



## **Chester Upland School District Toby Farms Intermediate School**

### **Renovations**

**Addenda No. 03  
Issued 04-11-23**

Please be advised that Addenda No. 03 is hereby released for the above listed solicitation. This addendum addresses the following items:

- **Toby Farms Environmental Report**
- **RFI Clarification Document**
- **Bid Extension Advertisement – RFI period to close 4/17 with bids due 4/21**

NOTICE OF ADVERTISEMENT FOR BID EXTENSION:

**Chester Upland School District – ESSER Projects**

- 1. Toby Farms Intermediate School, HVAC and Window Upgrades**
- 2. CUSA Chiller Replacement**

**Public notice is given that sealed bids/proposals will be received online via the PennBid Program by the Chester Upland School District by April 21, 2023 until 4:00 PM prevailing time. This timeframe has been extended from the original deadline on April 14, 2023.**

Bidders are required to submit a surety in the form of a bond or equivalent meeting 10% of the overall bid price in compliance with the contract documents. Bid bonds will be returned to the non-awarded bidders upon the execution of the contract. The successful Bidder shall also be required to provide a Performance Bond in an amount of one hundred percent (100%) of the Contract amount within ten (10) calendar days of receipt of written notice of acceptance of the Bid.

There is no physical public bid opening for this project, bids will be revealed via the PennBid website.

A uniform fee of 0.333% ( $\frac{1}{3}$  of 1 percent) of the bid amount (up to \$5,000) is applied only to bidders who are awarded contracts. No fees apply to bidders who submit without being awarded the contract.

All interested parties must submit questions via the web based system, by the posted deadline for questions. Bidders are not permitted to contact the Engineer or staff directly.

The Bidder's attention is called to the fact that this project is assisted with federal funds, and various federal requirements apply as noted in the bid documents, including but not limited to equal opportunity provisions. Davis-Bacon and Related Acts.

The Bidder's attention is called to the fact that this project is subject to the Pennsylvania Department of Education Standard Terms and Conditions for federally funded grants.

The Contract Documents contain all pertinent regulations. Award of the contract will be to the lowest responsible bidder. The Owner reserves the right to reject any or all bids or to accept any portion of any bid, and to award Contracts as is deemed best for the Owner.

Receiver Nafis Nichols  
Chester Upland School District

Advertised in the Delaware County Times:  
Wednesday, April 12, 2023

CLARIFICATIONS (40 records) 🗑️ + ⚙️

QUESTION	RESPONSE	FULL NAME	CONTACT COM	ATTACHED FILE	DATE ASKEI	RESPONSE DAT	VISIBLE ONLINE TO	SEND EMAIL NOTIFICAT
<input type="checkbox"/> May we have a range of probable cost?	CUSD is not disclosing the budget for this project.	Karen Kleber	PBX		3/17/2023 8:08 AM	3/17/2023 3:48 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> Is this for both Toby Farms Intermediate and the CUSA chiller replacement? or will they be sperate pennbid links for each?	This bid is only for Toby Farms Intermediate School. The CUSA Chiller Bid is currently open and available on Pennbid. <a href="#">Link to CUSA Chiller Bid</a>	Mark Haley	Myco Mechanical, Inc.		3/17/2023 9:46 AM	3/17/2023 9:58 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> Is the Bid Bond amount 10% as noted in the Notice to Contractors or 5% as noted on the Bid Form?	10% per the Notice to Contractors	Larry Jr Paolella	L.J. Paolella Construction, Inc.		3/17/2023 12:30 PM	3/17/2023 3:42 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> To clarify, as per the Bid Form, the only documents to be submitted WITH the bid are the bid form, bid bond, alternates form and unit prices form? All other forms should be submitted upon award?	Documents to the submitted with the Bid shall include the following: <ul style="list-style-type: none"> <li>Non-Collusion Affidavit</li> <li>Bid Bond</li> <li>Signed Bid Form</li> <li>Signed Unit Prices Form (If Applicable)</li> <li>Signed Alternates (If Applicable)</li> <li>Subcontractor Declaration - They may push back on this</li> <li>Non-Discrimination Clause</li> <li>Conflict of Interest and Records of Required Audits</li> <li>Accepting Provisions of the Workers Compensation Act</li> <li>Certification of Compliance with Federal Labor Standard Provisions</li> <li>MBE/WBE Outreach</li> <li>Certification of Compliance with Air and Water Acts</li> <li>MBE/WBE Contact/Solicitation Statement</li> <li>Certification of Non-Segregated Facilities</li> <li>Verification of Contractor Eligibility</li> <li>Bids Qualifications</li> </ul>	Larry Jr Paolella	L.J. Paolella Construction, Inc.		3/17/2023 12:31 PM	3/17/2023 3:41 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> What is the purpose of the included NorthStar Project Estimate Summary document?	While not required for bid submission the Project Estimate Summery/Bid Cost by Division helps descope and evaluate bids accurately and in a timely fashion.	Larry Jr Paolella	L.J. Paolella Construction, Inc.		3/20/2023 10:00 AM	3/20/2023 11:11 AM	All Bidders	Bidder Asking Question
<input type="checkbox"/> Is there a cost estimate or budget associated with this project?	CUSD is not disclosing the budget for this project.	Sean Peguero	ConstructConnect		3/20/2023 10:20 AM	3/20/2023 10:35 AM	All Bidders	None
<input type="checkbox"/> Based on the bid form and the pricing tab in Pennbid, how do you know what contract each contractor is bidding on? There is no delineation.	<del>The CUSD Toby Farms Renovation project is a single prime project.</del> This answer has been superseded by Addenda 01. This project is Multi-Prime.	Dwight Eisenhauer	JBM Mechanical, Inc		3/21/2023 8:29 AM	3/23/2023 11:42 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> You answered that this project is a Single Prime bid. That isnt according to the Multiple Contract Summary. That shows 3 separate contracts (GC, MC, EC). Please confirm again how this is to be bid.	This project is Multi-Prime. See Addenda 01 for more details.	Dwight Eisenhauer	JBM Mechanical, Inc		3/23/2023 8:19 AM	3/23/2023 11:43 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> Is there a distance from "MDPA' to the PECO line?	For the purposes of the bid, the contractor shall assume that the distance from the MDPA to the PECO is 400'. Final requirement will need to be confirmed with the contractor and PECO.	Vince Ford, Jr	Ford Brothers Electric		3/23/2023 8:30 AM	3/28/2023 10:11 AM	All Bidders	Bidder Asking Question
<input type="checkbox"/> Is there a schedule for when this work is supposed to take place?	Work is to being at Notice to Proceed and has a hard completion date of July 31, 2024.	Vince Ford, Jr	Ford Brothers Electric		3/23/2023 9:28 AM	3/23/2023 11:45 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> Please clarify whether this project is single prime or multi-prime.	This project is Multi-Prime. See Addenda 01 for more details.	Larry Jr Paolella	L.J. Paolella Construction, Inc.		3/23/2023 9:49 AM	3/23/2023 11:44 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/> Is this Project Single Prime or Multi Prime? Spec Section States General, Mechanical and Electrical Contracts. The Response Tab on PennBid only has one, "Total Stipulated Sum" entry. Please Confirm	This project is Multi-Prime. See Addenda 01 for more details.	Jim Conlin	L.J. Paolella Construction, Inc.		3/23/2023 9:56 AM	3/23/2023 11:44 AM	Bidder Asking Question	Bidder Asking Question

<input type="checkbox"/>	Spec. SECTION 011200 - MULTIPLE CONTRACT SUMMARY	This project is Multi-Prime. See Addenda 01 for more details.	Jim Conlin	<a href="#">L.J. Paoella Construction, Inc.</a>	3/23/2023 9:58 AM	3/23/2023 11:44 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Is this a multi prime or single prime project?	This project is Multi-Prime. See Addenda 01 for more details.	Jane Best-Weick	<a href="#">Bancroft Construction Company</a>	3/23/2023 10:56 AM	3/23/2023 11:44 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Looking over the Phasing Dwgs. just released, the date states July 31st, 2024, is this correct?	Construction must be completed by July 31, 2024. Work is to begin at Notice to Proceed.	Jim Conlin	<a href="#">L.J. Paoella Construction, Inc.</a>	3/23/2023 2:47 PM	3/23/2023 2:55 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Phasing drawing issued in Addendum #1; one sheet is labeled Phase D and the other is labeled Phase E, then each sheet is color coded for five separate phases. Please clarify Phases D and E, as well as #1 through #5 (#6 is noted but no color associated with it).	These are two of the possibilities for the phasing plans, Plan D c Plan E. As of now both are an option until a final phasing plan has been selected. Phases 1-5 are all color coded to the section of school they correspond to. Phase 6 is work that will happen throughout the whole school.	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:04 AM	3/30/2023 11:46 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Phasing drawing issued in Addendum #1; notes Notice to Proceed is July 31, 2024; if this is correct what are the dates for the different phases?	Work is to begin this summer 2023 with Notice to Proceed, actual start in field tbd by material availability/permitting requirements, etc.. All work must be completed by July 31, 2024	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:05 AM	3/30/2023 1:31 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Specification #064023 appears to call out the casework as wood veneer, with plastic laminate as Alternate #4; paragraph 2.6-C. Alternate #4 seems to have nothing to do with the casework. Please clarify required cabinet construction; wood or plastic laminate.	The drawings indicate PLAM cabinets and that should be the base bid. The solid wood cabinets with transparent finish should be listed in the specifications as ALTERNATE #6 and added to SCHEDULE OF ALTERNATES as such.	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:05 AM	4/3/2023 9:52 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Casework Section Details #1 & #2 on A801 appear to show "Face-Frame" style casework construction, please advise if frameless construction is acceptable.	"Face-Frame" style casework is required.	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:05 AM	4/3/2023 9:45 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Specification #064023 call out the plastic laminate casework to have a Self-Edge treatment (HPL), paragraph 2.6-C-2-d. Please advise if .018" Thick PVC matching the HPL in color will be acceptable	PVC is not acceptable.	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:06 AM	4/3/2023 9:44 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Specification #064023 call out the plastic laminate countertops to have a Self-Edge treatment (HPL), paragraph 2.6-F-8. Casework Section Details #1 & #2 on A801 call out the plastic laminate window sill and countertop edge as being solid wood. Please advise if the plastic laminate window sill and countertop edges are to be solid wood or HPL self-edge.	Delete solid wood edge, HPL self-edge is preferred.	Paul McKeon	<a href="#">LJ Paoella Construction, Inc.</a>	3/30/2023 11:06 AM	4/3/2023 9:52 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Is this multi-prime? the bid form has separate pricing for GC, Mechanical, and Electrical. However it was mentioned at pre bid that its single prime	This project is Multi-Prime. See Addenda 01 for more details.	Mike Ferguson	<a href="#">S.B. Conrad, Inc.</a>	3/31/2023 10:38 AM	3/31/2023 10:52 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Drawing A7.01 is missing from bid set	A7.01 was removed from the set. Elevations are now on A602. A701 should have been removed from the drawing list.  Tags on plan are also erroneous. They still refer to A701 for interior elevation. Should be A602	Mike Ferguson	<a href="#">S.B. Conrad, Inc.</a>	4/3/2023 8:18 AM	4/3/2023 3:07 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Drawing A311c references detail 7 on A501. However, A501 says that detail is not used.	7 on A501 was an exterior elevation that had no windows. We removed from the set. Should have also removed the 7/A501 tag on A311C	Mike Ferguson	<a href="#">S.B. Conrad, Inc.</a>	4/3/2023 8:20 AM	4/3/2023 3:08 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Who is to pay for permits	The contractor is required to apply and pay permit fees. All permit fees will be reimbursed by the District.  The District does not have a control vendor for Toby Farms. Currently, the District works with Johnson Controls and CM3. Their contact is as follows:  Bill Lawrence  VP of Security  CM3 Building Solutions Inc.  Cell: 215-970-4041    Johnson Controls service number.  866-412-8080	Mike Ferguson	<a href="#">S.B. Conrad, Inc.</a>	4/3/2023 8:43 AM	4/3/2023 1:52 PM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Page 23 09 33 - 1 states "Contractor to obtain pricing from owner's controls vendor (and include in his bid)"... Please specify who the owner's control vendor is?		Lionel Owona	<a href="#">MCCLOSKEY MECHANICAL CONTRACTOR INC</a>	4/3/2023 11:39 AM	4/3/2023 1:51 PM	Bidder Asking Question	Bidder Asking Question

<input type="checkbox"/>	Is the roof under warranty? If so, please specify who holds the warranty.	The District is unaware of any warranties.	Lionel Owona	<a href="#">MCCLOSKEY MECHANICAL CONTRACTOR INC</a>	4/3/2023 11:41 AM	4/3/2023 1:52 PM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	What is the basis of design for the "VRF HEAT RECOVERY BOX SCHEDULE"?	The basis of design for the VRF system is LG. The model number for the recovery boxes is on the schedules.	Lionel Owona	<a href="#">MCCLOSKEY MECHANICAL CONTRACTOR INC</a>	4/4/2023 10:04 AM	4/4/2023 1:51 PM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	Is there a possibility of extending the bid to the following week? It would be greatly appreciated.	At this time there is no plan to extend the bidding period.	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 10:55 AM	4/6/2023 2:15 PM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	1. Plumbing demo plans show existing gas to be demolished entirely back to existing meter (meter demo by gas company), is there existing gas serving kitchen equipment that is to remain?		Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:08 PM		Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	2. Plumbing new work and single line show gas to be extended to all new rooftop/eru units. Is there existing gas serving kitchen equipment that will need to be reconnected?		Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:08 PM		Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	3. Plumbing drawing P501 schedules is blank, is this drawing applicable?	Drawing P501 is not needed.	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:08 PM	4/7/2023 11:04 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	4. Plumbing drawing P601 single line, gas riser diagram note #3 calls for all exterior gas piping to be painted. Is this the responsibility of the GC contract?	Painting will not be required.	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:09 PM	4/7/2023 11:05 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	spec section Metal ducts 233113-5 states all duct lined except exhaust	Per the drawings, "ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION and "THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:10 PM	4/10/2023 11:42 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	spec section Insulation 230713-14 states blanket or board insulation. which is correct	Blanket insulation is preferred for concealed ducts. Exposed square ductwork should board insulation. If round duct work is proposed, double wall duct shall be utilized.	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 2:10 PM	4/10/2023 11:42 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	Is each individual trade responsible for their own cutting and patching?	Each contractor is responsible for their own cutting and patching.	Jim Conlin	<a href="#">L.J. Paoella Construction, Inc.</a>	4/6/2023 2:43 PM	4/7/2023 11:03 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	spec section Metal ducts 233113-5 states all duct lined except exhaust. spec section Insulation 230713-14 states blanket or board insulation. which is correct	Per the drawings, "ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION and "THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING	Erica Maychuk	<a href="#">Trefz Mechanical, Inc.</a>	4/6/2023 3:20 PM	4/7/2023 11:06 AM	Bidder Asking Question	Bidder Asking Question	
<input type="checkbox"/>	After reviewing the contract documents it seems that the Owner may want to entertain installing Fixed Modular Laminate Clad Casework and Components in lieu of the casework specified. We have attached a sample specification for your review and consideration.	The system may be submitted as a substitution request and that the district has reviewed it and finds it an acceptable substitution.	Larry Jr Paoella	<a href="#">L.J. Paoella Construction, Inc.</a>	<a href="#">Fixed Modular Laminate Clad Casework and Components.pdf</a>	4/7/2023 10:46 AM	4/10/2023 11:17 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Will you except Peerless windows model #G641 & G611 for this project? Attached product info. As they are not listed as one of the approved vendors	The Peerless window system is an acceptable alternative. The contractor is required to verify that the system will be compatible with the approved design plans.	Jim Conlin	<a href="#">L.J. Paoella Construction, Inc.</a>	<a href="#">G611ProjectIn.pdf</a>	4/7/2023 2:18 PM	4/10/2023 11:42 AM	Bidder Asking Question	Bidder Asking Question
<input type="checkbox"/>	Is this being bid as a Single Prime or Multiple Primes?	This project is Multi-Prime. See Addenda 01 for more details.	James Dolan	<a href="#">Dolan Mechanical, Inc.</a>	4/7/2023 2:31 PM	4/7/2023 2:33 PM	Bidder Asking Question	Bidder Asking Question	



April 6, 2023

Mr. Michael Galante, PE, PP, CME  
MG Engineering Associates, LLC  
334 W. Front Street  
Media, PA 19063

RE: Hazardous Materials Investigation  
Chester Upland School District – Toby Farms School  
E2S Project 1465.0001

Dear Galante:

Element Environmental Solutions, Inc. (E2S) was contracted by MG Engineering Associates, LLC to perform a comprehensive hazardous materials investigation in support of the proposed renovations to the Toby Farms School (Chester Upland School District), located at 201 Bridgewater Road, Brookhaven, Pennsylvania. The purpose of the investigation was to identify any hazardous materials that exist at the building, both interior and exterior, to determine what regulatory actions, if any, must be taken prior to the scheduled renovations to the building.

### **Introduction**

Representatives from E2S were on site on Monday, March 20, 2023, to perform the initial hazardous materials investigation and sampling, and returned on Thursday, March 23, 2023, for follow-up investigations and sampling. The investigation included a visual inspection and sampling for asbestos-containing materials (ACM), a lead-based paint (LBP) inspection, a visual inspection for mercury and PCB-containing devices and equipment, PCB in caulk sampling, and any other potentially hazardous or environmentally regulated materials. Our representatives, Messrs. David Bertsch, Michael Seifrit, and Andrew Houck, are Environmental Protection Agency (EPA) certified Asbestos Building Inspectors and are licensed as such by the Pennsylvania Department of Labor and Industry (Pa DLI). Mr. Bertsch is also an EPA-certified and PA-licensed Asbestos Management Planner and Lead Inspector/Risk Assessor. See Appendix B for copies of licenses.

### **Summary**

E2S representatives performed an initial walkthrough of the existing Toby Farms School, which included interior and exterior of the original 1963 section and the 1966 addition, to locate suspect ACM, perform the LBP testing, and locate suspect light ballasts, light tubes, electronic devices, etc., and documented all findings on field data forms. E2S utilized project drawings provided by MG Engineering Associates, LLC, for existing building layouts and scope of the renovations. Based upon the visual inspection, bulk samples were collected of suspect ACM and were submitted to an accredited laboratory for asbestos analysis by Polarized Light Microscopy (PLM). The laboratory utilized for this project was: EMSL Analytical, Inc. located in Cinnaminson, New Jersey. EMSL is an American Industrial Hygiene Association (AIHA) and National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for asbestos PLM analysis.

Samples were not collected of suspect materials for mercury or liquid PCB's (ballasts, transformer oil, etc.) due to destructive sampling methods required and potential electrical hazards; however, E2S visually inspected labels and devices for documentation pertaining to the content of the materials. If required, assumptions were made to err on the side of caution when handling and disposing of these materials. Two (2) composite samples of exterior caulk were collected for bulk PCB analysis, one (1) sample from the 1963 building exterior and one (1) sample from the 1966 building exterior.

The results and findings of the investigation are summarized below and on the referenced tables, for each material referenced above.

### **Asbestos**

The following suspect materials were identified and assumed to contain asbestos at EPA-regulated levels (>1%):

- *Brown 9" x 9" Floor Tile\* (see below)*
- *Green 9" x 9" Floor Tile\* (see below)*
- *Chalkboard/Tack-board Adhesive (not sampled, demolition required to remove a board)*
- *Stage Light Wiring (not sampled, electrical hazard)*
- *Boiler/AHU Interiors (suspect materials that were not accessible at the time of inspection)*

The following suspect materials were identified, sampled, and determined to contain asbestos at EPA-regulated levels (>1%):

- **Boiler Door Mud (Boiler Room - Exterior of AHU 1 at Door Front)**
- **Pipe Penetration Mud (Boiler Room - Exterior of AHU 2)**
- **Blue/Green 9" x 9" Floor Tile**
- **Brown w/Speckles 1' x 1' Floor Tile**
- **Green 1' x 1' Floor Tile**
- **Tan 9" x 9" Floor Tile**
- **Tar-Coated Mud Fittings on Fiberglass-Insulated Pipe (Tar Layer – Brown/Black)**

The following suspect materials were identified, sampled, and determined **NOT** to contain asbestos at EPA-regulated levels (>1%):

- Mastic Ends on Fiberglass-Insulated Pipe (FGIP)
- Mud Fittings on FGIP
- Interior Fire Brick (AHU 1 and AHU 2)
- Interior Seam Mud (AHU 1 and AHU 2)
- Rough Plaster Ceiling (Boiler Room)
- Boiler Breeching Insulation
- Foil-Wrapped Fiberglass Pipe Insulation (1963/1966)
- Window Panel Insulation (1963/1966)
- Exterior Door and Window Caulk (1963/1966)
- Exterior Window Glazing (1963)
- Brown 9" x 9" Floor Tile\*

- 9" x 9" Floor Tile Mastic (Black) – Associated with all colors of 9" x 9" floor tile
- Roof Drain Fitting Insulation
- Green 9" x 9" Floor Tile\*
- Mastic Coating on Fiberglass Fitting Insulation (Mastic and Insulation)
- Roofing Debris on Ceiling Tiles
- Interior Window Panel Caulk
- 1' x 1' Floor Tile Mastic (Black/Yellow) – Associated with all colors of 1' x 1' floor tile
- White w/Gray Speckles 1' x 1' Floor Tile (appears to be newer)
- Yellow 1' x 1' Floor Tile (appears to be newer)
- 2' x 4' Ceiling Tile (1963/1966)
- Smooth Ceiling Plaster (Skim and Base Coats)
- Blue w/Streaks 1' x 1' Floor Tile (appears to be newer)

\*Brown and Green 9" x 9" floor tiles tested None Detected for asbestos via PLM Analysis (see Table 1), but are assumed to be ACM based on positive PLM analysis results for the Blue/Green and Tan 9" x 9" floor tiles (similar materials installed in 1963 during the same construction project).

\*\*Roofing material was not sampled during this investigation. If roof sampling is requested, E2S recommends a roofing contractor be on site to patch any locations that are sampled.

Please refer to Table 1 for a summary of asbestos bulk sample analytical results, and to Table 2 for a summary of findings and cost estimates for abatement of identified and assumed ACM.

## **Lead**

E2S performed lead-based paint testing of various painted surfaces and components throughout Toby Farms School. Testing was performed using a SciAps hand-held lead analyzer, Model X-550 and Serial Number 00493, using X-Ray Fluorescence (XRF) state-of-the-art technology. Testing was performed in accordance with applicable EPA and HUD standards and guidelines pertaining to lead-based paint inspections. The EPA/HUD definition of LBP (1.0 mg/cm<sup>2</sup>) was used as a threshold to identify LBP.

The following painted surfaces were identified, tested, and determined to contain lead at EPA/HUD regulated, lead-based paint (LPB) levels, as defined above:

- Throughout Bathrooms (1963) – Ceramic Wall Tiles (Various Colors)
- Multi-Purpose Room/Cafe (1963) – Stage Railing (Left and Right)
- Throughout Building (1963/1966) – Structural Steel
- Throughout Building (1966) – Interior Window Frames

All other painted surfaces and components tested were determined **NOT** to contain lead at EPA/HUD lead-based paint (LPB) levels, as defined above, however some components did contain detectable levels of lead (Refer to Table 3 – XRF Results for specific locations and components tested). Surfaces containing any amounts of lead may be regulated by Occupational Health and Safety Administration (OSHA) and all construction work that impacts painted components containing lead shall be performed in accordance with the OSHA Lead-in Construction Standard (29 CFR 1926.62), as applicable to the work being performed; and a proper waste management plan shall be utilized to certify that the waste is tested for hazardous waste classification, as applicable, and properly disposed or recycled.

Contractors working on the project are responsible for fulfilling all applicable OSHA requirements pertaining to lead, as well as all other applicable federal, state or local requirements or regulations pertaining to lead-in construction.

### **PCB's, Mercury, and Other Suspect Hazardous Materials**

Light ballasts were randomly inspected, and ballasts visually checked were all determined to be electronic ballasts with the "No PCB's" notation, and varied by manufacturer: Sylvania Quicktronic, Keystone, and Magnetek Triad for those ballasts inspected. However, not all ballasts were checked, and PCB ballasts (ballasts not labeled "No PCB's") may be present. The lighting systems were of various type, and types of ballasts varied depending on type of light fixtures. The ballasts which are demarcated as non-PCB containing may be recycled as non-PCB ballasts in accordance with applicable industry standards for those types of ballasts (electronic ballasts). PCB ballasts, if encountered, should be recycled as PCB ballasts in a facility that accepts PCB ballasts as universal waste. Any leaking ballasts would need to be disposed of as hazardous waste unless testing is performed to classify the waste for PCB's.

Fluorescent light tubes were also visually inspected, and those visually checked were determined to be either Topaz, Sylvania Octron Eco, or G.E. T8 Starcoat Ecotubes, and are assumed to contain amounts of mercury that could deem them "hazardous waste" for disposal purposes (some tubes were labeled with the Mercury elemental symbol Hg). E2S recommends that all tubes be removed prior to demolition of the lighting fixtures, if included in the renovation scope of work, and sent for recycling as universal waste, to a facility that accepts mercury-containing light tubes as part of their universal waste program. Please refer to Table 2 for a summary of findings and cost estimates for recycling of suspected hazardous materials.

E2S visually inspected accessible electrical and mechanical equipment and devices and did not identify any transformers or switchgear suspected of containing PCB's; **however, we did not have access to the room labeled as TRANS 127 on the drawing supplied to us (A300a), which has an exterior entrance and is likely an electrical/transformer room. If access to the room can be confirmed through CUSD, we can return to the site and inspect that room, along with the following rooms that were also inaccessible: WASH 126, STORAGE 113A, STOR 140, and GYM STORAGE 145 (all labeled as such on A300a).**

E2S also identified numerous thermostats, thermometers, gauges, high voltage switches, exit signs, smoke detectors, refrigerants, etc. that are assumed to contain various suspect hazardous materials and recommend that they be recycled at a facility that accepts each particular material for recycling, or disposed of properly in accordance with applicable requirements, if recycling is not an option.

Two (2) composite samples of exterior caulk were collected for bulk PCB analysis, one (1) from the 1963 section and one (1) from the 1966 section of the building, and were analyzed via Method SW 846-8082A for the nine (9) most common PCB types, in a laboratory accredited for bulk PCB analysis. PCBs were detected in Sample No. TF-3/20-01 PCB (1963) for Aroclor-1254 (34 mg/kg, ppm) and Aroclor-1260 (33 mg/kg, ppm), at levels below the EPA threshold for PCB bulk product waste for caulk of greater than or equal to ( $\geq$ ) 50 mg/kg, or parts per million (ppm). PCBs were detected in Sample No. TF-3/20-02 PCB (1966) for Aroclor-1254 (1.4 mg/kg, ppm) and Aroclor-1260 (0.88 mg/kg, ppm), at levels

well below the EPA threshold for PCB bulk product waste for caulk of greater than or equal to ( $\geq$ ) 50 mg/kg, or parts per million (ppm). No PCBs were detected for Aroclor-1016, 1221, 1232, 1242, 1248, 1262, and 1268 in either sample. Please refer to Table 4 – PCB in Caulk Sample Analytical Results for a summary of exterior caulk composite sample analytical results for PCBs.

Laboratory analytical reports with PLM asbestos bulk sample results and PCB in Caulk (Solid) sample results from EMSL can be found in Appendix A, and accreditations (certifications and licenses) for E2S representatives can be found in Appendix B, along with XRF instrumentation calibration.

Thank you for the opportunity to present Element Environmental Solutions (E2S) as a partner in your environmental management efforts. Should you have questions or require additional information, please contact me.

Sincerely,  
E2S, Inc.

A handwritten signature in black ink, appearing to read "David C. Bertsch", with a horizontal line extending to the right.

David C. Bertsch  
Operations Manager, IAQ

**Table 1 - Asbestos Bulk Sample Analytical Results - Chester Upland School District - Toby Farms School**

Sample Number	Location	Material Description	Analytical Result (PLM)
TF-3/20-01BK	Boiler Room	Mastic End on FGIP	None Detected
TF-3/20-02BK	Boiler Room at AHU 2	Mud Fitting on FGIP (Circ. Water)	<1% Chrysotile
TF-3/20-03BK	Boiler Room at AHU 2	Mud Fitting on FGIP (Hot Water)	<1% Chrysotile
TF-3/20-04BK	Boiler Room at AHU 2	Mud Fitting on FGIP (Cold Water)	<1% Chrysotile
TF-3/20-05BK	Boiler Room - AHU 1 Inside Fire Box	Interior Fire Brick	None Detected
TF-3/20-06BK	Boiler Room - AHU 1 Inside Fire Box	Interior Seam Mud	None Detected
<b>TF-3/20-07BK</b>	<b>Boiler Room - AHU 1 at Door Front</b>	<b>Boiler Door Mud (Exterior)</b>	<b>25% Chrysotile</b>
<b>TF-3/20-08BK</b>	<b>Boiler Room - AHU 2 Exterior</b>	<b>Pipe Penetration Mud (Exterior)</b>	<b>15% Chrysotile</b>
TF-3/20-09BK	Boiler Room	Rough Plaster Ceiling	None Detected
TF-3/20-10BK	Boiler Room - AHU 2 Fire Box	Interior Fire Brick	None Detected
TF-3/20-11BK	Boiler Room - AHU 2 Fire Box	Interior Seam Mud	None Detected
TF-3/20-12BK	Boiler Room - AHU 2	Boiler Breeching Insulation	None Detected
TF-3/20-13BK	Boiler Room - AHU 2 Front	Foil-Wrapped Fiberglass Pipe Insulation	None Detected
TF-3/20-14BK	Boiler Room - AHU 1	Boiler Breeching Insulation	None Detected
TF-3/20-15BK	Exterior (1966)	Window Panel Insulation	None Detected
TF-3/20-16BK	Exterior (1966)	Window Caulk	None Detected
TF-3/20-17BK	Exterior (1966)	Door Caulk	None Detected
TF-3/20-18BK	Exterior (1963)	Window Caulk	None Detected
TF-3/20-19BK	Exterior (1963)	Door Caulk	None Detected
TF-3/20-20BK	Exterior (1963)	Window Glazing	None Detected
TF-3/20-21BK	Exterior (1963)	Window Panel Insulation	None Detected
TF-3/20-22BK-Floor Tile	Room A1	Brown 9" x 9" Floor Tile	None Detected
TF-3/20-22BK-Mastic	Room A1	Brown 9" x 9" Floor Tile Mastic (Black)	None Detected
<b>TF-3/20-23BK-Floor Tile</b>	<b>Room A5</b>	<b>Blue/Green 9" x 9" Floor Tile</b>	<b>2% Chrysotile</b>
TF-3/20-23BK-Mastic	Room A5	Blue/Green 9" x 9" Floor Tile Mastic (Black)	None Detected
TF-3/20-24BK	Stage	Roof Drain Fitting Insulation	None Detected
TF-3/20-25BK-Floor Tile	MPR/Cafeteria	Green 9" x 9" Floor Tile	None Detected
TF-3/20-25BK-Mastic	MPR/Cafeteria	Green 9" x 9" Floor Tile Mastic (Black)	None Detected
TF-3/20-26BK	Maintenance Storage	Mud Fitting on FGIP	None Detected
TF-3/20-27BK	Hallway (1966)	Mastic Coating on Fiberglass Fitting Insulation	None Detected
TF-3/20-28BK	Hallway (1966)	Roofing Debris on Ceiling Tile	None Detected
TF-3/20-29BK	Hallway (1966)	Roof Drain Fitting Insulation	None Detected
TF-3/20-30BK	Hallway (1966)	Foil-Wrapped Fiberglass Pipe Insulation	None Detected
TF-3/20-31BK	Room 22	Interior Window Panel Caulk	None Detected
<b>TF-3/20-32BK-Floor Tile</b>	<b>Hallway (1966)</b>	<b>Brown with Speckles 1' x 1' Floor Tile</b>	<b>3% Chrysotile</b>

FGIP = Fiberglass Insulated Pipe

EPA Definition of Asbestos-Containing Material (ACM) = >1% (line items BOLD)

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**Table 1 - Asbestos Bulk Sample Analytical Results - Chester Upland School District - Toby Farms School**

Sample Number	Location	Material Description	Analytical Result (PLM)
TF-3/20-32BK-Mastic	Hallway (1966)	Brown with Speckles 1' x 1' Floor Tile Mastic (Black)	None Detected
<b>TF-3/20-33BK</b>	<b>Room C18</b>	<b>Green 1' x 1' Floor Tile</b>	<b>2% Chrysotile</b>
TF-3/20-34BK	Room C22	White with Gray Speckles 1' x 1' Floor Tile	None Detected
TF-3/20-35BK-Floor Tile	Storage/Office	Yellow 1' x 1' Floor Tile	None Detected
TF-3/20-35BK-Mastic	Storage/Office	Yellow 1' x 1' Floor Tile Mastic (Yellow)	None Detected
TF-3/20-36BK	Hallway (1966)	2' x 4' Ceiling Tile	None Detected
<b>TF-3/20-37BK-Floor Tile</b>	<b>Hallway (1963)</b>	<b>Tan 9" x 9" Floor Tile</b>	<b>3% Chrysotile</b>
TF-3/20-37BK-Mastic	Hallway (1963)	Tan 9" x 9" Floor Tile Mastic (Black)	None Detected
TF-3/20-38BK	Room B9	2' x 4' Ceiling Tile	None Detected
TF-3/20-39BK-Skim Coat	Room B9 Bathroom	Smooth Ceiling Plaster - Skim Coat	None Detected
TF-3/20-39BK-Base Coat	Room B9 Bathroom	Smooth Ceiling Plaster - Base Coat	None Detected
<b>TF-3/23-01BK-Tar</b>	<b>Hallway at A6</b>	<b>Tar-Coated Mud Fitting on FGIP (Tar Layer - Black)</b>	<b>3% Chrysotile</b>
TF-3/23-01BK-Insulation	Hallway at A6	Tar-Coated Mud Fitting on FGIP (Insulation - Gray)	None Detected
<b>TF-3/23-02BK-Tar</b>	<b>Hallway at B9</b>	<b>Tar-Coated Mud Fitting on FGIP (Tar Layer - Brown/Black)</b>	<b>6% Chrysotile</b>
TF-3/23-02BK-Insulation	Hallway at B9	Tar-Coated Mud Fitting on FGIP (Insulation - Gray)	None Detected
TF-3/23-03BK	Hallway at A6	Mud Fitting on FGIP	None Detected
TF-3/23-04BK	Hallway at B9	Mud Fitting on FGIP	None Detected
TF-3/23-05BK-FT	Storage Room	Blue with Streaks 1' x 1' Floor Tile	None Detected
TF-3/23-05BK-Mastic	Storage Room	Blue with Streaks 1' x 1' Floor Tile Mastic (Black/Yellow)	None Detected
TF-3/23-06BK	Hallway at Stair 1 (1966)	Mastic Coating on Fiberglass Fitting Insulation	None Detected
TF-3/23-07BK-Mastic	Hallway at C17 (1966)	Mastic Coating on F.G. Fitting Insulation (Mastic)	None Detected
TF-3/23-07BK-Insulation	Hallway at C17 (1966)	Mastic Coating on F.G. Fitting Insulation (Insulation)	None Detected

FGIP = Fiberglass Insulated Pipe

EPA Definition of Asbestos-Containing Material (ACM) = >1% (line items BOLD)

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**Table 2 - Summary of Findings and Estimated Removal Costs - Chester Upland School District - Toby Farms School**

Location	Material Description	Estimated Quantity	Estimated Cost
Throughout School (1963)	9" x 9" Floor Tile (Blue/Green, Tan, Brown* and Green*) - Some Under Carpet	23,990 S.F.	\$84,000.00
Throughout School (1966)	1' x 1' Floor Tile (Brown w/Speckles and Green) - Some Under Carpet	17,070 S.F.	\$60,000.00
Throughout School (1963)	Tar-Coated Mud Fittings on FGIP (Tar Layer - Brown/Black)	Not Quantified**	\$5,000.00
Boiler Room - AHU 1 at Door Front	Boiler Door Mud (Exterior)	5 L.F.	\$500.00
Boiler Room - AHU 2 Exterior	Pipe Penetration Mud (Exterior)	2 S.F.	\$500.00
Throughout School (1963/1966)	Chalkboard/Tack-board Adhesive (Assumed ACM)	Not Quantified***	\$30,000.00
Stage (1963)	Stage Lights and Associated Wiring (Assumed ACM)	2 sets of lights	\$2,000.00
Contractor Site Mobilization/Demobilization Fees		2	\$3,000.00
<b>TOTAL - Asbestos Abatement - Estimated Removal Costs (Includes all ACM, known and assumed)</b>			<b>\$185,000.00</b>
Throughout School (1963/1966)	Mercury-Containing Light Tubes (Assumed)	1,500 tubes	\$1,500.00
Throughout School (1963/1966)	Light Ballasts (Electronic - No PCB's)	400 ballasts	\$800.00
Throughout School (1963/1966)	Miscellaneous Equipment/Devices	Not Quantified	\$1,000.00
<b>TOTAL - Hazardous Materials (Recycling fees only, does not include labor for removal or transportation fees)</b>			<b>\$3,300.00</b>

\*No asbestos was detected in the Brown and Green 9" x 9" floor tile, but materials are assumed ACM based on bulk sample analysis results of the Blue/Green and Tan 9" x 9" floor tile

\*\*Estimated cost based on \$50/fitting for an estimated 100 fittings, actual quantity of fittings may vary and can be confirmed if abatement is required

\*\*\*Estimated cost based on \$1,000/classroom for an estimated 30 classrooms (2 CB/TB's per classroom), actual quantity of boards may vary and can be confirmed if abatement is required

Table3 - XRF Results - Chester Upland School District - Toby Farms School

Date	Test #	Floor	Room	Component	Side	Substrate	Paint Color	Condition	Result (mg/cm <sup>2</sup> )	Precision (+/-)	Pass Fail Standard	
20-Mar-23	STANDARDIZATION/CALIBRATION											PASS
20-Mar-23	STANDARDIZATION/CALIBRATION											PASS
20-Mar-23	3	First	Boiler Room	Wall	N	Block	Light Blue	Intact	0.02	0.01	Negative	
20-Mar-23	4	First	Boiler Room	Wall	E	Block	Light Blue	Intact	0.03	0.01	Negative	
20-Mar-23	5	First	Boiler Room	Wall	S	Block	Light Blue	Intact	0.02	0.01	Negative	
20-Mar-23	6	First	Boiler Room	Wall	W	Block	Light Blue	Intact	0.01	0.01	Negative	
20-Mar-23	7	First	Boiler Room	Floor	N/A	Concrete	Gray	Intact	0.03	0.01	Negative	
20-Mar-23	8	First	Boiler Room	Landing Floor	N/A	Concrete	Green	Intact	0.04	0.01	Negative	
20-Mar-23	9	First	Boiler Room	Landing Railing	N/A	Metal	Gray	Intact	0.38	0.02	Negative	
20-Mar-23	10	First	Boiler Room	Door	N	Metal	Gray	Intact	0	0.01	Negative	
20-Mar-23	11	First	Boiler Room	Door Frame	N	Metal	Gray	Intact	0	0.01	Negative	
20-Mar-23	12	First	Boiler Room	Chase Door	W	Metal	Gray	Intact	0.25	0.01	Negative	
20-Mar-23	13	First	Boiler Room	Incinerator Door	W	Metal	Dark Gray	Intact	0.03	0.01	Negative	
20-Mar-23	14	First	Boiler Room	Incinerator Wall	W	Brick	White	Intact	0	0.01	Negative	
20-Mar-23	15	Exterior	Exterior	High Voltage Door	N	Metal	Blue	Intact	0	0.01	Negative	
20-Mar-23	16	Exterior	Exterior	Door	W	Metal	Blue	Intact	0	0.01	Negative	
20-Mar-23	17	Exterior	Exterior	Door Frame	W	Metal	Blue	Intact	0	0.01	Negative	
20-Mar-23	18	Exterior	Exterior	Window Panel	S	Metal	Peach	Intact	0.06	0.01	Negative	
20-Mar-23	36	First	Faculty Room	Wall	N	Block	Light Green	Intact	0	0.01	Negative	
20-Mar-23	37	First	Faculty Room	Wall	E	Block	Light Green	Intact	0	0.01	Negative	
20-Mar-23	38	First	Faculty Room	Wall	S	Block	Light Green	Intact	0	0.01	Negative	
20-Mar-23	39	First	Faculty Room	Wall	S	Block	Light Green	Intact	0	0.01	Negative	
20-Mar-23	40	First	Faculty Room	Door Frame	N	Wood	Green	Intact	0.07	0.03	Negative	
20-Mar-23	41	First	Faculty Room	Window Sill	S	Ceramic Tile	Light Green	Intact	0.02	0.01	Negative	
20-Mar-23	42	First	Faculty Room	Structural Steel	S	Metal	Light Green	Intact	0.04	0.04	Negative	
<b>20-Mar-23</b>	<b>43</b>	<b>First</b>	<b>Faculty Men's Bathroom</b>	<b>Wall</b>	<b>N</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.33</b>	<b>0.08</b>	<b>Positive</b>	
<b>20-Mar-23</b>	<b>44</b>	<b>First</b>	<b>Faculty Men's Bathroom</b>	<b>Wall</b>	<b>E</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.23</b>	<b>0.08</b>	<b>Positive</b>	
<b>20-Mar-23</b>	<b>45</b>	<b>First</b>	<b>Faculty Men's Bathroom</b>	<b>Wall</b>	<b>S</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.18</b>	<b>0.08</b>	<b>Positive</b>	
<b>20-Mar-23</b>	<b>46</b>	<b>First</b>	<b>Faculty Men's Bathroom</b>	<b>Wall</b>	<b>W</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.43</b>	<b>0.08</b>	<b>Positive</b>	
20-Mar-23	47	First	Faculty Men's Bathroom	Door	W	Wood	Stained	Intact	0	0.01	Negative	
20-Mar-23	48	First	Faculty Men's Bathroom	Door Frame	W	Metal	Gray	Intact	0.04	0.01	Negative	
20-Mar-23	49	First	Faculty Men's Bathroom	Ceiling	N/A	Plaster	Light Green	Intact	0	0.01	Negative	
20-Mar-23	50	First	Faculty Men's Bathroom	Floor	N/A	Ceramic Tile	Green	Intact	0	0.01	Negative	
20-Mar-23	51	First	Faculty Men's Bathroom	Stall	N/A	Metal	Light Gray	Intact	0.05	0.02	Negative	
<b>20-Mar-23</b>	<b>52</b>	<b>First</b>	<b>Faculty Women's Bathroom</b>	<b>Wall</b>	<b>N</b>	<b>Ceramic Tile</b>	<b>Pink</b>	<b>Intact</b>	<b>5.73</b>	<b>0.07</b>	<b>Positive</b>	
<b>20-Mar-23</b>	<b>53</b>	<b>First</b>	<b>Faculty Women's Bathroom</b>	<b>Wall</b>	<b>S</b>	<b>Ceramic Tile</b>	<b>Pink</b>	<b>Intact</b>	<b>5.56</b>	<b>0.07</b>	<b>Positive</b>	
20-Mar-23	54	First	Gym Hallway	Door Frame	S	Metal	Blue	Intact	0.03	0.01	Negative	
20-Mar-23	55	First	Gym Hallway	Door	S	Wood	Stained	Intact	0	0.01	Negative	
20-Mar-23	56	First	Gym Hallway	Door Frame	N	Metal	Blue	Intact	0.06	0.02	Negative	
20-Mar-23	57	First	Gym Hallway	Door	N	Wood	Stained	Intact	0	0.01	Negative	
20-Mar-23	58	First	Multi-Purpose Room	Lunch Table Wall Storage	S	Metal	Gray	Intact	0	0.01	Negative	
20-Mar-23	59	First	Multi-Purpose Room	Structural Steel	S	Metal	Blue	Intact	0.09	0.01	Negative	
20-Mar-23	60	First	Multi-Purpose Room	Structural Steel	N	Metal	Blue	Intact	0.09	0.01	Negative	
20-Mar-23	61	First	Multi-Purpose Room	Door Frame	N	Metal	Blue	Intact	0.03	0.01	Negative	
20-Mar-23	62	First	Multi-Purpose Room	Stage Floor	N/A	Wood	Stained	Intact	0	0.01	Negative	
20-Mar-23	63	First	Multi-Purpose Room	Stage Storage Doors	N/A	Wood	Blue	Intact	0.03	0.01	Negative	
<b>20-Mar-23</b>	<b>64</b>	<b>First</b>	<b>Multi-Purpose Room</b>	<b>Stage Railing Left</b>	<b>N/A</b>	<b>Metal</b>	<b>Gray</b>	<b>Intact</b>	<b>0.97</b>	<b>0.03</b>	<b>Inconclusive</b>	
<b>20-Mar-23</b>	<b>65</b>	<b>First</b>	<b>Multi-Purpose Room</b>	<b>Stage Railing Right</b>	<b>N/A</b>	<b>Metal</b>	<b>Gray</b>	<b>Intact</b>	<b>1.01</b>	<b>0.02</b>	<b>Positive</b>	
20-Mar-23	66	First	Garage Storage	Wall	N	Block	Light Green	Intact	0.01	0.01	Negative	
20-Mar-23	67	First	Garage Storage	Floor	N/A	Concrete	Gray	Intact	0.03	0.01	Negative	
20-Mar-23	68	First	Garage Storage	Door	S	Metal	Blue	Intact	0.28	0.06	Negative	

Table3 - XRF Results - Chester Upland School District - Toby Farms School

Date	Test #	Floor	Room	Component	Side	Substrate	Paint Color	Condition	Result (mg/cm <sup>2</sup> )	Precision (+/-)	Pass Fail Standard
20-Mar-23	69	First	Garage Storage	Door Frame	S	Metal	Blue	Intact	0.06	0.01	Negative
20-Mar-23	70	First	Garage Storage	Ceiling	N/A	Plaster	White	Intact	0	0.01	Negative
20-Mar-23	71	First	Music Room	Ceiling Joist	N/A	Metal	Black	Intact	0	0.01	Negative
20-Mar-23	72	First	Music Room	Wall	E	Block	White	Intact	0	0.01	Negative
20-Mar-23	73	First	Music Room	Wall	W	Block	White	Intact	0	0.01	Negative
20-Mar-23	74	First	Music Room	Structural Steel	N/A	Metal	Gray	Intact	0.13	0.04	Negative
20-Mar-23	75	First	Music Room	Interior Window Frame	N/A	Metal	White	Intact	0.1	0.01	Negative
20-Mar-23	76	First	Gym	Table Frame Wall	N	Metal	Gray	Intact	0.3	0.01	Negative
<b>20-Mar-23</b>	<b>77</b>	<b>First</b>	<b>Gym</b>	<b>Structural Steel</b>	<b>N</b>	<b>Metal</b>	<b>Blue</b>	<b>Intact</b>	<b>2.32</b>	<b>0.04</b>	<b>Positive</b>
20-Mar-23	78	First	Gym	Table Frame Wall	N	Metal	Gray	Intact	0.5	0.02	Negative
<b>20-Mar-23</b>	<b>79</b>	<b>First</b>	<b>Gym</b>	<b>Structural Steel</b>	<b>S</b>	<b>Metal</b>	<b>Blue</b>	<b>Intact</b>	<b>3.86</b>	<b>0.06</b>	<b>Positive</b>
20-Mar-23	80	First	Gym	Door Frame	E	Metal	Blue	Intact	0.45	0.02	Negative
<b>20-Mar-23</b>	<b>81</b>	<b>First</b>	<b>Men's Bathroom at Lobby</b>	<b>Wall</b>	<b>N</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.24</b>	<b>0.08</b>	<b>Positive</b>
20-Mar-23	82	First	Men's Bathroom at Lobby	Radiator Cover	N	Metal	Gray	Intact	0.12	0.04	Negative
20-Mar-23	83	First	Men's Bathroom at Lobby	Floor	N/A	Ceramic Tile	Green	Intact	0.01	0.01	Negative
20-Mar-23	84	First	Men's Bathroom at Lobby	Stall	N/A	Metal	Gray	Intact	0.12	0.04	Negative
20-Mar-23	85	First	Men's Bathroom at Lobby	Door Frame	S	Metal	Blue	Intact	0.04	0.01	Negative
20-Mar-23	86	First	Room A1	Radiator Cover	N	Metal	Beige	Intact	0	0.01	Negative
20-Mar-23	87	First	Room A1	Door	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	88	First	Room A1	Wall	E	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	89	First	Room A1	Door Frame	S	Metal	Blue	Intact	0.16	0.01	Negative
20-Mar-23	90	First	Room A1	Wall	W	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	91	First	Room A3	Radiator Cover	N	Metal	Beige	Intact	0	0.01	Negative
20-Mar-23	92	First	Room A3	Door	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	93	First	Room A3	Wall	E	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	94	First	Room A3	Door Frame	S	Metal	Blue	Intact	0.03	0.01	Negative
20-Mar-23	95	First	Room A3	Door	S	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	96	First	Room A3	Wall	W	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	97	First	A Hallway	Interior Window Frame	N	Metal	Black	Intact	0.03	0.01	Negative
20-Mar-23	98	First	A Hallway	Structural Steel	N	Metal	Black	Intact	0.14	0.05	Negative
20-Mar-23	99	First	A Hallway	Interior Window Frame	S	Metal	Black	Intact	0.08	0.03	Negative
20-Mar-23	100	First	A Hallway	Structural Steel	S	Metal	Black	Intact	0.06	0.03	Negative
20-Mar-23	101	First	B Hallway	Interior Window Frame	N	Metal	Blue	Intact	0.06	0.03	Negative
20-Mar-23	102	First	B Hallway	Structural Steel	N	Metal	Blue	Intact	0.04	0.01	Negative
20-Mar-23	103	First	B Hallway	Interior Window Frame	S	Metal	Blue	Intact	0.04	0.01	Negative
20-Mar-23	104	First	B Hallway	Structural Steel	S	Metal	Blue	Intact	0.08	0.01	Negative
20-Mar-23	105	First	Room B10	Radiator Cover	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	106	First	Room B10	Door	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	107	First	Room B10	Wall	E	Block	Light Green	Intact	0	0.01	Negative
20-Mar-23	108	First	Room B10	Door Frame	S	Metal	Blue	Intact	0.27	0.01	Negative
20-Mar-23	109	First	Room B10	Door	S	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	110	First	Room B10	Wall	W	Block	Light Green	Intact	0	0.01	Negative
<b>20-Mar-23</b>	<b>111</b>	<b>First</b>	<b>B9/B10 Bathroom</b>	<b>Wall</b>	<b>N</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.27</b>	<b>0.08</b>	<b>Positive</b>
<b>20-Mar-23</b>	<b>112</b>	<b>First</b>	<b>B9/B10 Bathroom</b>	<b>Wall</b>	<b>E</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.32</b>	<b>0.08</b>	<b>Positive</b>
<b>20-Mar-23</b>	<b>113</b>	<b>First</b>	<b>B9/B10 Bathroom</b>	<b>Wall</b>	<b>S</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.3</b>	<b>0.08</b>	<b>Positive</b>
<b>20-Mar-23</b>	<b>114</b>	<b>First</b>	<b>B9/B10 Bathroom</b>	<b>Wall</b>	<b>W</b>	<b>Ceramic Tile</b>	<b>Mint Green</b>	<b>Intact</b>	<b>6.32</b>	<b>0.08</b>	<b>Positive</b>
20-Mar-23	115	First	B9/B10 Bathroom	Ceiling	N/A	Plaster	White	Intact	0.02	0.01	Negative
20-Mar-23	116	First	B9/B10 Bathroom	Floor	N/A	Ceramic Tile	Green	Intact	0.01	0.01	Negative
20-Mar-23	117	First	Room B12	Radiator Cover	S	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	118	First	Room B12	Door	S	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	119	First	Room B12	Wall	W	Block	Light Green	Intact	0	0.01	Negative

Table3 - XRF Results - Chester Upland School District - Toby Farms School

Date	Test #	Floor	Room	Component	Side	Substrate	Paint Color	Condition	Result (mg/cm <sup>2</sup> )	Precision (+/-)	Pass Fail Standard
20-Mar-23	120	First	Room B12	Door Frame	N	Metal	Blue	Intact	0.1	0.03	Negative
20-Mar-23	121	First	Room B12	Door	N	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	122	First	Room B12	Wall	E	Block	Light Green	Intact	0	0.01	Negative
20-Mar-23	123	First	Room B12	Interior Window Frame	N	Metal	Gray	Intact	0.13	0.01	Negative
20-Mar-23	124	First	Stairwell at Room 23	Ceiling	N/A	Plaster	Cream	Intact	0.05	0.05	Negative
20-Mar-23	125	First	Stairwell at Room 23	Door	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	126	First	Stairwell at Room 23	Radiator Cover	E	Metal	Blue	Intact	0.06	0.01	Negative
20-Mar-23	127	First	Stairwell at Room 23	Stair Railing	N/A	Metal	Blue	Intact	0.15	0.04	Negative
20-Mar-23	128	First	Stairwell at Room 23	Stair Stringer	N/A	Metal	Blue	Intact	0.39	0.06	Negative
20-Mar-23	129	First	Stairwell at Room 23	Stair Riser	N/A	Metal	Blue	Intact	0.07	0.01	Negative
20-Mar-23	130	First	Room 23	Radiator Cover	N	Metal	Beige	Intact	0	0.01	Negative
20-Mar-23	131	First	Room 23	Wall	E	Block	White	Intact	0	0.01	Negative
20-Mar-23	132	First	Room 23	Structural Steel	E	Metal	White	Intact	0.29	0.06	Negative
20-Mar-23	133	First	Room 23	Door Frame	S	Metal	Blue	Intact	0.63	0.08	Negative
20-Mar-23	134	First	Room 23	Wall	S	Block	White	Intact	0	0.01	Negative
20-Mar-23	135	First	Room 23	Wall	W	Block	White	Intact	0	0.01	Negative
20-Mar-23	136	First	Custodial Room at Room 23	Floor	N/A	Concrete	Gray	Intact	0	0.01	Negative
20-Mar-23	137	First	Room C17	Wall	N	Block	Light Green	Intact	0	0.01	Negative
20-Mar-23	138	First	Room C17	Structural Steel	N	Metal	Light Green	Intact	0.52	0.12	Negative
20-Mar-23	139	First	Room C17	Radiator Cover	E	Metal	Gray	Intact	0.01	0.01	Negative
20-Mar-23	140	First	Room C17	Wall	S	Block	Light Green	Intact	0	0.01	Negative
20-Mar-23	141	First	Room C17	Door Frame	W	Metal	Blue	Intact	0.67	0.08	Negative
20-Mar-23	142	First	Room C17	Door	W	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	143	First	Room C17	Interior Window Frame	W	Metal	Gray	Intact	1.02	0.03	Positive
20-Mar-23	144	First	Room C17	Interior Window Frame	W	Metal	Gray	Intact	0.95	0.09	Inconclusive
20-Mar-23	145	First	C Hallway	Interior Window Frame	S	Metal	Blue	Intact	1.15	0.03	Positive
20-Mar-23	146	First	C Hallway	Interior Window Frame	N	Metal	Blue	Intact	1.64	0.12	Positive
20-Mar-23	147	First	Men's Bathroom at C Hallway	Wall	W	Ceramic Tile	White	Intact	0.04	0.01	Negative
20-Mar-23	148	First	Stairwell at Room 23	Window Panel	S	Metal	Blue	Intact	0	0.01	Negative
20-Mar-23	149	Second	Room D30	Radiator Cover	N	Metal	Gray	Intact	0	0.01	Negative
20-Mar-23	150	Second	Room D30	Wall	E	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	151	Second	Room D30	Door Frame	S	Metal	Blue	Intact	0.62	0.02	Negative
20-Mar-23	152	Second	Room D30	Door	S	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	153	Second	Room D30	Wall	W	Block	Light Blue	Intact	0	0.01	Negative
20-Mar-23	154	Second	Room D30	Interior Window Frame	S	Metal	Gray	Intact	0.34	0.06	Negative
20-Mar-23	155	Second	Room D30	Ceiling Joist	N/A	Metal	Red Brown	Intact	0.03	0.01	Negative
20-Mar-23	156	Second	D Hallway	Interior Window Frame	S	Metal	Blue	Intact	0.84	0.08	Inconclusive
20-Mar-23	157	Second	D Hallway	Interior Window Frame	N	Metal	Blue	Intact	0.93	0.03	Inconclusive
20-Mar-23	158	Second	Room D24	Radiator Cover	S	Metal	Gray	Intact	0.01	0.01	Negative
20-Mar-23	159	Second	Room D24	Wall	W	Block	Orange	Intact	0	0.01	Negative
20-Mar-23	160	Second	Room D24	Structural Steel	W	Metal	Orange	Intact	2.11	0.24	Positive
20-Mar-23	161	Second	Room D24	Door Frame	N	Metal	Blue	Intact	0.52	0.07	Negative
20-Mar-23	162	Second	Room D24	Door	N	Wood	Stained	Intact	0	0.01	Negative
20-Mar-23	163	Second	Room D24	Interior Window Frame	N	Metal	Gray	Intact	0.29	0.05	Negative
20-Mar-23	164	Second	Room D24	Wall	E	Block	Orange	Intact	0	0.01	Negative
20-Mar-23	165	First	Stairwell at Room D24	Stair Railing	N/A	Metal	Blue	Intact	0.17	0.05	Negative
20-Mar-23	166	First	Stairwell at Room D24	Stair Stringer	N/A	Metal	Blue	Intact	0.2	0.01	Negative
20-Mar-23	167	First	Stairwell at Room D24	Stair Riser	N/A	Metal	Blue	Intact	0.07	0.01	Negative
20-Mar-23	168	First	Stairwell at Room D24	Radiator Cover	E	Metal	Blue	Intact	0.16	0.04	Negative
20-Mar-23	169	First	Stairwell at Room D24	Ceiling	N/A	Plaster	White	Intact	0.01	0.01	Negative
20-Mar-23	170	First	Stairwell at Room D24	Door	E	Metal	Gray	Intact	0	0.01	Negative

Table3 - XRF Results - Chester Upland School District - Toby Farms School

Date	Test #	Floor	Room	Component	Side	Substrate	Paint Color	Condition	Result (mg/cm <sup>2</sup> )	Precision (+/-)	Pass Fail Standard
20-Mar-23	171	First	Former Kitchen Storage	Wall	N	Ceramic Block	Beige	Intact	0.07	0.01	Negative
20-Mar-23	172	First	Former Kitchen Storage	Wall	S	Ceramic Block	Beige	Intact	0.04	0.01	Negative
20-Mar-23	173	First	Former Kitchen Storage	Floor	N/A	Ceramic Tile	Tan	Intact	0	0.01	Negative
20-Mar-23	174	First	Former Kitchen Storage	Ceiling	N/A	Plaster	White	Intact	0	0.01	Negative

**Table 4 - PCB in Caulk (Bulk Sample) Analytical Results - Chester Upland School District - Toby Farms School**

<b>Sample Number</b>	<b>Location</b>	<b>Material Description</b>	<b>PCB Concentration</b>	<b>Reporting Limit</b>
TF-3/20-01 PCB	Exterior - 1963 Building (Composite)	Exterior Caulk (Bulk/Solid)	34 mg/kg (ppm)	Aroclor-1254
TF-3/20-01 PCB	Exterior - 1963 Building (Composite)	Exterior Caulk (Bulk/Solid)	33 mg/kg (ppm)	Aroclor-1260
TF-3/20-02 PCB	Exterior - 1966 Building (Composite)	Exterior Caulk (Bulk/Solid)	1.4 mg/kg (ppm)	Aroclor-1254
TF-3/20-02 PCB	Exterior - 1966 Building (Composite)	Exterior Caulk (Bulk/Solid)	0.88 mg/kg (ppm)	Aroclor-1260

\* Both samples were analyzed for the nine (9) most common PCB forms: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262 and Aroclor-1268. PCB's were detected in both samples for Aroclor-1254 and Aroclor-1260, but at levels below 50 mg/kg (parts per million), the EPA threshold level for PCB-containing bulk product waste for caulk. The other seven (7) remaining PCB aroclor forms were Not Detected in either of the samples.

# **Appendix A**

**Laboratory Analytical Reports – EMSL Analytical, Inc.**

**Asbestos Bulk - Polarized Light Microscopy (PLM)**

**Bulk PCB in Caulk – Method SW 846-8082A**



# EMSL Analytical, Inc.

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EMSL Order: 182301146

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

**Attention:** David Bertsch  
Element Environmental Solutions, Inc.  
61 Willow Street  
PO Box 921  
Adamstown, PA 19501

**Phone:** (717) 484-5111

**Fax:**

**Received Date:** 03/21/2023 9:00 AM

**Analysis Date:** 03/23/2023

**Collected Date:** 03/20/2023

**Project:** CUSD-TOBY FARMS SCHOOL

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TF-3/20-01BK <small>182301146-0001</small>	BOILER ROOM - MASTIC END ON FGIP	White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
TF-3/20-02BK <small>182301146-0002</small>	BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(CIRC WATER)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
TF-3/20-03BK <small>182301146-0003</small>	BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(HOT WATER)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
TF-3/20-04BK <small>182301146-0004</small>	BOILER ROOM - @ AHU 2 - MUD FITTING ON FGIP(COLD WATER)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
TF-3/20-05BK <small>182301146-0005</small>	BOILER ROOM - AHU1 INSIDE FIRE BOX - INTERIOR FIRE BRICK	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
TF-3/20-06BK <small>182301146-0006</small>	BOILER ROOM - AHU1 INSIDE FIRE BOX - SEAM MUD - FIRE BRICK	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-07BK <small>182301146-0007</small>	BOILER ROOM - AHU1 EXT MUD @DOOR FRONT - BOILER DOCK MUD	Gray Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
TF-3/20-08BK <small>182301146-0008</small>	BOILER ROOM - AHU2 - EXTERIOR - PIPE PENETRATION MUD	Brown Non-Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
TF-3/20-09BK <small>182301146-0009</small>	BOILER ROOM - ROUGH PLASTER CEILING	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-10BK <small>182301146-0010</small>	BOILER ROOM - @AHU2 FIREFOX - INTERIOR FIRE BRICK	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-11BK <small>182301146-0011</small>	BOILER ROOM - @AHU2 - FIRE BOX - SEAM MUD - FIRE BOX	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-12BK <small>182301146-0012</small>	BOILER ROOM - @AHU2 - BOILER BREECHING	Brown/Tan Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
TF-3/20-13BK <small>182301146-0013</small>	BOILER ROOM - @AHU2 FRONT - FGIP WRAP (FOIL)	Brown/Silver Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

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**EMSL Order:** 182301146  
**Customer ID:** ELES42  
**Customer PO:** 1465.0001  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TF-3/20-14BK <small>182301146-0014</small>	BOILER ROOM -@AHU1 - BREECHING	Gray Non-Fibrous Homogeneous	10% Min. Wool	90% Non-fibrous (Other)	None Detected
TF-3/20-15BK <small>182301146-0015</small>	EXTERIOR - 1966 - WINDOW PANEL INSULATION	Brown Non-Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
TF-3/20-16BK <small>182301146-0016</small>	EXTERIOR - 1966 - WINDOW CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-17BK <small>182301146-0017</small>	EXTERIOR - 1966 - DOOR CAULK	Gray Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
TF-3/20-18BK <small>182301146-0018</small>	EXTERIOR - 1963 - WINDOW CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-19BK <small>182301146-0019</small>	EXTERIOR - 1963 - DOOE CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-20BK <small>182301146-0020</small>	EXTERIOR - 1963 - WINDOW GLAZING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-21BK <small>182301146-0021</small>	EXTERIOR - 1963 - WINDOW PANEL INSULATION	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-22BK-Floor Tile <small>182301146-0022</small>	ROOM A1 - BROWN 9X9 FT/M	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-22BK-Mastic <small>182301146-0022A</small>	ROOM A1 - BROWN 9X9 FT/M	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
TF-3/20-23BK-Floor Tile <small>182301146-0023</small>	ROOM A5 - BLUE/GREEN 9X9 FT/M	Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
TF-3/20-23BK-Mastic <small>182301146-0023A</small>	ROOM A5 - BLUE/GREEN 9X9 FT/M	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-24BK <small>182301146-0024</small>	STAGE - ROOF DRAIN FITTING	Gray Non-Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (Other)	None Detected
TF-3/20-25BK-Floor Tile <small>182301146-0025</small>	MPR/CAFÉ - GREEN 9X9 FT/M	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-25BK-Mastic <small>182301146-0025A</small>	MPR/CAFÉ - GREEN 9X9 FT/M	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-26BK <small>182301146-0026</small>	MAINT-STORAGE - MUD FITTING ON FGP	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-27BK <small>182301146-0027</small>	HALLWAY 1966 - MASTIC COATING ON F.G FITTING	Yellow Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
TF-3/20-28BK <small>182301146-0028</small>	HALLWAY 1966 - ROOFING DEBRID ON CEILING TILE	Brown/Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
TF-3/20-29BK <small>182301146-0029</small>	HALLWAY 1966 - ROOF DRAIN FITTING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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**EMSL Order:** 182301146  
**Customer ID:** ELES42  
**Customer PO:** 1465.0001  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TF-3/20-30BK <small>182301146-0030</small>	HALLWAY 1966 - FGIP WRAP (FOIL_	Black/Yellow Non-Fibrous Homogeneous	10% Cellulose 40% Min. Wool	50% Non-fibrous (Other)	None Detected
TF-3/20-31BK <small>182301146-0031</small>	RM 22 - INTERIOR WINDOW PANEL CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-32BK-Floor Tile <small>182301146-0032</small>	HALLWAY 1966 - BROWN W/SPEC 1X1 FT/M	Brown Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
TF-3/20-32BK-Mastic <small>182301146-0032A</small>	HALLWAY 1966 - BROWN W/SPEC 1X1 FT/M	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-33BK <small>182301146-0033</small>	RM C18 - GREEN 1X1 FT/M	Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
TF-3/20-34BK <small>182301146-0034</small>	RM C22 - WHITE W/GRAY SPEC 1X1 FT/M	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-35BK-Floor Tile <small>182301146-0035</small>	STORE/OFFICE - YELLOW 1X1 FT/M	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-35BK-Mastic <small>182301146-0035A</small>	STORE/OFFICE - YELLOW 1X1 FT/M	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-36BK <small>182301146-0036</small>	HALLWAY 1966 - 2X4 C.T	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
TF-3/20-37BK-Floor Tile <small>182301146-0037</small>	HALLWAY 1963 - TAN 9X9 FT/M	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
TF-3/20-37BK-Mastic <small>182301146-0037A</small>	HALLWAY 1963 - TAN 9X9 FT/M	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-38BK <small>182301146-0038</small>	RM B9 - 2X4 C.T	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
TF-3/20-39BK-Skim Coat <small>182301146-0039</small>	RM B9 BATHROOM - SMOOTH CEILING PLASTER	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/20-39BK-Base Coat <small>182301146-0039A</small>	RM B9 BATHROOM - SMOOTH CEILING PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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**EMSL Order:** 182301146

**Customer ID:** ELES42

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**Project ID:**

Analyst(s)

Kevin Ream (14)

Zainab Abdussamad Millner (32)

Kevin Ream, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA NVLAP Lab Code 200699-0, Philadelphia ALL-292, VA 3333000315, AIHA LAP, LLC-IHLAP Accredited #178659

Initial report from: 03/23/2023 16:45:44



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

182301146

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

Company: Element Environmental Solutions		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 61 Willow Street PO Box 921		Third Party Billing requires written authorization from third party	
City: Adamstown	State/Province: PA	Zip/Postal Code: 19501	Country: United States
Report To (Name): David Bertsch		Telephone #: 717-484-5111	
Email Address: IAQ@e2s.us		Fax #:	Purchase Order: <u>1165-0001</u>
Project Name/Number: <u>CUSD - Toby Farms School</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: PA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PLM - Bulk (reporting limit)</b>		<b>TEM - Bulk</b>	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)		<b>Other</b>	
<input type="checkbox"/> OSHA ID-191 Modified		<input type="checkbox"/>	
<input type="checkbox"/> Standard Addition Method			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: <u>3-20-23</u>	
Samplers Name: <u>David Bertsch</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	HA #	Sample Location	Material Description
<u>TF-3/20-01BK</u>		<u>Boiler Room</u>	<u>Mastic End on FGIP</u>
<u>-02BK</u>		<u>- @ AHU 2</u>	<u>Mud Fitting on FGIP (Hot water)</u>
<u>-03BK</u>			<u>(Hot water)</u>
<u>-04BK</u>			<u>(Cold water)</u>
<u>-05BK</u>		<u>AHU 1 Inside Fire Box</u>	<u>interior Fire Brick</u>
<u>-06BK</u>		<u>- - -</u>	<u>Seam Mud - Fire Box</u>
<u>-07BK</u>		<u>AHU 1 - EST Mud @ Door front</u>	<u>Boiler Door Mud</u>
<u>-08BK</u>		<u>AHU 2 - Exterior</u>	<u>Pipe Penetration</u>
<u>-09BK</u>			<u>Rough Plaster Ceiling</u>
<u>-10BK</u>		<u>- @ AHU 2 Fire Box</u>	<u>Interior Fire Brick</u>
Client Sample # (s):		Total # of Samples: <u>39</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>3/20/23</u>	Time: <u>9pm</u>
Received (Lab): <u>Dumeyra Nicholson</u>		Date: <u>3-20-23</u>	Time: <u>9am</u>
Comments/Special Instructions:		<u>OB</u>	



**Asbestos Bulk Building Material  
Chain of Custody**

EMSL Order Number (Lab Use Only):

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

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRADING

182301146

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
TF-3/20-11BK		Boiler Room @ AHU 2 - Fire Box	Seam Mud - Fire Box
	12BK	- @ AHU 2	Boiler Breaching
	13BK	- @ AHU 2 front	FGIP wrap (Foil)
	14BK	↓ - @ AHU 1	Breaching
	15BK	Exterior - 1966	Window Panel Insulation
	16BK	↓	Window Caulk
	17BK	↓	Door Caulk
	18BK	Exterior - 1963	Window Caulk
	19BK	↓	Door Caulk
	20BK	↓	Window Glazing
	21BK	↓	Window Panel Insulation
	22BK	Room A1	Brown 9x9 FT/M
	23BK	Room A5	Blue/green 9x9 FT/M
	24BK	Stage	Roof Drain Fitting
	25BK	MPR / Cafe	Green 9x9 FT/M
	26BK	Maint - Storage	Mud Fitting on Floor
	27BK	Hallway 1966	Mastic Coating on Floor - Fitting
	28BK	↓	Roofing Detail on Ceiling Tiles
	29BK	↓	Roof Drain Fittings
	30BK	↓	FGIP wrap (Foil)
	31BK	Room 22	Interior window panel Caulk
	32BK	Hallway 1966	Brown w/spec 1x1 FT/M
	33BK	Room C18	Green 1x1 FT/M
↓	34BK	Room C22	white w/gray spec 1x1 FT/M

\*Comments/Special Instructions:





# EMSL Analytical, Inc.

200 Route 130 North Hammonstown, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

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

EMSL Order: 042307347

Customer ID: ELES42

Customer PO: 1465.0001

Project ID:

**Attention:** Dave Bertsch  
Element Environmental Solutions, Inc.  
61 Willow Street  
PO Box 921  
Adamstown, PA 19501

**Project:** CUSD - Toby Farms School

**Phone:** (717) 484-5111

**Fax:**

**Received Date:** 03/25/2023 11:40 AM

**Analysis Date:** 03/28/2023 - 03/29/2023

**Collected Date:** 03/23/2023

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TF-3/3-01BK-Tar <small>042307347-0001</small>	Hallway At A6 - Tar Coated Mud Fitting On FGIP	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
TF-3/3-01BK-Insulation <small>042307347-0001A</small>	Hallway At A6 - Tar Coated Mud Fitting On FGIP	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
TF-3/3-02BK-Tar <small>042307347-0002</small>	Hallway At B9 - Tar Coated Mud Fitting On FGIP	Brown/Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
TF-3/3-02BK-Insulation <small>042307347-0002A</small>	Hallway At B9 - Tar Coated Mud Fitting On FGIP	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
TF-3/3-03BK <small>042307347-0003</small>	Hallway At A6 - Mud Fitting On FGIP	White Non-Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
TF-3/3-04BK <small>042307347-0004</small>	Hallway At B9 - Mud Fitting On FGIP	Gray/White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
TF-3/3-05BK-FT <small>042307347-0005</small>	Storage Room - Blue With Streaks 1x1 FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/3-05BK-Mastic <small>042307347-0005A</small>	Storage Room - Mastic	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/3-06BK <small>042307347-0006</small>	Hallway At Stair 1 - Mastic Coating On FG Fitting	White Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
TF-3/3-07BK-Mastic <small>042307347-0007</small>	Hallway At C17 - Mastic Coating On FG Fitting	Tan Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TF-3/3-07BK-Insulation <small>042307347-0007A</small>	Hallway At C17 - Mastic Coating On FG Fitting	Yellow Fibrous Homogeneous	100% Min. Wool		None Detected

Initial report from: 03/29/2023 12:46:40



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

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

<b>EMSL Order:</b> 042307347
<b>Customer ID:</b> ELES42
<b>Customer PO:</b> 1465.0001
<b>Project ID:</b>

Analyst(s)

Andrew Burke (6)

Dave Poitras (3)

Keishla Vazquez Caraballo (2)

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 03/29/2023 12:46:40



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Bulk Building Material Chain of Custody

**EMSL Order Number (Lab Use Only):**

042307347

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

<b>Company:</b> Element Environmental Solutions		<b>EMSL-Bill to:</b> <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
<b>Street:</b> 61 Willow Street PO Box 921		<i>Third Party Billing requires written authorization from third party</i>	
<b>City:</b> Adamstown	<b>State/Province:</b> PA	<b>Zip/Postal Code:</b> 19501	<b>Country:</b> United States
<b>Report To (Name):</b> David Bertsch		<b>Telephone #:</b> 717-484-5111	
<b>Email Address:</b> IAQ@e2s.us		<b>Fax #:</b>	<b>Purchase Order:</b> 1465.0001
<b>Project Name/Number:</b> CUSD - Toby Farms School		<b>Please Provide Results:</b> <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
<b>U.S. State Samples Taken:</b> PA		<b>CT Samples:</b> <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p>	<p><b>TEM - Bulk</b></p> <p><input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;"><b>Other</b></p> <p><input type="checkbox"/></p>
---	--

RECEIVED  
EMSL  
CINNAMINSON, N.J.  
023 MAR 23 AM 11:16

Check For Positive Stop - Clearly Identify Homogenous Group      **Date Sampled:** 3/23/2023

**Samplers Name:** Michael Seifrit      **Samplers Signature:** *Michael Seifrit*

Sample #	Sample Location	Material Description
JF-3/23-01BK	Hallway at A6	Tar coated Mud Fitting on FGIP
- 02BK	Hallway at B9	Tar Coated Mud Fitting on FGIP
- 03BK	Hallway at A6	Mud Fitting on FGIP
- 04BK	Hallway at B9	Mud Fitting on FGIP
- 05BK	Storage Room	Blue with streaks 1x1 FT/m
- 06BK	Hallway at Stair I	Mastic Coating on FG Fitting
- 07BK	Hallway at C17	Mastic Coating on FG Fitting

**Client Sample # (s):** -      **Total # of Samples:** 7

**Relinquished (Client):** *Michael Seifrit*      **Date:** 3/24/2023      **Time:**

**Received (Lab):** *Edwan EBY*      **Date:** 3-25-23      **Time:** 11:40am

**Comments/Special Instructions:** *730*

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
Telephone: 856-858-4800 Fax:856-786-5974  
EMSL-CIN-01

**EMSL Order ID:** 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

April 05, 2023

David Bertsch  
Element Environmental Solutions, Inc. [ELES42]  
61 Willow Street, PO Box 921  
Adamstown, PA 19501

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/22/2023. The results are tabulated on the attached pages for the following client designated project:

**Toby Farms School**

The reference number for these samples is EMSL Order #: AB52763 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

---

Owen McKenna Laboratory Manager or other approved signatory

## Table of Contents

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**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763

**LIMS Reference ID:** AB52763

**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Sample Condition on Receipt**

**Cooler ID: Default Cooler**

**Temperature: 19.8 °C**

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Samples in this Report**

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
AB52763-01	TF-3/20-01PCB(1963)	Solid	03/20/2023	03/22/2023
AB52763-02	TF-3/20-02PCB(1966)	Solid	03/20/2023	03/22/2023

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Positive Hits Summary**

Lab ID	Client ID					Sampled
<b>AB52763-01</b>	TF-3/20-01PCB(1963)					03/20/23 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	34	D	mg/kg	03/29/2023 13:00	
SW 846-8082A	Aroclor-1260	33	D	mg/kg	03/29/2023 13:00	
Lab ID	Client ID					Sampled
<b>AB52763-02</b>	TF-3/20-02PCB(1966)					03/20/23 00:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW 846-8082A	Aroclor-1254	1.4		mg/kg	03/28/2023 16:03	
SW 846-8082A	Aroclor-1260	0.88		mg/kg	03/28/2023 16:03	

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

EMSL Order ID: 012352763

LIMS Reference ID: AB52763

EMSL Customer ID: ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Sample Results**

**Sample: TF-3/20-01PCB(1963)**  
**AB52763-01 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
<b>GC-SVOA</b>										
Aroclor-1016	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1221	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1232	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1242	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1248	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
<b>Aroclor-1254</b>	<b>34</b>	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
<b>Aroclor-1260</b>	<b>33</b>	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1262	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
Aroclor-1268	ND	D	20	5.0	mg/kg	03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A
<b>Surrogate(s)</b>	<b>Recovery</b>	<b>Q</b>	<b>Limits</b>							
<i>Surrogate: Tetrachloro-m-xylene</i>	64%		21-123		03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A	
<i>Surrogate: Decachlorobiphenyl</i>	121%		17-128		03/27/23 14:01	03/29/23 13:00	DDI/AJ	SW846 3540C	SW 846-8082A	

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

EMSL Order ID: 012352763

LIMS Reference ID: AB52763

EMSL Customer ID: ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
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 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Sample Results**

(Continued)

**Sample: TF-3/20-02PCB(1966)**  
**AB52763-02 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
<b>GC-SVOA</b>										
Aroclor-1016	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
<b>Aroclor-1254</b>	<b>1.4</b>		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
<b>Aroclor-1260</b>	<b>0.88</b>		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
<b>Surrogate(s)</b>	<b>Recovery</b>	<b>Q</b>		<b>Limits</b>						
<i>Surrogate: Tetrachloro-m-xylene</i>	23%			21-123		03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	24%			17-128		03/27/23 14:01	03/28/23 16:03	DDI/tl	SW846 3540C	SW 846-8082A



**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763

**LIMS Reference ID:** AB52763

**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Quality Control**

**GC-SVOA**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch: BBC0318 - SW846 3540C**

**Blank (BBC0318-BLK1)**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016	ND	0.25	mg/kg
Aroclor-1016 [2C]	ND	0.25	mg/kg
Aroclor-1221	ND	0.25	mg/kg
Aroclor-1221 [2C]	ND	0.25	mg/kg
Aroclor-1232	ND	0.25	mg/kg
Aroclor-1232 [2C]	ND	0.25	mg/kg
Aroclor-1242	ND	0.25	mg/kg
Aroclor-1242 [2C]	ND	0.25	mg/kg
Aroclor-1248	ND	0.25	mg/kg
Aroclor-1248 [2C]	ND	0.25	mg/kg
Aroclor-1254	ND	0.25	mg/kg
Aroclor-1254 [2C]	ND	0.25	mg/kg
Aroclor-1260	ND	0.25	mg/kg
Aroclor-1260 [2C]	ND	0.25	mg/kg
Aroclor-1262	ND	0.25	mg/kg
Aroclor-1262 [2C]	ND	0.25	mg/kg
Aroclor-1268	ND	0.25	mg/kg
Aroclor-1268 [2C]	ND	0.25	mg/kg

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.5000	74	21-123
Surrogate: Decachlorobiphenyl	0.5000	83	17-128

**Blank (BBC0318-BLK2)**

Prepared: 3/27/2023 Analyzed: 3/29/2023

Aroclor-1016	ND	0.25	mg/kg
Aroclor-1016 [2C]	ND	0.25	mg/kg
Aroclor-1221	ND	0.25	mg/kg
Aroclor-1221 [2C]	ND	0.25	mg/kg
Aroclor-1232	ND	0.25	mg/kg
Aroclor-1232 [2C]	ND	0.25	mg/kg
Aroclor-1242	ND	0.25	mg/kg
Aroclor-1242 [2C]	ND	0.25	mg/kg
Aroclor-1248	ND	0.25	mg/kg
Aroclor-1248 [2C]	ND	0.25	mg/kg
Aroclor-1254	ND	0.25	mg/kg
Aroclor-1254 [2C]	ND	0.25	mg/kg
Aroclor-1260	ND	0.25	mg/kg
Aroclor-1260 [2C]	ND	0.25	mg/kg
Aroclor-1262	ND	0.25	mg/kg
Aroclor-1262 [2C]	ND	0.25	mg/kg
Aroclor-1268	ND	0.25	mg/kg
Aroclor-1268 [2C]	ND	0.25	mg/kg

**Surrogate(s)**

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."


**EMSL Analytical, Inc.**

 200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax: 856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763

**LIMS Reference ID:** AB52763

**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Quality Control**  
 (Continued)

**GC-SVOA (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch: BBC0318 - SW846 3540C (Continued)**
**Blank (BBC0318-BLK2)**

Prepared: 3/27/2023 Analyzed: 3/29/2023

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.5000	55	21-123
Surrogate: Decachlorobiphenyl	0.5000	68	17-128

**LCS (BBC0318-BS1)**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016	3.80	0.25	mg/kg	5.000	76	37-120
Aroclor-1260	4.29	0.25	mg/kg	5.000	86	45-121

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.5000	75	21-123
Surrogate: Decachlorobiphenyl	0.5000	83	17-128

**LCS (BBC0318-BS2)**

Prepared: 3/27/2023 Analyzed: 3/29/2023

Aroclor-1016	2.78	0.25	mg/kg	5.000	56	37-120
Aroclor-1260	3.11	0.25	mg/kg	5.000	62	45-121

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.5000	54	21-123
Surrogate: Decachlorobiphenyl	0.5000	63	17-128

**Matrix Spike (BBC0318-MS1)**
**Source: AB52763-01**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016	4.10	0.25	mg/kg	4.950	ND	83	30-133
Aroclor-1260	45.7 R3, E	0.25	mg/kg	4.950	27.5	367	30-134

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.4950	65	21-123
Surrogate: Decachlorobiphenyl	0.4950	101	17-128

**Matrix Spike Dup (BBC0318-MSD1)**
**Source: AB52763-01**

Prepared: 3/27/2023 Analyzed: 3/28/2023

Aroclor-1016	6.12 MSR	0.25	mg/kg	5.000	ND	122	30-133	40	28
Aroclor-1260	98.1 R3, E	0.25	mg/kg	5.000	27.5	NR	30-134	73	28

**Surrogate(s)**

Surrogate: Tetrachloro-m-xylene	0.5000	71	21-123
Surrogate: Decachlorobiphenyl	0.5000	100	17-128

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Certified Analyses included in this Report**

Analyte	CAS #	Certifications
<b>SW 846-8082A in Solid</b>		
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254 [2C]	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260 [2C]	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP

**List of Certifications**

Code	Description	Number	Expires
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2023
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2023
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2023
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2023

Please see the specific Field of Testing (FOT) on [www.emsl.com](http://www.emsl.com) <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077  
 Telephone: 856-858-4800 Fax:856-786-5974  
 EMSL-CIN-01

**EMSL Order ID:** 012352763**LIMS Reference ID:** AB52763**EMSL Customer ID:** ELES42

**Attention:** David Bertsch  
 Element Environmental Solutions, Inc. [ELES42]  
 61 Willow Street, PO Box 921  
 Adamstown, PA 19501  
 (717) 484-5111  
 iaq@e2s.us

**Project Name:** Toby Farms School  
**Customer PO:** 1465.0001  
**EMSL Sales Rep:** Gary Perlmutter  
**Received:** 03/22/2023 09:30  
**Reported:** 04/05/2023 14:40

**Notes and Definitions**

<b>Item</b>	<b>Definition</b>
D	Analyte was reported from a dilution run.
E	Result is beyond calibration range. This value is estimated.
MSR	The RPD for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
R3	Recovery is outside of the control limits due to matrix interference.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

**Environmental Chemistry  
Chain of Custody**  
EMSL Order Number (Lab Use Only):

AB52763

EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077  
PHONE: 1-800-220-3675  
FAX: (856) 786-5974



**Report To Contact Name:** David Bertsch  
**Company Name:** Element Environmental Solutions  
**Street:** 61 Willow Street PO Box 921  
**City:** Adamstown **State/Province:** PA **Zip/Postal Code:** 19501  
**Phone:** 717-484-5111 **Fax:** \_\_\_\_\_  
**Project Name:** Toby Farms School  
**U.S. State where Samples Collected:** PA  
**Bill To Company:** Element Environmental Solutions  
**Attention To:** David Bertsch  
**Street:** 61 Willow Street, PO Box 921  
**City:** Adamstown **State/Province:** PA **Zip/Postal Code:** 19501  
**Phone:** 717-484-5111 **Fax:** \_\_\_\_\_  
**Email Results To:** dave@e2s.us, IAR@e2s.us  
**Number of Samples in Shipment:** 2  
**Date of Shipment:** 3/21/23  
**Purchase Order:** 1465.0001

**Sample for Compliance?** Yes  No  If yes, NPDES?  Other (Specify): \_\_\_\_\_  
**Samples Collected by:** EMSL  Client  check one  
**Standard Turnaround Time:**  2 Weeks  
 The following TATs are subject to lab approval:  1 Week  4 Days  3 Days  2 Days  1 Day  
**Failure to complete will hinder processing of samples**  
**Sampled By (Signature):** *Michelle Berk* **Samples Received Chilled (Y/N)** \_\_\_\_\_

Client Sample ID	Comp	Grab	Collect Date/Time	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	List Test(s) Needed	Field Tests Needed				Comments	
							Field pH	Field pH Test Time	Field Temp. Deg C	Field Temp. Test Time		
TF-3/20-01 PCB (1963)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3/20/23	O	5	PCB in Caulk (Bulk)						
TF-3/20-02 PCB (1966)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3/20/23	O	5	PCB in Caulk (Bulk)						
Released By (Signature) <i>Michelle Berk</i> Date & Time 3/21/2023												
Received By _____ Date & Time _____												

Please indicate reporting requirements:  Results Only  Results and QC  Reduced Deliverables  Disk Deliverable  Other \_\_\_\_\_  
**Instructions or Comments:** Note: Field pH and Field Temperature are tested on the same day as the date of sample collection.  
 Date & Time: 3/22/23 9:30 am.  
 (Lab) Received Temperature: 9.8 °C



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

ABSA 703

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):

Report To Contact Name: David Bertsch  
Company Name: Element Environmental Solutions  
Street: 61 Willow Street PO Box 921  
City: Adamstown State/Province: PA Zip/Postal Code: 19501  
Phone: 717-484-5111 Fax:  
Project Name: Toby Farms School Email Results To: dave@e2s.us, IAR@e2s.us Purchase Order: 1465.0001  
U.S. State where Samples Collected: PA Number of Samples in Shipment: 2 Date of Shipment: 3/21/23

Bill To Company: Element Environmental Solutions  
Attention To: David Bertsch  
Street: 61 Willow Street, PO Box 921  
City: Adamstown State/Province: PA Zip/Postal Code: 19501  
Phone: 717-484-5111 Fax:

Sample for Compliance? Yes  No  If Yes, NPDES?  Other (Specify):  
Samples Collected by: EMSL  Client  check one  
Standard Turnaround Time:  2 Weeks The following TATs are subject to lab approval:  1 Week  4 Days  3 Days  2 Days  1 Day  
Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Collect Date/Time	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	List Test(s) Needed	Field Tests Needed				Comments	
							Field pH	Field pH Test Time	Field Temp. Deg C	Field Temp. Test Time		
TF-3/20-01 PCB (1963)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3/20/23	O	5	PCB in Caulk (Bulk)						
TF-3/20-02 PCB (1966)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3/20/23	O	5	PCB in Caulk (Bulk)						
Released By (Signature)			Date & Time	Received By			Date & Time					
<i>David Bertsch</i>			3/21/2023									

Please indicate reporting requirements:  Results Only  Results and QC  Reduced Deliverables  Disk Deliverable  Other

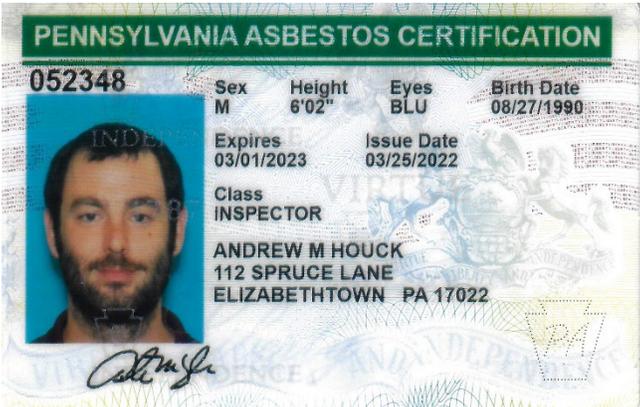
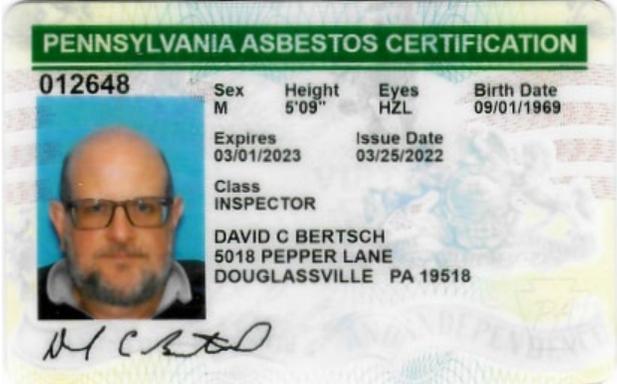
Instructions or Comments: Note: Field pH and Field Temperature are tested on the same day as the date of sample collection.

3/22/23 9:30 am

# **Appendix B**

## **Accreditations and XRF Calibration**

Asbestos Building Inspector  
Certifications



Number 755566

Expiration Date:  
03/07/2024

# *Certificate of Training*

**CRITERION LABORATORIES, INC.**

**HEREBY CERTIFIES THAT**

**David C. Bertsch**

**HAS SUCCESSFULLY COMPLETED A 4 HOUR TELECONFERENCE COURSE ENTITLED**

**Asbestos Building Inspector Refresher**

**INCLUDING CLASSROOM INSTRUCTION**

**on this 7th day of March 2023**

**Approved for AHERA Accreditation Under TSCA Title II**

400 Street Road  
Bensalem, PA 19020  
(215) 244-1300 - Phone  
(215) 244-4349 - Fax  
www.criterionlabs.com

**DIRECTOR:** *Adam Weltz*

*Adam Weltz, President*

Rev. 20230216

Course is conducted in English

Number 755562

Expiration Date:  
03/07/2024

# *Certificate of Training*

**CRITERION LABORATORIES, INC.**

**HEREBY CERTIFIES THAT**

**Andrew M. Houck**

**HAS SUCCESSFULLY COMPLETED A 4 HOUR TELECONFERENCE COURSE ENTITLED**

**Asbestos Building Inspector Refresher**

**INCLUDING CLASSROOM INSTRUCTION**

**on this 7th day of March 2023**

**Approved for AHERA Accreditation Under TSCA Title II**

400 Street Road  
Bensalem, PA 19020  
(215) 244-1300 - Phone  
(215) 244-4349 - Fax  
www.criterionlabs.com

**DIRECTOR:** *Adam Weltz*

*Adam Weltz, President*

Rev. 20230216  
Course is conducted in English

**PENNSYLVANIA LEAD CERTIFICATION**

**000520**

Sex	Height	Eyes	Birth Date
M	5'10"	HZL	09/01/1969

Expires 04/07/2023      Issue Date 04/14/2022

Class  
RISK ASSESSOR

DAVID C BERTSCH  
5018 PEPPER LANE  
DOUGLASSVILLE PA 19518



*David C Bertsch*



CERTIFICATE OF TRAINING

This certifies that

**David Bertsch**

*has successfully completed a(n) 8-hour training course entitled:*

VIRTUAL LEAD RISK ASSESSOR REFRESHER (40 CFR 745.226)

*on March 22, 2023*

Certificate # 26-PAI-00137  
Lead Expiration Date: March 22, 2026

Mechanicsburg Training Center  
4 Kacey Court  
Mechanicsburg, PA 17055  
717-766-4500



# INSTRUMENT CALIBRATION REPORT

**Pine Environmental Services LLC**

780 5th Ave  
Suite 110  
King of Prussia, PA 19406  
484-690-1019

## **Pine Environmental Services, Inc.**

**Instrument ID** 40857  
**Description** x-550 XRF  
**Calibrated** 3/16/2023 1:31:49PM

<b>Manufacturer</b> SciAps	<b>State Certified</b>
<b>Model Number</b> X-550	<b>Status</b> Pass
<b>Serial Number/ Lot Number</b> 00493	<b>Temp °C</b> 21
<b>Location</b> Philadelphia	<b>Humidity %</b> 17
<b>Department</b>	

### Calibration Specifications

Group #		Group Name		Stated Accy		Range Acc %		Reading Acc %		Plus/Minus	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>				

<u>Test Instruments Used During the Calibration</u>						<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date/ Opened Date</u>	<u>Next Cal Date/ Expiration Date</u>	

### Notes about this calibration

**Calibration Result** Calibration Successful  
**Who Calibrated** Joseph Petraglia

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment  
Please call 800-301-9663 for Technical Assistance**