wiping/cleaning techniques.

## **ii. Oversight**

The environmental technician will oversee paint and plaster stabilization work to ensure compliance with lead safe work practices. An oversight report will be completed at the end of every shift to record the work areas that were stabilized. The following tasks will be verified and recorded:

- Pre-cleaning
- Contents moved
- Work area prepped
- Surfaces stabilized
- Contents back in place
- Final inspection approval and photos

## **D. Cleanup & Completion**

The following clean-up and completion procedures were performed for each work area following the completion of stabilization work:

### **i. Cleanup**

- There should be no signs of loose, peeling, flaking, bubbling or crumbling paint or plaster visible on walls or ceilings or on any other painted surfaces.
- There should be no visible signs of paint chips, debris or dust of any kind on surfaces within “contained” and isolated work areas NOR outside of the contained and isolated work areas.
- Window sills, floors, baseboards, shelving units, tops of cabinets, desks, chairs, tables and all other horizontal surfaces must be free of any visible signs of paint and plaster dust and/or debris.
- There must be absolutely no visible signs of paint chips, and/or paint/plaster dust or debris on academic/educational materials, including books, bins, toys, desks, chairs, carpets, papers, etc., after each work shift and to allow for re-occupancy the next day,
- Any remaining paint and plaster must be tightly adhered to wall and ceiling surfaces such that it cannot be further damaged, pried off or disturbed by “simple fingernail pressure” otherwise work will not be considered to be successfully completed.

- Newly painted surfaces should match the aesthetics of the area in total and should cover the entirety of the wall or ceiling area that was addressed through this work. No visible “patches” of paint should be observed.

## **ii. Testing**

The District and the PFT’s Environmental Consultant worked closely to develop an agreed upon approach to verify that stabilization work was performed in accordance with lead safe work practices, and that classrooms would be safe for re-occupancy by children and staff. This approach exceeds the EPA Lead RRP rule requirements in terms of the types of, and amounts of, testing performed. Testing will take place in work areas. The areas will be cleaned by general cleaners after the stabilization work is completed and the clearance testing is performed.

Qualitative testing methods, i.e., EPA RRP verification wipe testing and colorimetric wipe testing, will be compared with the quantitative testing method of Atomic Absorption Spectrophotometry (AAS) as indicated in the testing protocol below. If the comparison testing is consistently correlated, only qualitative testing will continue for the duration of the project.

### **a. Testing Protocol**

#### **Step 1 -- EPA RRP Verification Wipes and Colorimetric Wipes**

The environmental consultant and painter foreman will coordinate the EPA RRP Verification Test Wipe in rooms/areas that have been stabilized and cleaned, and where plastic work area coverings have been removed and visual inspection conducted. After EPA RRP verification wipes pass the cleanliness standard for any surface and/or a 40 square feet (SF) section, the colorimetric testing will be conducted by the environmental consultant.

The colorimetric wipe tests will occur in “child-occupied areas” on approximately 10% of surfaces considered “clean” following the use of the verification wipes. These surfaces may include floors, window sills, or the tops of any other immovable objects that were covered and cleaned in each work area (e.g. CUVs, immovable bookshelves). Additional colorimetric wipes may be collected on surfaces that had been moved and covered and placed outside of the work area. These surfaces may include desks, chairs, bookshelves, etc.

“Child-occupied areas” will include: classrooms, restrooms, cafeterias, gymnasiums, and auditoriums that are routinely used by children in PK-1st grade classrooms. Common areas that children in PK-1st grade classrooms only pass through, such as hallways, stairways, and garages are not included.

“Child-occupied areas” will be identified by the Principal of each school.

## **Step 2 -- Response to Failed Tests**

If colorimetric testing “fails,” then the 40 SF area will be re-wiped by EPA RRP Wipes. The process will continue until both testing methods confirm a “pass.”

## **Step 3 -- Flame Atomic Absorption Spectrophotometry (FAAS)**

Flame Atomic Absorption Spectrophotometry (FAAS) will be used to verify and confirm the results of the colorimetric testing. FAAS will be used as a quality assurance/quality control for the colorimetric samples. Approximately 10% of the colorimetric samples should be submitted for FAAS analysis.

## **Step 4 -- Release Spaces Back to School/Operations**

If EPA RRP wipes and colorimetric wipes are both acceptable, as determined on site, and if work was completed in accordance with this procedure, the room will be turned over to the District’s Operations team for “deep cleaning” and for re-occupancy.

## **Step 5 — Ongoing Review**

All sampling and testing data, information and results will be readily available and accessible for review by school staff, parents and members of the Oversight Advisory Committee and will be reviewed on a regular basis. Any suggested modifications, changes or other revisions will be considered by the School District of Philadelphia.

The three testing methods were conducted as follows:

<b>Type of Clearance Tests</b>	<b>Building Component</b>	<b>Number of Sample Locations within Work Area</b>	<b>Type of Testing</b>	<b>Testing Specifications/Limitations</b>
EPA RRP Cleaning Verification Wipe	Floors, Countertops, Desks, Tables, Window Sills	One (1) wipe every 40 square feet (ft <sup>2</sup> ) or entire surface of component if surface area is less than 40ft <sup>2</sup> One (1) wipe for every window sill	Qualitative	<ul style="list-style-type: none"><li>• Qualitative testing based on cleanliness (white glove test)</li><li>• According to RRP, the areas pass after the 3rd cleaning, regardless of verification</li></ul>



Colorimetric Wipe SKC, Inc. Full Disclosure® Instant Wipes	Floors, Countertops, Desks, Tables, Window Sills, Etc.	10% of surfaces considered “clean” following the use of EPA RRP Cleaning Verification Wipes	Qualitative	<ul style="list-style-type: none"> <li>• Qualitative testing based on colorimetric visual comparison</li> <li>• Lower Limit of Visual Detection is 18µg of lead</li> <li>• False positive and false negative interferences from silver, cadmium, barium, mercury, and titanium (percentages unknown)</li> <li>• Involves field preparation of sampling media using reagents</li> </ul>
Flame Atomic Absorption Spectrophotometry (AAS)	Analyze Colorimetric Wipes from locations listed above	A minimum of one and a maximum of 10% of colorimetric wipes will also be subjected to laboratory analysis by FAAS for verification. This testing method will be used on a periodic basis to validate the the accuracy of qualitative methods above.	Quantitative	<ul style="list-style-type: none"> <li>• Interior Floors and Desks: &lt; 20 µg/ft<sup>2</sup> This is based upon a District and PFT agreement. This is half the current HUD and EPA standard. This is tied to the detection level for the colorimetric wipe which is 18µg per wipe.</li> <li>• Window Sills: &lt; 100 µg/ft<sup>2</sup> per HUD</li> </ul>

### **III. OVERSIGHT**

#### **A. Scope of Work**

A scope of work was developed for Chester A. Arthur Elementary School following a room-by-room inspection of the Teacher/Student occupied areas of the school. During the inspection, the location and quantity of damaged paint and plaster, along with any associated debris and whether the damage was the result of an on-going moisture intrusion, were noted. This information was entered into a scope of work spreadsheet, which was provided to the School District Painting Department in order to create a schedule for the work to be completed.

During the paint and plaster stabilization project, additional areas of damage were found behind wall hangings, inside of closets that had now been decluttered, and behind furniture once it had been moved. These additional areas of work were added to the scope of work as they were observed.

The scope of work for Chester A. Arthur Elementary School is included in the Appendix A of this report.

#### **B. EPA Checklist**

Throughout the paint and plaster stabilization project, Criterion's on-site inspector observed, documented, and signed-off on tasks required by the EPA RRP. Additional notes were added to the EPA Checklist to document different oversight tasks that took place. These included documenting that warning signs were posted at the entrance to the work area, that the work area had been contained to prevent the spread of dust and debris, that all objects in the work area had been removed or covered, that all HVAC ducts in the work area were closed and covered, that windows in the work area were closed, that doors in the work area were closed and sealed, that doors that must be used in the work area were covered to allow passage but prevent the spread of dust, that floors in the work area were covered with taped-down plastic, that waste was being contained while on-site and while being transported, that the work site was properly cleaned after the renovations, that all paint chips and debris were picked up and that the protective sheeting was misted, folded dirty-side inward, and taped for removal, that the work area surfaces and objects were cleaned using HEPA vacuums and/or wet-wiping or mopping, that a certified renovator performed the post-renovation cleaning verification, a description of the post-renovation cleaning verification, including the number of wet and dry cloths used, and if the dust clearance testing was performed.

The EPA Checklist for Chester A. Arthur Elementary School is included in the Appendix B of this report.

### **C. Oversight**

Throughout the paint and plaster stabilization project, Criterion's on-site inspector documented the day-to-day tasks performed for each work area. These tasks included the dates of pre-cleaning, the moving of the contents of the room, the prepping of the work area, the stabilization of the painted surfaces, and the final inspection.

The Oversight Table for Chester A. Arthur Elementary School is included in the Appendix C of this report.

### **D. Sample Results**

Throughout the paint and plaster stabilization project, Criterion's on-site inspector documented all sampling results for each work area location. This included all RRP verification wipes, colorimetric wipes, and wipes to be submitted for Flame AAS analysis.

The Sample Results Table for Chester A. Arthur Elementary School is included in the Appendix D of this report.

## ***Appendix A. Scope of Work Table***

Chester A. Arthur ES  
Scope of Work

E l e m e n t	F l o o r			Student/ Teacher Occupied (yes/no)	Primary Component (see terms)	Substrate Material	Color	Description of Primary Damage (see terms)	Primary Component Damage Quantity (sf)	XRF Reading (mg/cm2)	Primary Component XRF (positive/ negative)	Additional Component (see terms)	Substrate Material	Color	Description of Paint and Plaster Damage (see terms)	Additional Component Damage Quantity (sf)	XRF Reading (mg/cm2)	Additional Component XRF (positive/ negative)	Debris Present (describe location)		Contents Need to be Moved	On-going Moisture Intrusion	Plastering Needed (yes or no)	Comments/ Description/ Notes
		On-Site Room Name																						
1	2	Classroom 200		yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Beam	Concrete	Yellow	Efflorescence	1	1.1	Positive	N/A	0	No	No	no	
1	2	Classroom 200		yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	Yellow	Efflorescence	1	1.1	Positive	N/A	0	No	No	no	
1	2	Classroom 202		yes	W2	Concrete	Yellow	Cracking	3	1.5	Positive	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	No	No	no	Beam
1	2	Classroom 205		yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	Yellow	Flaking	1	1.2	Positive	N/A	0	No	No	no	at the top of middle column
1	2	Girls Restroom across from Classroom 204		yes	Ceiling	Concrete	White	Cracking	3	1.2	Positive	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	No	No	no	
1	2	Classroom 204		yes	Ceiling	Concrete	White	Flaking/Cracking	5	1.1	Positive	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	No	No	no	Flaking in coat area (3 SF)
1	2	Classroom 209		yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	Yellow	Cracking	2	1.1	Positive	N/A	0	No	No	no	
1	3	Classroom 309		yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Beam	Concrete	White	Cracking	2	1.1	Positive	N/A	0	No	No	no	Horizontal Beam above windows

***Appendix B. EPA Check List Table***

Chester A. Arthur ES  
EPA Checklist

Task ID	ULCS#	E I e m e n t	F l o o r	Space # (see Floor Plan)	Space Type	On Site Room Name	Student/ Teacher Occupied	Date of Renovation	Brief Description of Renovation	Name of Assigned Renovator	Names of Trained Workers, if any	Name of Dust Sampling Technician, Inspector, or Risk Assessor, if used	Copies of renovator and dust sampling technician qualifications (training certificates, certifications) on file	Certified renovator provided training to workers on posting warning signs	Certified renovator provided training to workers on setting up plastic containment barriers	Certified renovator provided training to workers on maintaining containment	Certified renovator provided training to workers on avoiding spread of dust to adjacent areas	Certified renovator provided training to workers on waste handling	Certified renovator provided training to workers on post renovation cleaning	If, on the previous, identify the method used, type of test kit used (if applicable), laboratory used to conduct point chip analysis, describe sampling location and results	Warning signs posted at entrance to work area	Work area contained to prevent spread of dust and debris	All subjects in the work area removed or covered (interiors)	HVAC ducts in the work area closed and covered (interiors)	Windows in the work area closed (interiors)	Doors in the work area closed and sealed (interiors)	Doors that must be used in the work area covered to allow passage but prevent spread of dust	Floors in the work area covered with taped-down plastic (interiors)	Waste contained on-site and while being transported off-site	Work site properly cleaned after renovation	All chips and debris placed in protective churning bucket, folded dirty side inward, and taped for removal	Light fixtures inspected (Y/N)	Surfaces above light fixtures inspected (Y/N)	Work area surfaces and objects cleaned using HEPA vacuum and/or wet cloths or mops (interior)	Certified renovator performed post-renovation cleaning verification	Describe the results of post-renovation cleaning verification, including the number of wet and dry cloths used	If dust clearance testing was performed instead, attach a copy of the report	I certify under penalty of law that the previous information is true and complete (owner and title)	Date signed	
1	2480	1	2	200	Primary	Classroom 200	yes	7/9	Minimal Scraping Columns, Minimal	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	2 colorimetric = Pass	Yes	Jonathan McKinnon, Industrial Hygienist	7/9
2	2480	1	2	200	Primary	Classroom 200	yes	7/9	Scraping Columns, Minimal	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9
3	2480	1	2	205	Primary	Classroom 205	yes	7/9	Scraping Columns, Minimal	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9
4	2480	1	2	202	Primary	Classroom 202	yes	7/9	Minimal Scraping	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9
5	2480	1	2	207A	Superf Restrooms - Female (4-12)	Classroom 204	yes	7/9	Painting Ceiling, No scraping	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	1 colorimetric = Pass	Yes	Jonathan McKinnon, Industrial Hygienist	7/9	
6	2480	1	2	204	Primary	Classroom 204	yes	7/9	Painting Ceiling, Minimal Scraping	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9
7	2480	1	2	209	Primary	Classroom 209	yes	7/9	Scraping Columns, Minimal	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9
8	2480	1	3	309	Primary	Classroom 309	yes	7/9	Painting Beams, No Scraping	James Dugan, Ralph Garcia	James Dugan, Ralph Garcia	Jonathan McKinnon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	N/A	N/A	Yes	No RRP	N/A	N/A	Jonathan McKinnon, Industrial Hygienist	7/9

## ***Appendix C. Oversight Table***



Chester A. Arthur ES  
Oversight

Task ID	ULCS#	E l e m e n t	F l o o r	Space # (on Floor Plan)	Space Type	On Site Room Name	Student/ Teacher Occupied	Primary Component	Description of Paint and Plaster Damage - Primary Component	Primary Component XRF (positive/ negative)	Additional Component	Description of Paint and Plaster Damage - Additional Component	Additional Component XRF (positive/ negative)	Pre-Cleaning Completed (date)	Contents Moved (date)	Work Area Prepped (date)	Surfaces Stabilized (date)	Contents Back in Place (date)	Final Inspection Approval and Photos (date)	Comments from Assessment	Comments from Oversight
1	2480	1	2	200	Primary	Classroom 200	yes	W2	N/A	N/A	Beam	Efflorescence	Positive	7/9	7/9	7/9	7/9	7/9	7/9	Upper wall	Child Occupied Area (COA) (Determined after speaking with Principal). 2 colorimetric pass. 1 submitted for FAAS analysis. Sample Passed.
2		1	2	200	Primary	Classroom 200	yes	W2	N/A	N/A	Columns	Efflorescence	Positive	7/9	7/9	7/9	7/9	7/9	7/9	Lower wall	see above
3		1	2	205	Primary	Classroom 205	yes	W2	N/A	N/A	Columns	Flaking	Positive	7/9	7/9	7/9	7/9	7/9	7/9		
4		1	2	202	Primary	Classroom 202	yes	W2	Cracking	Positive	N/A	N/A	N/A	7/9	7/9	7/9	7/9	7/9	7/9		
5	2480	1	2	207A	Student Restrooms - Female (4-12)	Girl's Restroom across from Classroom 204	yes	Ceiling	Cracking	Positive	N/A	N/A	N/A	7/9	N/A	7/9	7/9	N/A	7/9		COA. 1 colorimetric pass. 1 submitted for FAAS analysis. Sample Passed.
6	2480	1	2	204	Primary	Classroom 204	yes	Ceiling	Flaking/Cracking	Positive	N/A	N/A	N/A	7/9	7/9	7/9	7/9	7/9	7/9		
7	2480	1	2	209	Primary	Classroom 209	yes	W2	N/A	N/A	Columns	Cracking	Positive	7/9	7/9	7/9	7/9	7/9	7/9		
8	2480	1	3	309	Primary	Classroom 309	yes	W2	N/A	N/A	Beam	Cracking	Positive	7/9	7/9	7/9	7/9	7/9	7/9		

***Appendix D. Sample Results Table***



## Results of Lead in Surface Wipe Samples

Client	<u>School District of Philadelphia</u>	Site Address	<u>Chester Arthur School, 2000 Catharine Street, Phila., PA 19146</u>	Sample Date	<u>7/9/2019</u>
Project #	<u>191806</u>			Sample Received Date	<u>7/11/2019</u>
Collected By	<u>Criterion Laboratories, Inc.</u>	Analyzed By	<u>Hudson, Craig</u>	Sample Analysis Date(s)	<u>7/11/2019</u>

Sample Number	Location / Description	Area Sampled (in <sup>2</sup> )	Lead Concentration
191806-06-023-02-01	Classroom 200-Floor At Wall 2 Column - Floor	144	< 10. µg/ft <sup>2</sup>
191806-06-023-02-02	207A-Girl's Restroom-Floor In Center of Middle Stall - Floor	144	< 10. µg/ft <sup>2</sup>

Sample Count 2

James A. Weltz, CIH, Technical Director

Reporting limit is 20 µg/wipe. Criterion Laboratories, Inc. bears no responsibility for sample collection activities of non-Criterion personnel. This report relates only to the samples reported above, and when reproduced, must be in its entirety. Estimated accuracy, precision and uncertainty data available on request. QC data associated with this sample set is within acceptable limits. Samples were received in good condition, unless otherwise noted.

Note: If your project number ends with an "R", it is a revised report and replaces the original document in full. Samples are digested and analyzed by Criterion Laboratories, Inc. Method CLI 26 [NIOSH 7082M Method: Lead by Flame Atomic Absorption Spectrometry (AAS)].



Criterion Laboratories, Inc. (ID 100424) is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the IHLAP; EMLAP and ELLAP accreditation programs for Polarized Light Microscopy (PLM), Phase Contrast Microscopy (PCM); Air-Direct Examination; and Airborne Dust, Paint, Settled Dust by Wipe and Soil for Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. Additionally, Criterion Laboratories, Inc. is certified by the Center for Disease Control (CDC) Environmental Legionella Isolation Techniques Evaluation (ELITE) Program for the determination of Legionella in water by culture and holds accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP ID 102046-0) for the determination of asbestos in bulk samples by Polarized Light Microscopy (PLM). This test report must not be used to claim product endorsement by NVLAP, NIST, AIHA or any agency of the US Government. Unless specifically listed as above, these test results are not covered under AIHA-LAP, LLC, 100424 accreditation.

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# Chain of Custody

**Matrix** Surface  
**Analyte** Lead  
**Analysis Type** Flame AA-EPA  
**Container** Tube  
**Project** 191806  
**Client** School District of Philadelphia  
**Site Address** Chester Arthur School, 2000 Catharine Street, Phila., PA 19146  
**Turnaround** 6 Hour  
**Field Tech** Jonathan McKinnon  
**Sample Notes**  
**Chain of Custody Notes**

## Additional Analytes

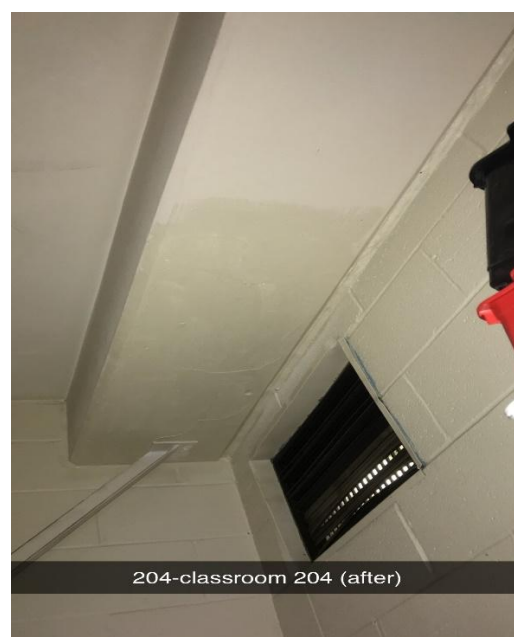
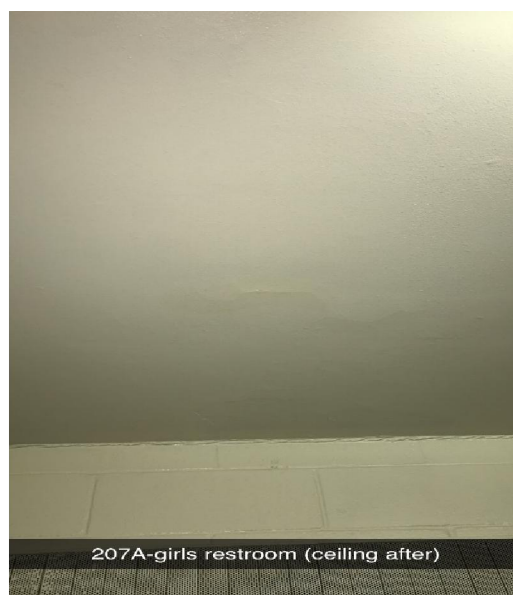
Sample Number	Location	Description	Received Condition	Date	Notes
191806-06-023-02-01	Classroom 200-Floor At Wall 2 Column	Floor	Good	7/9/2019	
191806-06-023-02-02	207A-Girl's Restroom-Floor In Center of Middle Stall	Floor	Good	7/9/2019	

**Sample Count** 2

Handling Chain Type	Handled By	Date	Time	Notes
Report Results To	Ananth Vinjamuri	7/9/2019	19:01	
Send Reports To	School District of Philadelphia	7/9/2019	19:01	
Samples Taken By	Jonathan McKinnon	7/9/2019	19:01	
Transported By	Jonathan McKinnon	7/9/2019	14:00	
Relinquished By	Jonathan McKinnon	7/9/2019	17:03	
Received By	Craig Hudson	7/11/2019	08:10	
Analyzed By	Craig Hudson	7/11/2019	10:30	

## ***Appendix E. Photographs***











## ***Appendix F. Environmental Firm Certification Documentation of Training***

**Documentation of Criterion Employees Assigned to Site with EPA RRP & Dust Sampling Technician Training**

First Name	Last Name	Course Description	Course End Date	Expiration Date
Julie	Mui	EPA-Lead Renovator Initial	4/8/2016	4/8/2021
Julie	Mui	Dust Sampling Technician Initial	1/8/2018	1/8/2023
Isa	Haj	EPA-Lead Renovator Initial	11/20/2015	11/20/2020
Isa	Haj	Dust Sampling Technician Initial	1/8/2018	1/8/2023
Mary Anne	Lerro	EPA-Lead Renovator Initial	9/10/2015	9/10/2020
Mary Anne	Lerro	Dust Sampling Technician Initial	1/8/2018	1/8/2023
Alyssa	Cartagena	EPA-Lead Renovator Initial	6/11/2018	6/11/2023
Alyssa	Cartagena	Dust Sampling Technician Initial	11/2/2016	11/2/2021
Gina	Fernandes	EPA-Lead Renovator Initial	12/3/2018	12/3/2023
Gina	Fernandes	Dust Sampling Technician Initial	11/20/2018	11/20/2023
Cristopher	Karoly	EPA-Lead Renovator Initial	12/17/2018	12/17/2023
Cristopher	Karoly	Dust Sampling Technician Initial	11/20/2018	11/20/2023

***Appendix G. Painting Contractor Certifications or Documentation of  
Training***

# Comprehensive List of Philadelphia School District Employees with EPA RRP Training

First Name	Last Name	Course Description	Course End Date	Expiration Date
Kyle	Adami	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Marcel	Allen	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
James	Archie	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Demetrius	Atwell	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Samuel	Atwell	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Shawn	Baldwin	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Michael	Baranek	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Chris	Bartella	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Chris	Bendig	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Michael	Bennett	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Gino	Berardinucci	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Jessica	Binda-Rischow	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Terrence	Blocker	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Damian	Boninfante	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
James	Borie	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Joe	Bowes	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Rhett	Boykins	EPA-Lead Renovator Initial	03-Nov-17	03-Nov-22
Robert	Broadnax	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Philip	Burton	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Randy	Bushnell	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Okang	Cambridge	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Michael	Cancelliere	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Anthony	Carruth	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Thomas	Casey	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Gabrielle	Cecala	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Anthony	Cecala	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Brian	Chambers	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Suzette	Christian	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Rich	Ciuckis	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Michael	Clark	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Harold	Clark, Jr.	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Joseph	Clemson	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Brian	Cook	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Jeff	Cook	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Kevin	Courtney	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Jahmai	Crawley	EPA-Lead Renovator Initial	03-Nov-17	03-Nov-22
Timothy	Creighton	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Steven	Creighton	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Joe	Curran	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Kevin	Curry	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Demetrius	Dancey	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20

Fran	Davis	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
James	Davis (diff emp.)	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Edmund	Davis, Jr.	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23
Anthony	Devlin	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Ken	Dickson	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Mark	DiGiambattista	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Steve	Dolan	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Stephen	DuBan	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
James	Dugan	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Mark	Dugan	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Donald	Eife	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
George	Faccenda	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Anthony	Fiore	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Bill	Flanigan	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Michael	Flannery Sr.	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Joseph	Flannery, Jr.	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
David	Foster	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Anthony	Gajdowski	EPA-Lead Renovator Initial	30-Jul-14	30-Jul-19
Joseph	Gallagher	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Stephen	Gallagher	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Harold	Ganskopp, Jr.	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Ralph	Garcia	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
James	Garofolo	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
John	Genovese	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Joe	George	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Thomas	Gibson	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
John	Gidzinski	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
James	Gillice	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Melvin	Goins	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Damon	Gonzaga	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Raynaldo	Gonzalez	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
John	Gordon	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Frank	Gosciminski	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Kwamie	Grove	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Ron	Hackimer	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Richard	Hagenbuch	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
James	Hall	EPA-Lead Renovator Initial	11-Jul-18	11-Jul-23
David	Hampton Jr.	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Gerard	Harkins	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Erica	Hickey	EPA-Lead Renovator Initial	20-Mar-18	3/20/2023
Wayne	Hogeland	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Timothy	Holman	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Durelle	Holmes	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23

Richard	Houck	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Alfred	Howard	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23
Wayne	Howard	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Timothy	Humes	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Lance	Jackson	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Eric	Johnson	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
James	Johnson	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Jimmie	Johnson	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Walter	Johnson	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Donald	Johnson Jr.	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Jesse	Jones	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Gerald	Joniec	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Brian	Joseph	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Anthony	Jubilee	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Gerald	Junod	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Joe	Kehoe	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
John	Kenney	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Mary	Koehler	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Richard	Kovacs	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
John	Krol	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Michael	Leone	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
George	Leone	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Richard	Lepore	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Walter	Lipski	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
David	Loftus	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Eloy	Lopez Jr.	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Augustus	Lover, III	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Michael	Lowe	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Harry	Lowe, Jr.	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Kenneth	Mack	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Thomas	Malkowski	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Thomas	Malkowski, Jr.	EPA-Lead Renovator Initial	03-Nov-17	03-Nov-22
Kevin	Malone	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Dante	Mancini	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Stephen	Manna	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Charles	Markey	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Derrick	Matthews	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Benedict	Matthews	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Kevin	McAfee	EPA-Lead Renovator Initial	30-Jul-14	30-Jul-19
Gerard	McAnena	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Jim	McBride	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
John	McFarlane	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Mikkel	McKinnie	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20

Patrick	McMahon	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Pat	McMahon	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Matthew	Melady	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Joe	Mellina Jr.	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Harry	Milbourne	EPA-Lead Renovator Initial	30-Jul-14	30-Jul-19
Christopher	Moore	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Mike	Moore	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Mike	Moore	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Earl	Morris	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
William	Muller	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Jorge	Naveiro	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Richard	Nedorost	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Ernest	Neven	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23
Scott	Ovington	EPA-Lead Renovator Refresher	28-Apr-15	28-Apr-20
Benjamin	Pak	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Vernon	Palmer	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Derek	Parker	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Percy	Payno	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Jose	Perez	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Edward	Perks	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Salvatore	Perrone	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
John	Pilotti	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Alfred	Pizzo	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
James	Pizzo	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23
Ernest	Purvis	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Kevin	Quigley	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Luke	Quinn	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Fred	Raskay	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Frank	Ratka, II	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Pat	Raynor	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Jim	Reick	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Michael	Reilly	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Eric	Ricchezza	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Shawn	Robinson	EPA-Lead Renovator Initial	01-Apr-15	01-Apr-20
Joseph	Ryan	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Salvatore	Sansone	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
William	Savage	EPA-Lead Renovator Initial	20-Mar-18	20-Mar-23
Bruce	Savage	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Ricky	Scarbrough, Sr.	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Jeff	Schillig	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Steven	Schmidt	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Harry	Schmitt	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Jeff	Scott	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20



Tom	Sharer	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
David	Sienko	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Frank	Sienko	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Gregory	Smith	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
William	Soda	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Raymond	Solley	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Lukose	Solomon	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Joseph	Stewart	EPA-Lead Renovator Refresher	21-May-15	21-May-20
Frank	Stramitis	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Mario	Tamborello	EPA-Lead Renovator Initial	11-Aug-14	11-Aug-19
Christopher	Taylor	EPA-Lead Renovator Initial	30-Jul-14	30-Jul-19
Harry	Thomson	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Ray	Tierney	EPA-Lead Renovator Refresher	02-Apr-15	02-Apr-20
Vincent	Tonelli	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Vincent	Trasatti	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Richard	Tremonte	EPA-Lead Renovator Refresher	20-Mar-15	20-Mar-20
Nicholas	Umile	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Gerald	Watson	EPA-Lead Renovator Refresher	19-Mar-15	19-Mar-20
Tim	Weicker	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
Stephen	Weiss	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
George	Weissman	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Lee	White, II	EPA-Lead Renovator Initial	20-Apr-18	20-Apr-23
William	Wilson	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Timothy	Witczak	EPA-Lead Renovator Refresher	09-Mar-15	09-Mar-20
Denice	Witkowski	EPA-Lead Renovator Initial	17-Nov-17	17-Nov-22
Robert	Yerkov	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Tim	Yust	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20
Eric	Zeoli	EPA-Lead Renovator Refresher	10-Mar-15	10-Mar-20